

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Robert Klos	06 01 14	06 14 14				Ely Danner	06 01 14	06 14 14
Dale Miranda	06 01 14	06 14 14				Jason Cross	06 01 14	06 14 14

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (sec/qt)	pH	Fluid Loss (bbl)	Oil / Water	Source	Total Chlorides (mg/l)	K+ (%)
06 01 14	09:30	1	1047.0	Water Based	8.7	35	8.8	0.0	2 / 93	Active Mud Pit	2,800	0.0
06 02 14	07:30	1	2082.0	Water Based	8.4	30	9.4	0.0	1 / 95	Active Mud Pit	2,600	0.0
06 03 14	07:00	1	6821.0	Water Based	9.5	63	9.3	5.8	0 / 93	Active Mud Pit	2,800	0.0
06 04 14	07:00	2	7332.0	Water Based	10.3	60	10.5	4.6	0 / 91	Active Mud Pit	2,800	0.0
06 05 14	08:30	2	7835.0	Water Based	10.3	48	10.0	4.6	2 / 87	Active Mud Pit	3,400	0.0
06 06 14	06:00	3	8032.0	Water Based	10.6	50	8.5	5.0	2 / 86	Active Mud Pit	3,500	0.0
06 07 14	09:00	3	8301.0	Water Based	9.0	42	9.3	8.0	2 / 92	Active Mud Pit	3,200	0.0
06 08 14	04:30	3	10821.0	Water Based	9.2	50	9.0	6.0	3 / 91	Active Mud Pit	3,000	0.0
06 09 14	08:00	4	12737.0	Water Based	9.2	49	9.0	4.9	3 / 92	Active Mud Pit	2,400	0.0
06 10 14	06:30	4	13400.0	Water Based	9.4	44	9.0	5.4	2 / 91	Active Mud Pit	2,400	0.0
06 11 14	05:30	5	15512.0	Water Based	9.3	43	9.7	5.6	2 / 90	Active Mud Pit	2,500	0.0
06 12 14	08:00	5	16623.0	Water Based	9.3	67	8.6	6.6	2 / 90	Active Mud Pit	2,400	0.0

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg	API
GRIX	Gamma Ray Data Density	Points
GRSI	Gamma Ray Sliding Indication	Unitless
GRTX	Gamma Ra Time Since Drilled	Mins
ROPA	Rate of Penetration, 3.0 ft. Avg	ft/hr
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA	Surface Weight on Bit, 1.0 ft. Avg	klbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12235763	Directional	47.44	6.750	3.654
1	SRIG	10341993	Gamma	44.07	6.750	3.654
2	DIR	12235763	Directional	40.66	6.750	3.654
2	SRIG	10341993	Gamma	37.29	6.750	3.654
3	DIR	12373461	Directional	50.27	4.750	2.215

3	SRIG	12376056	Gamma	46.89	4.750	2.215
4	DIR	13051163	Directional	53.62	2.038	2.038
4	SRIG	12722373	Gamma	50.24	2.038	2.038
5	DIR	13051163	Directional	49.94	2.038	2.038
5	SRIG	12722373	Gamma	53.32	2.038	2.038

Service and Tool Mnemonics


Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

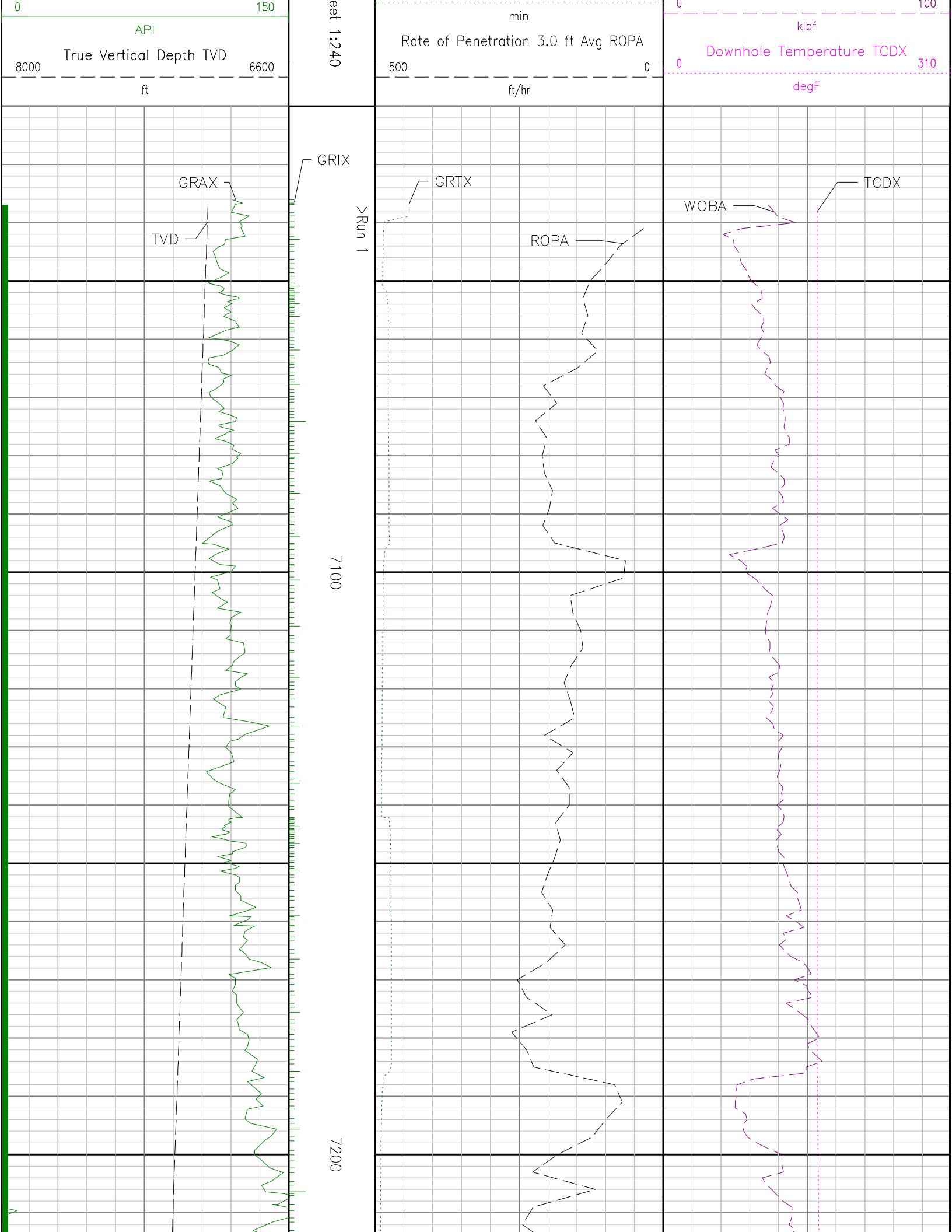
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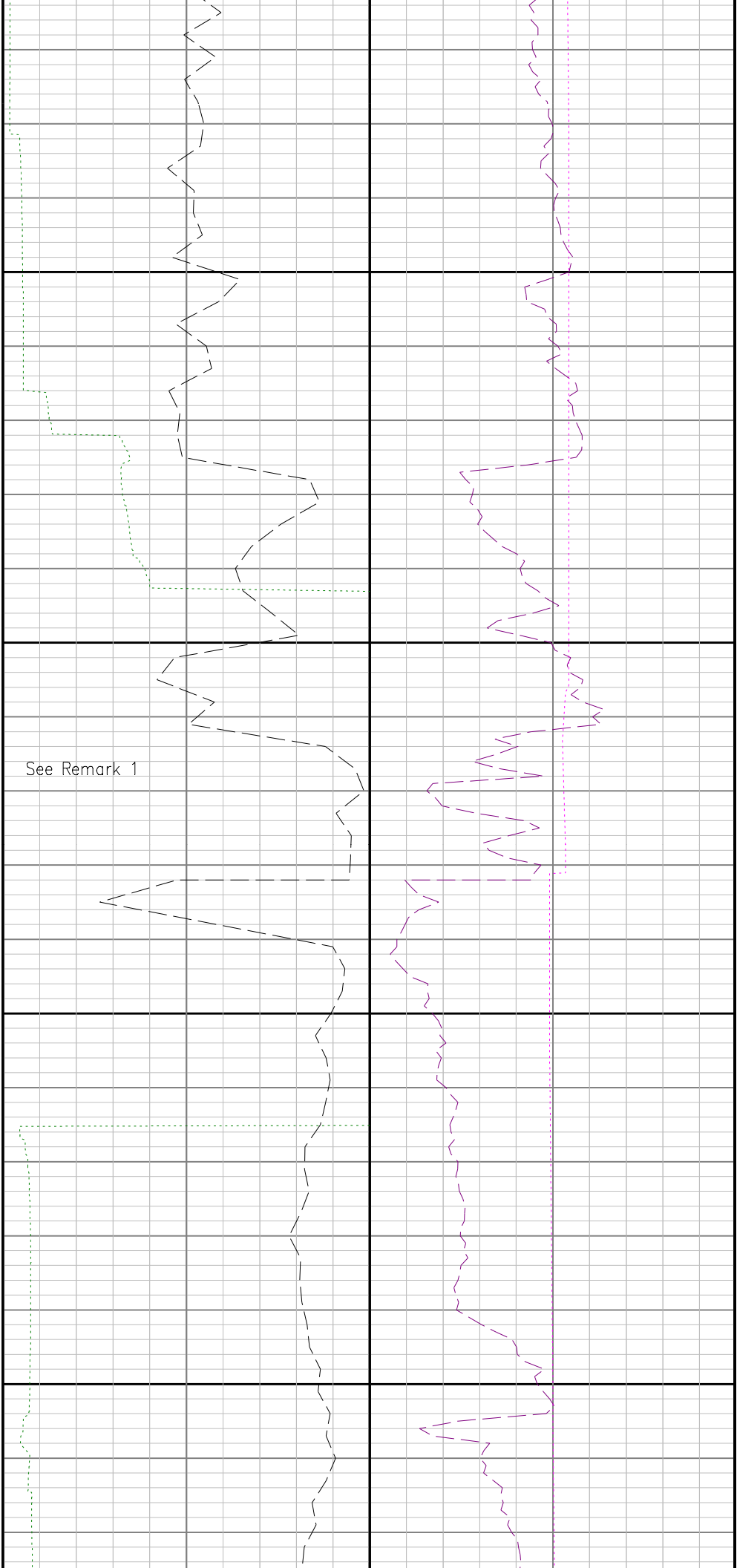
<p>1. Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes INTEQ. Due to lack of control by Baker Hughes INTEQ logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to INTEQ are being used to represent logging data.</p> <p>2. A sliding indicator is shown on the left side of track 1 as a heavy line. This indicator has been shifted to the gamma ray sensor offset to correspond with gamma ray data acquired while sliding.</p> <p>3. Baker Hughes runs 1 and 2 utilized a 6.75 inch Navigamma (Gamma Ray and Directionl) tool behind a 8.75 inch bit and steerable assembly from 985 feet to 8032 feet MD (984.99 feet to 7634.32 feet TVD.)</p> <p>4. Baker Hughes run 3, 4 and 5 utilized a 4.75 inch Navigamma (Gamma Ray and Directionl) tool behind a 6.125 inch bit and steerable assembly from 8032 feet to 17208 feet MD (7634.32 feet to 7658.27 feet TVD.)</p>
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Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	7316	8.750	2	Gamma Ray Apparent from 7292 feet to 7332 feet MD (7241.82 feet to 7279.30 feet TVD) was logged 18.98 hours after being drilled due to tripping out of hole to pick up a new BHA.
2	8017	6.125	3	Gamma Ray Apparent from 8002 feet to 8032 feet MD (7633.04 feet to 7634.32 feet TVD) was logged 48.85 hours after being drilled due to tripping out of hole to pick up the Lateral Section Assembly and Casing Operations.
3	12733	6.125	4	Gamma Ray Apparent from 12693 feet to 12737 feet MD (7639.78 feet to 7639.80 feet TVD) was logged 27.16 hours after being drilled due to tripping out of hole to pick up a new BHA.
4	Various	6.125	4	Interval at various depth in Run 4 has missing data due to Pason shut down during drill in surface logging systems.
5	16208	6.125	5	Gamma Ray Apparent from 16173 feet to 16228 feet MD (7663.61 feet to 7663.95 feet TVD) was logged 30.00 hours after being drilled due to tripping out of hole to pick up a new BHA.
6	17150	6.125	5	GRAX, GRIX and GRTX values were not logged from 17154 ft. to 17208 ft. MD (7657.95 ft. to 7658.27 ft. TVD) due to sensor offset from bit.

<div> <div>  </div> <div> <div>Company : Anadarko</div> <div>Well : Deepe 34C-27HZ</div> <div>Interval : 7020.00 - 17220.00 feet</div> <div>Created : 05/Jun/2014 9:08:26 AM</div> </div> </div>						
Gamma Ray Apparent 0.5 ft Avg GRAX		MD	0	Gamma Time Since Drilled GRTX	600	Surface Weight On Bit 1.0 ft Avg WOBA

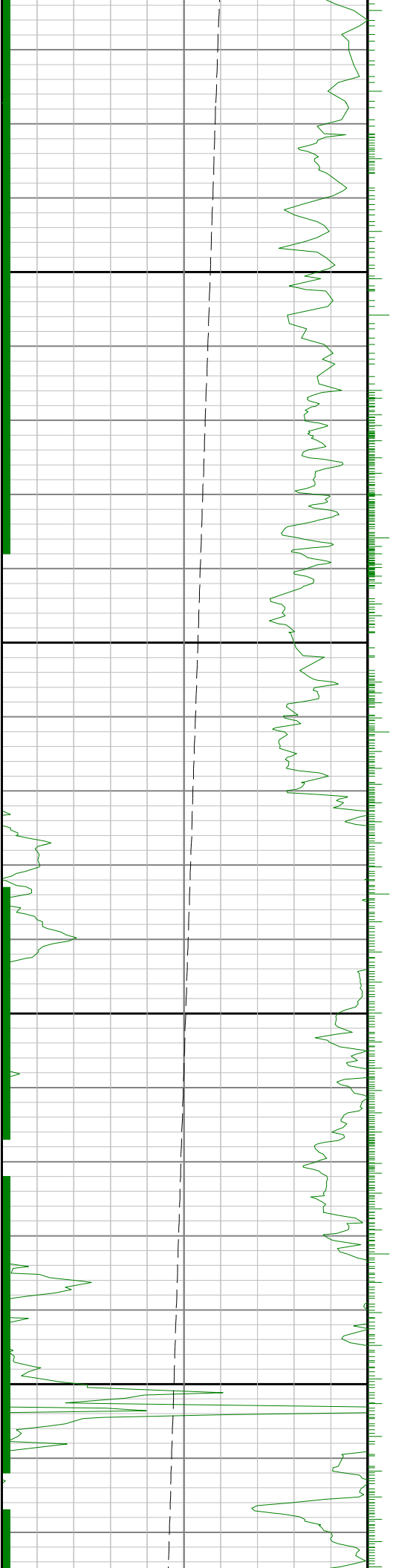


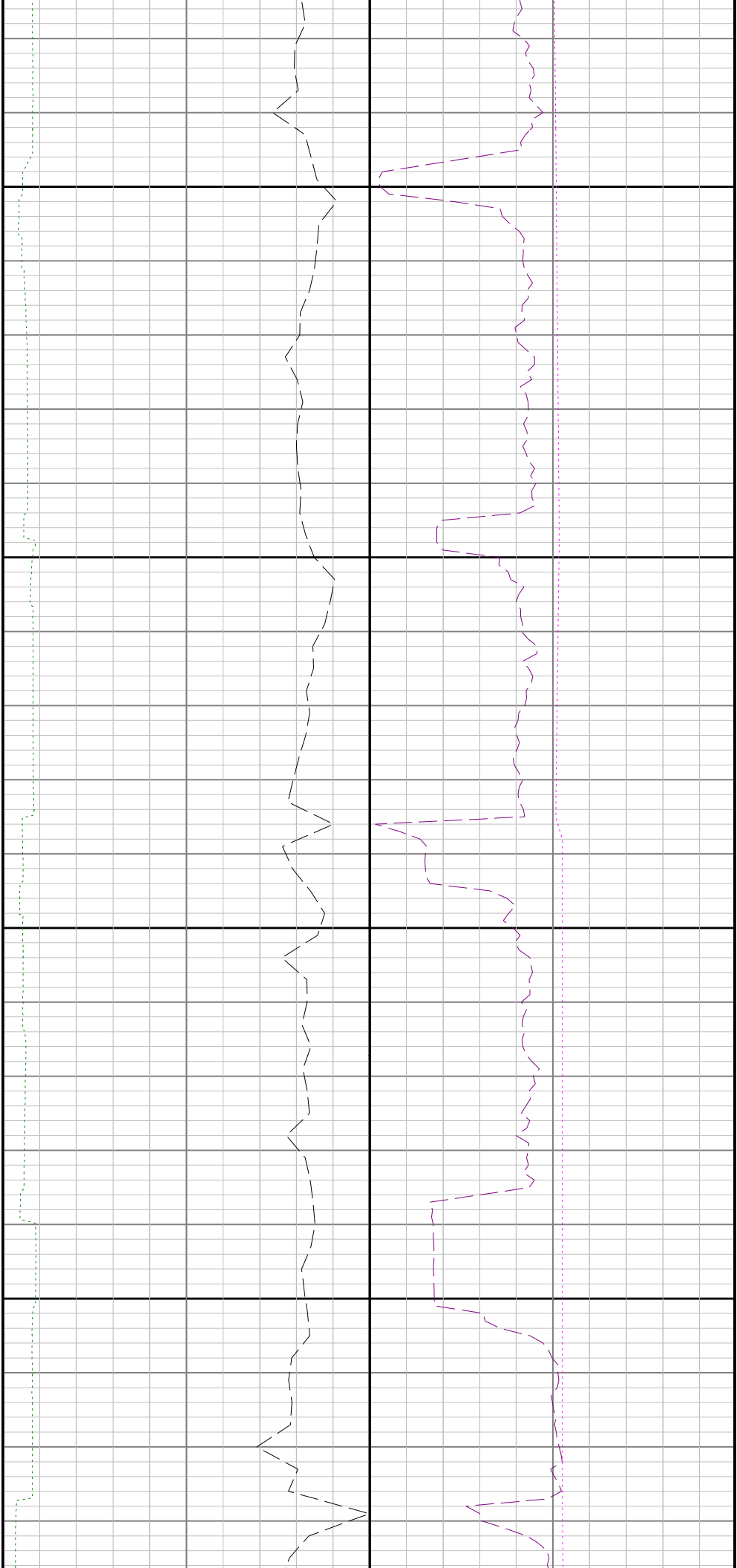


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Run 1 <> Run 2

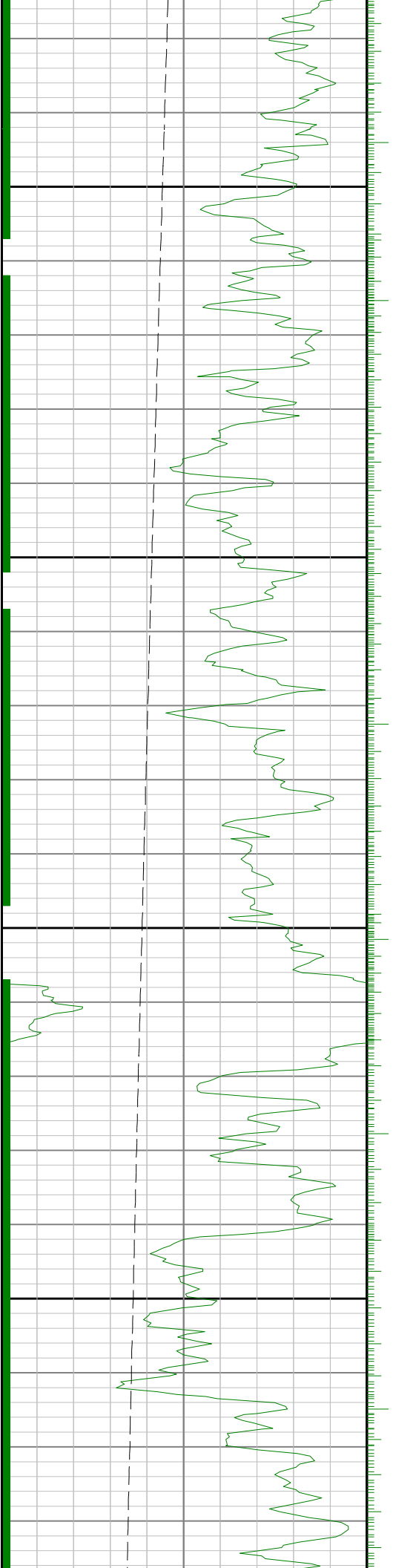
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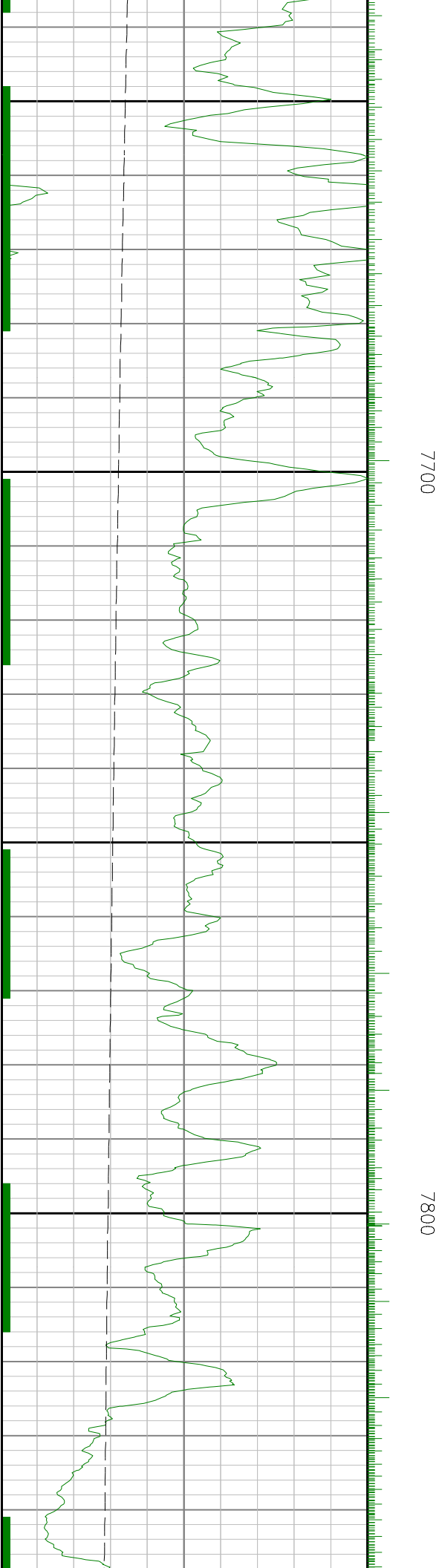
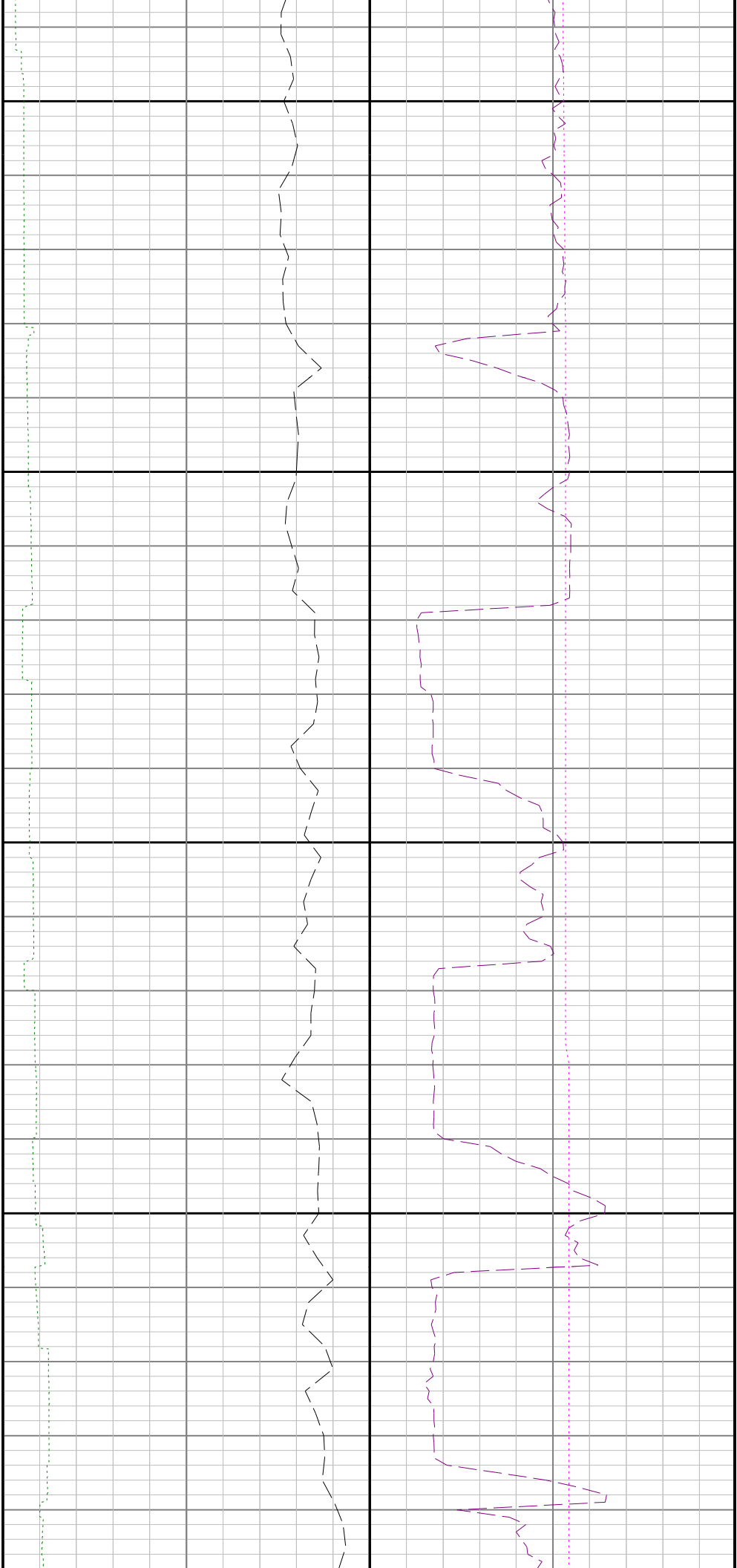


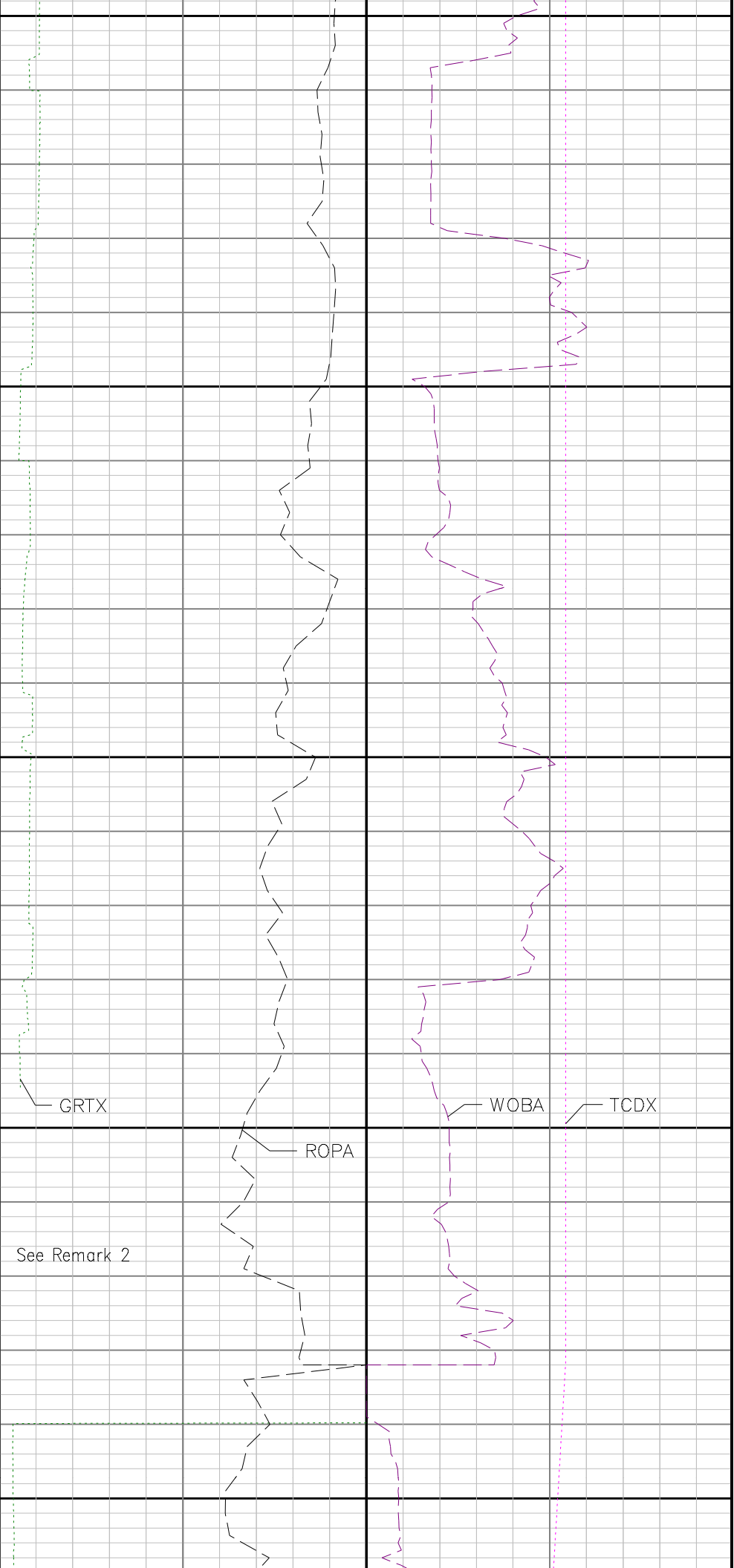
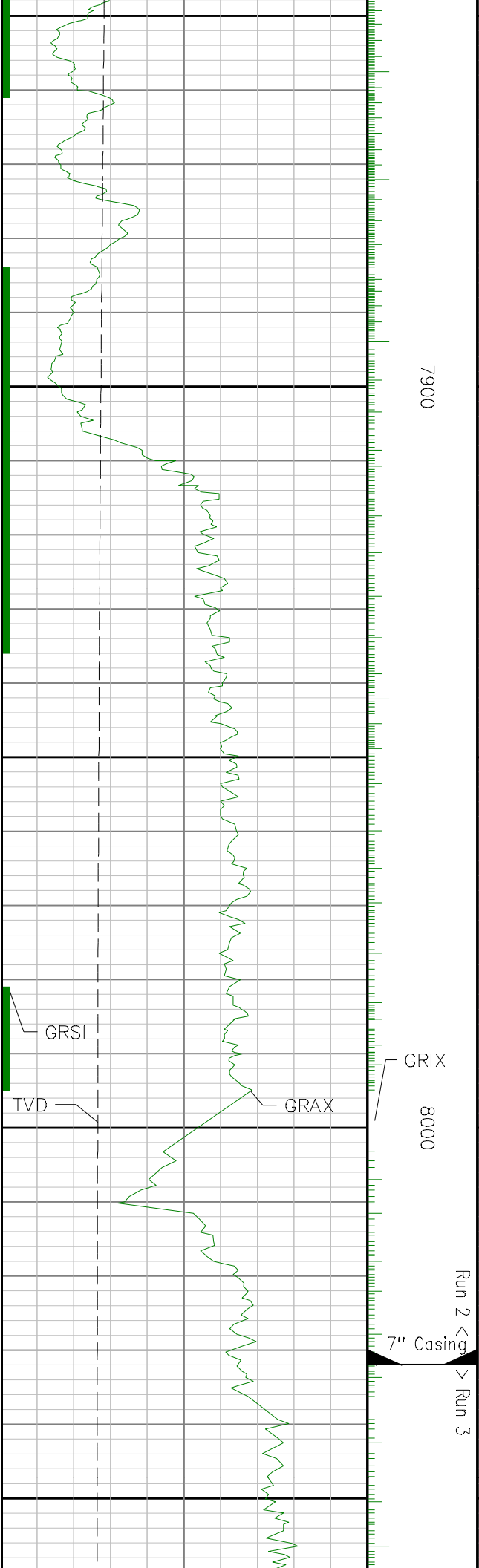


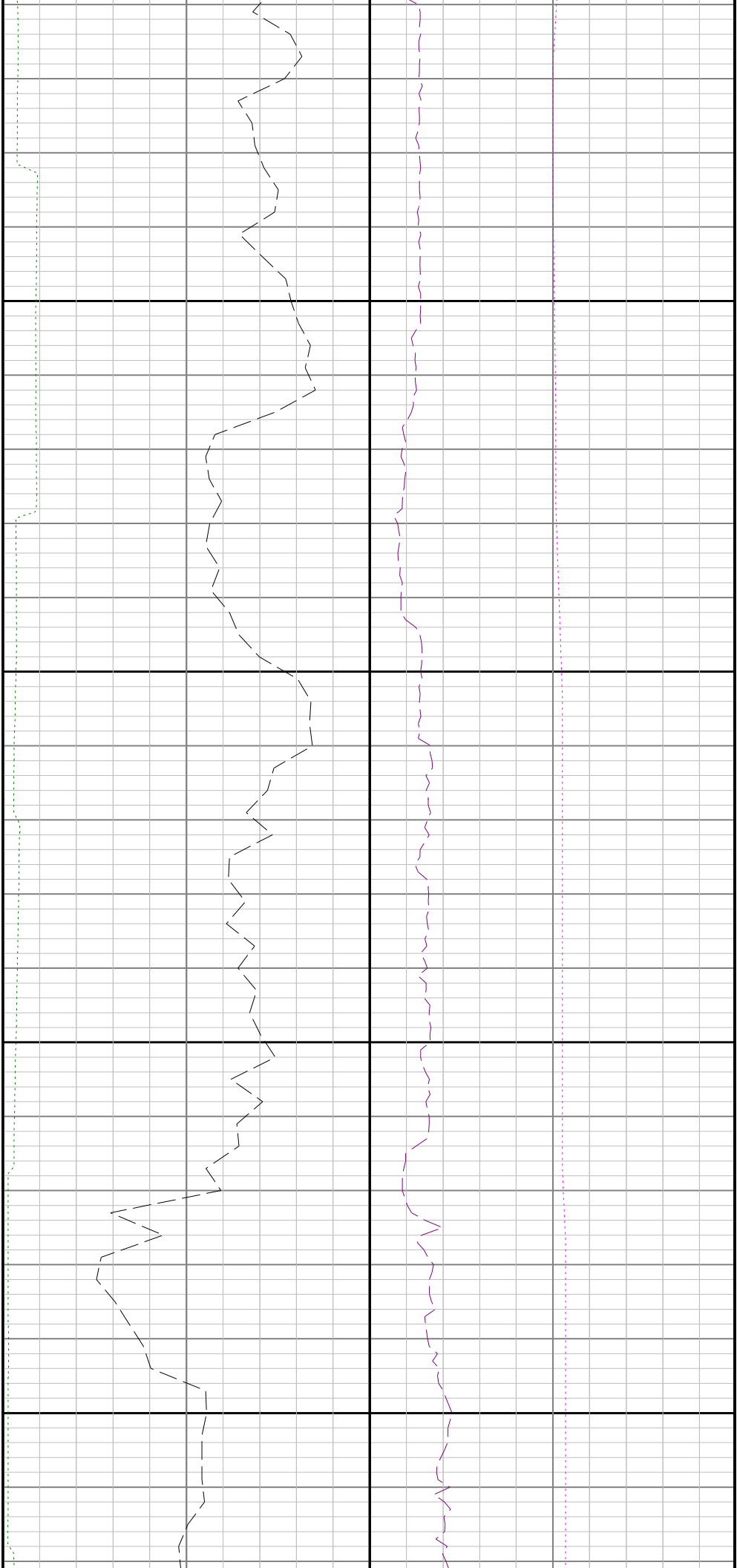
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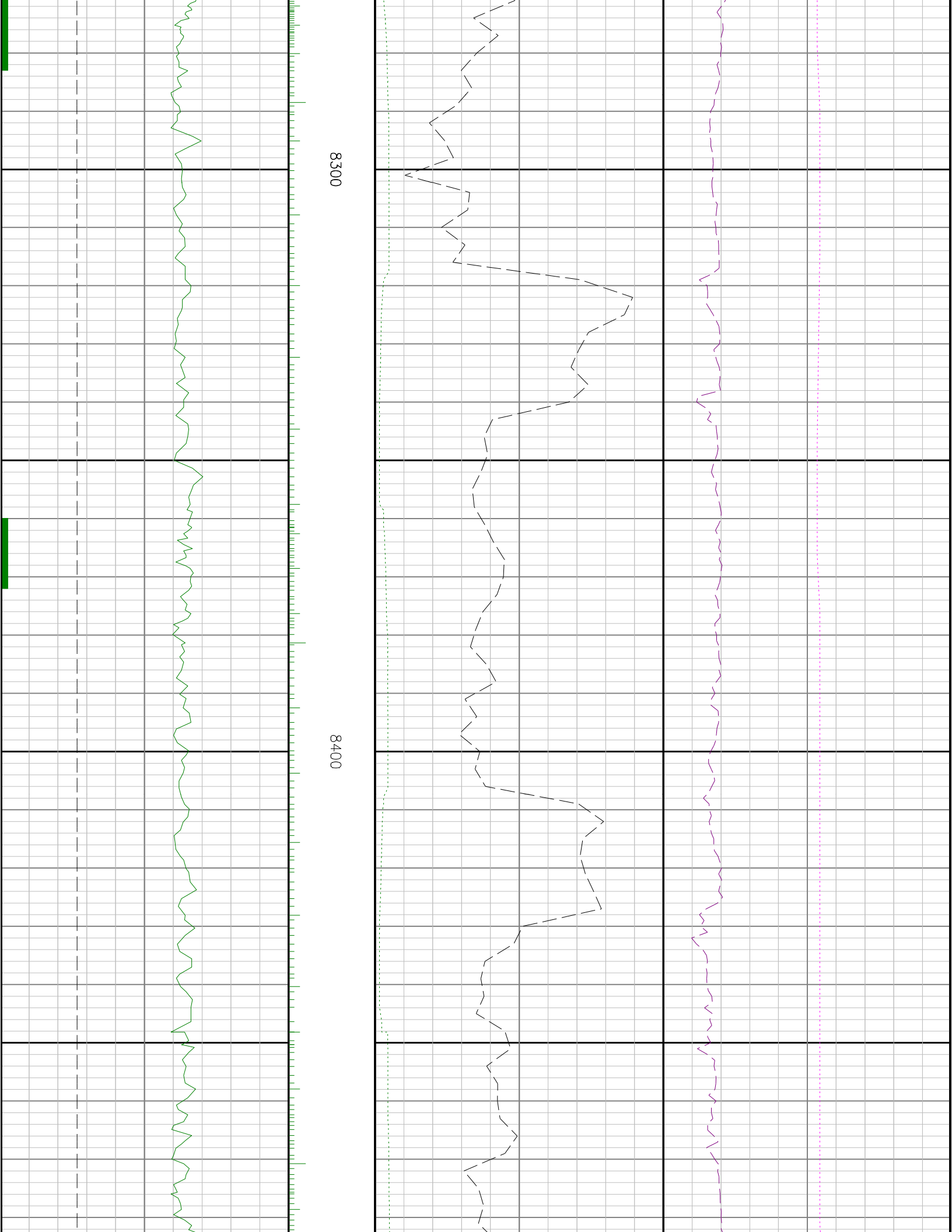


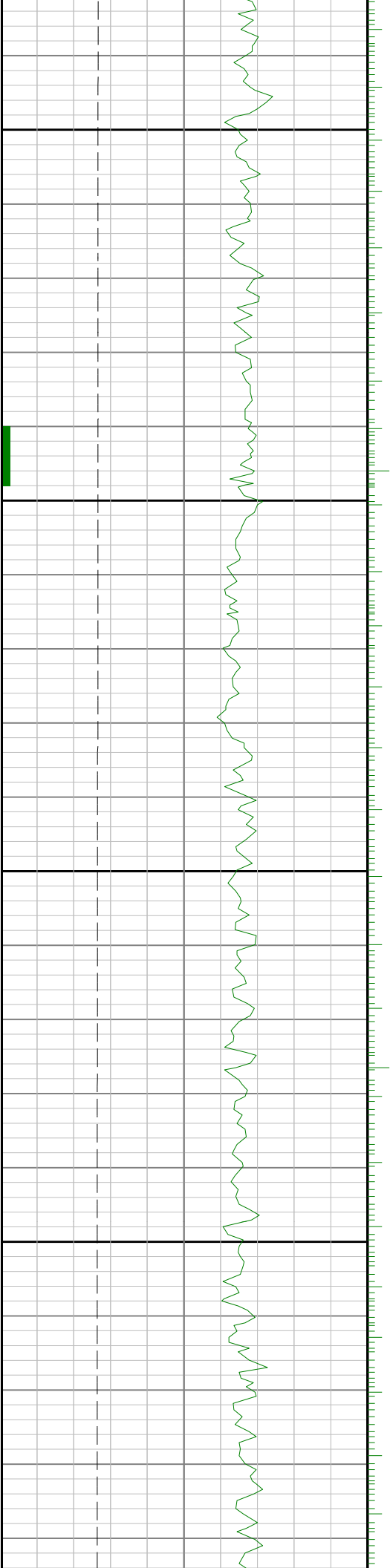




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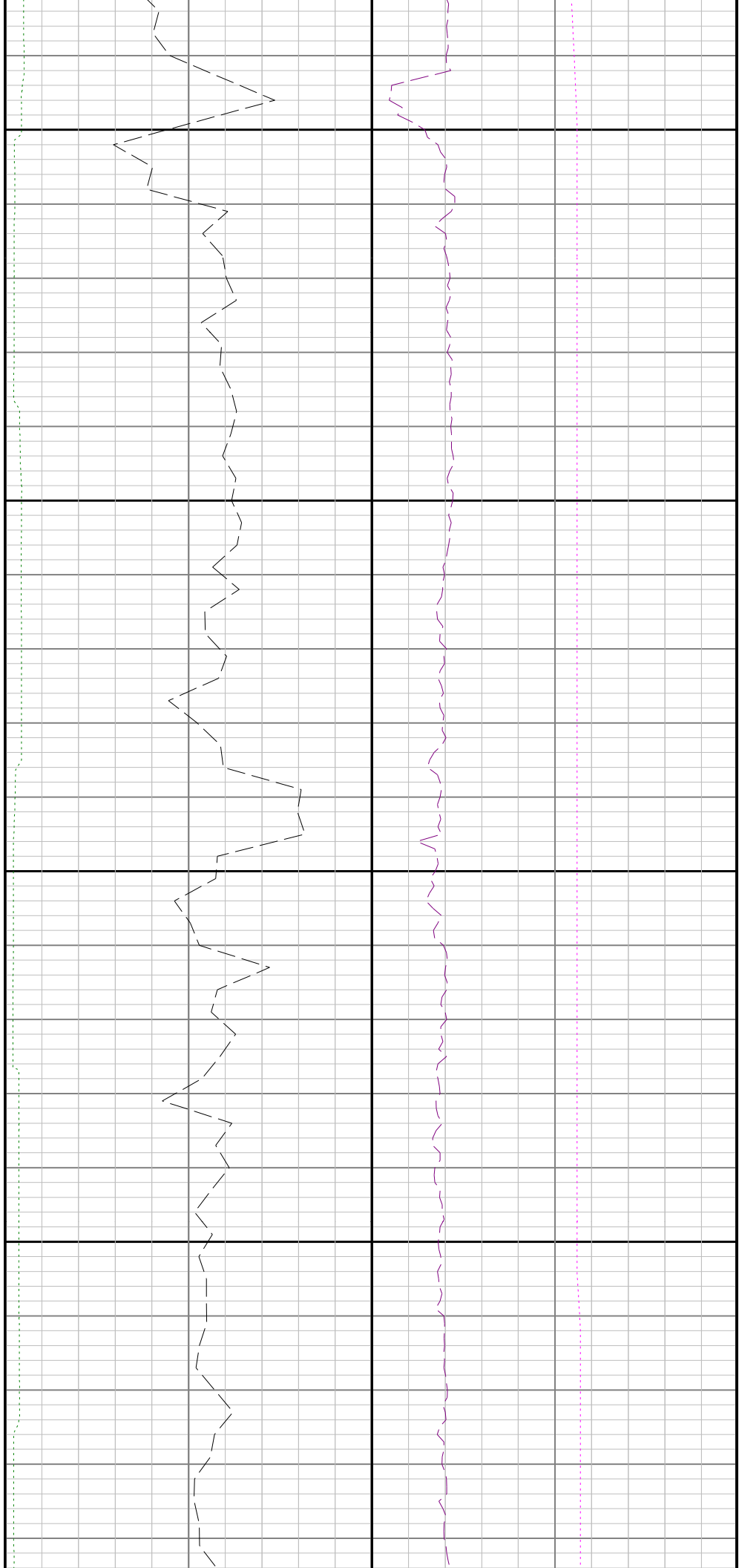
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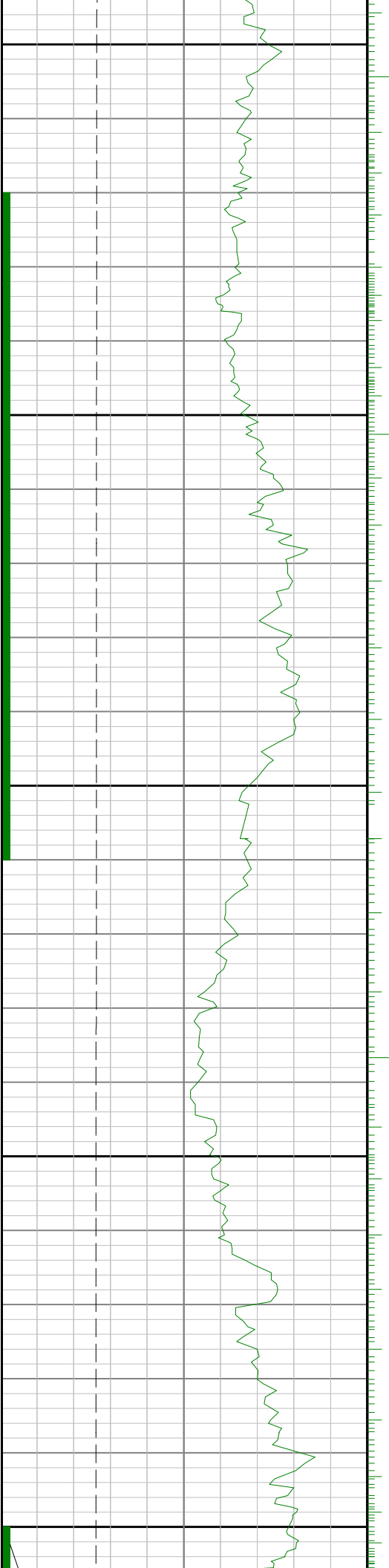




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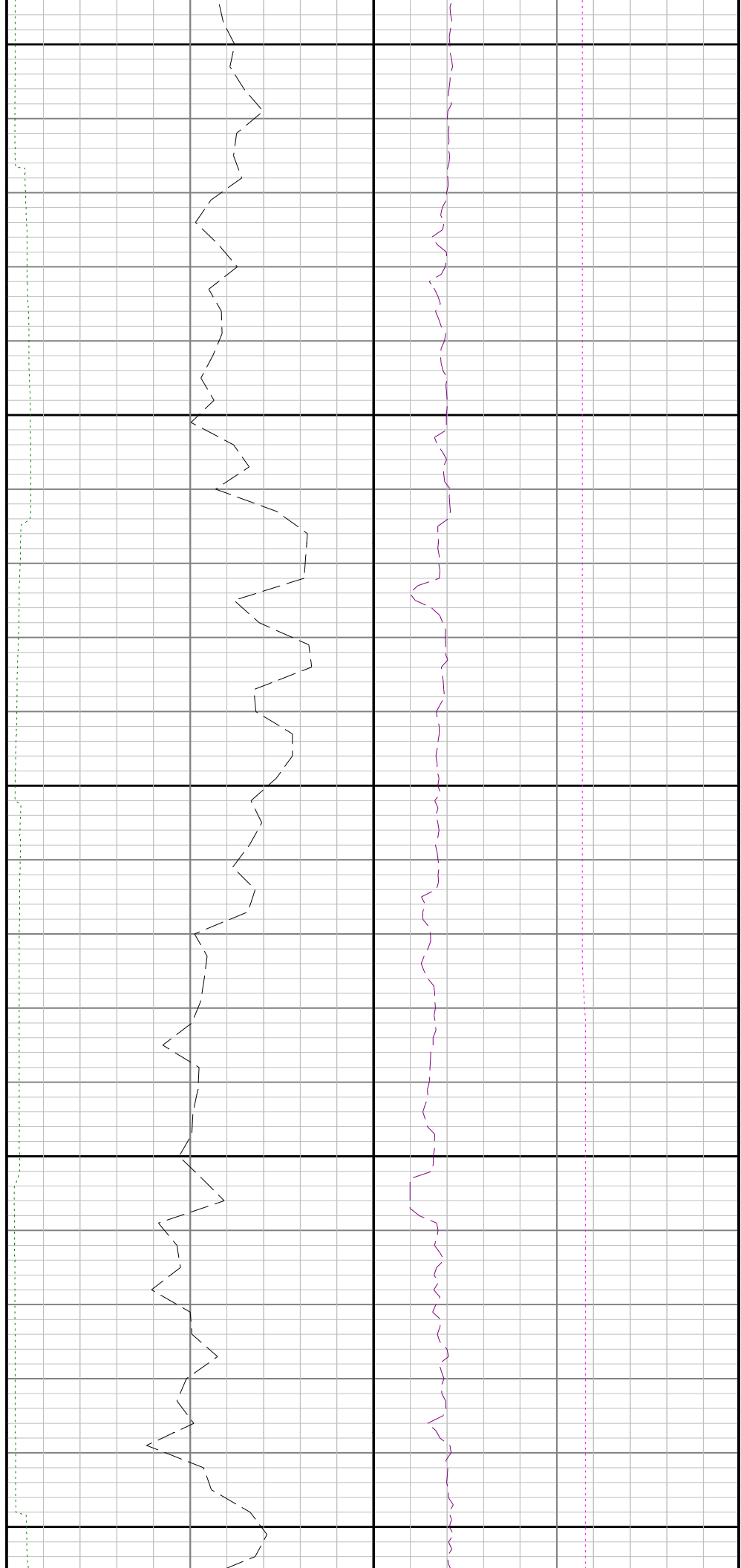


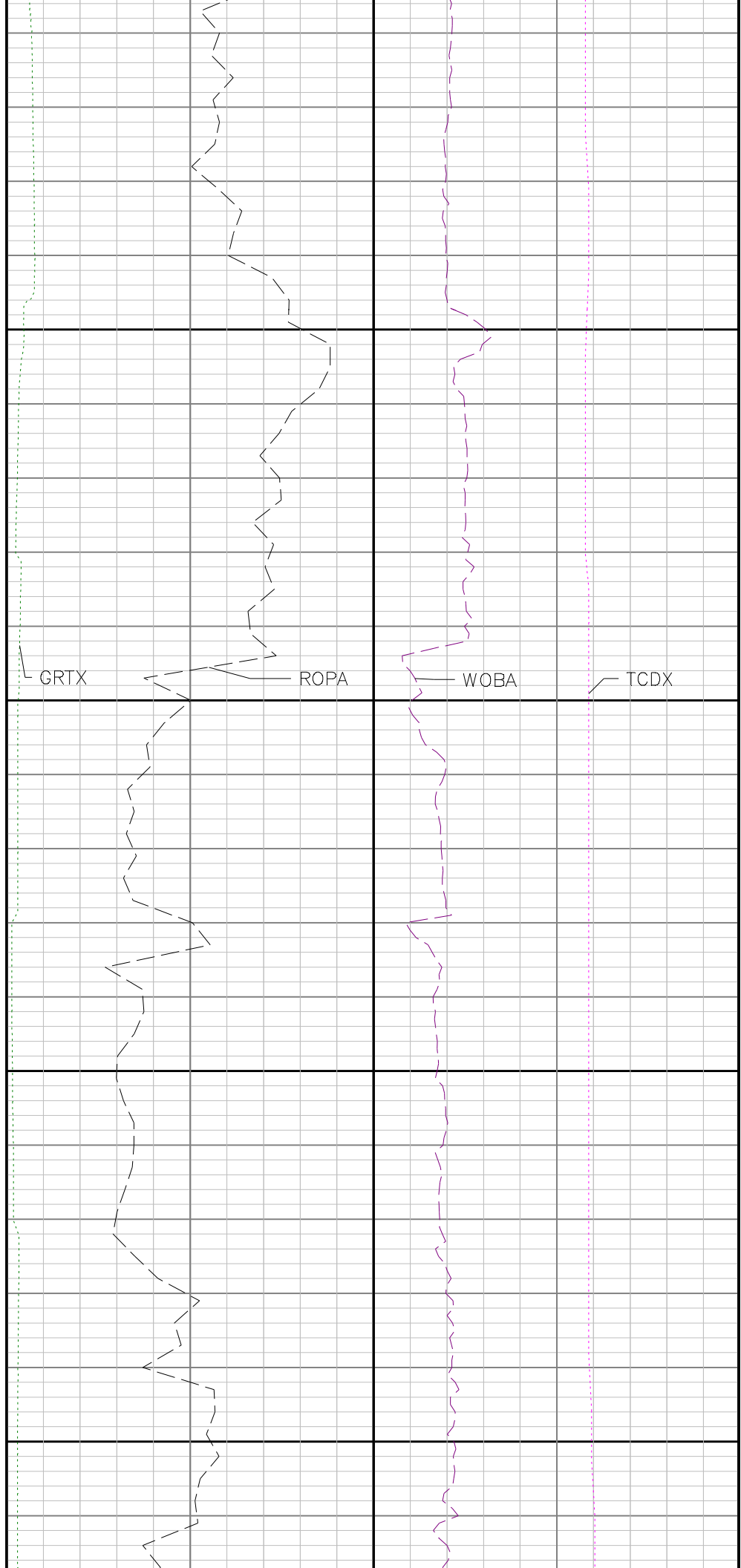
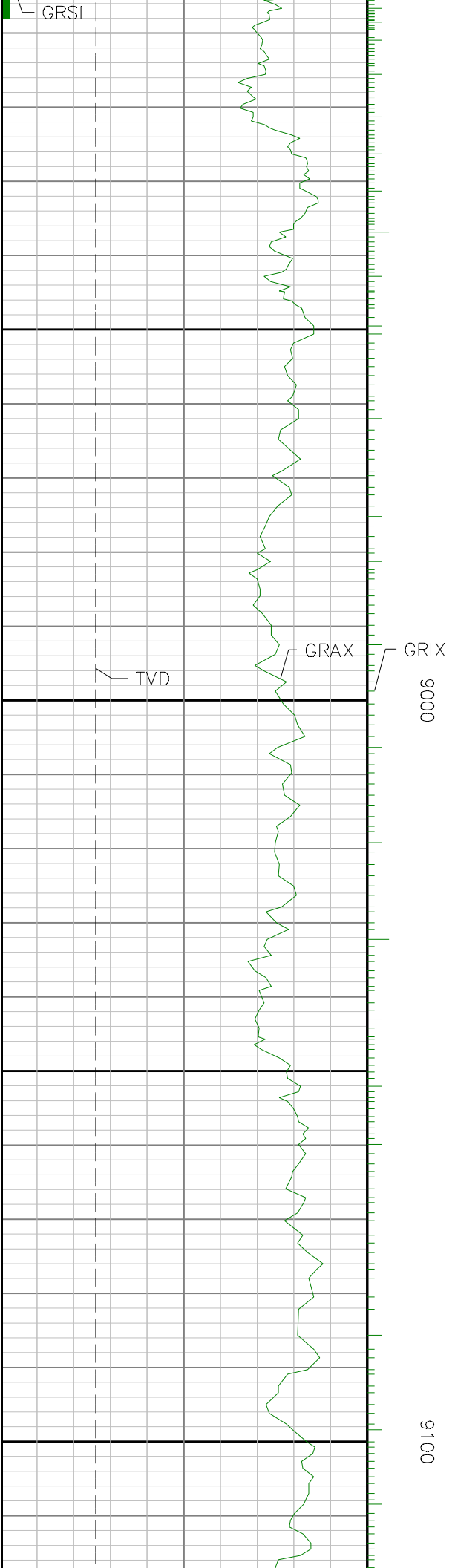


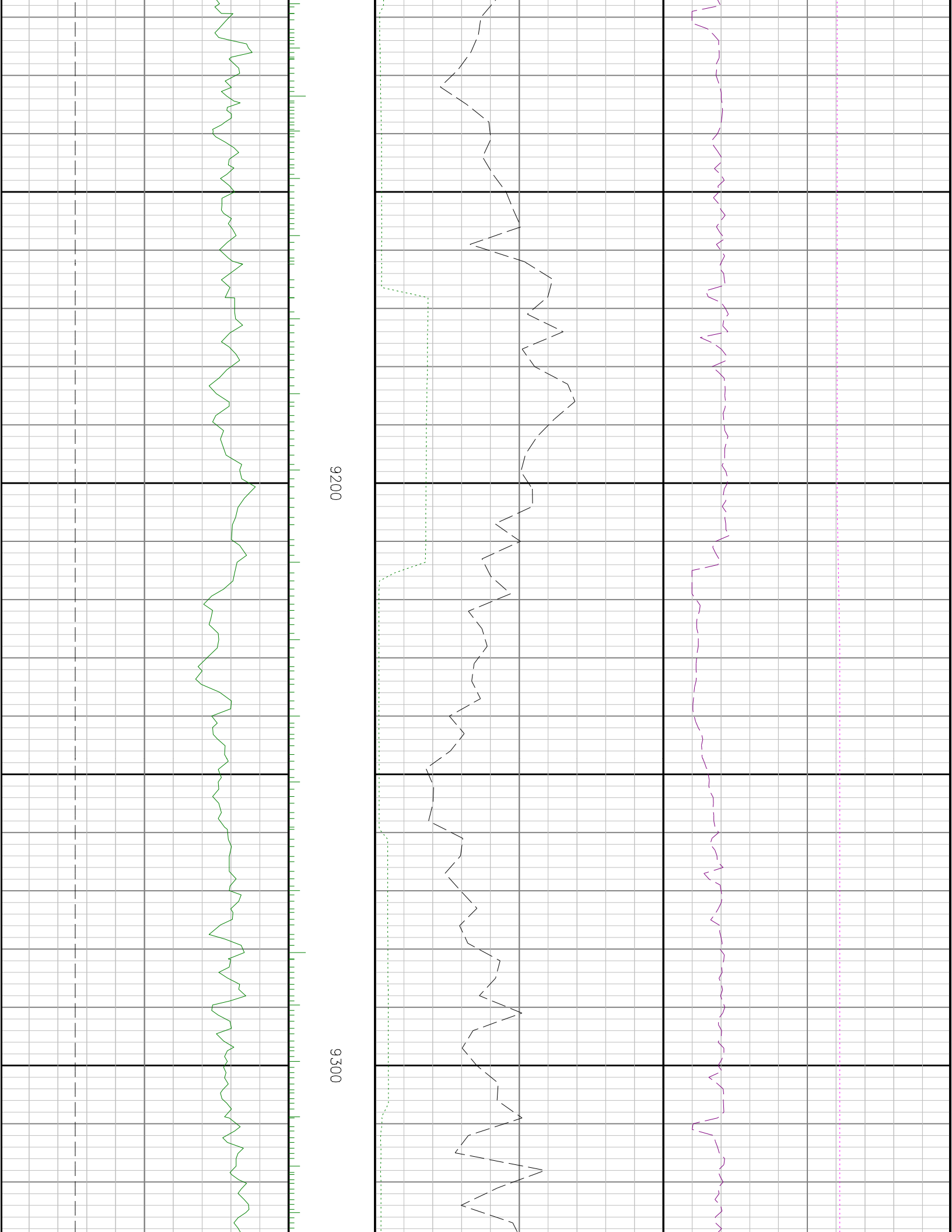
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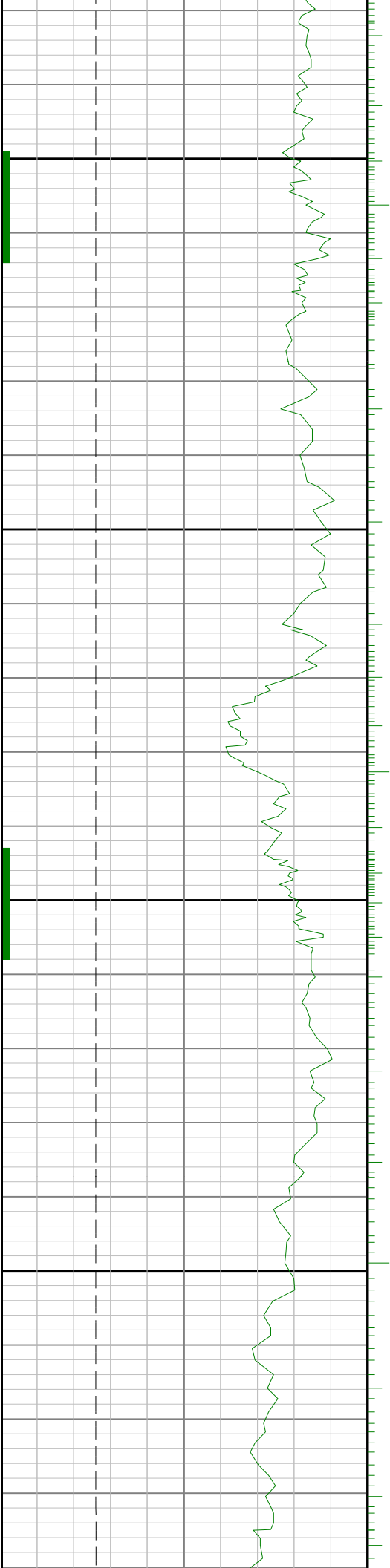
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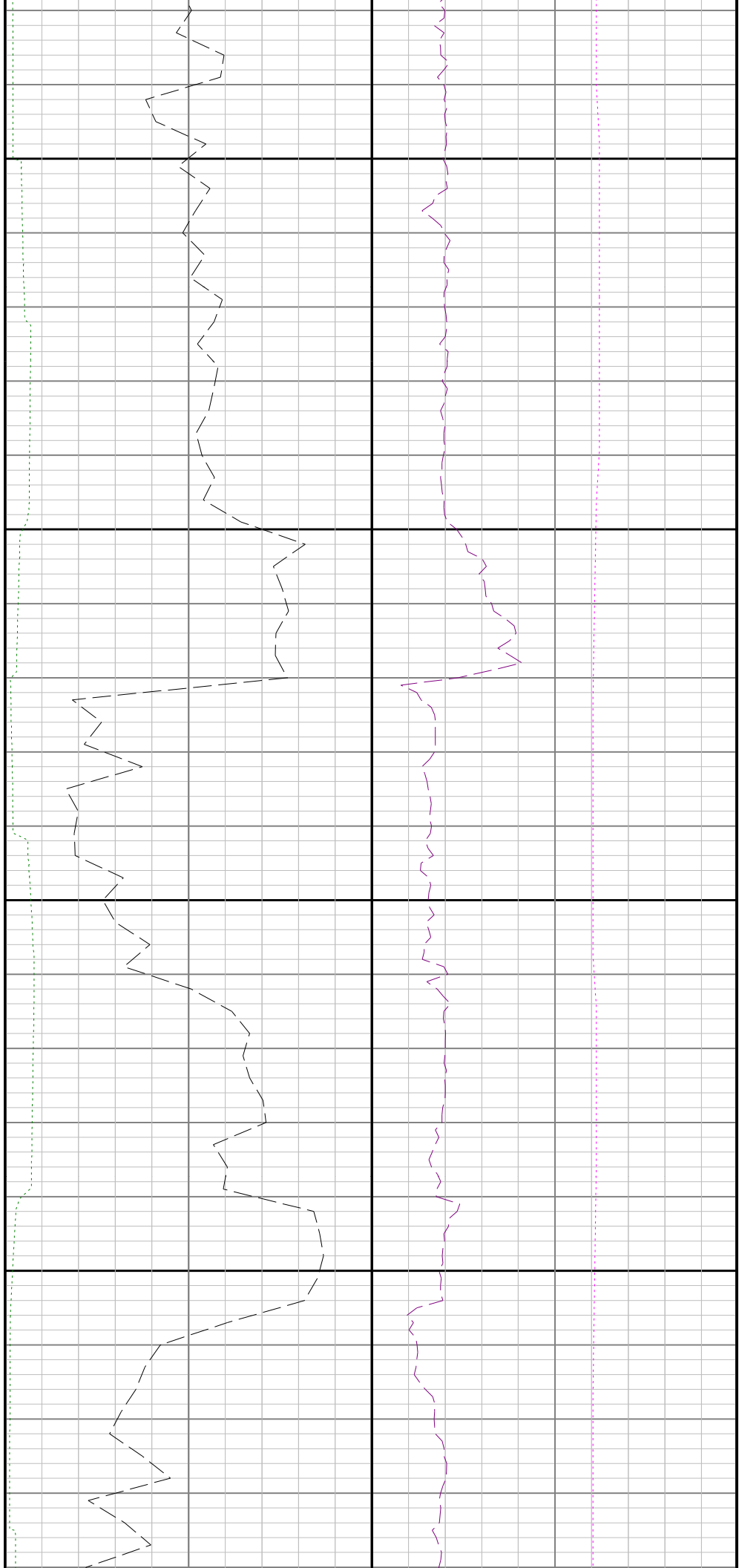


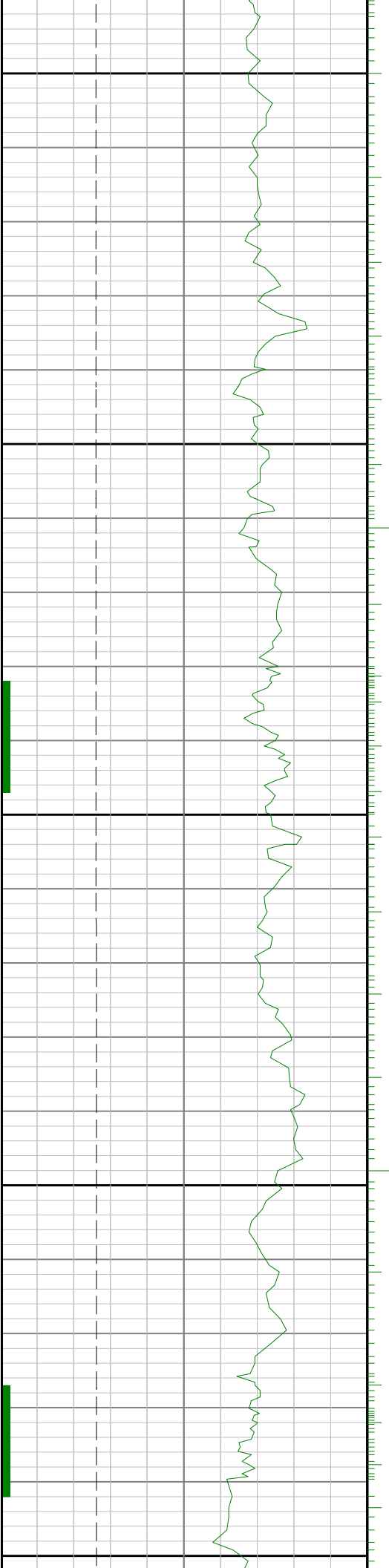




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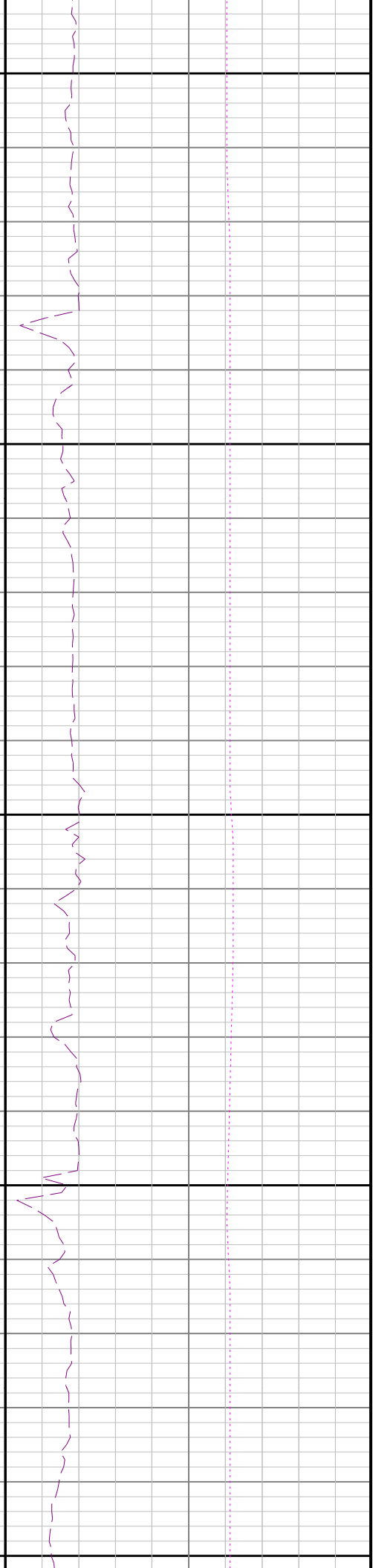
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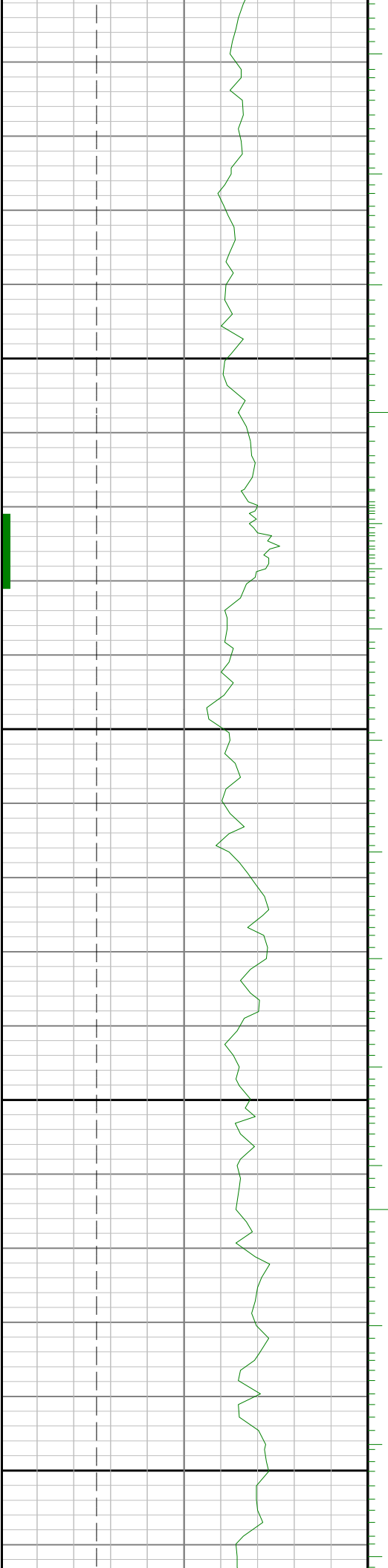




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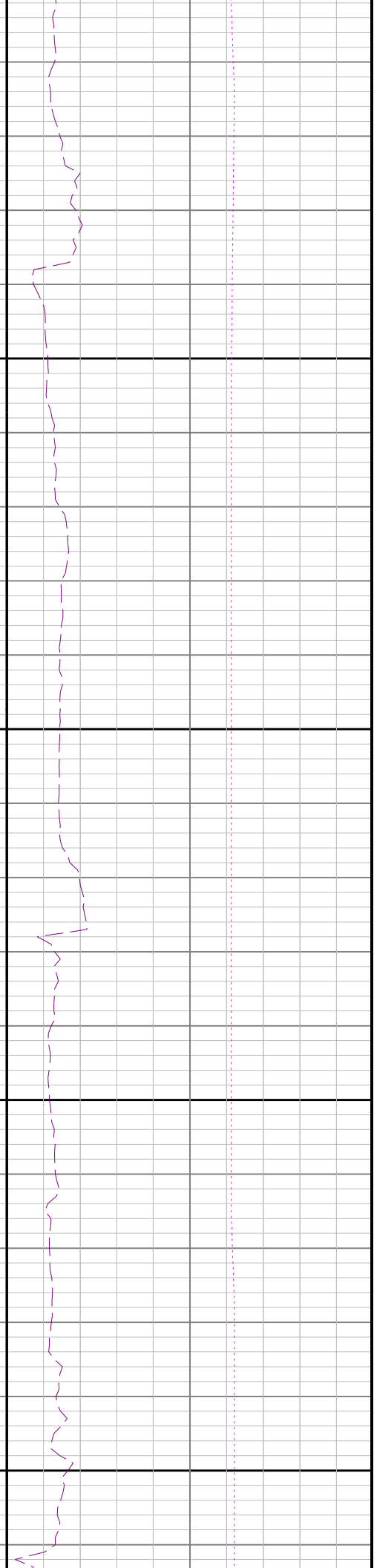
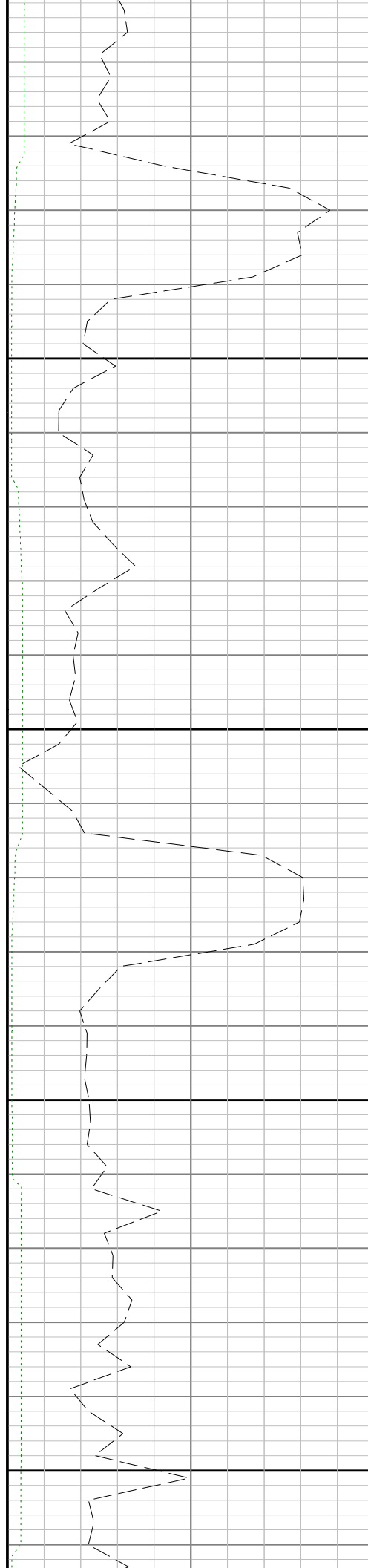
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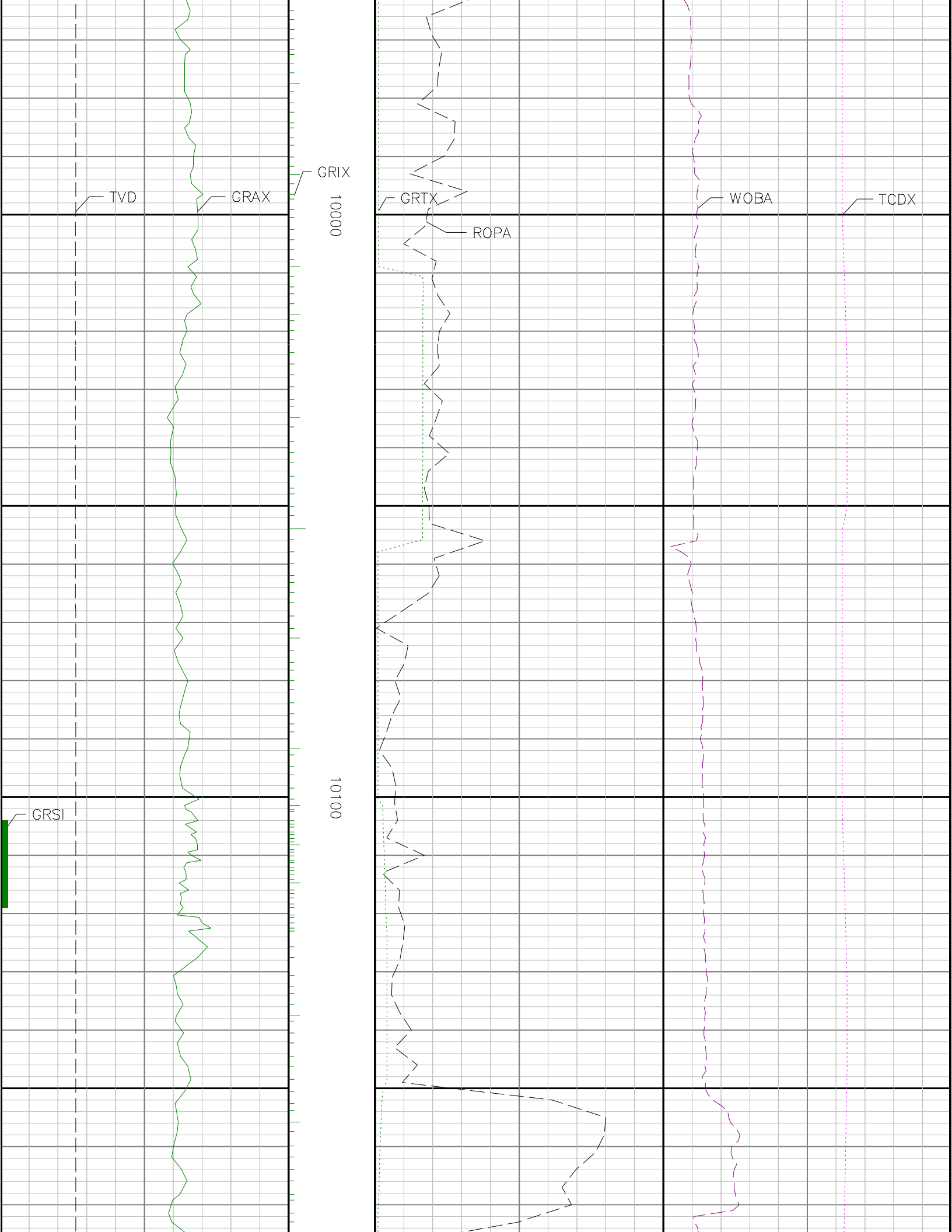


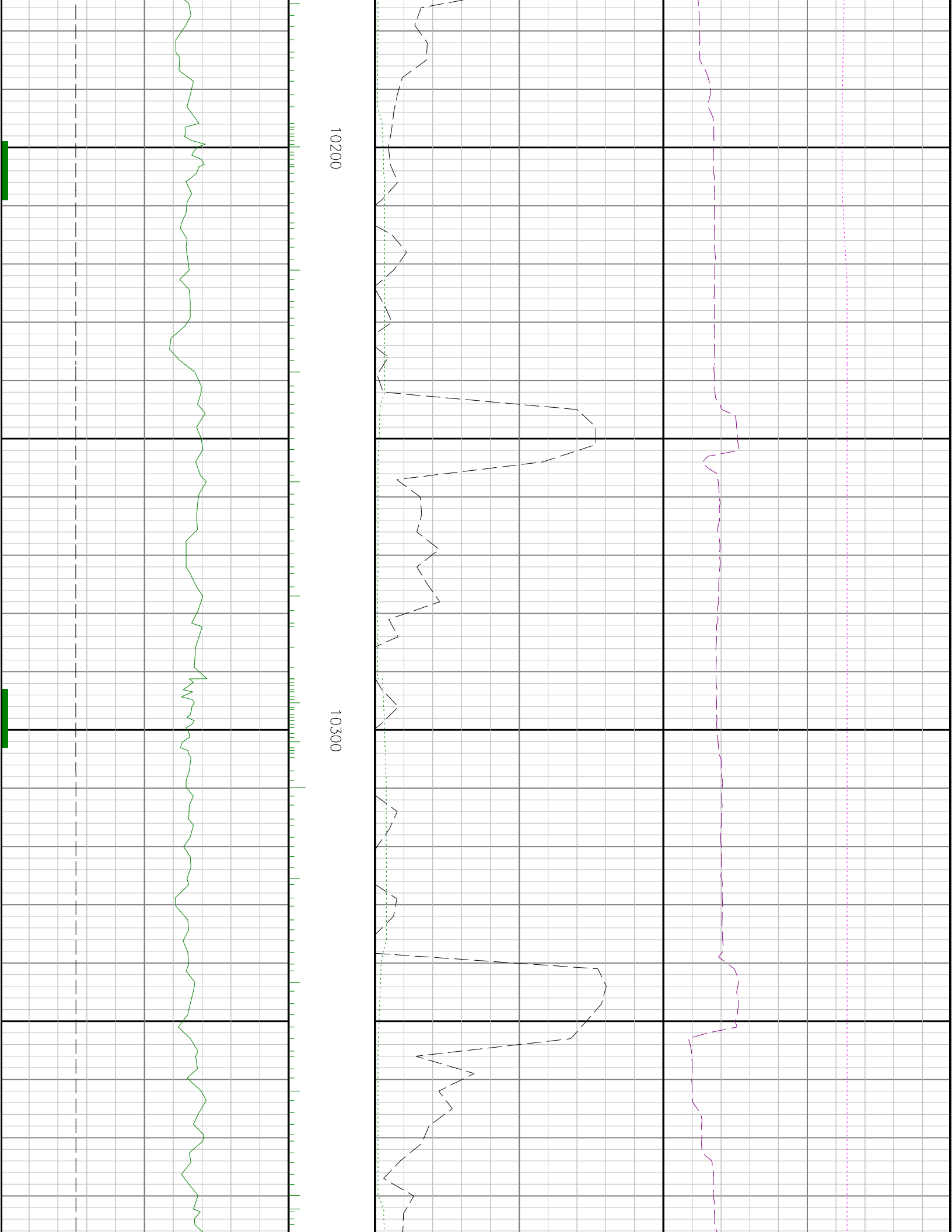


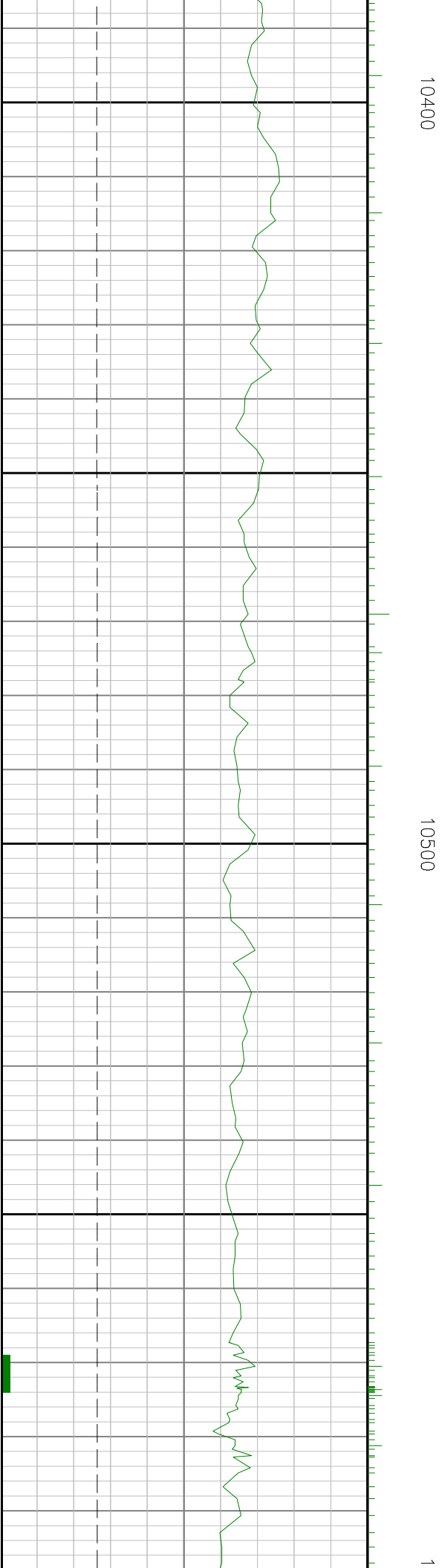
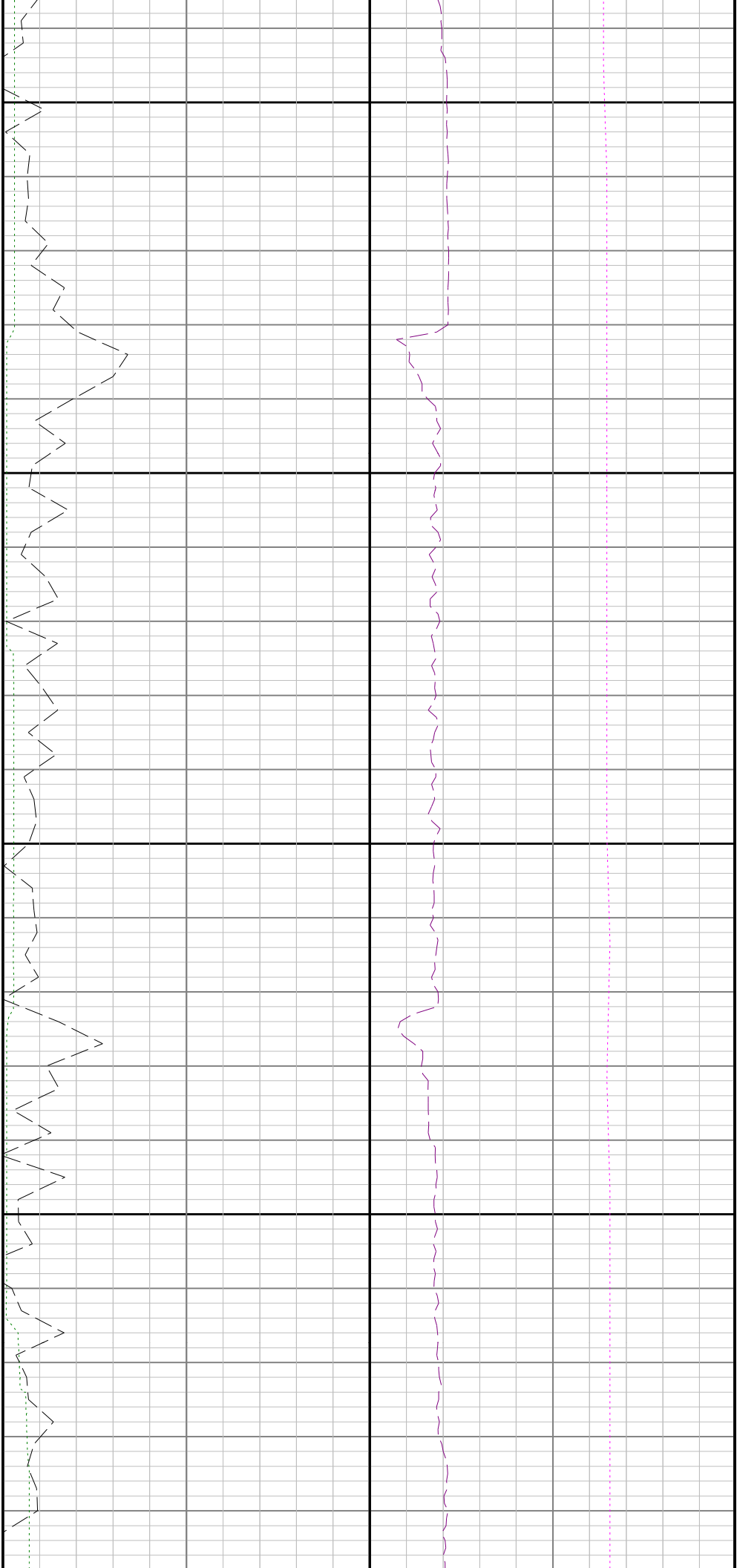
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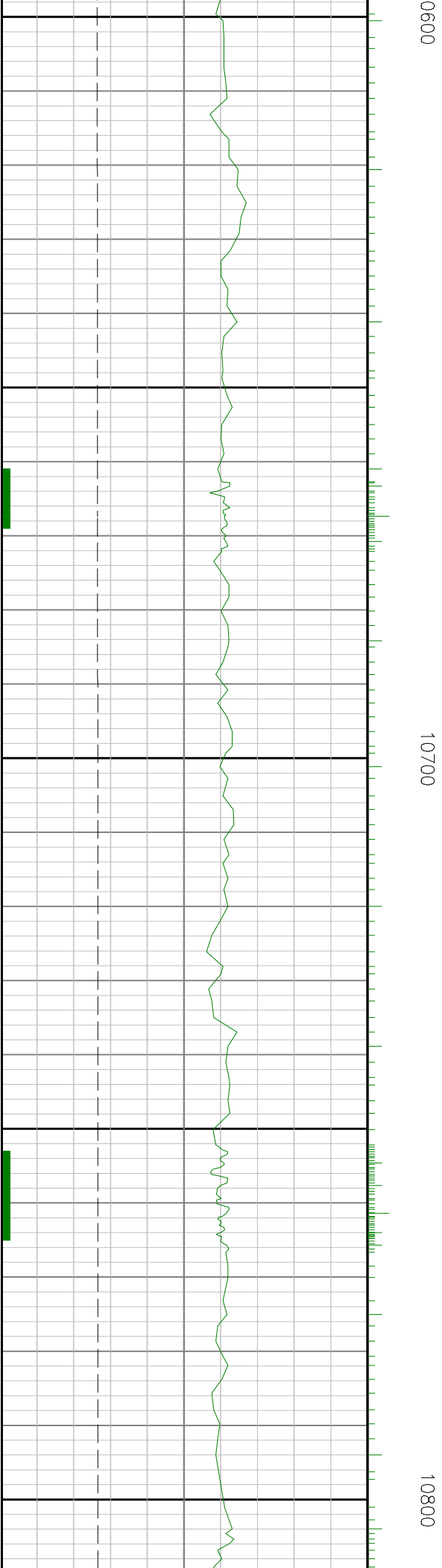
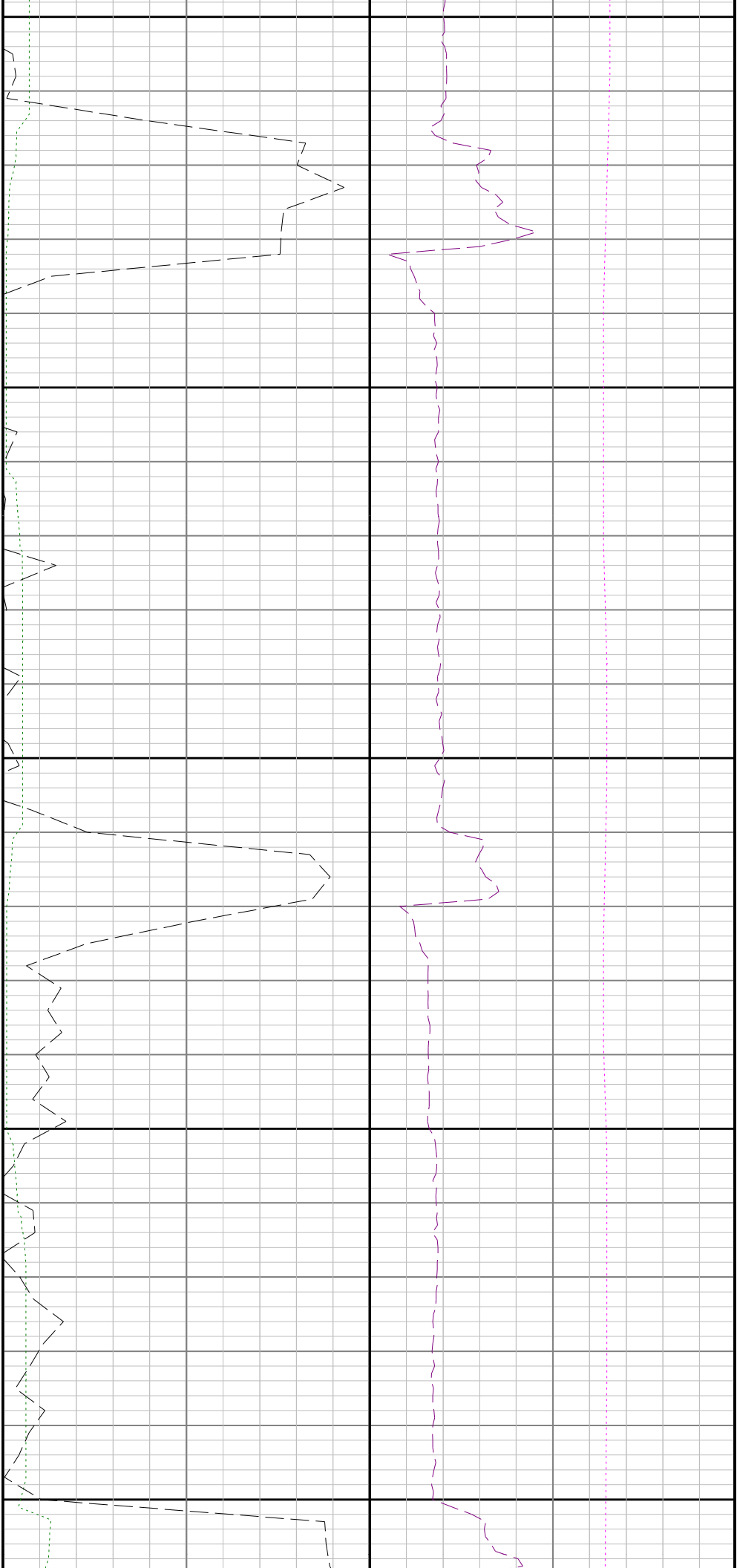
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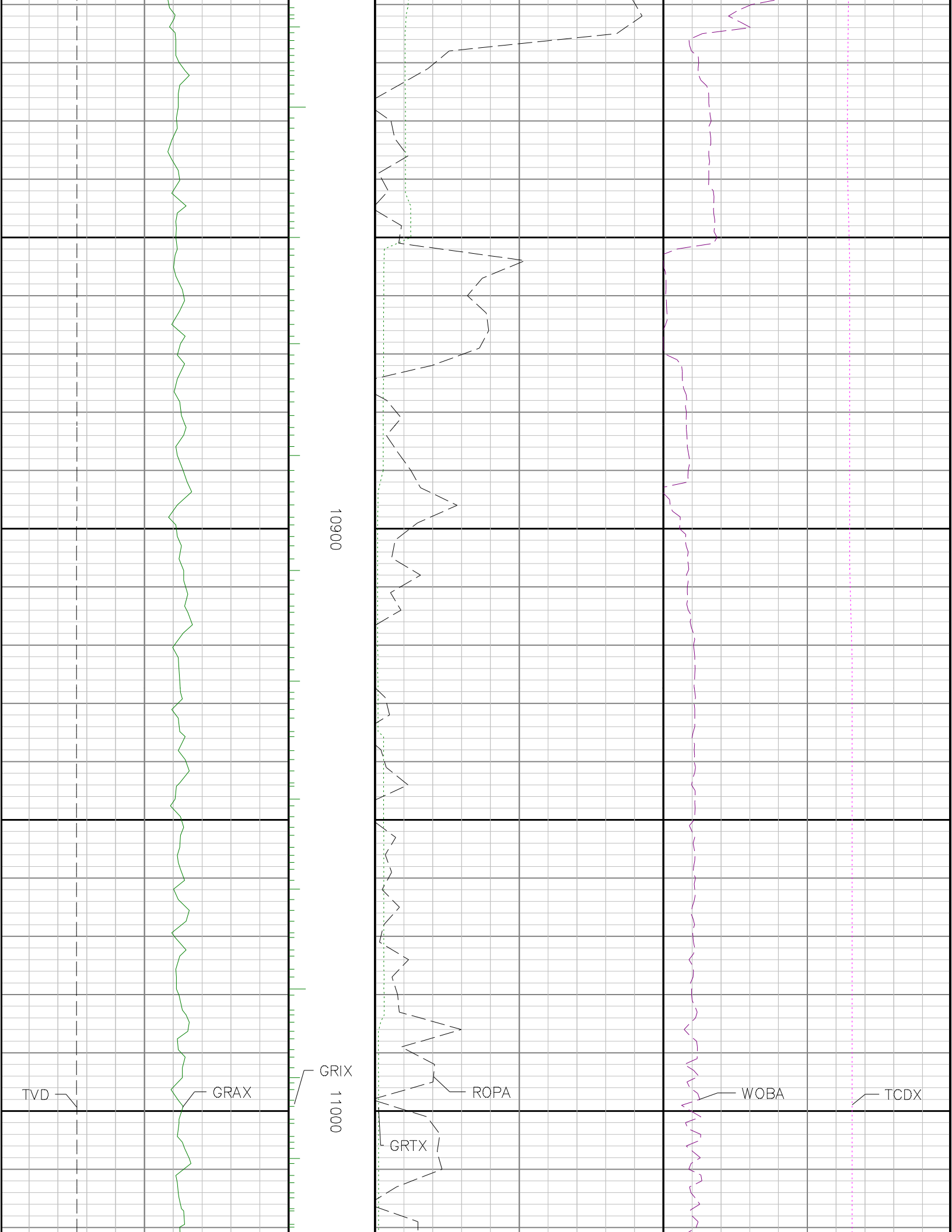


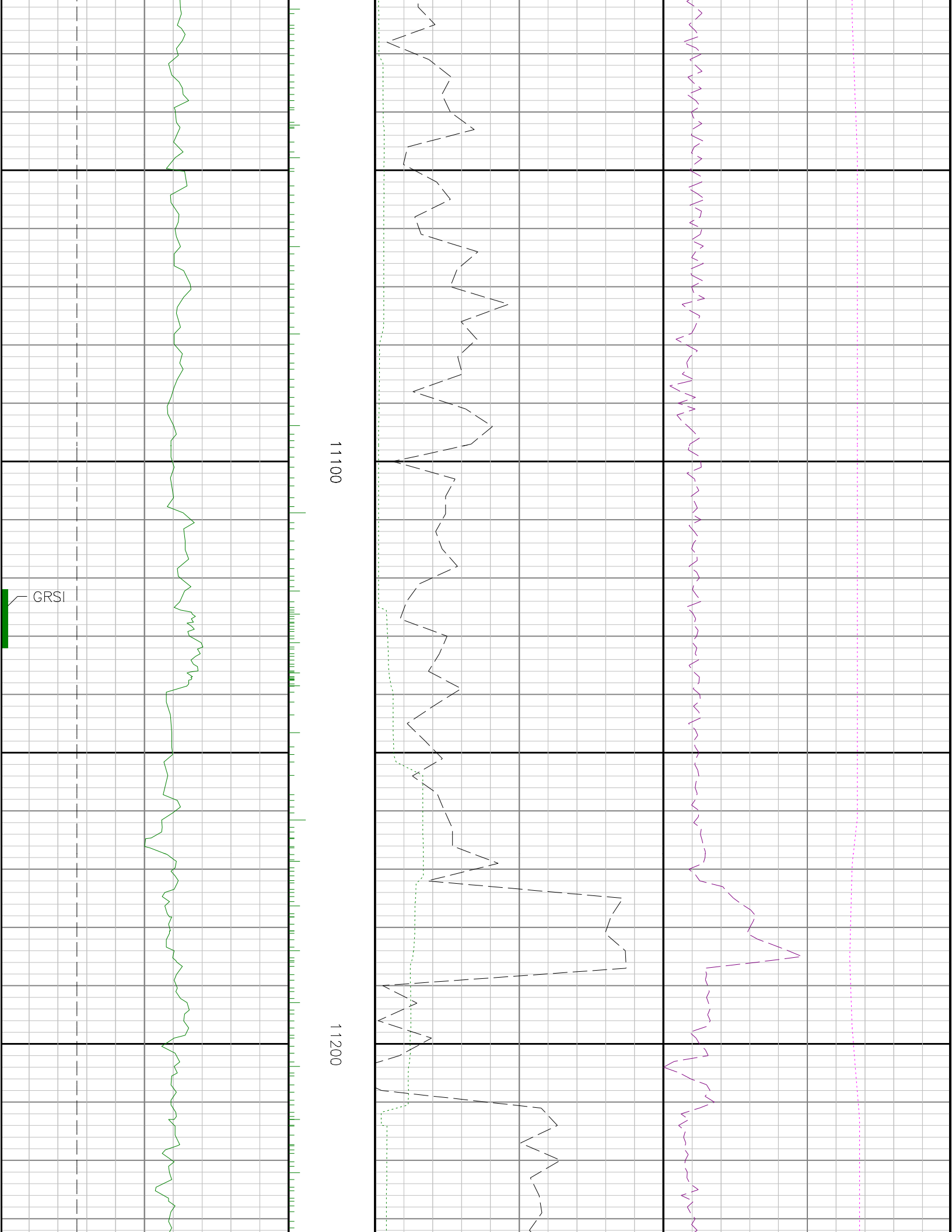


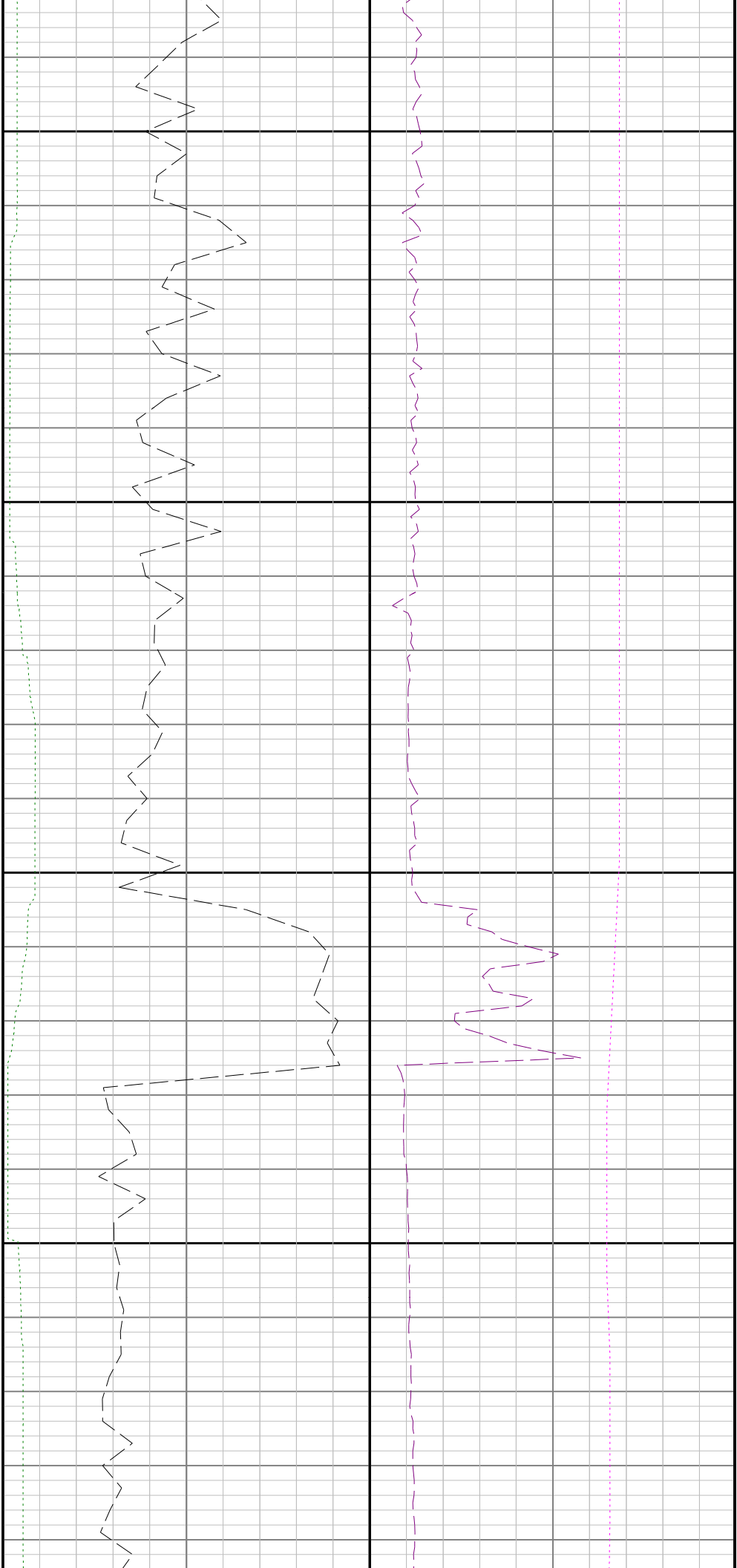






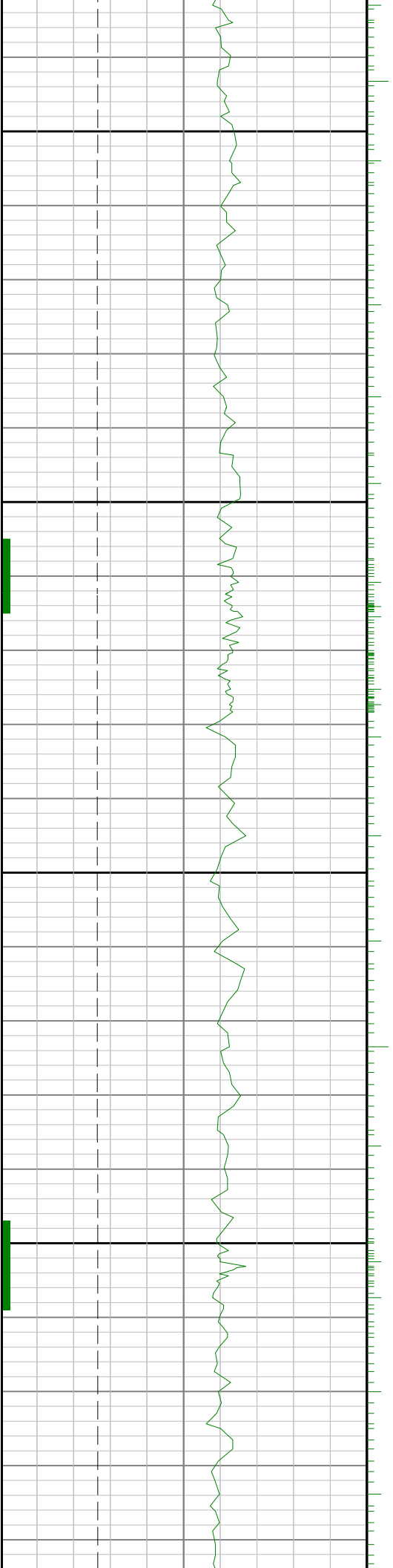


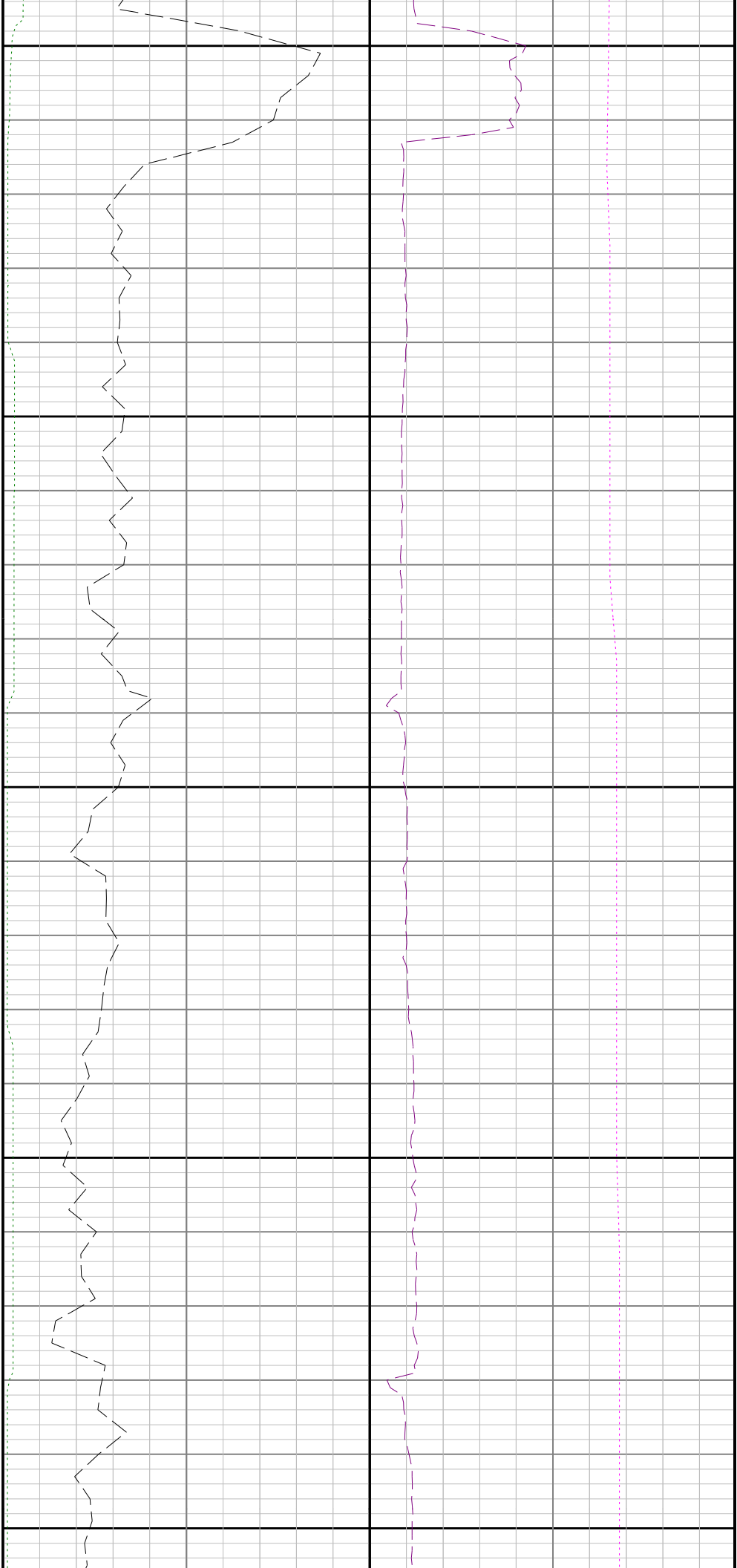




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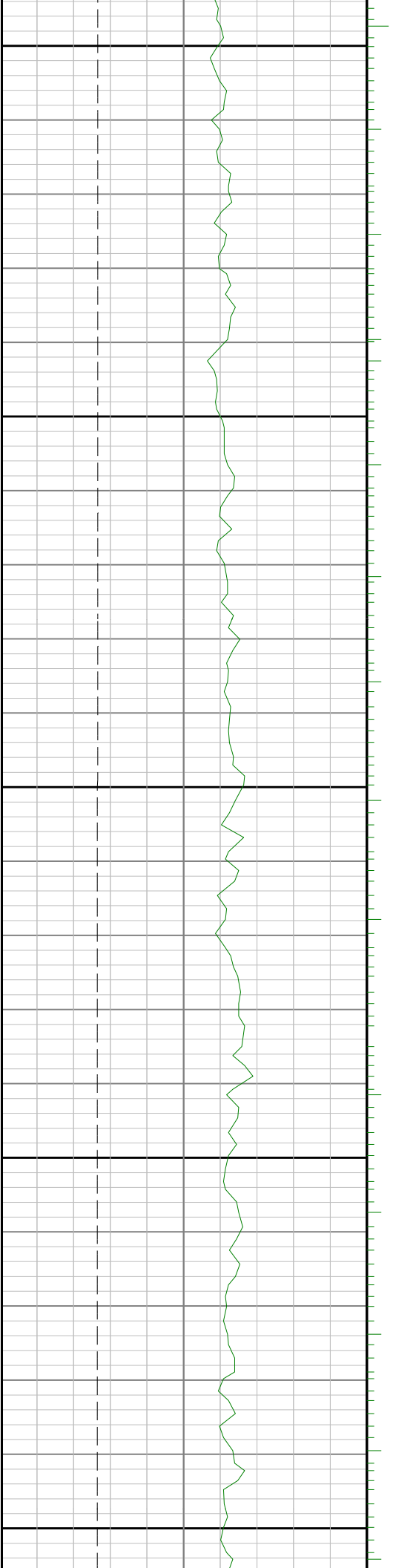
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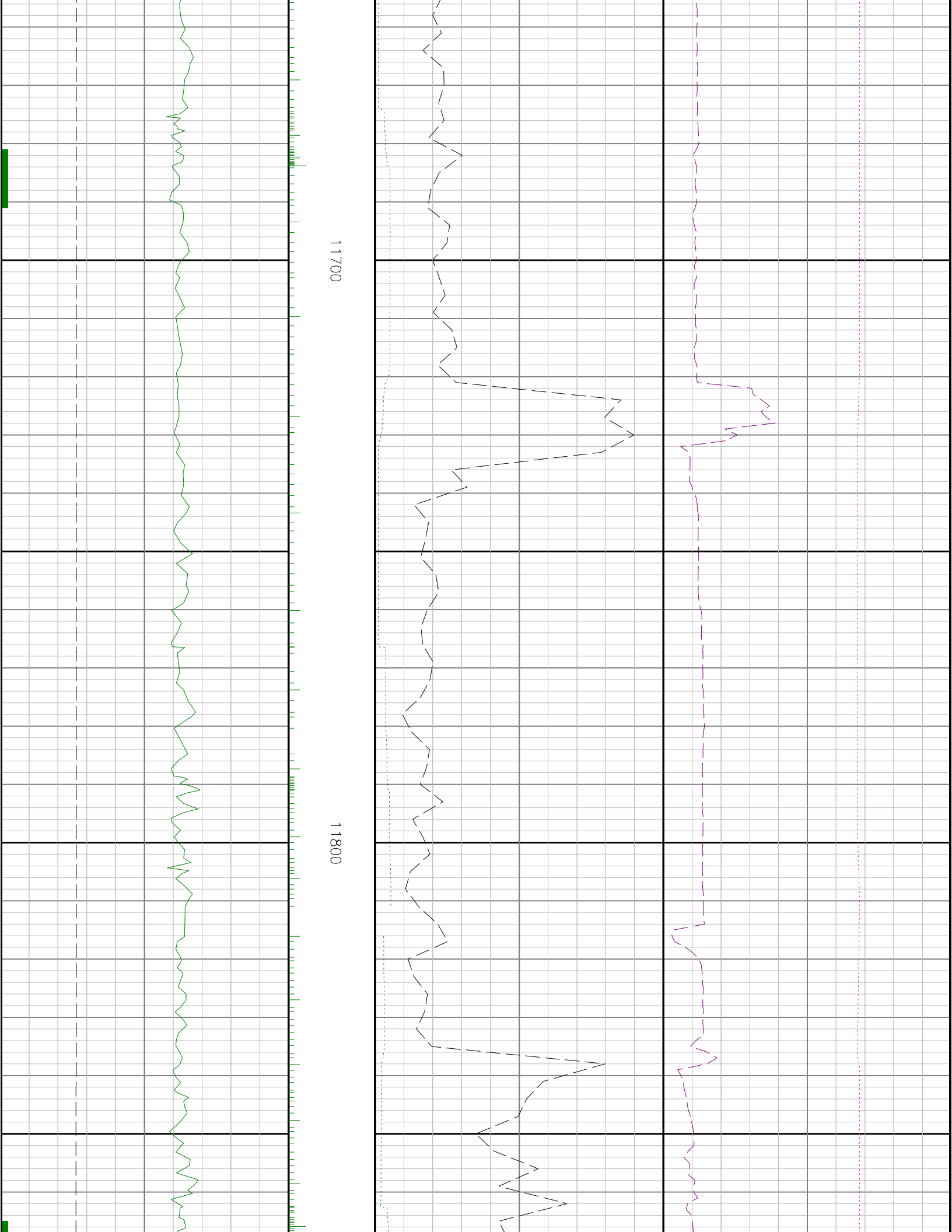


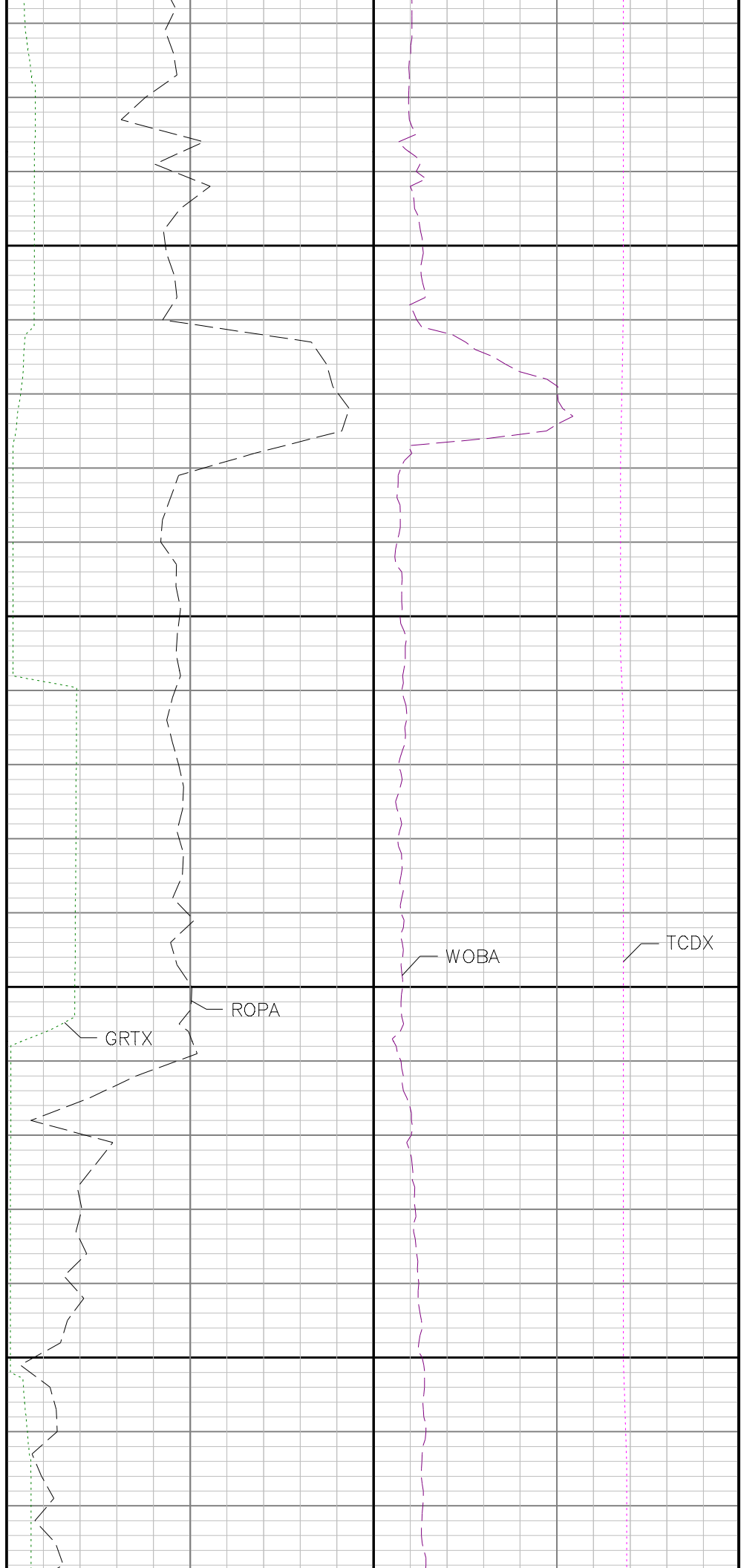
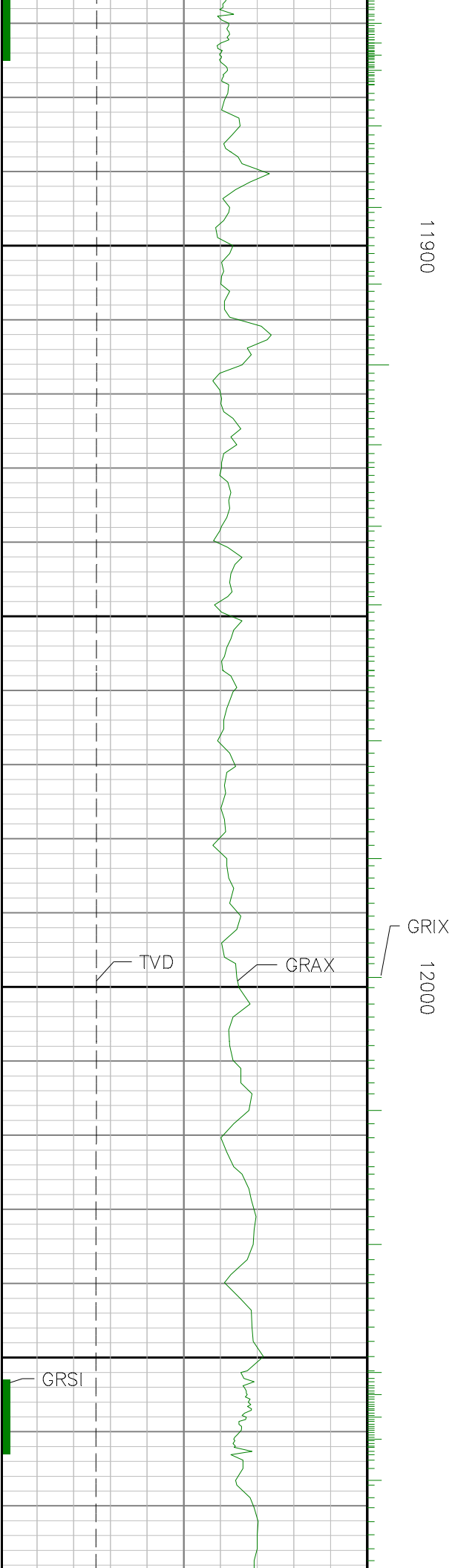


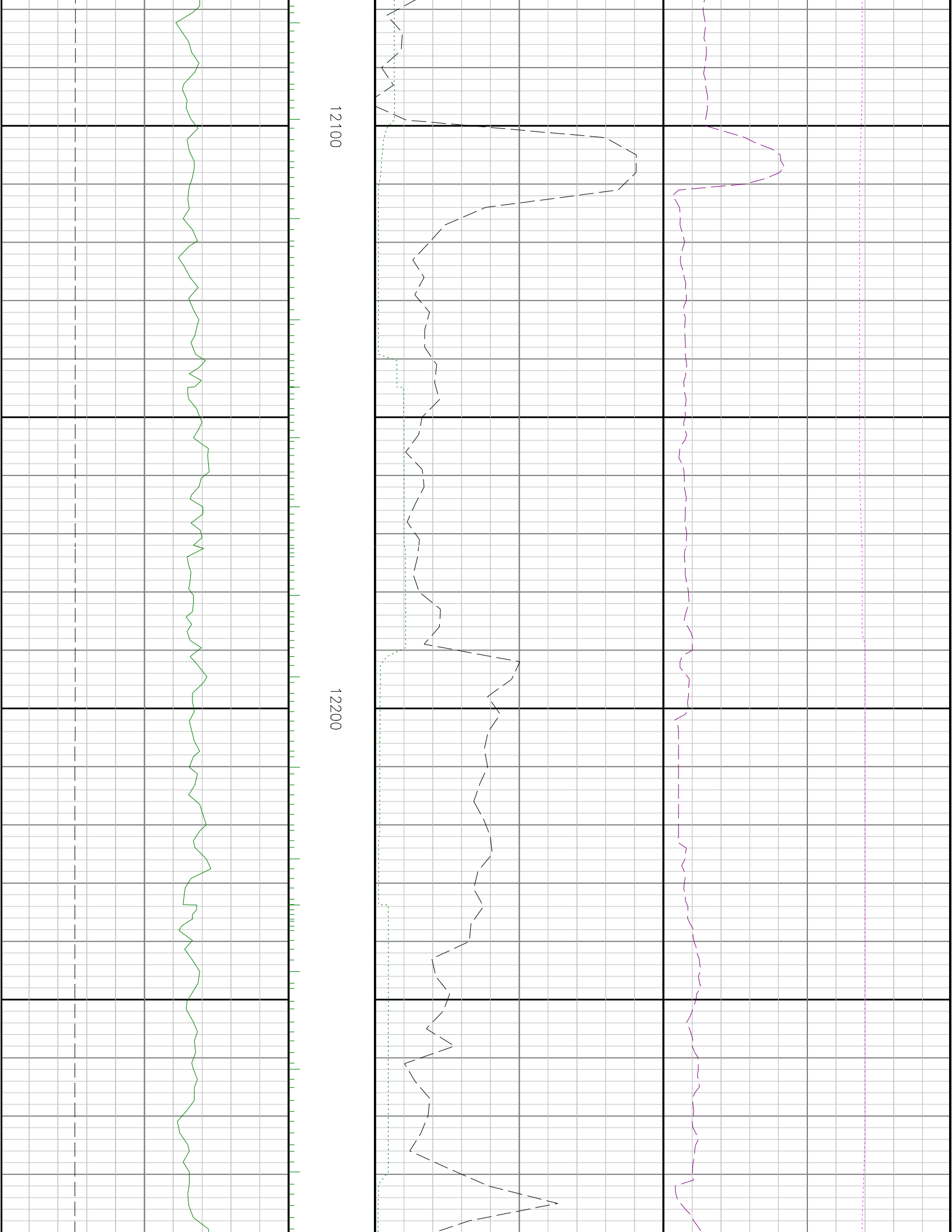
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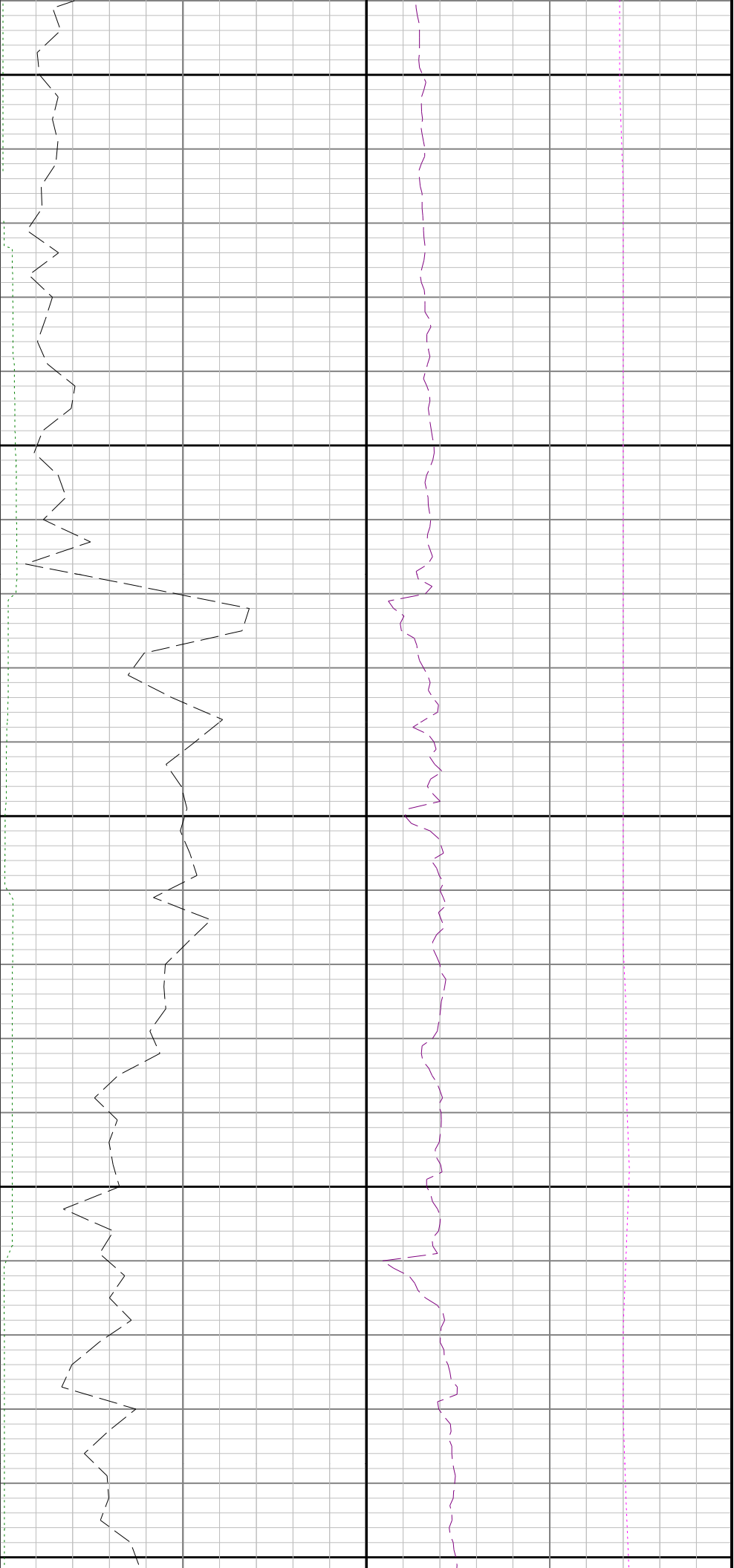
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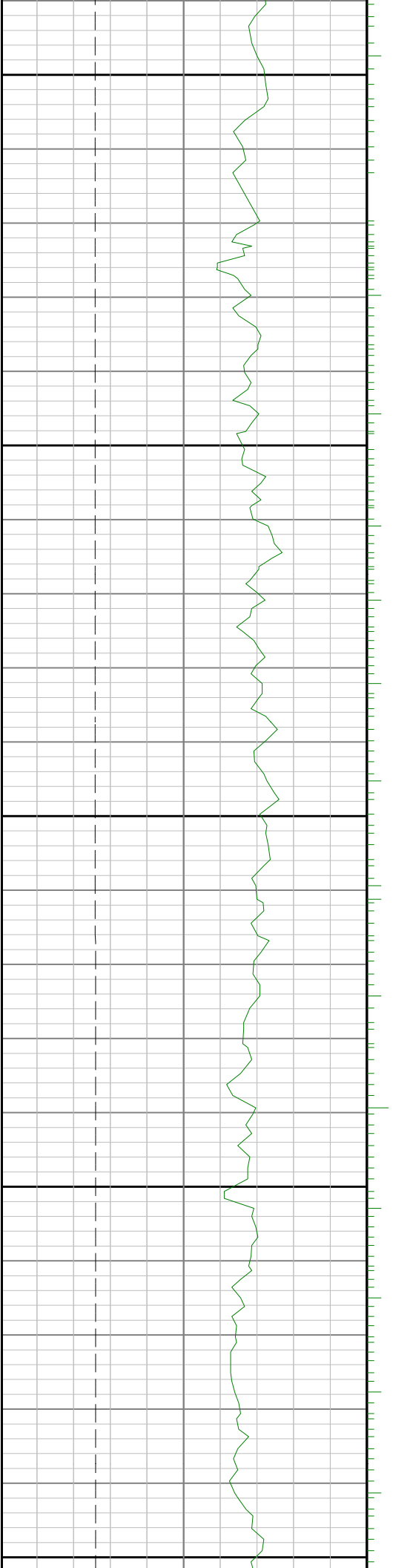


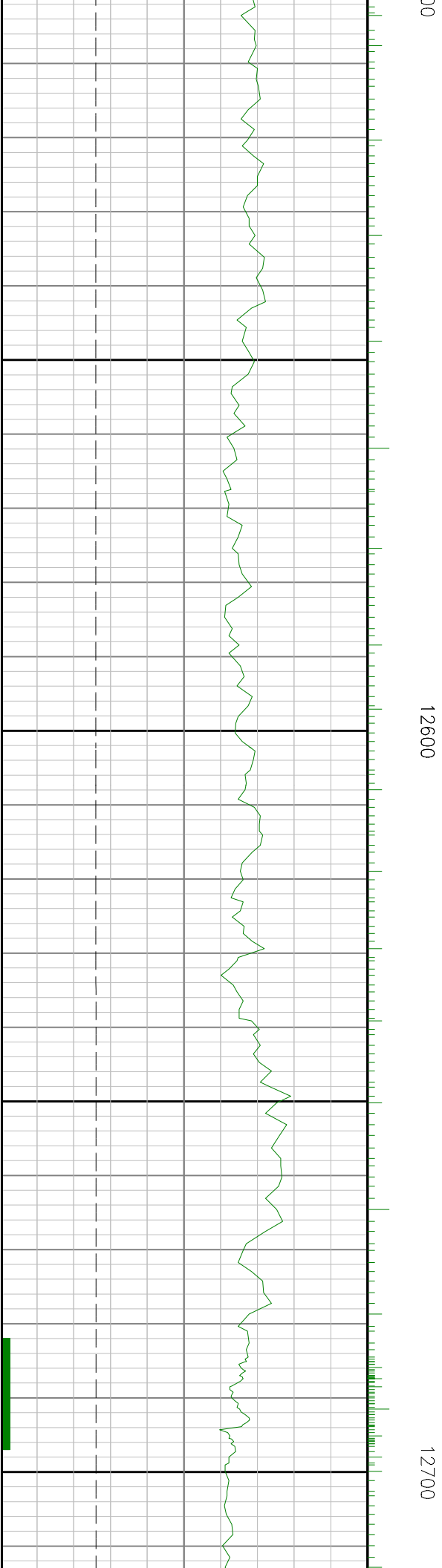
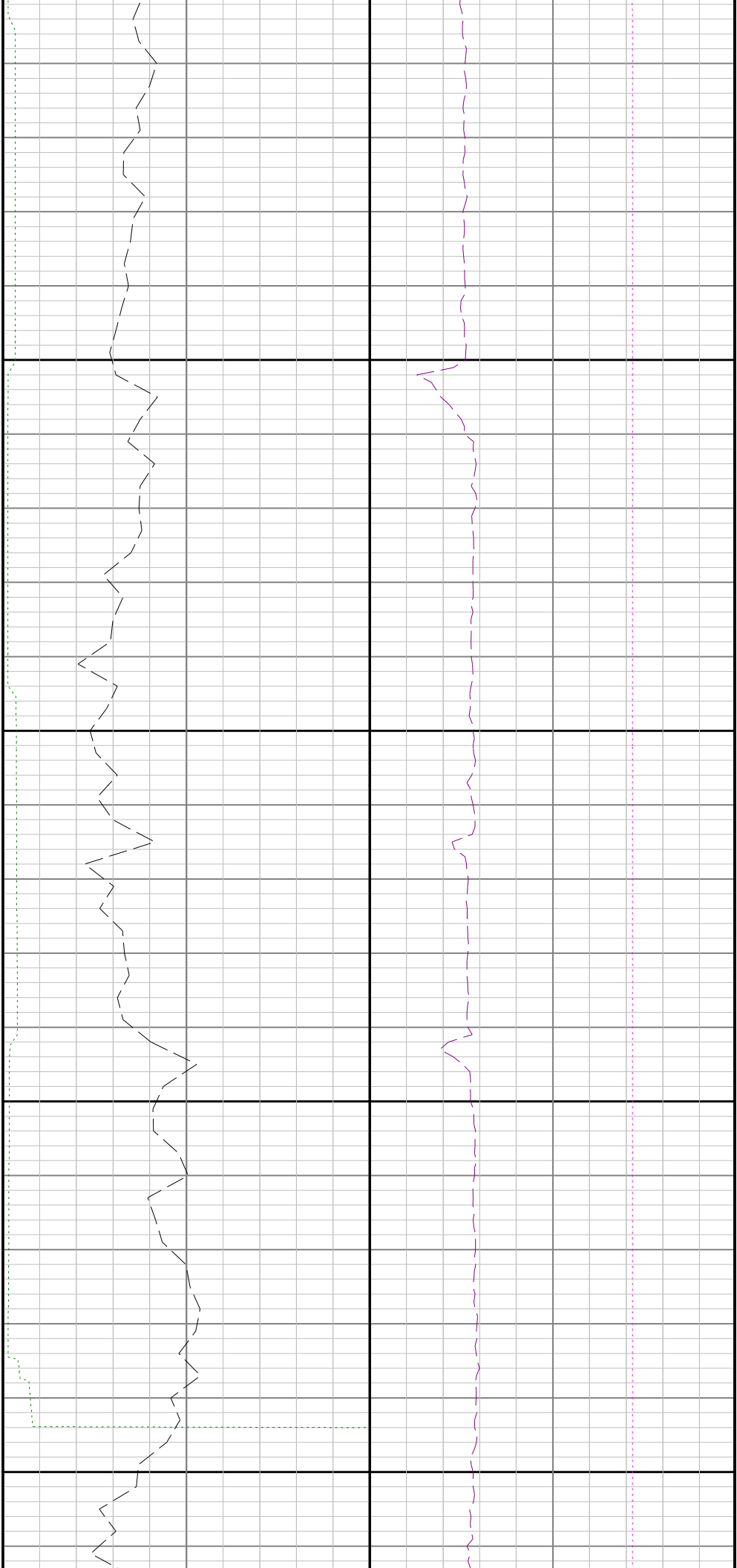


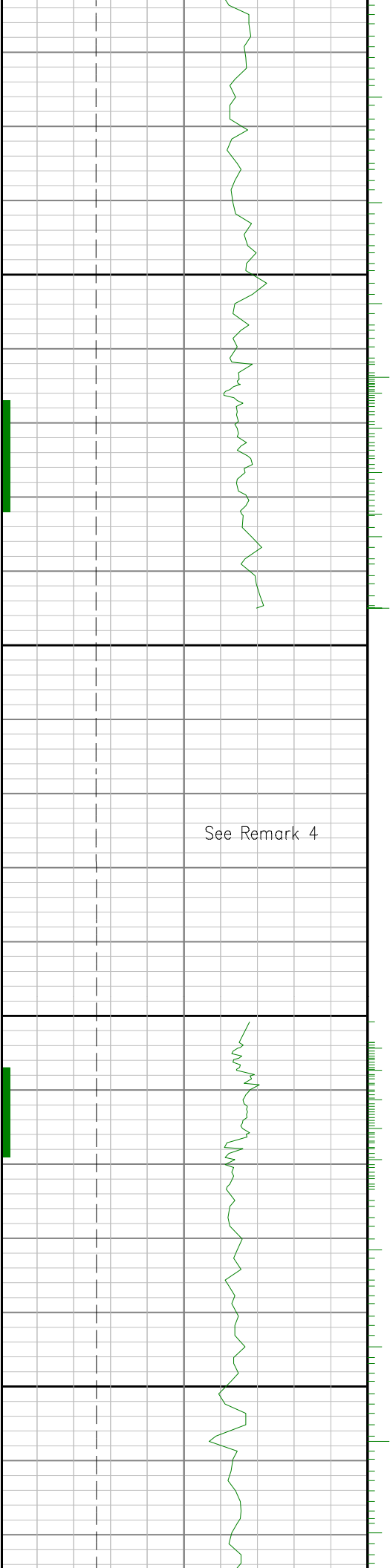
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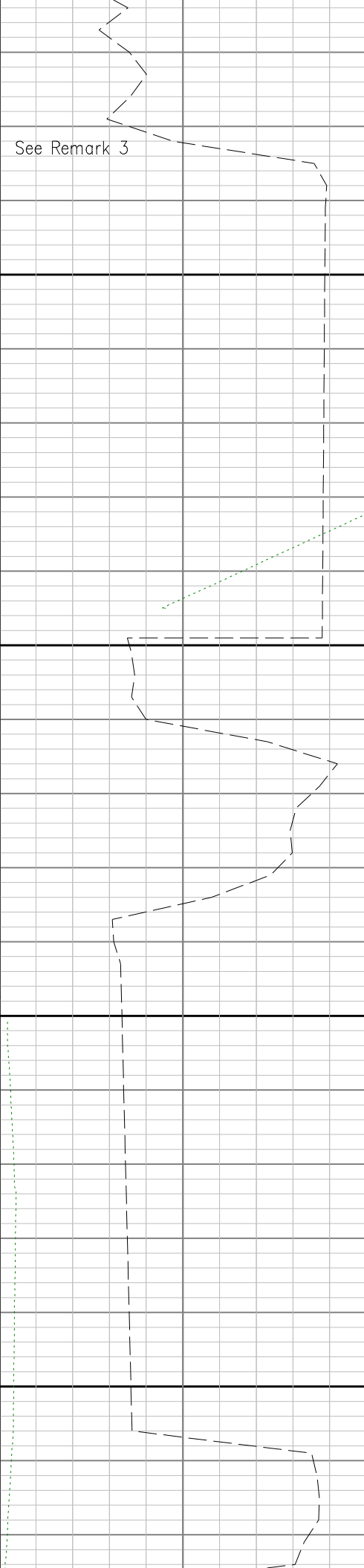




Run 3 <> Run 4

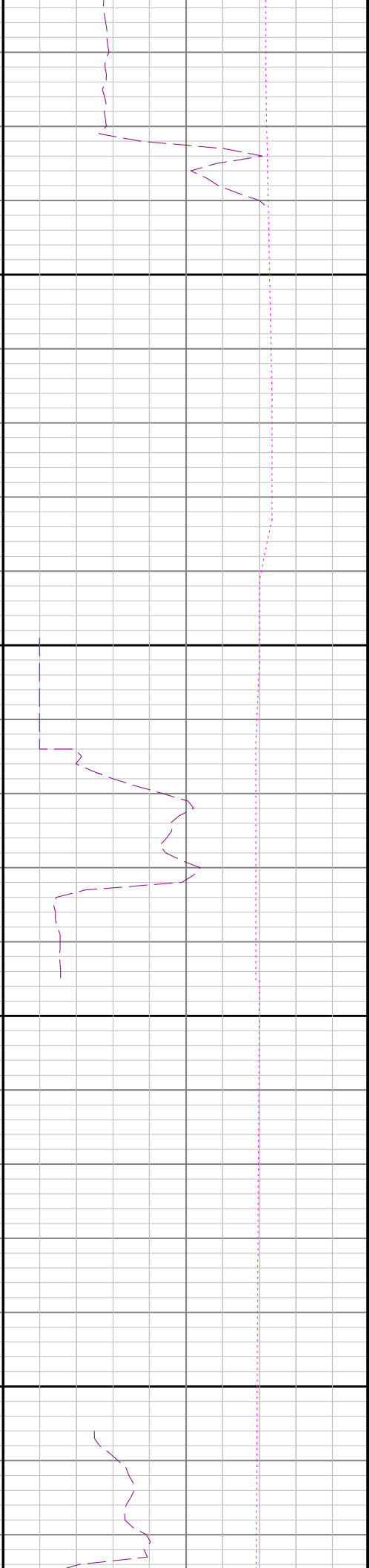
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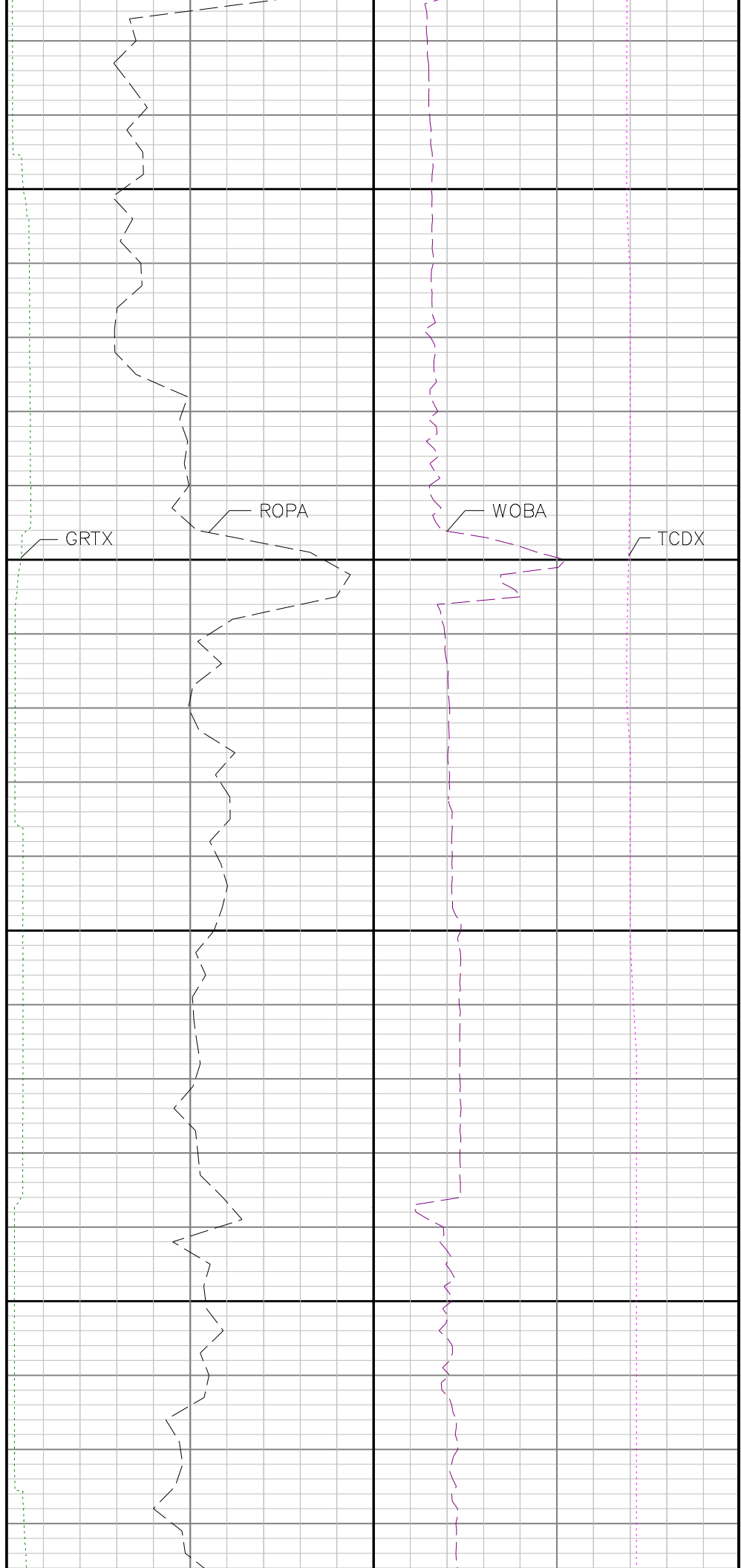
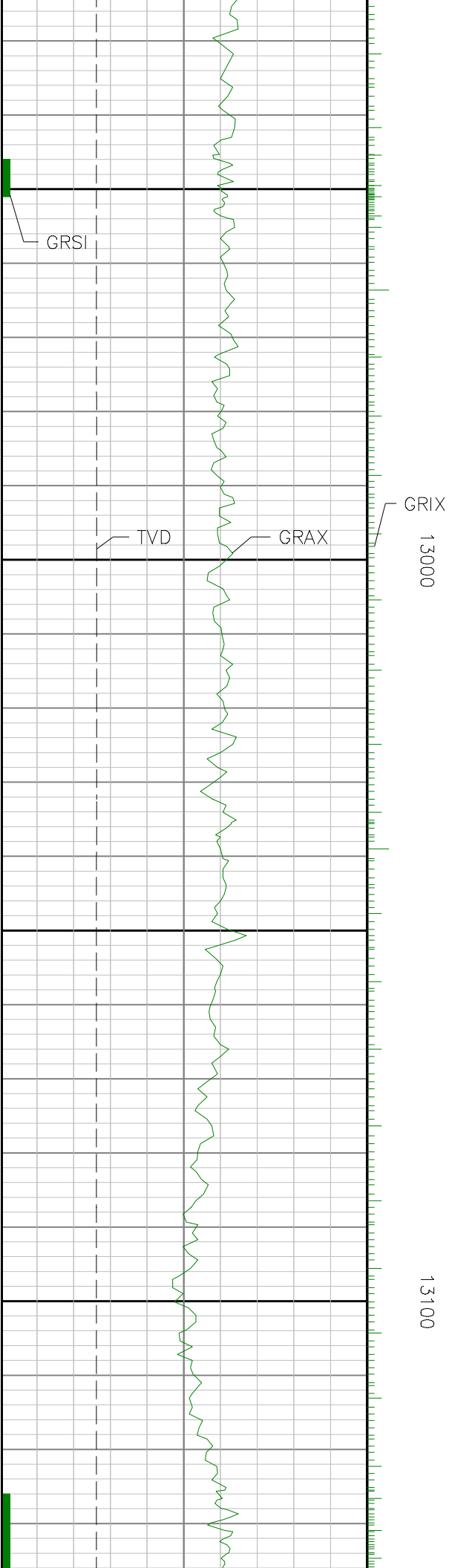
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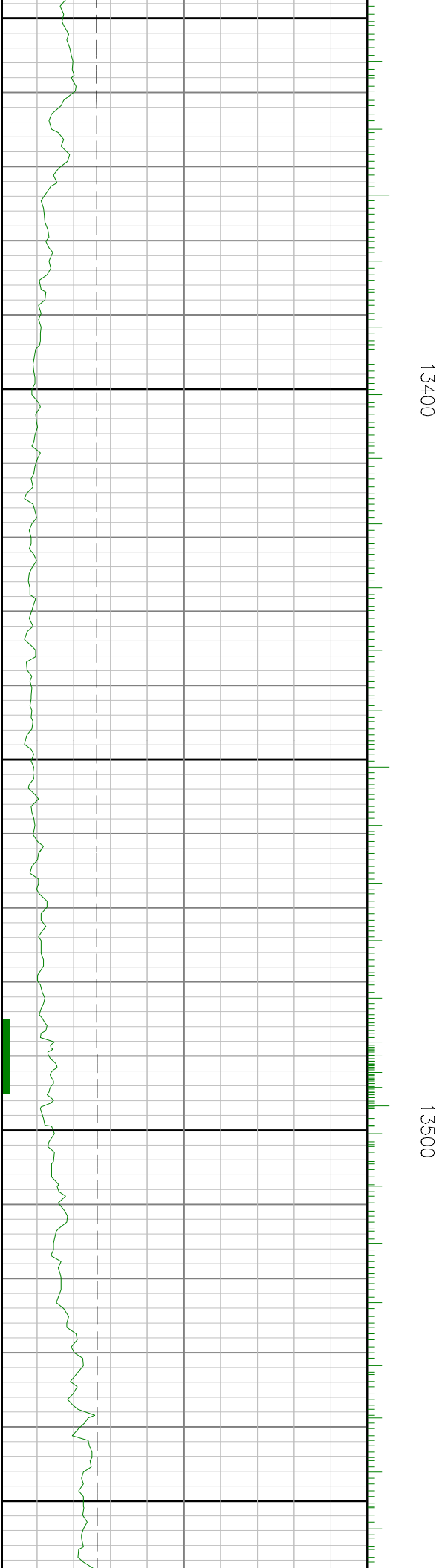
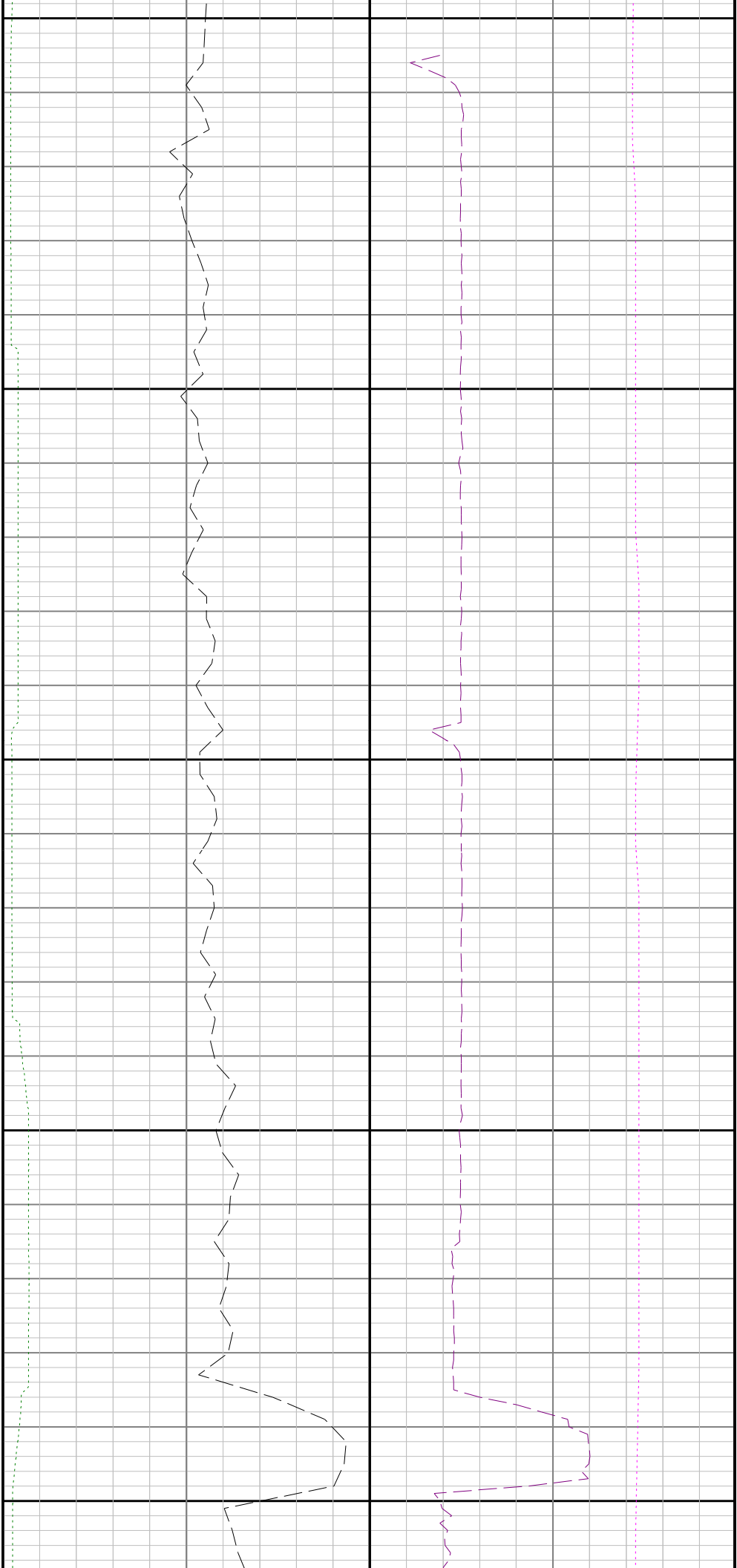


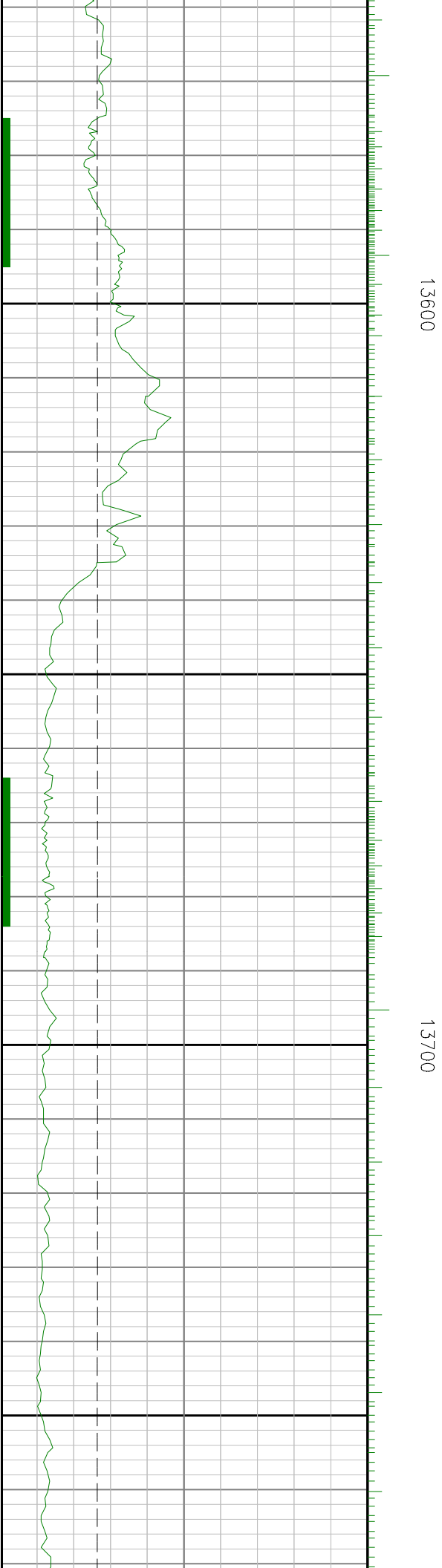
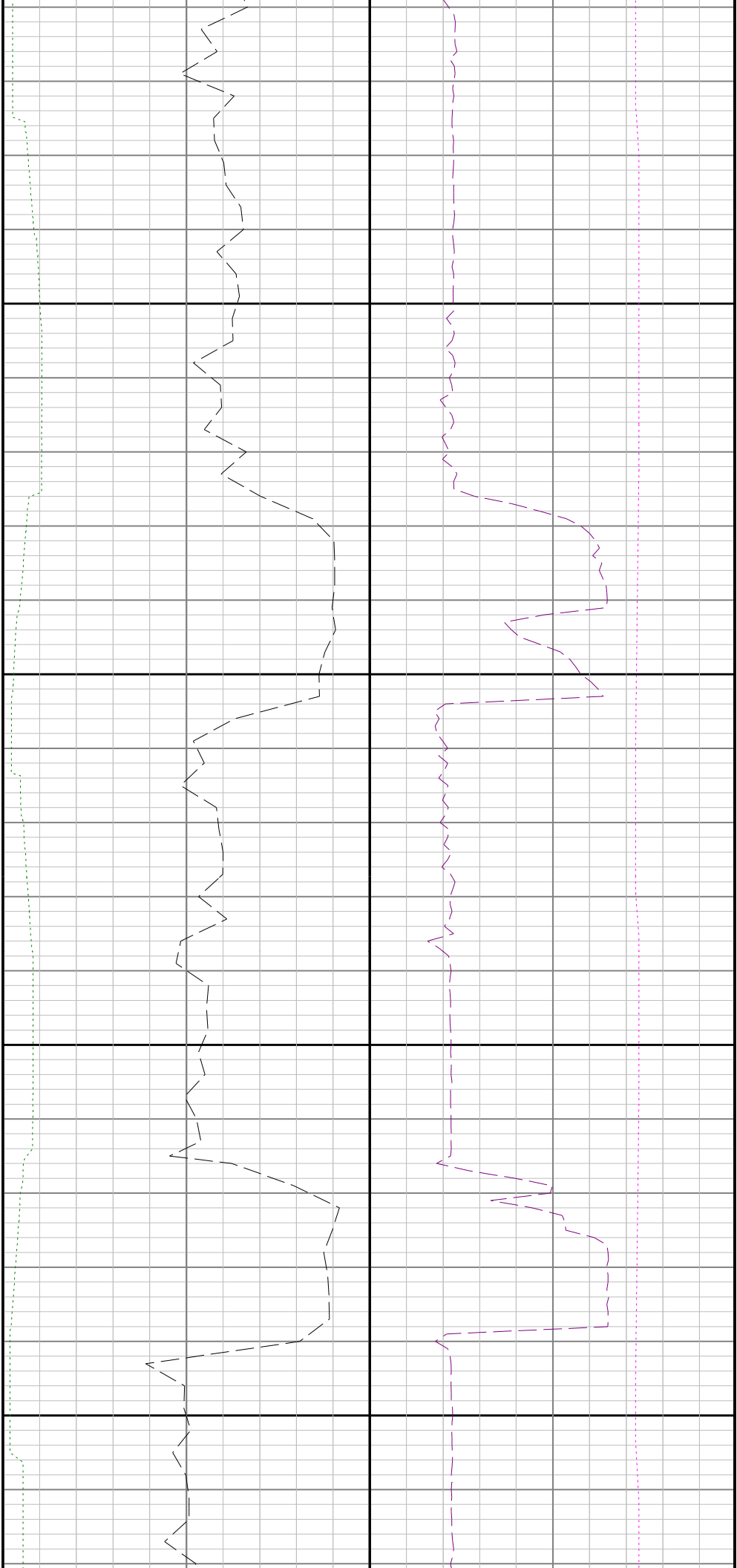
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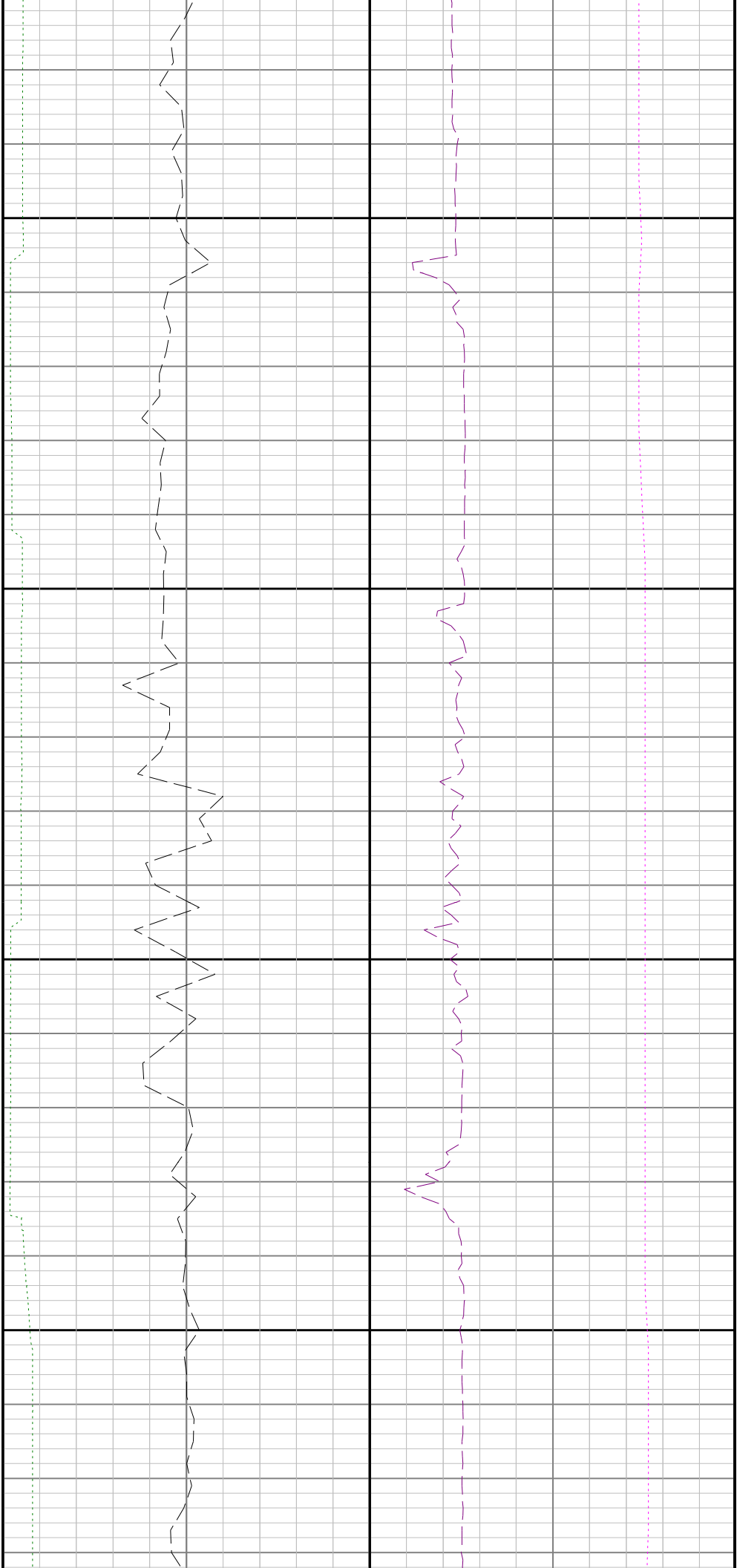
See Remark 4





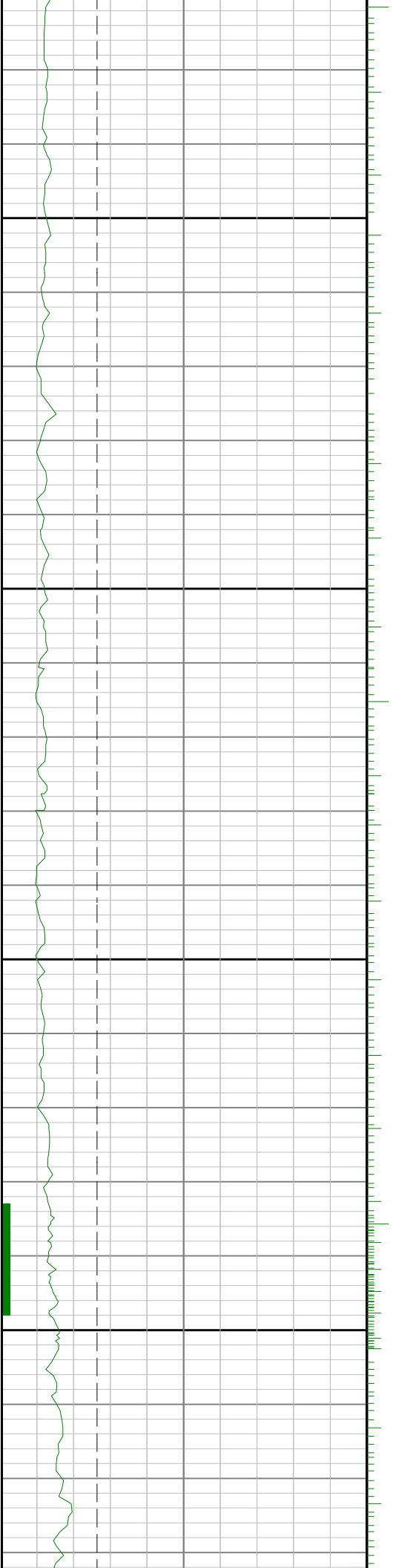




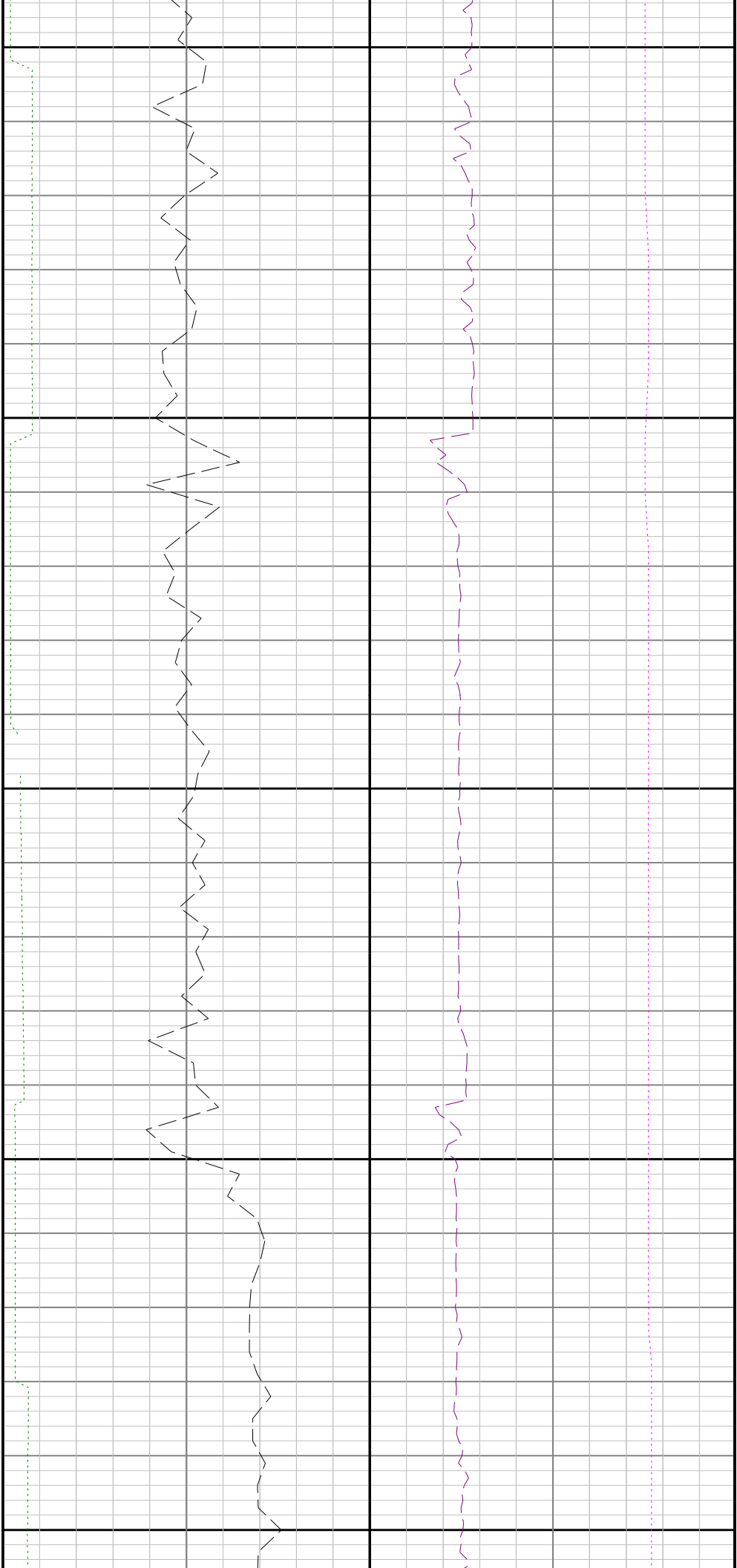


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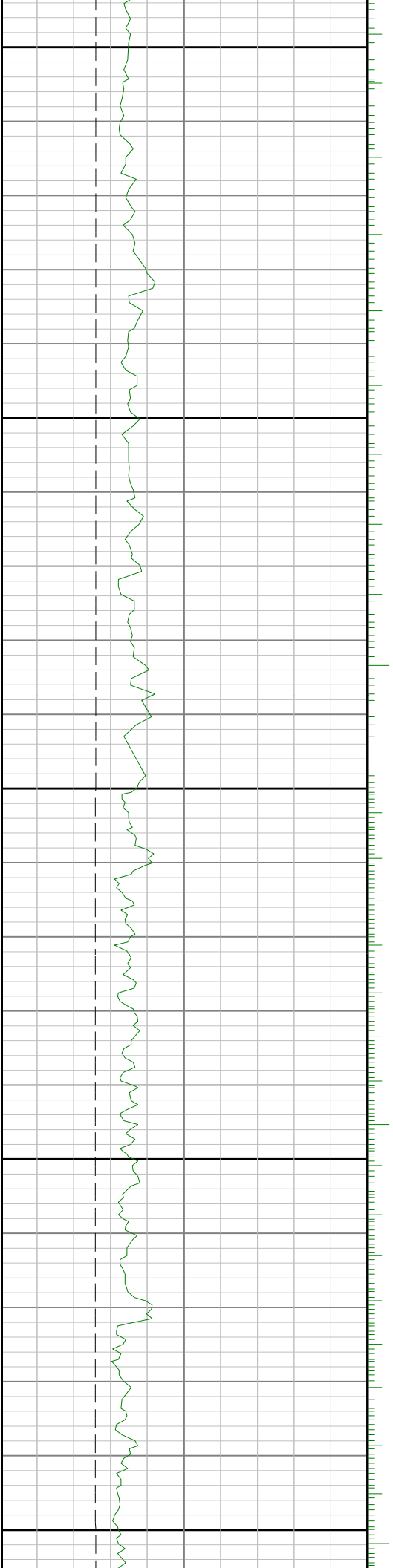


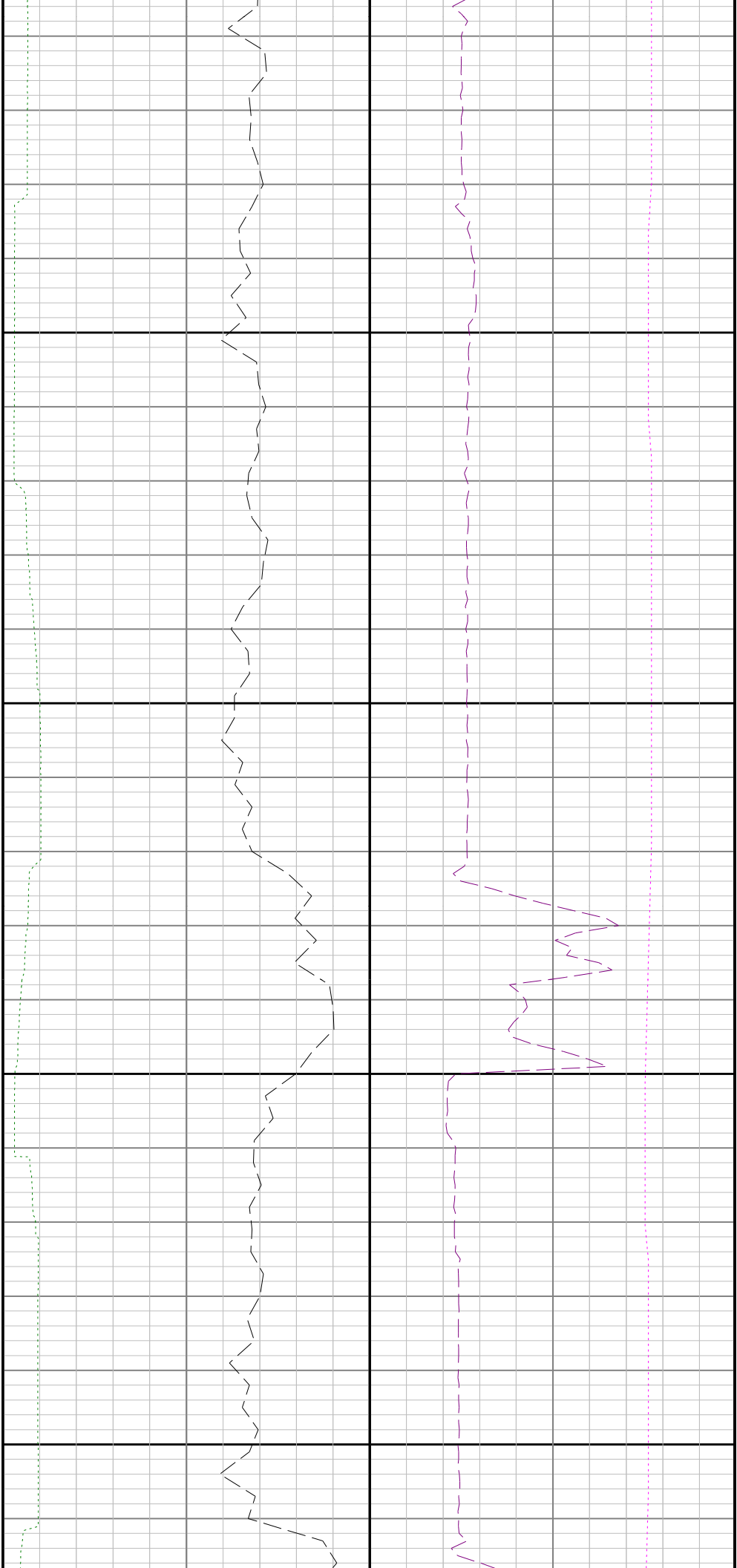


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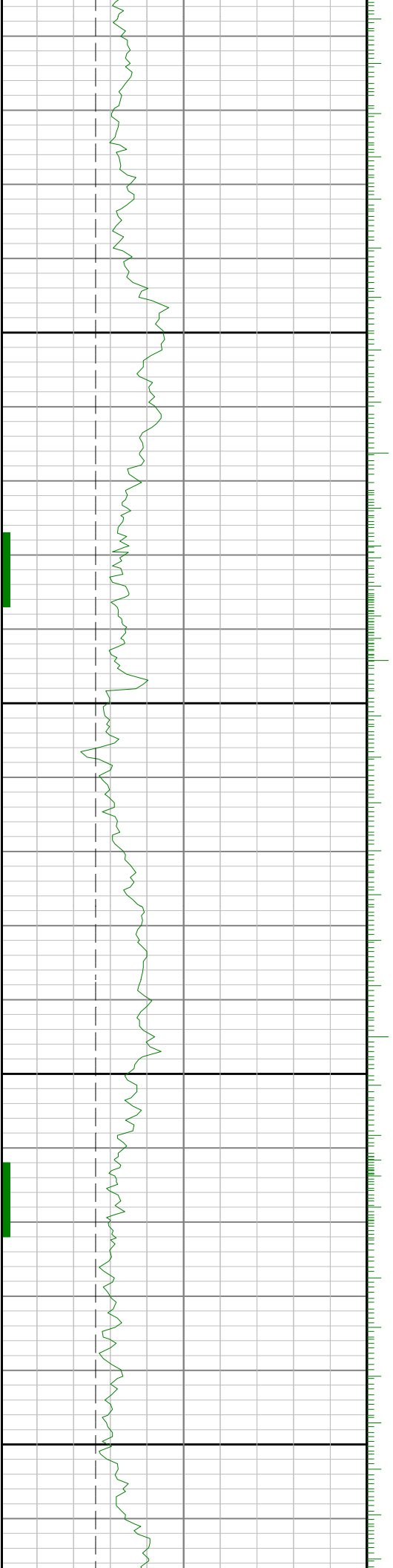
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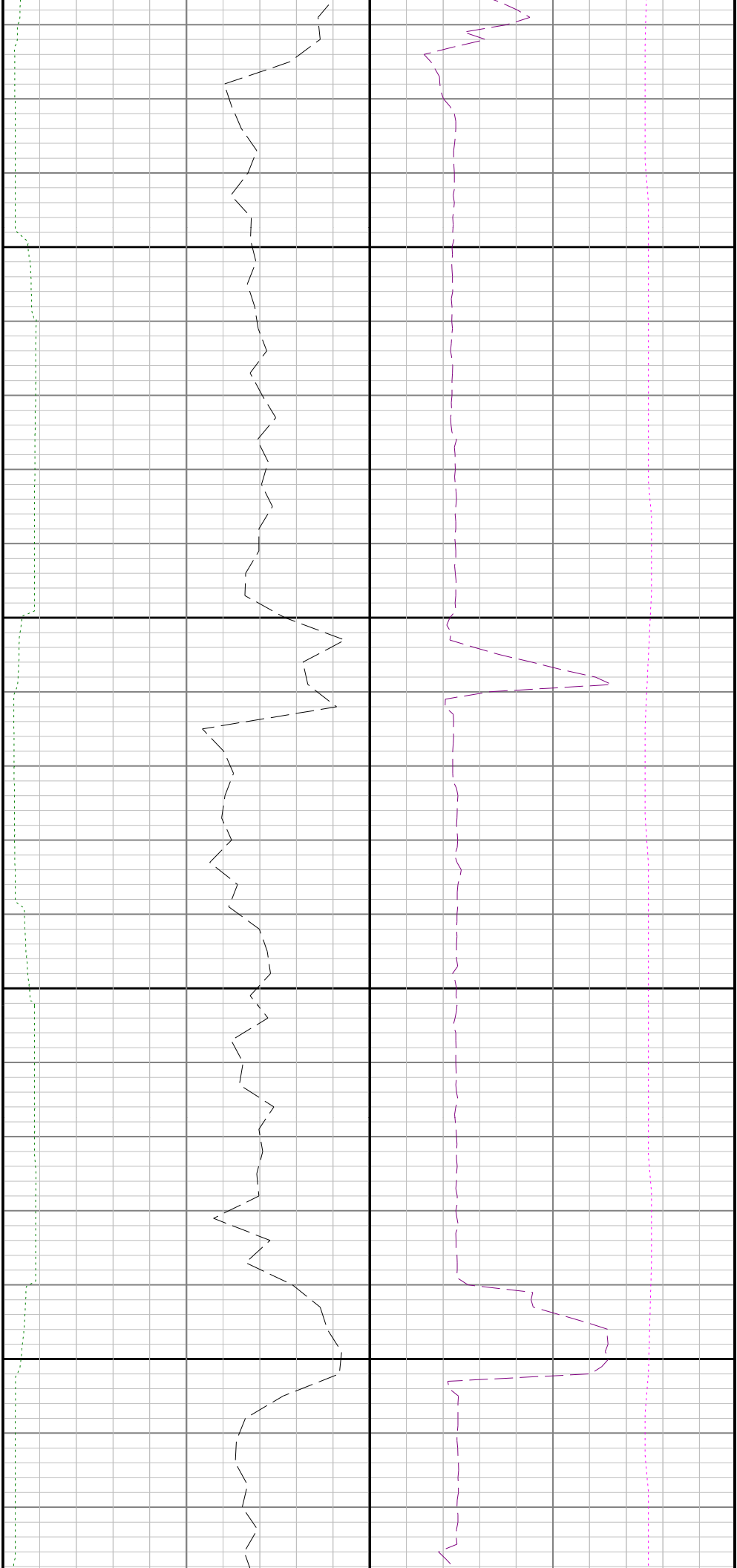




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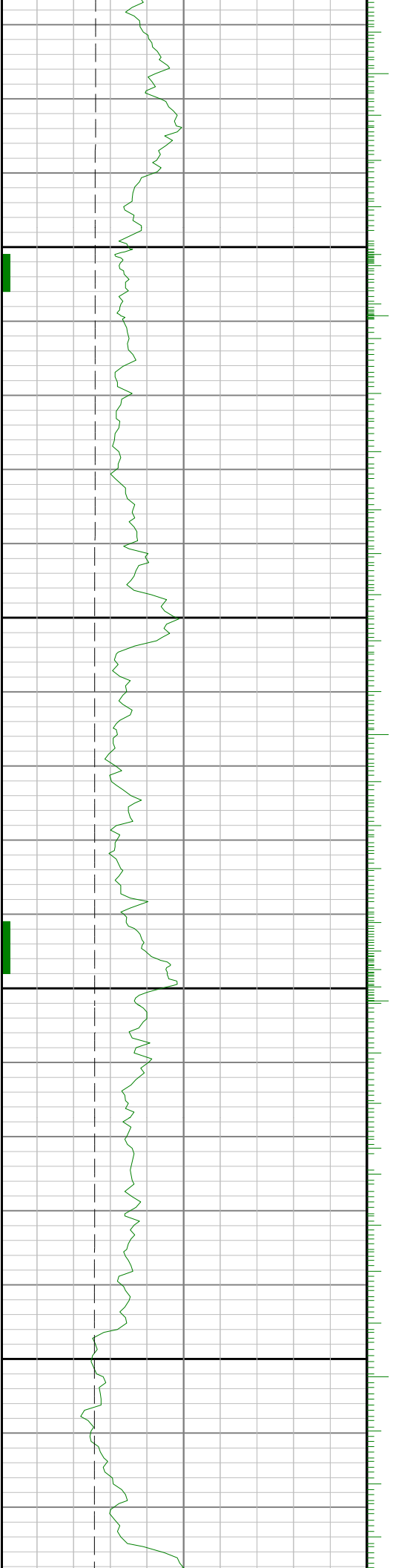
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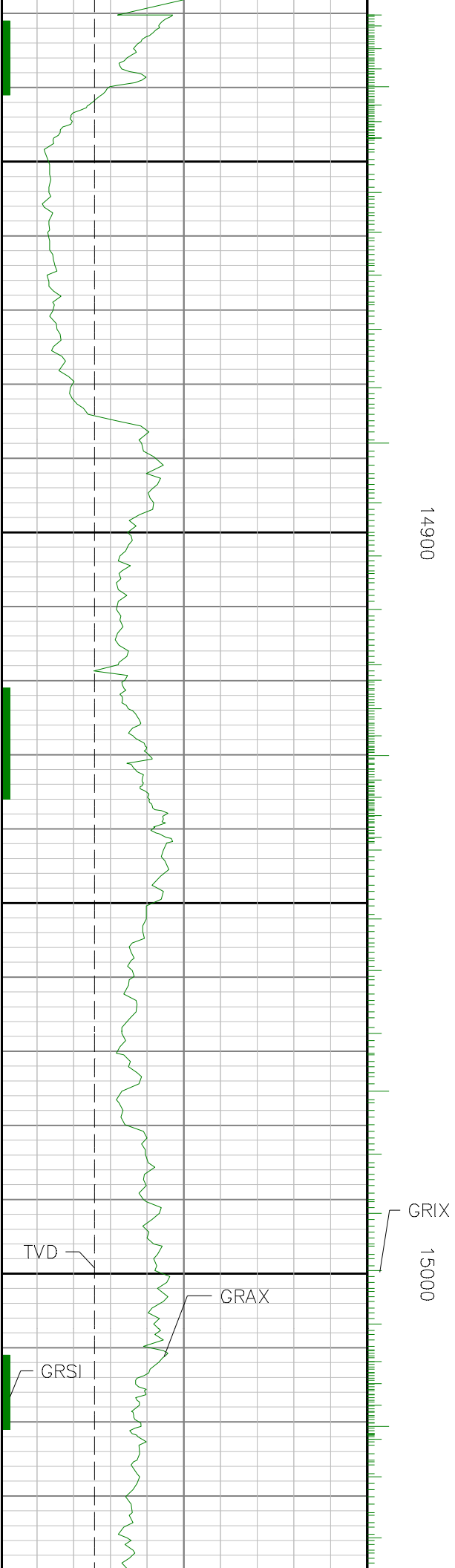


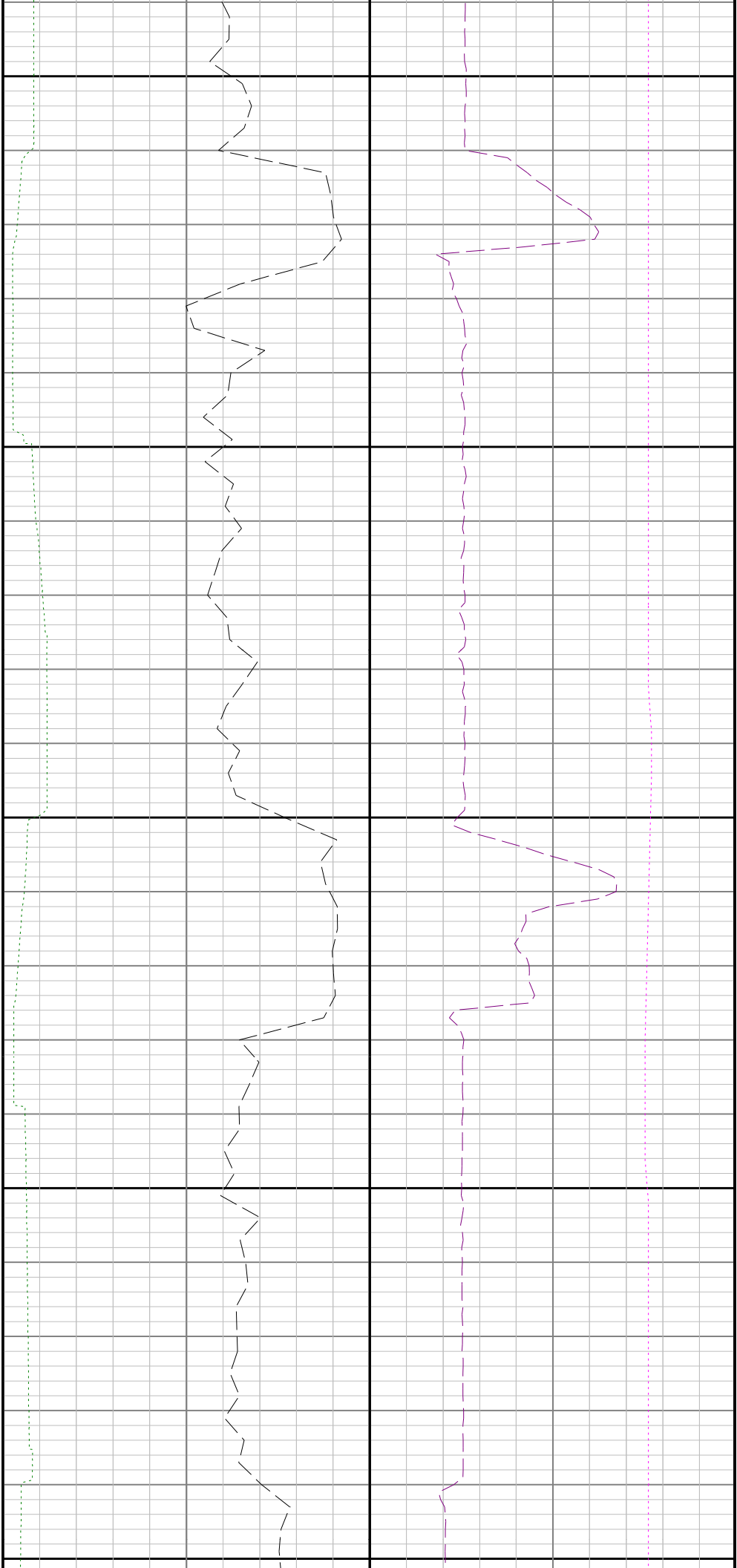


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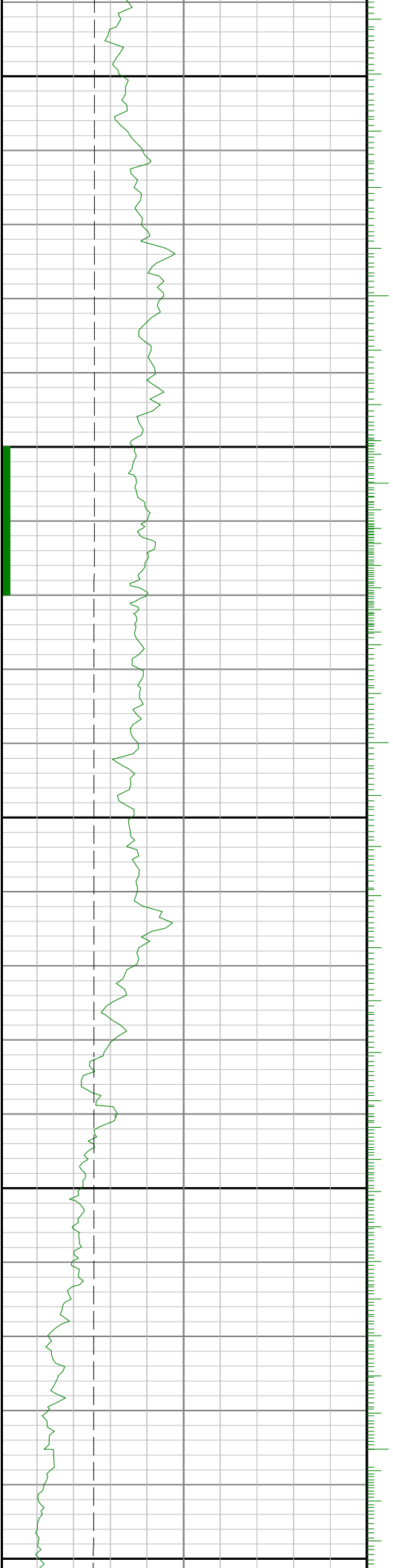


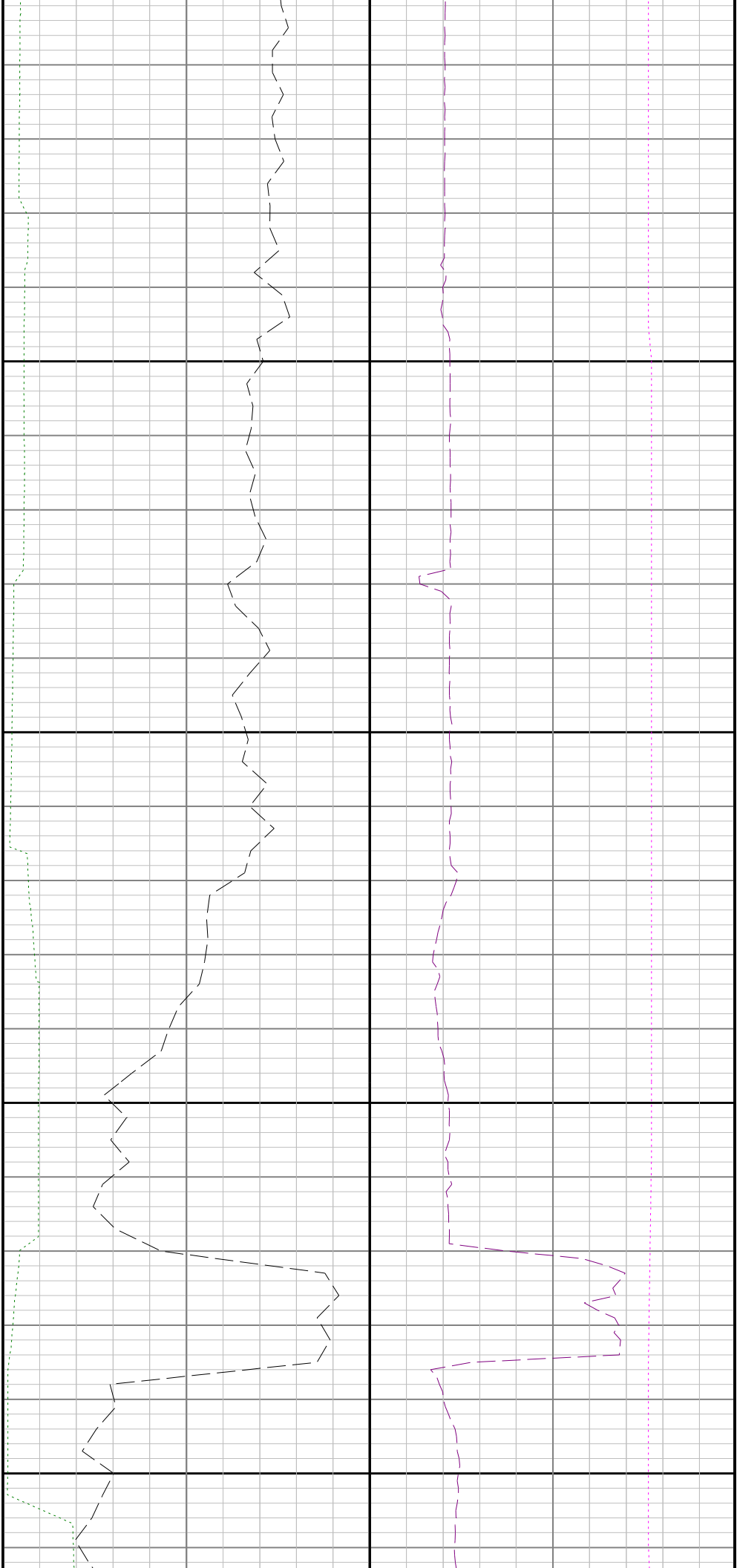




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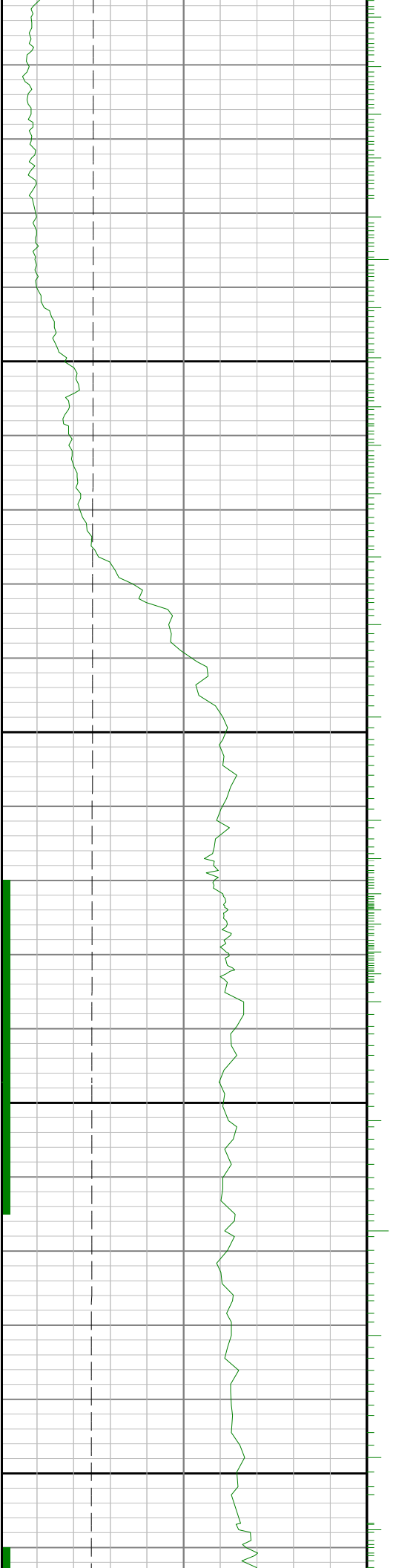
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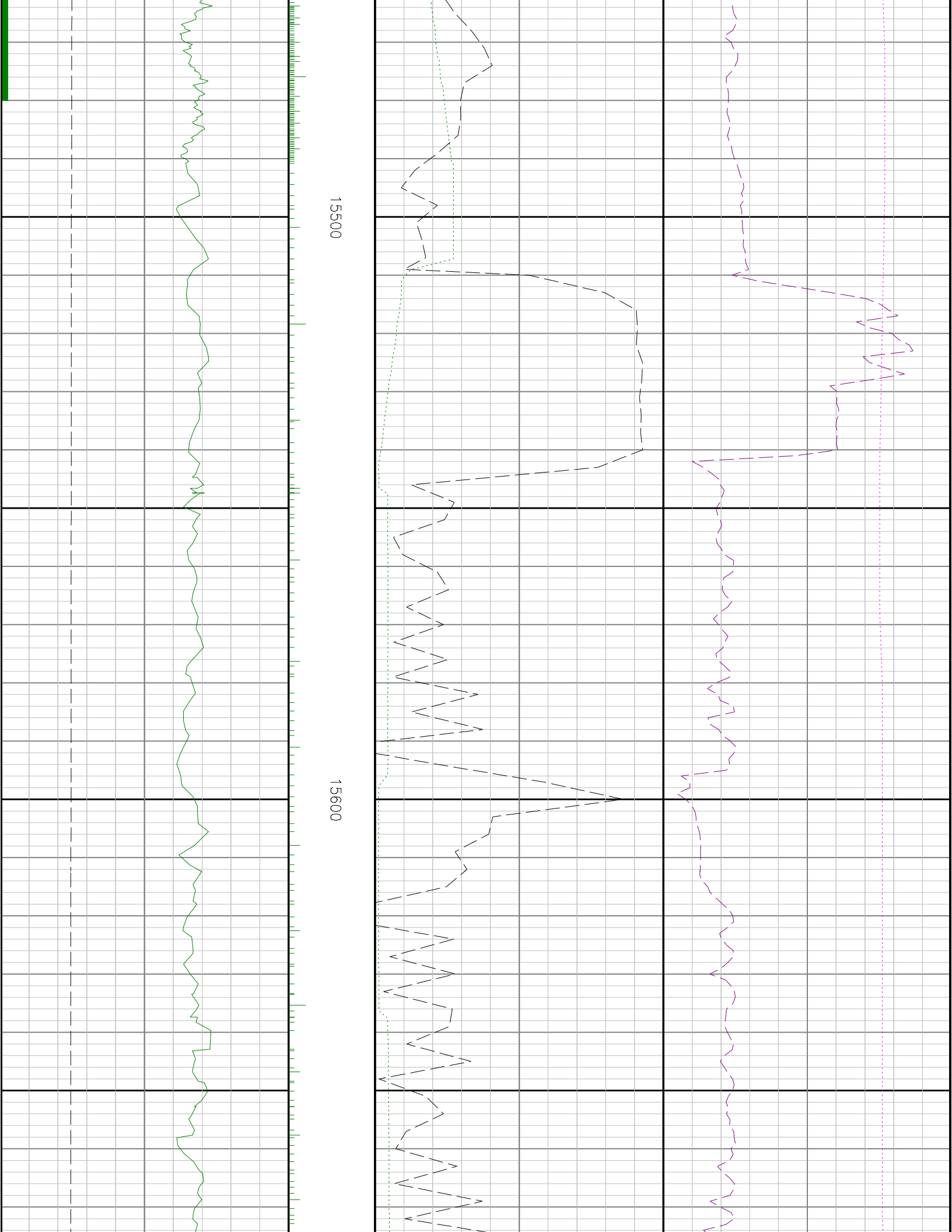


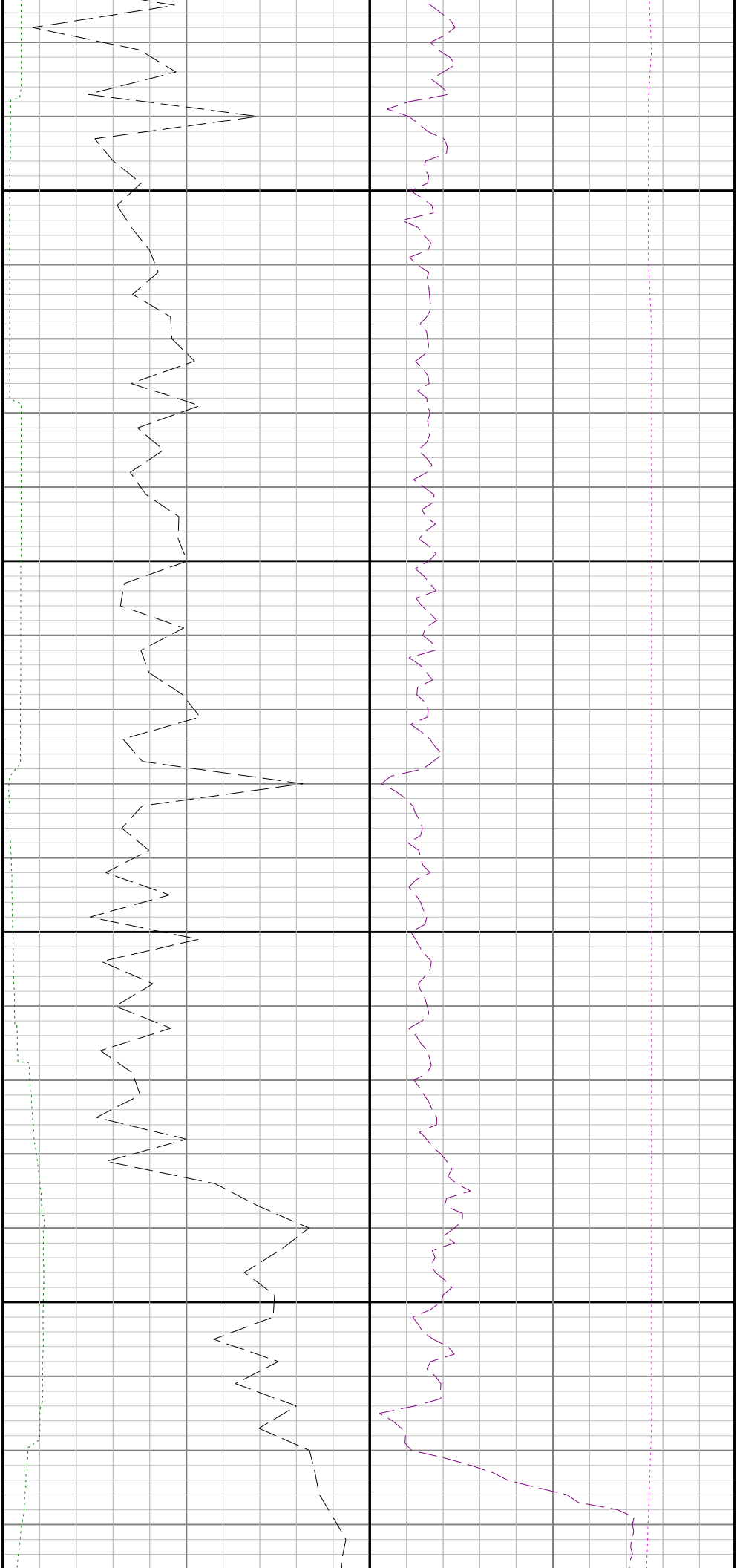


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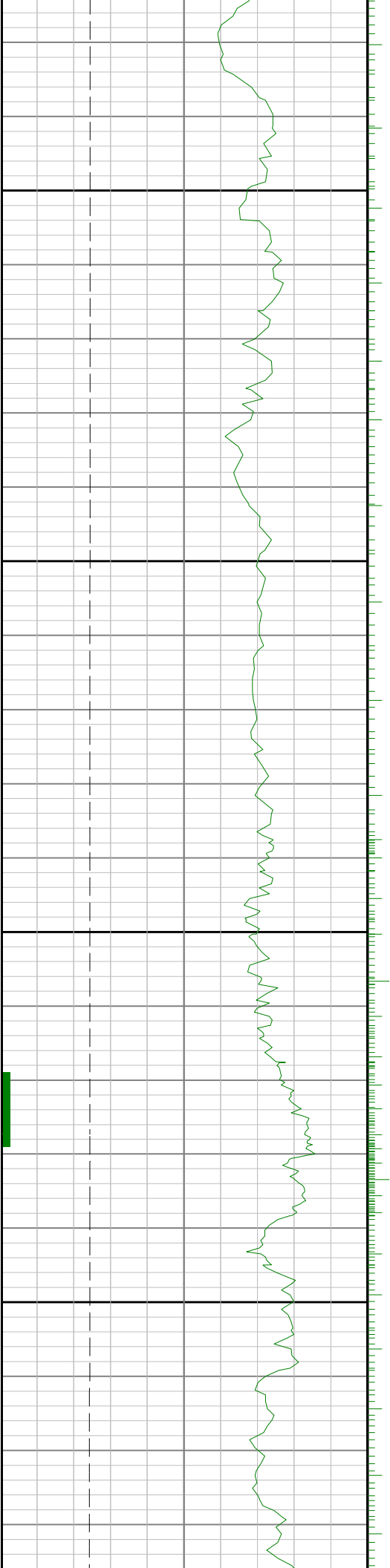


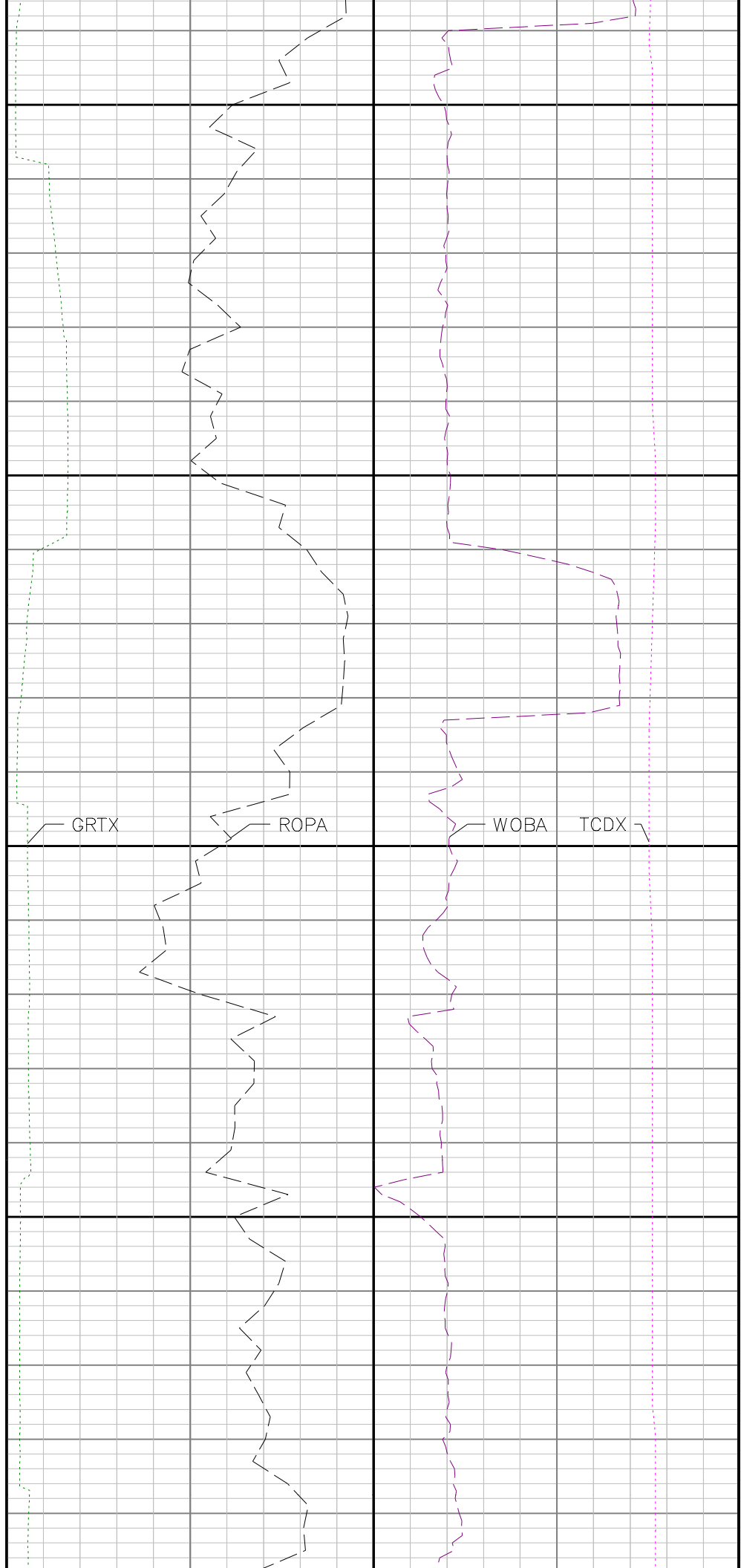
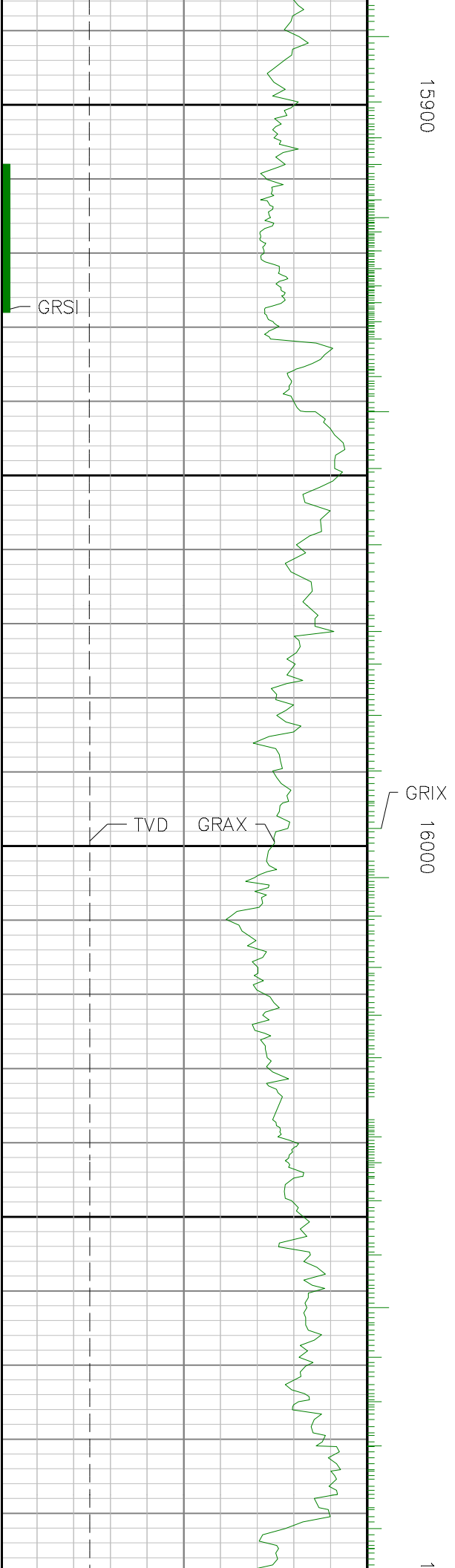


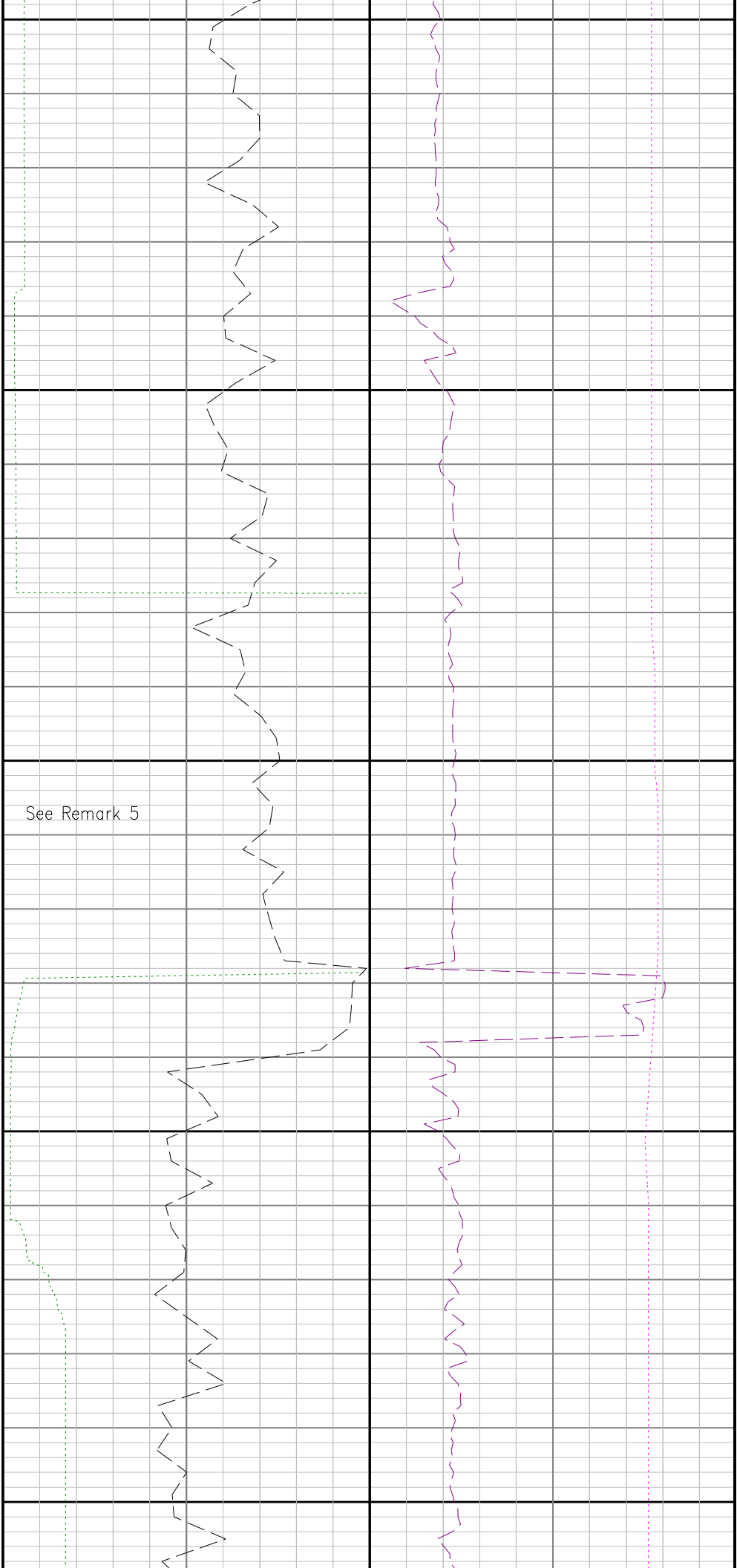


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15800







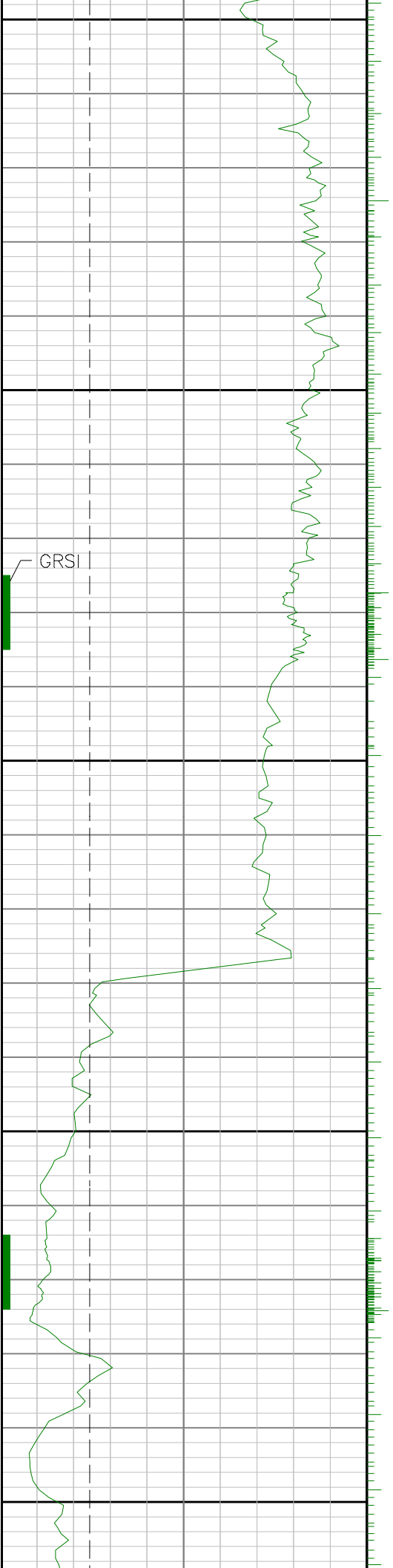
6100

16200

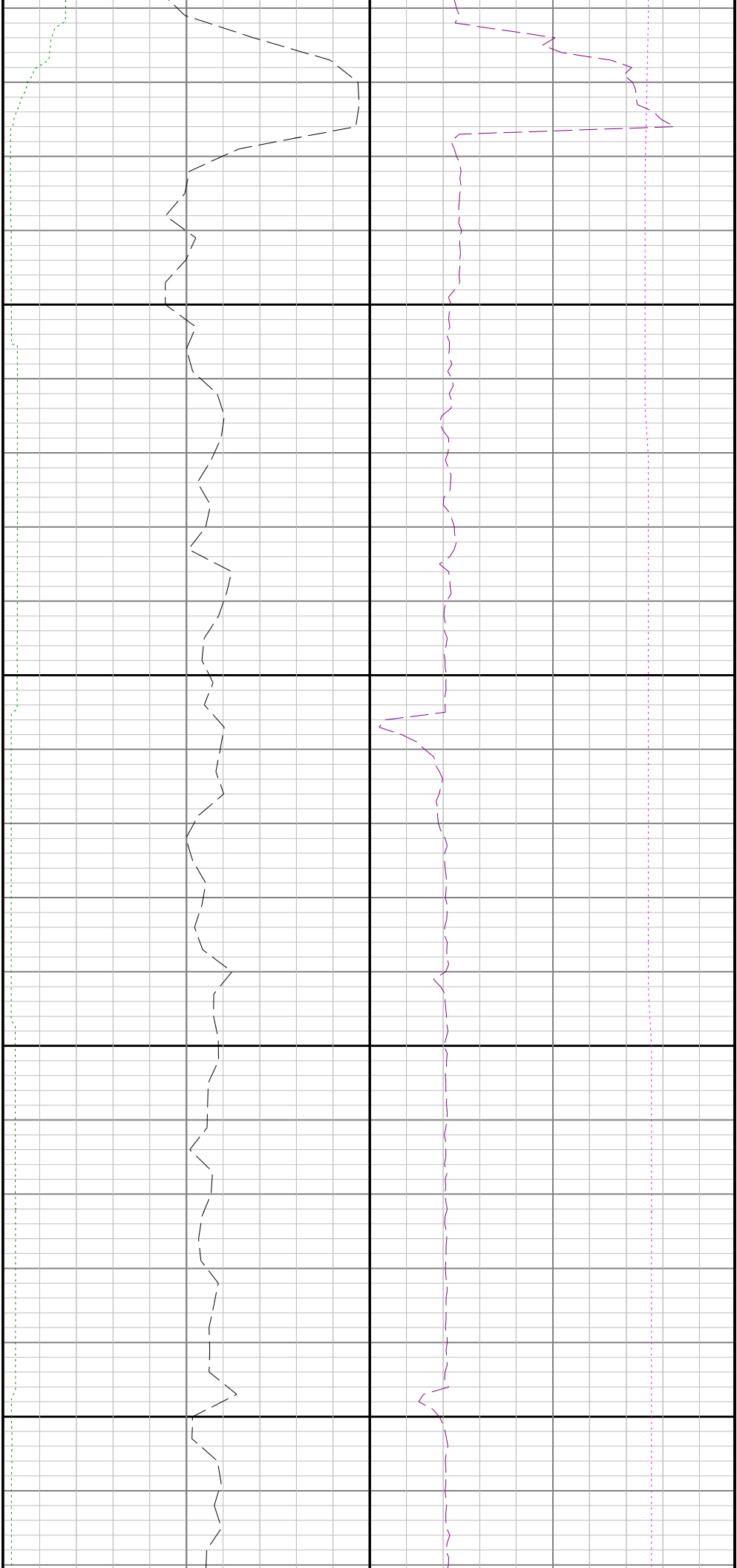
16300

Run 4 \diamond Run 5

See Remark 5

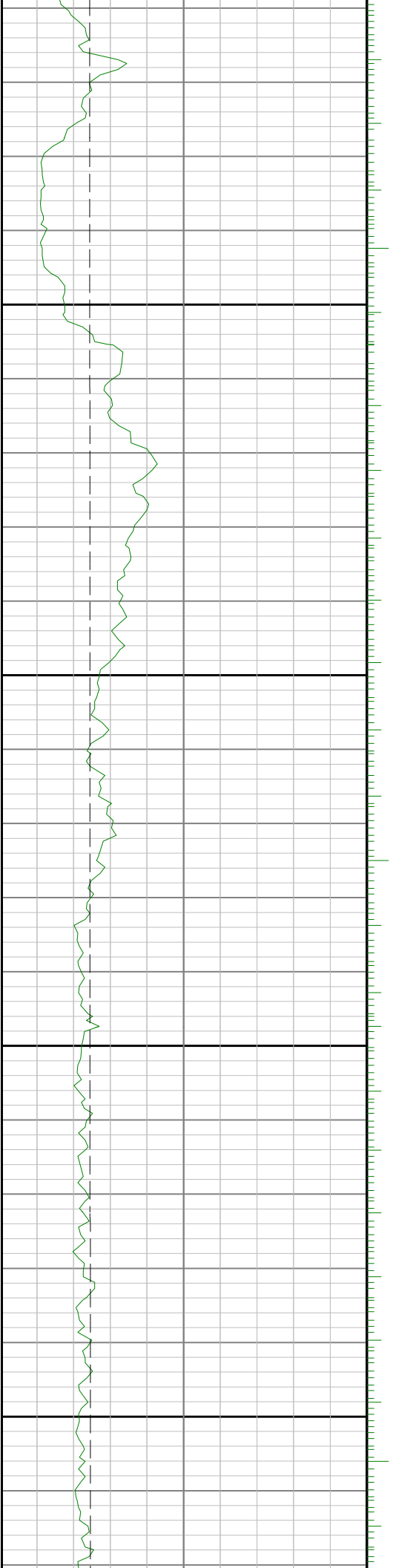


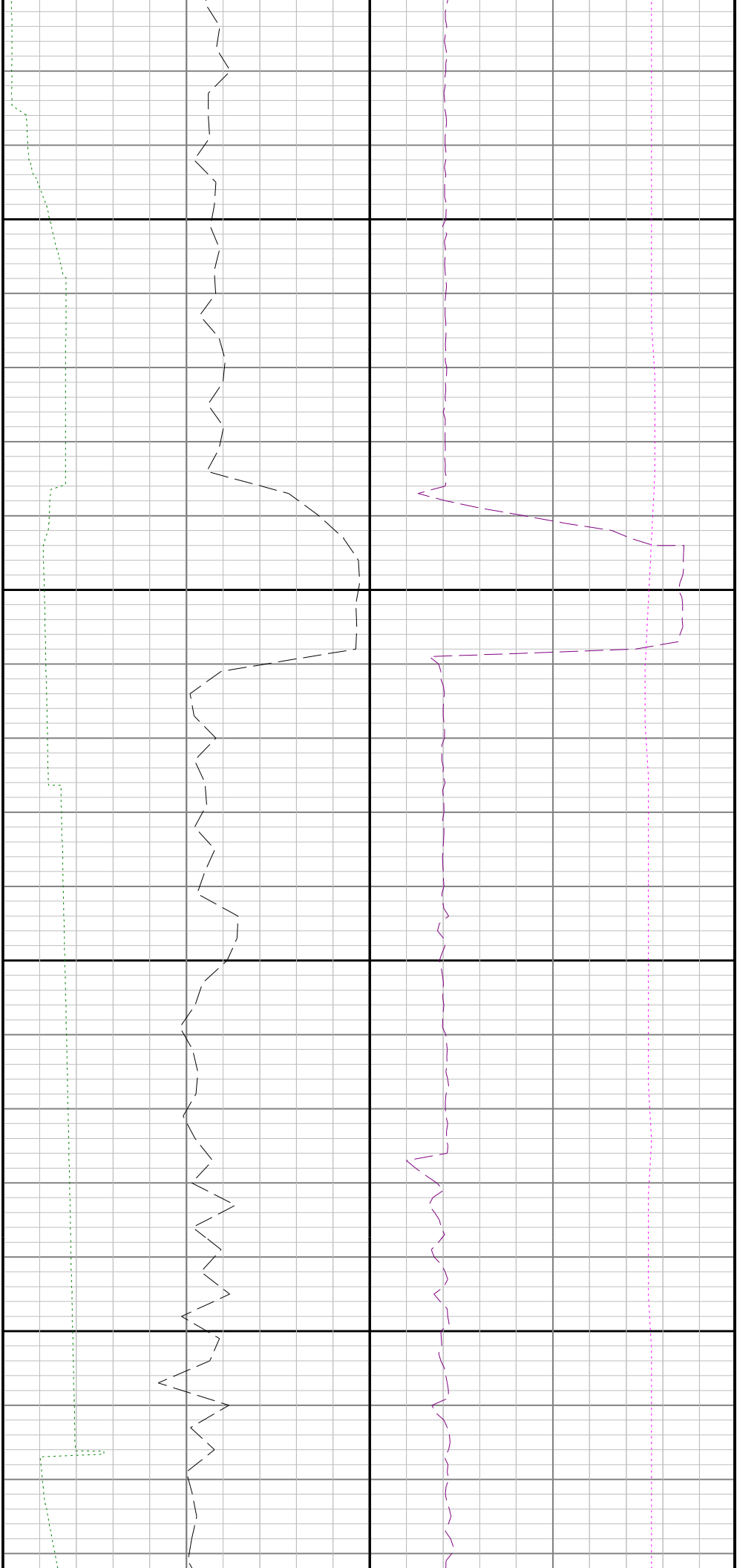
GRSI



16400

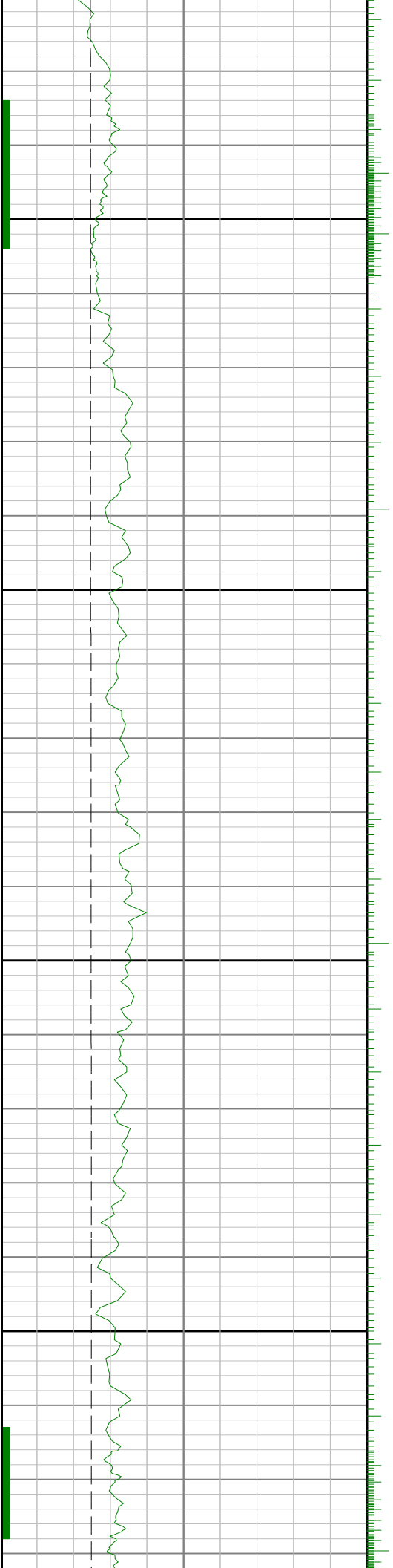
16500



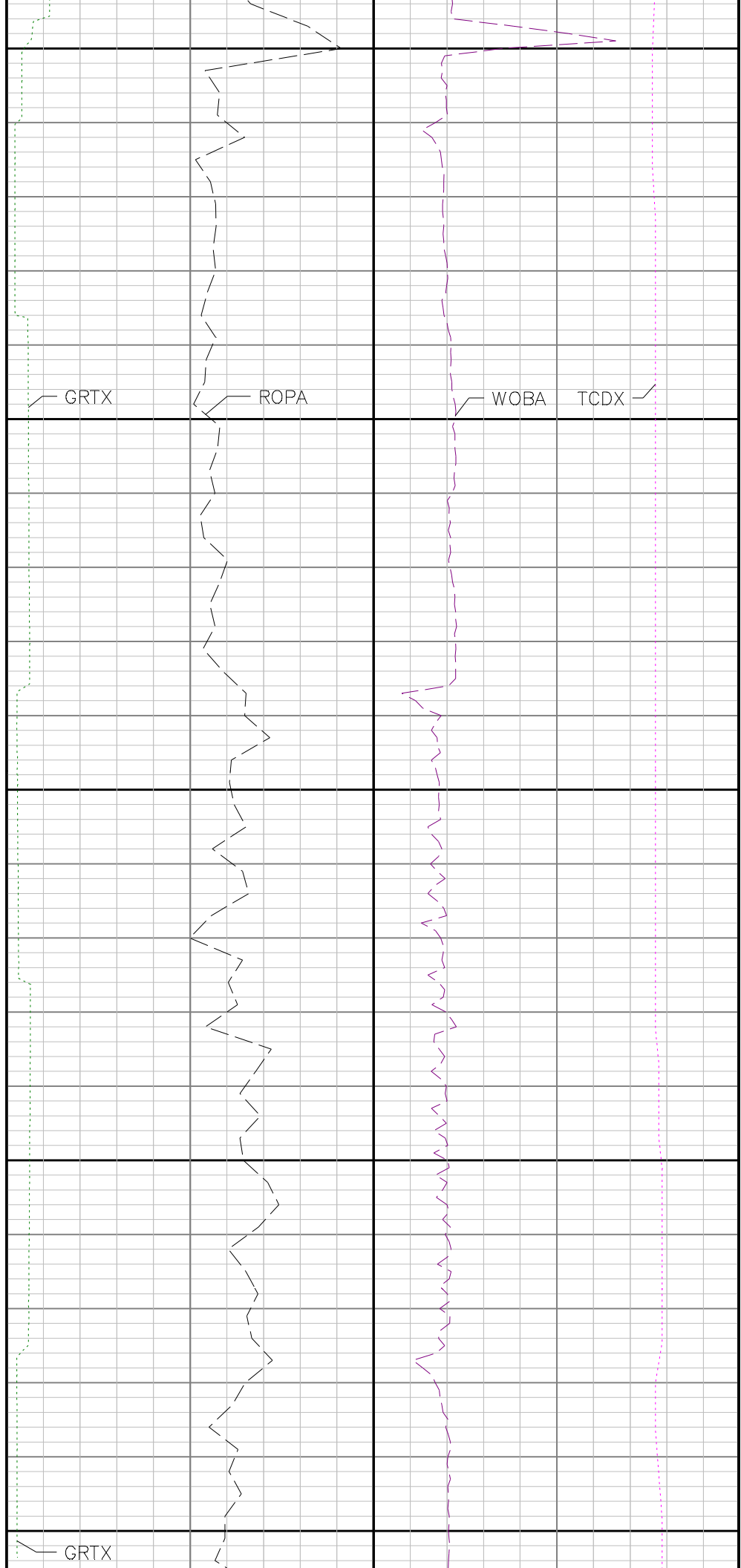
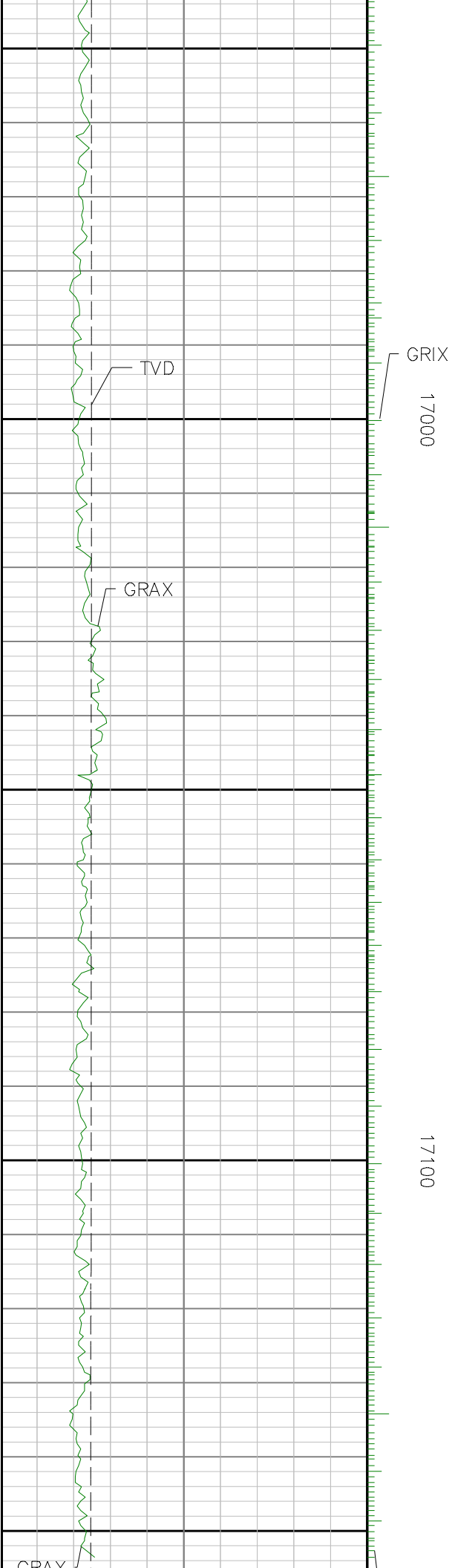


16600

16700







GRAX	GRIX		
See Remark 6			
TVD	Run 5 < 17200 ft	ROPA	WOBA TCDX
Gamma Ray Apparent 0.5 ft Avg GRAX 0 150 API True Vertical Depth TVD 8000 6600 ft	MD feet 1:240	Gamma Time Since Drilled GRTX 0 600 min Rate of Penetration 3.0 ft Avg ROPA 500 0 ft/hr	Surface Weight On Bit 1.0 ft Avg WOBA 0 100 klbf Downhole Temperature TCDX 0 310 degF