



Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Adam Schlenze	Apr 22 2014	April 28 2014	David Campbell	Apr 22 2014	May 2 2014	Greg Dore	April 28 2014	May 2 2014

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (mg/L)	K+ (%)
26/Apr/2014	02:51	1	1242.0	Water Based	8.4	28	7.2	N/A	0 / 99	Active Mud Pit	1000	0.0
27/Apr/2014	02:23	1	6443.0	Water Based	8.6	30	7.2	N/A	0 / 98	Active Mud Pit	1000	0.0
28/Apr/2014	22:00	1	7816.0	Water Based	10.1	12	9.3	N/A	1/88	Active Mud Pit	1100	0.0
29/Apr/2014	22:00	2	7860.0	Water Based	10.1	11	9.3	N/A	2/88	Active Mud Pit	1100	0.0
30/Apr/2014	22:30	3	9173.0	Water Based	9.9	11	9.3	N/A	2/89	Active Mud Pit	1300	0.0
01/May/2014	22:30	3	11299.0	Water Based	9.8	12	9.2	N/A	2/89	Active Mud Pit	1400	0.0

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. Avg.	API
GRIX	Gamma Ray Data Density	point
GRSI	Gamma Ray Sliding Indicator	unitless
GRTX	Gamma Ray Time Since Drilled	min
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	12566686	Directional	46.34	6.750	2.875
1	SRIG	12622668	Gamma	42.96	6.750	2.875
2	DIR	12373466	Directional	53.50	4.750	2.750
2	SRIG	12131401	Gamma	50.12	4.750	2.750
3	DIR	10007388	Directional	52.66	4.750	2.750
3	SRIG	12376061	Gamma	49.28	4.750	2.750

Service and Tool Mnemonics

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

Comments

- 1.) Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
- 2.) Baker Hughes run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1242 to 7716 feet MD (1242 to 7271 feet TVD).
- 3.) No data was collected during run 2 to due to MWD failure prior to drilling new formation.
- 4.) Baker Hughes run 2and 3 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 6 1/8 inch bit and steerable assembly from 7716 to 12324 feet MD (7217 to 7286 feet TVD).
- 5.) The interval from 1242 to 6780 feet MD (1242 to 6648 feet TVD) was not logged due to directional only services being provided through the straight-hole and nudge section for Baker Hughes run 1.
- 6.) The solid line on the left side of the gamma ray track indicates the interval over which data was collected while not rotating.

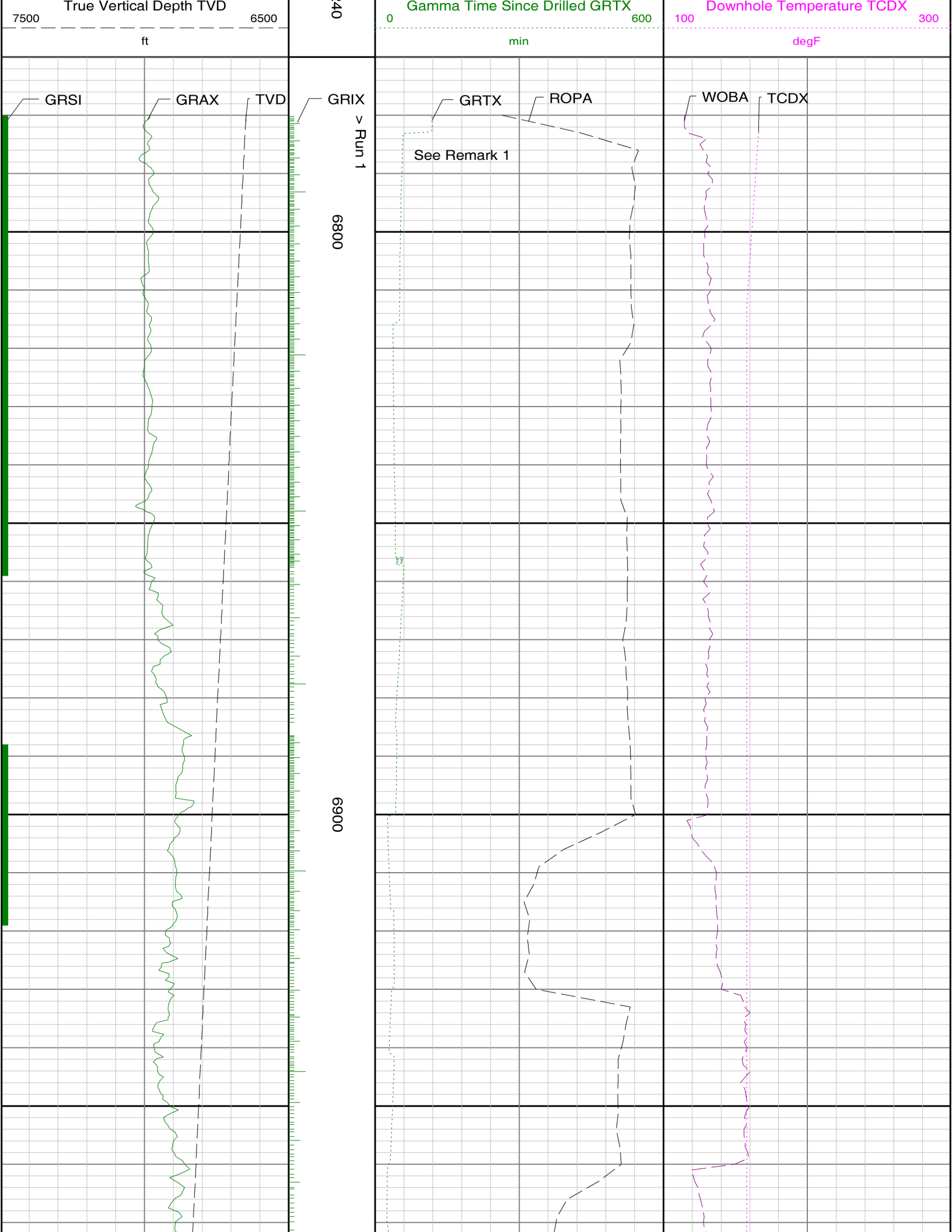
Remarks

Number	Measured Depth (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	6780	8.750	1	Begin logging due to directional only service provided thru vertical section and nudge.
2	7766	8.750	3	The interval from 7766 to 7816 feet MD ( 7277 to 7279 feet TVD) was logged more than 10 hrs after being drilled due to a trip out of the hole for casing and cement operations and trip for MWD failure.
3	12275	6.125	3	No sensor data logged from 12589 to 12324 feet MD ( 7286 feet TVD) due to sensor to bit offset at well TD.

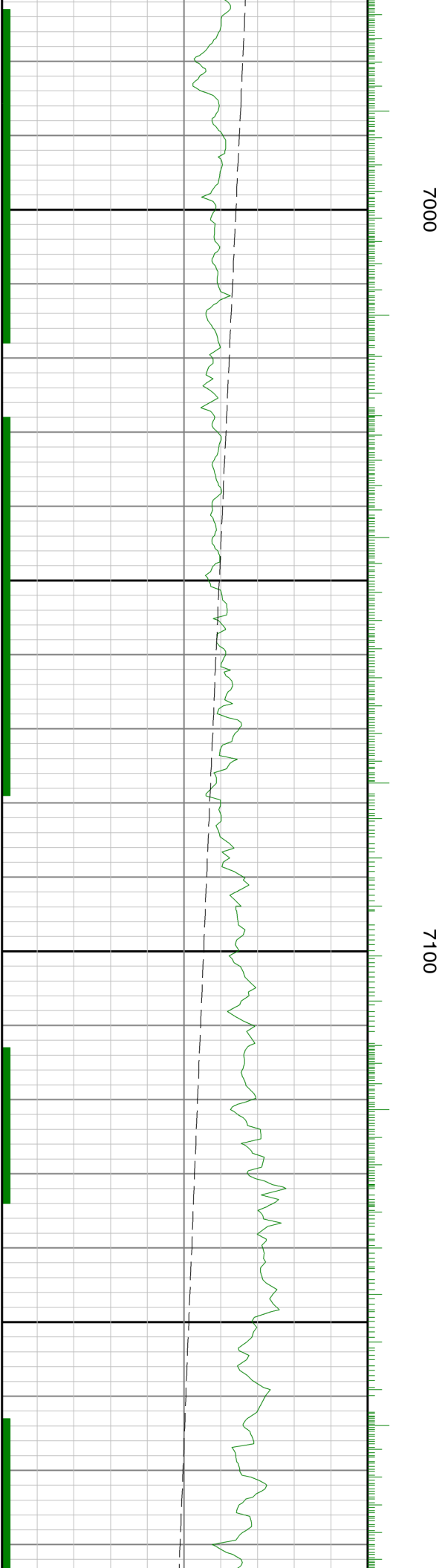
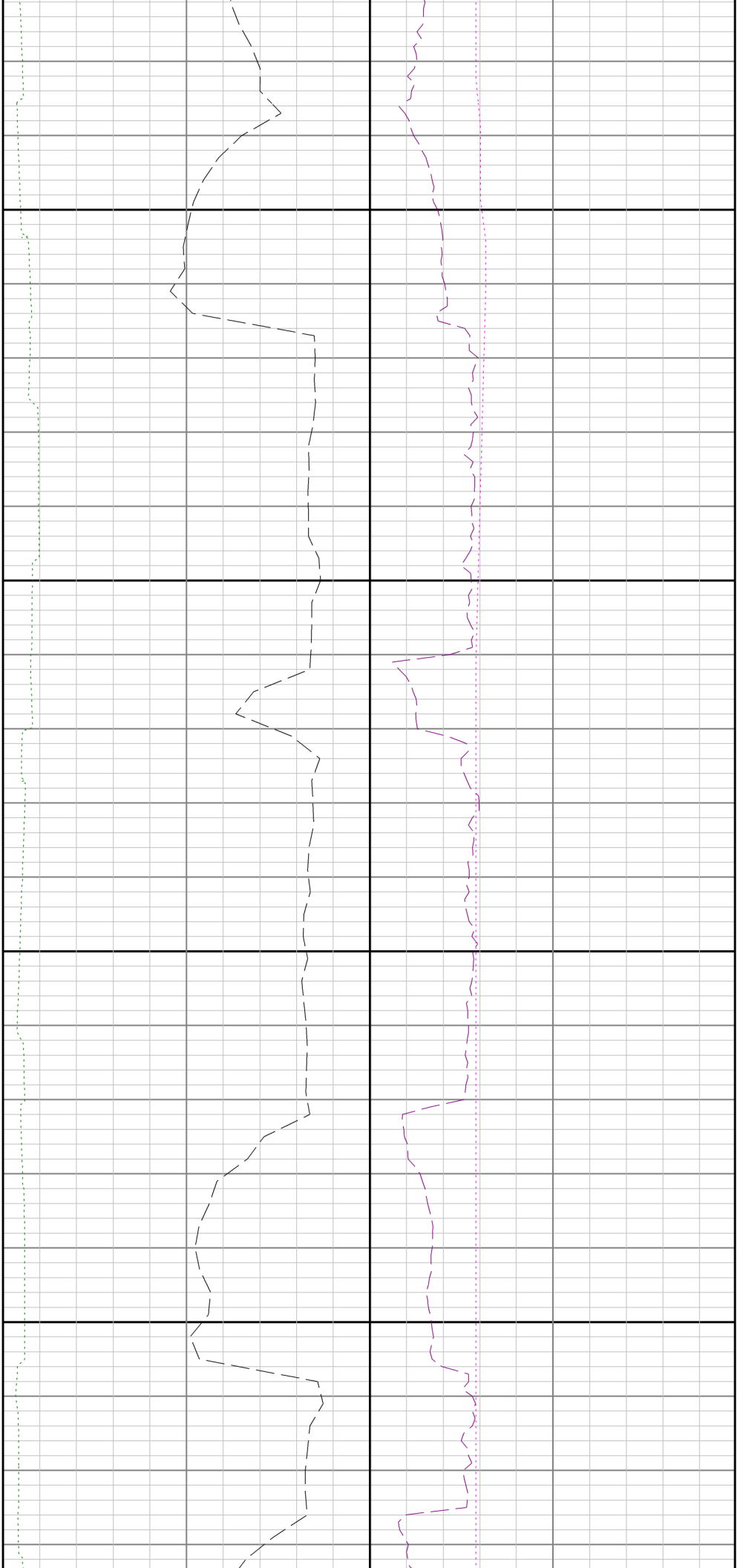


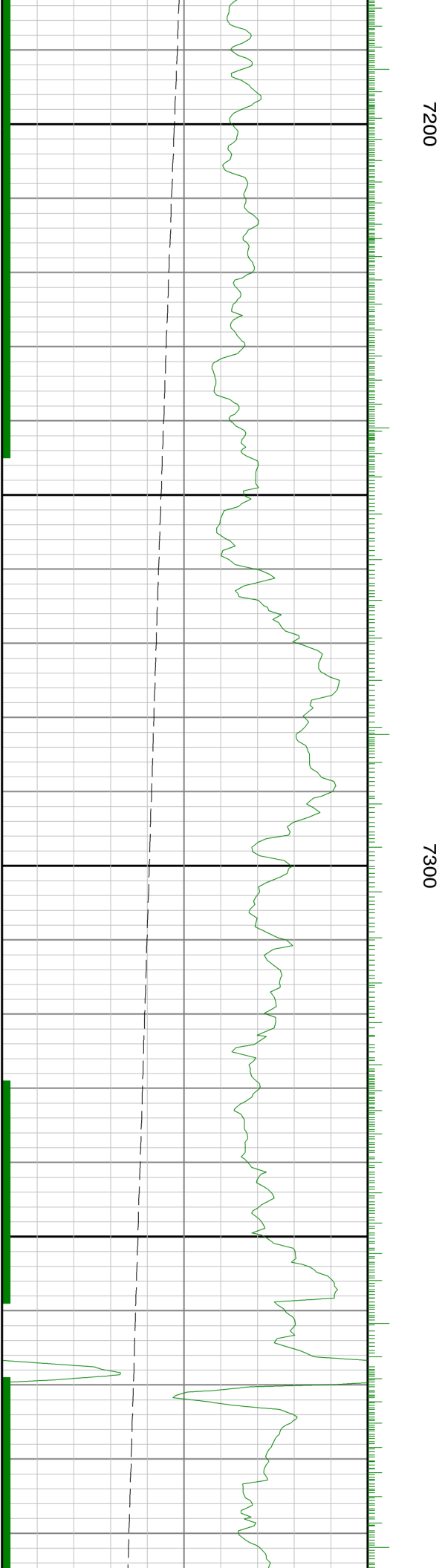
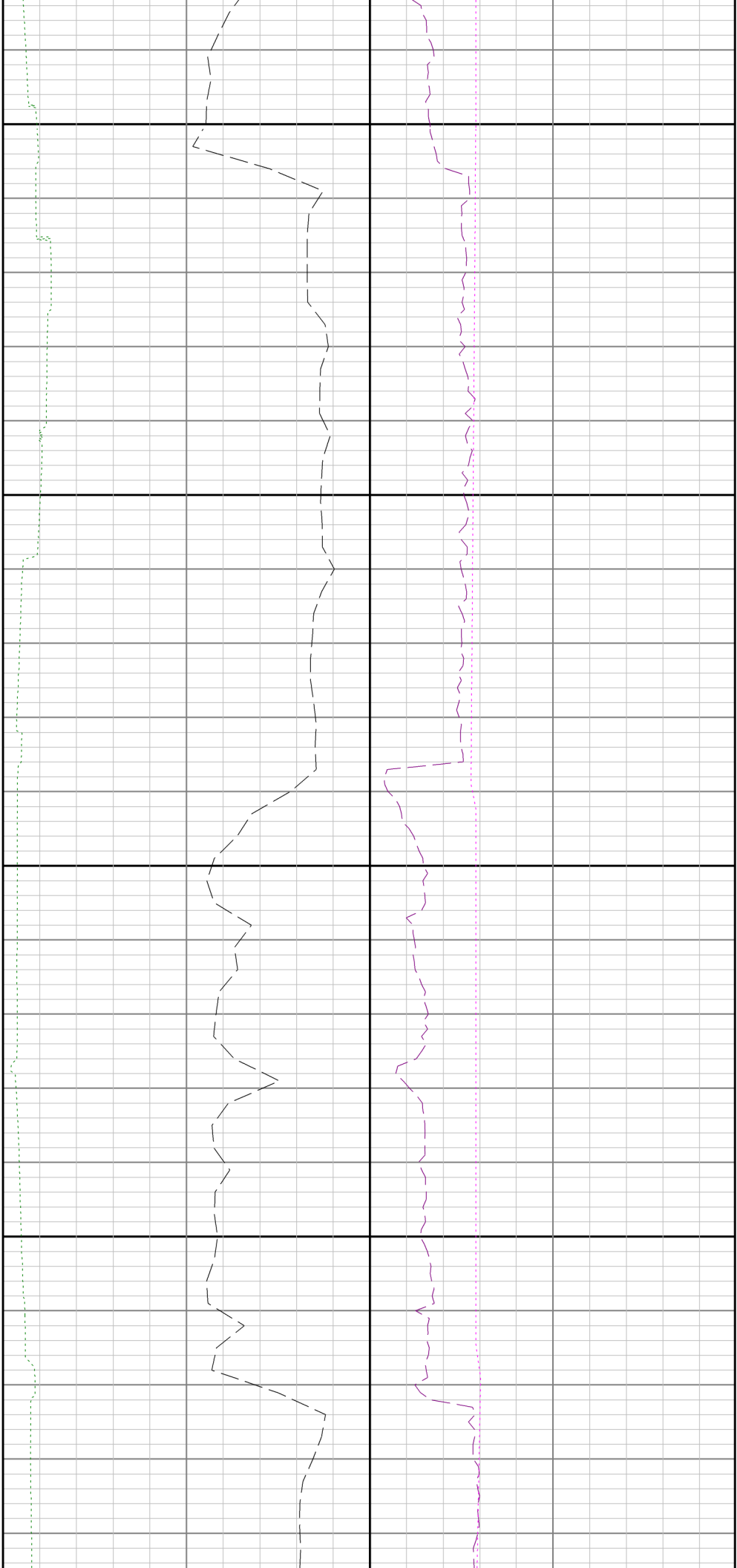
Company : Anadarko E&P Company LP  
Well : Lansdown State 29N-21HZ  
Interval : 6770.00 - 12340.00 feet  
Created : 02/May/2014 9:33:20 AM

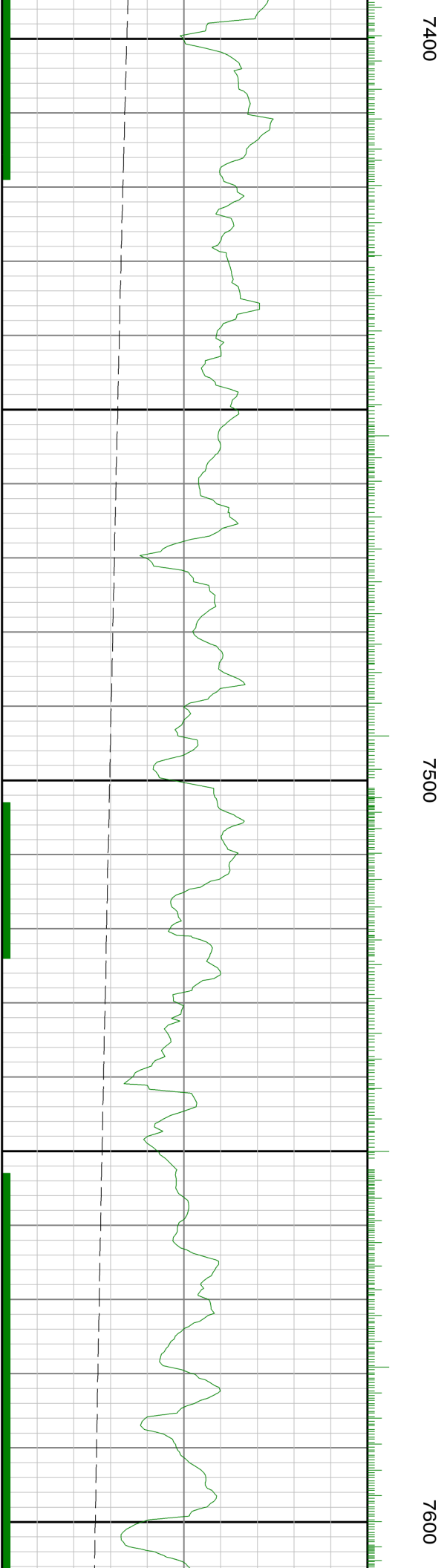
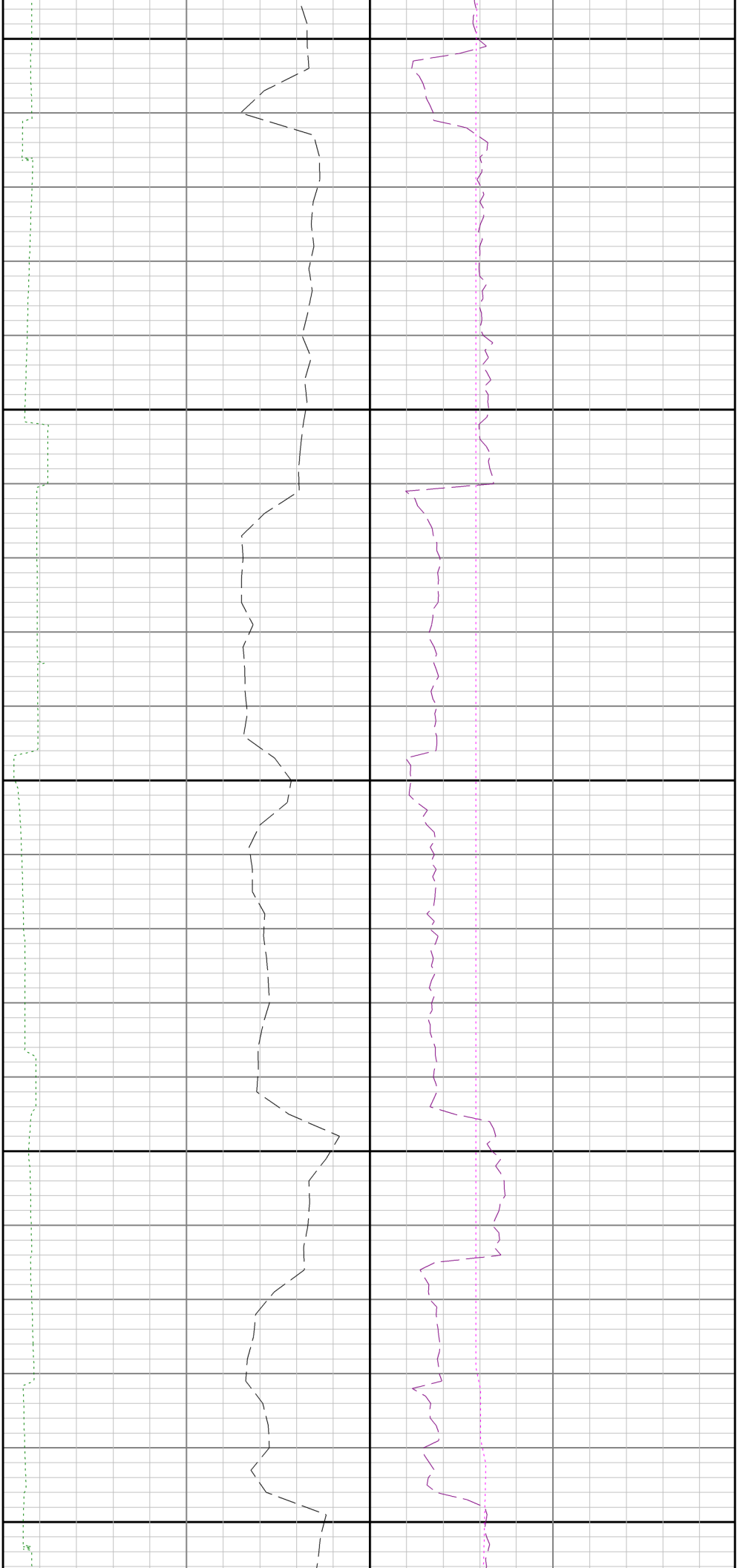
Gamma Ray Apparent 0.5 ft Avg GRAX	MD feet 1:2	Rate of Penetration 3.0 ft Avg ROPA	Surface Weight On Bit 1.0 ft Avg WOBA
0200		5000	0100
API		ft/hr	klbf

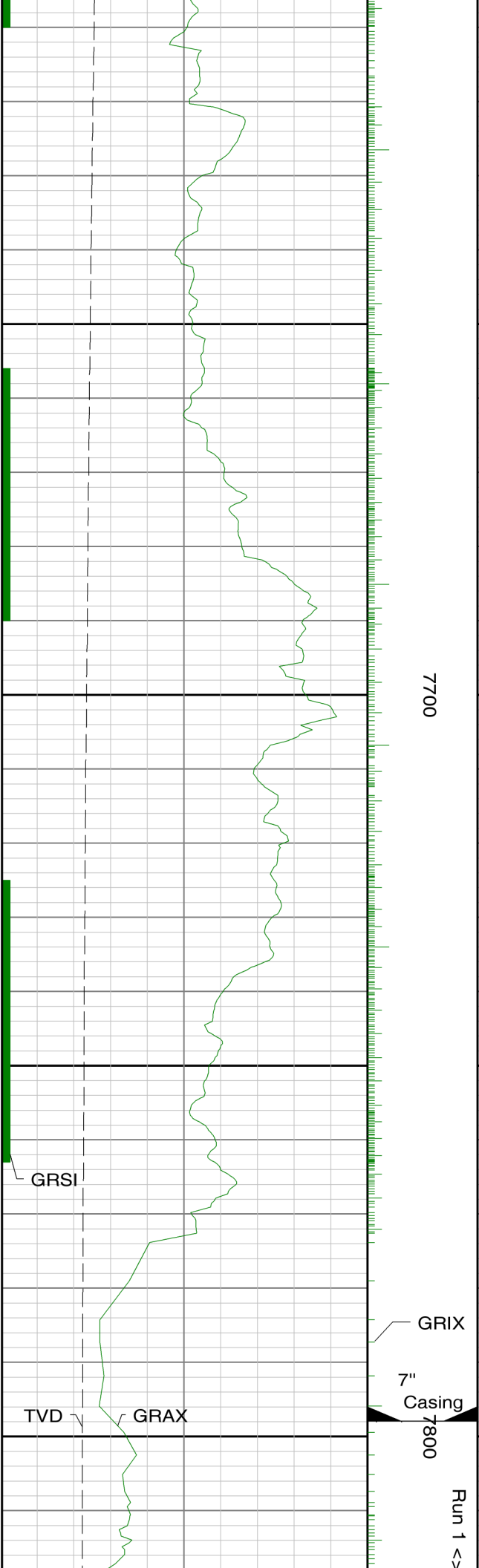


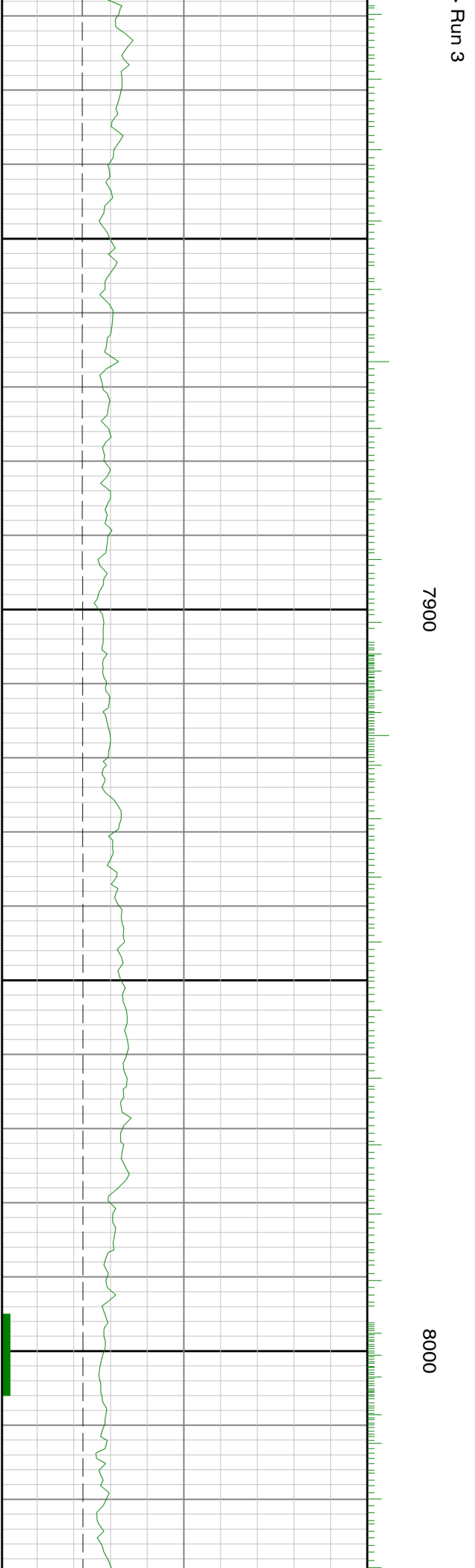
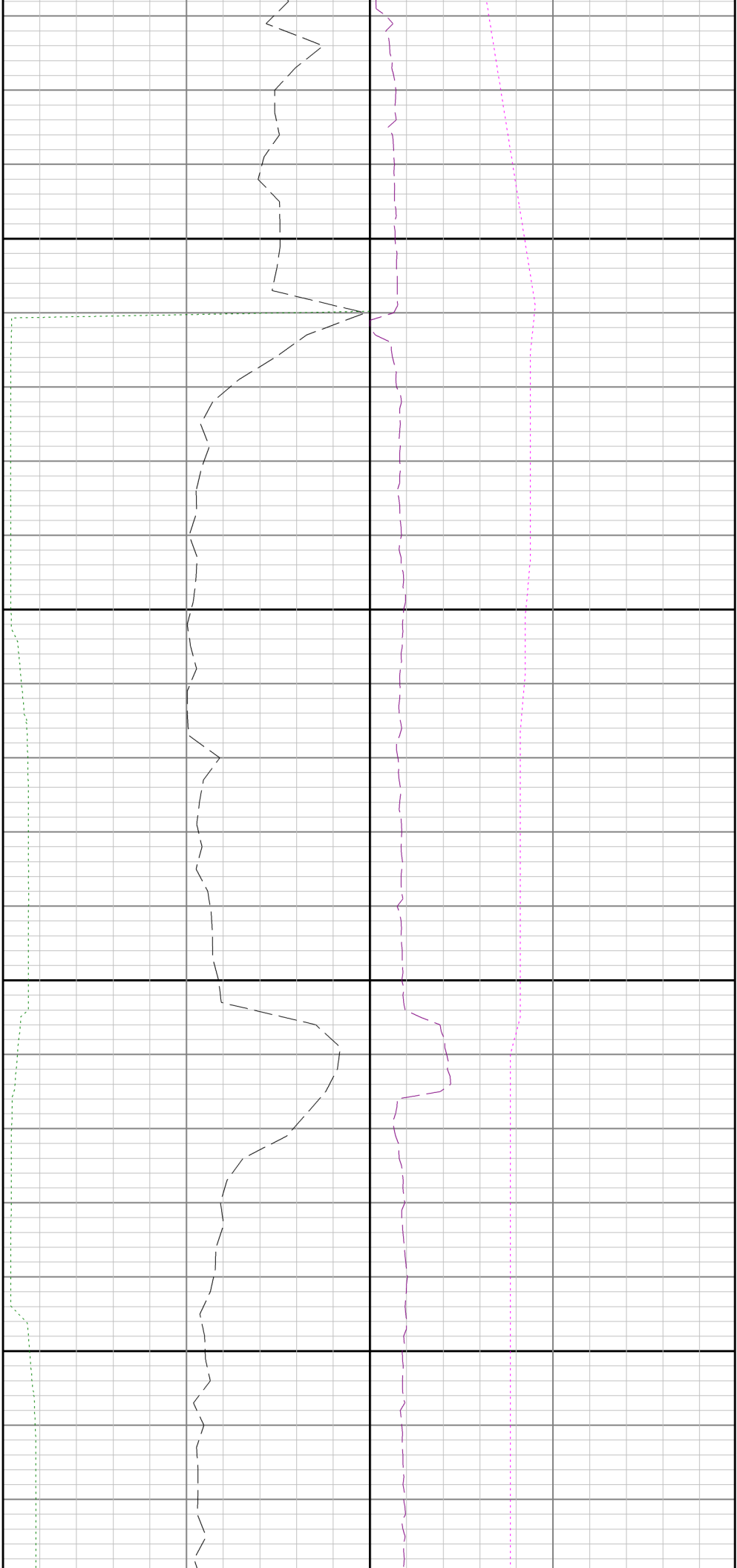


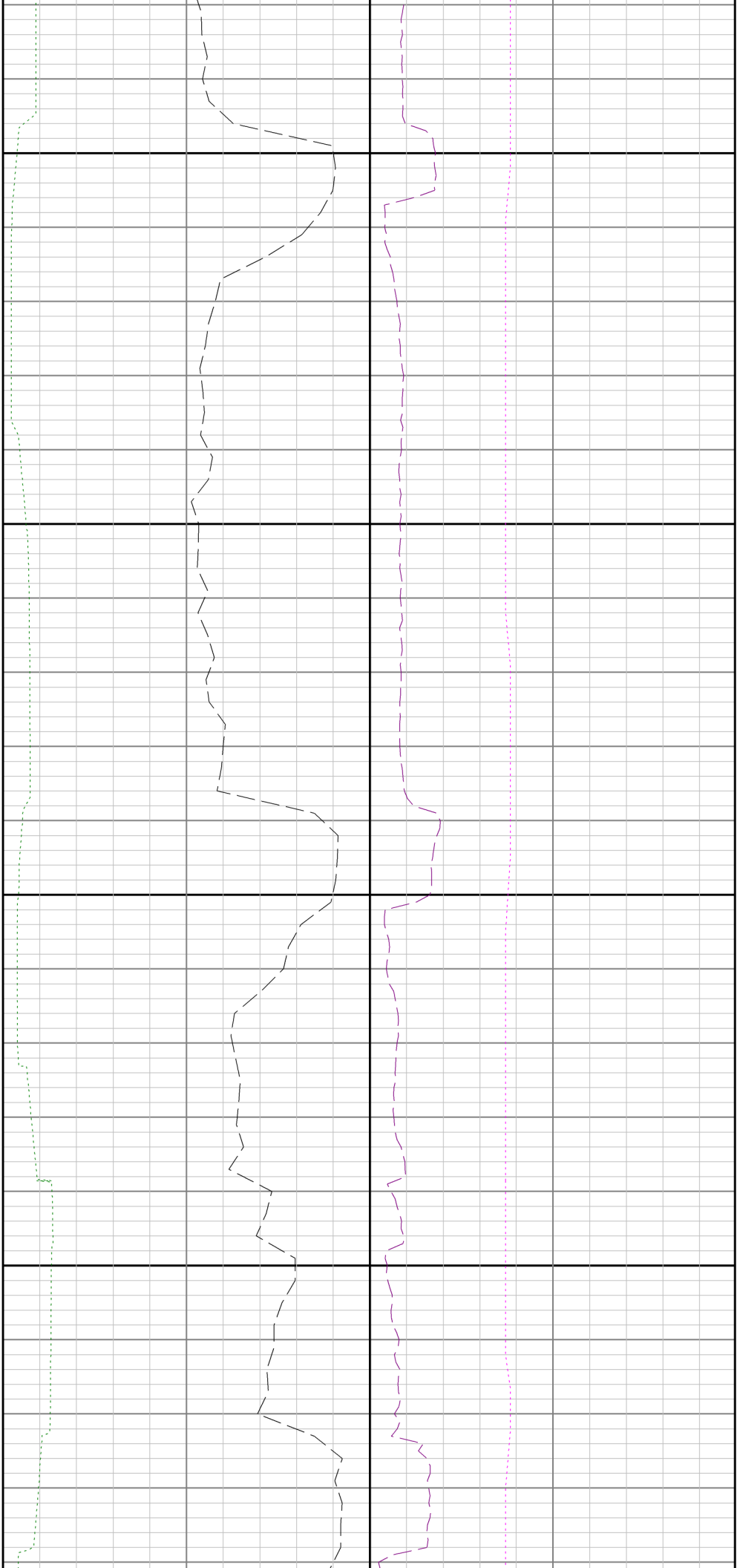






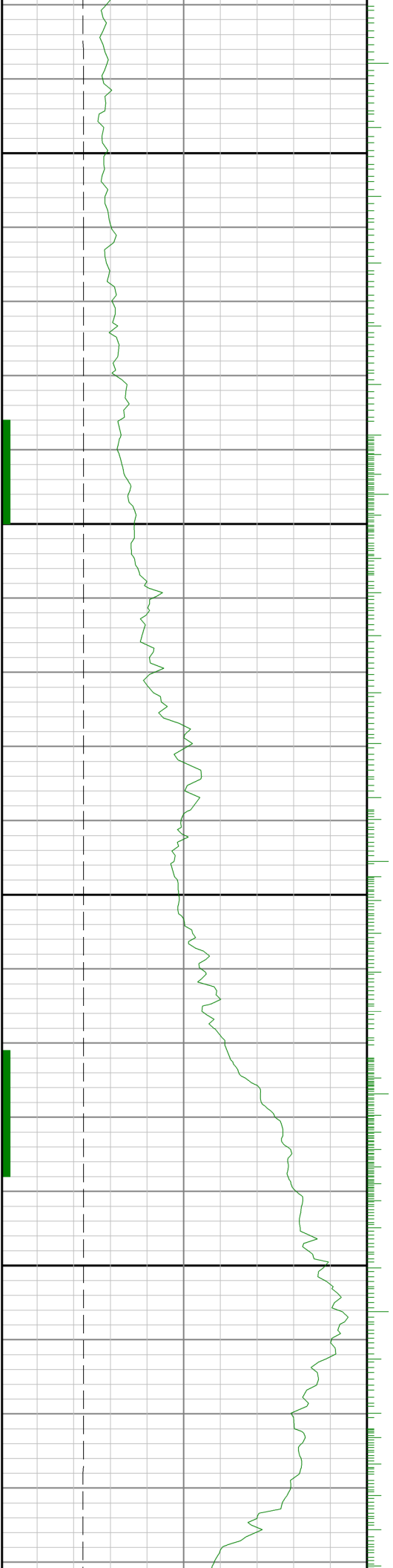


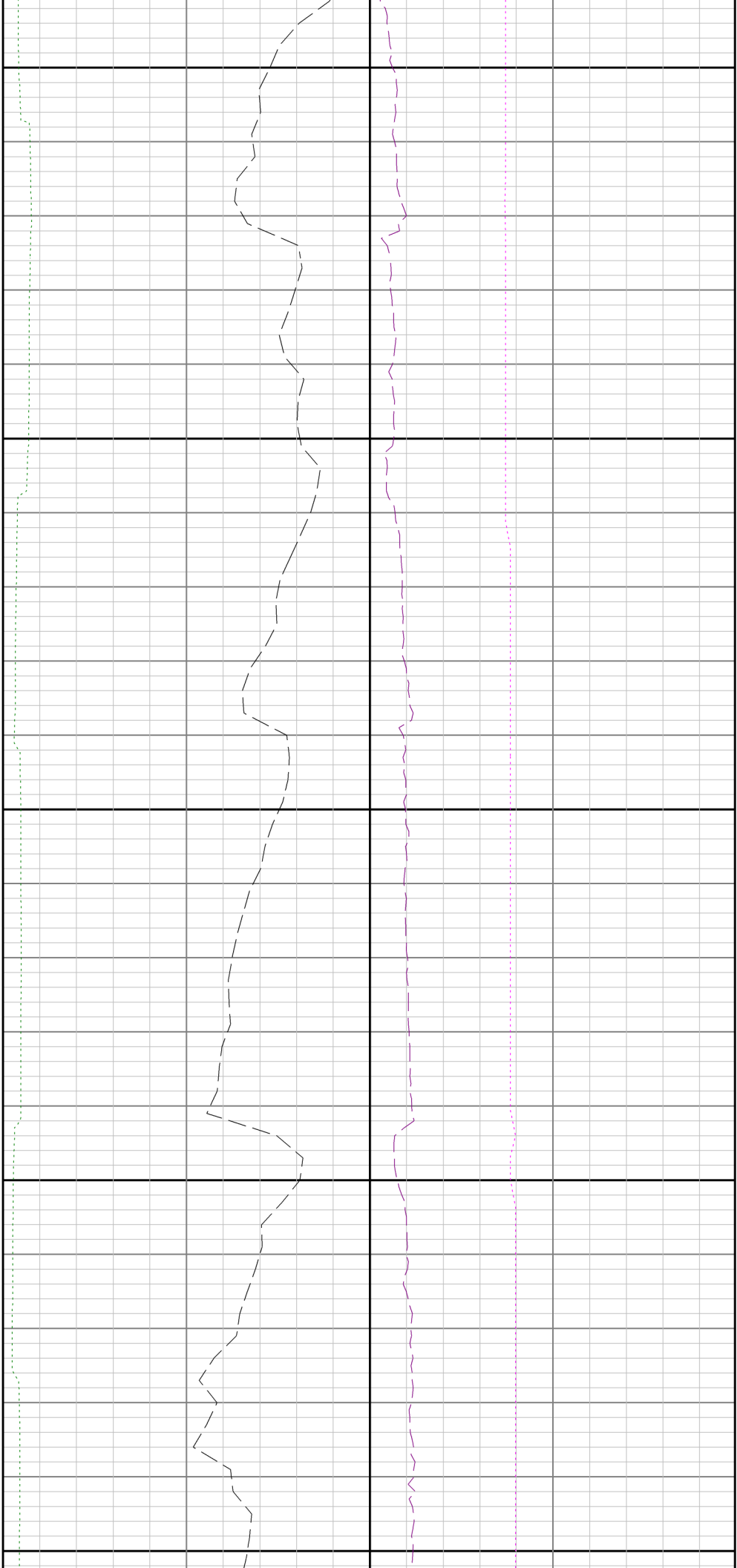




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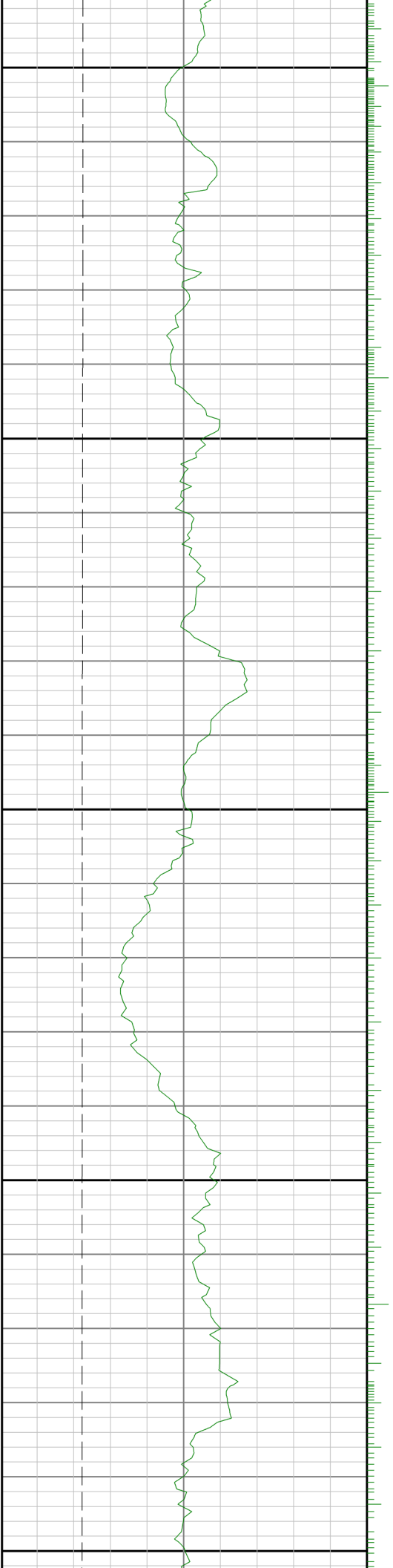
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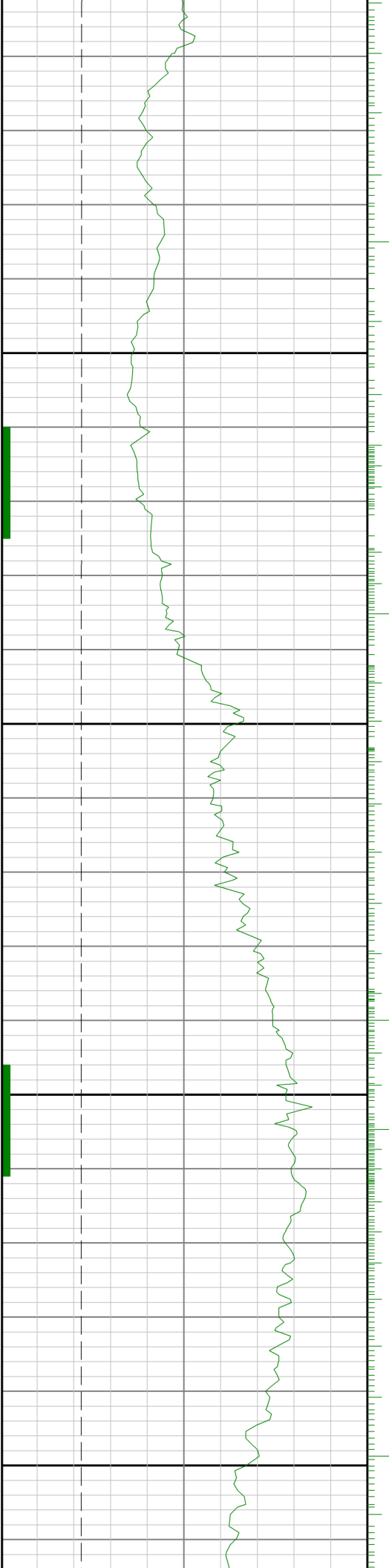




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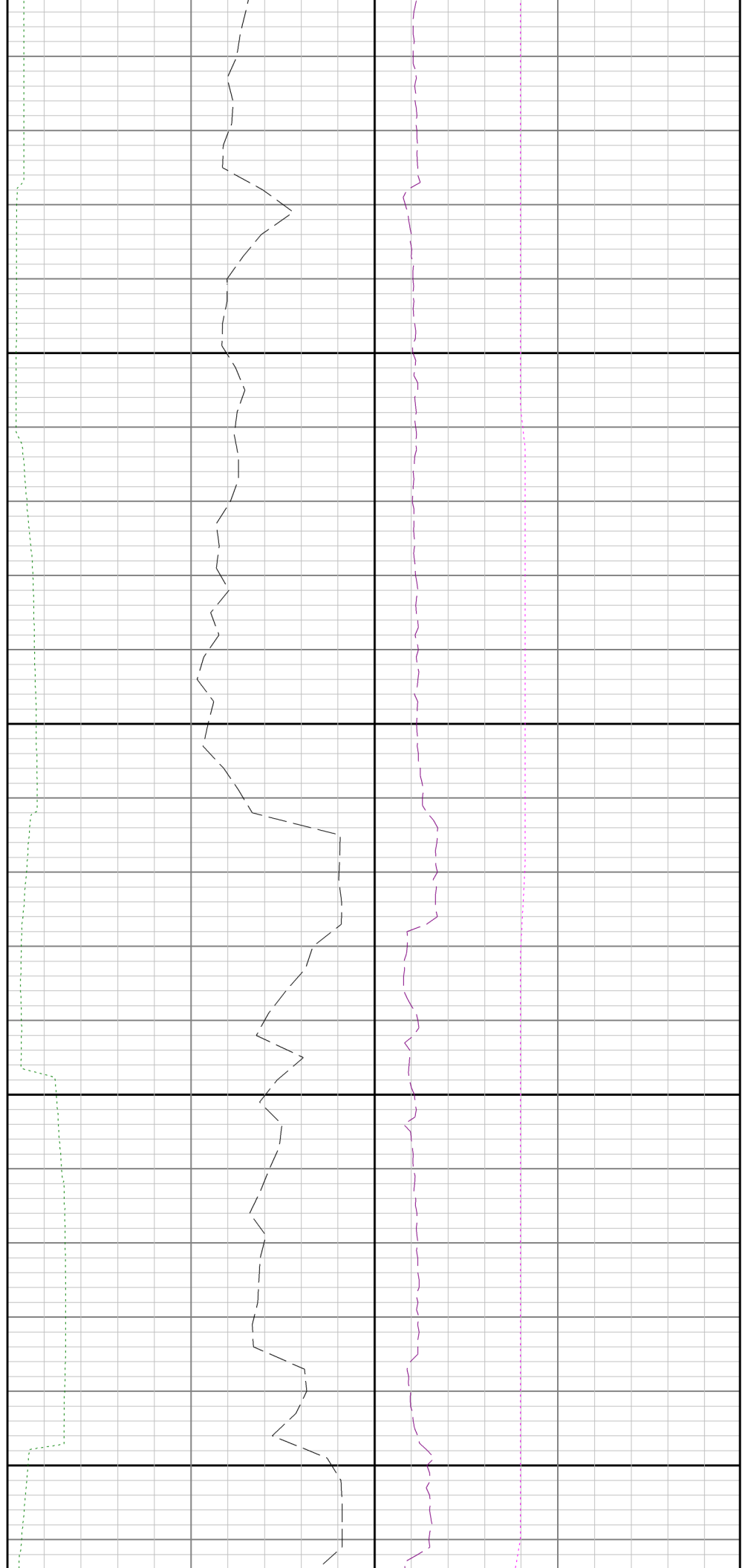
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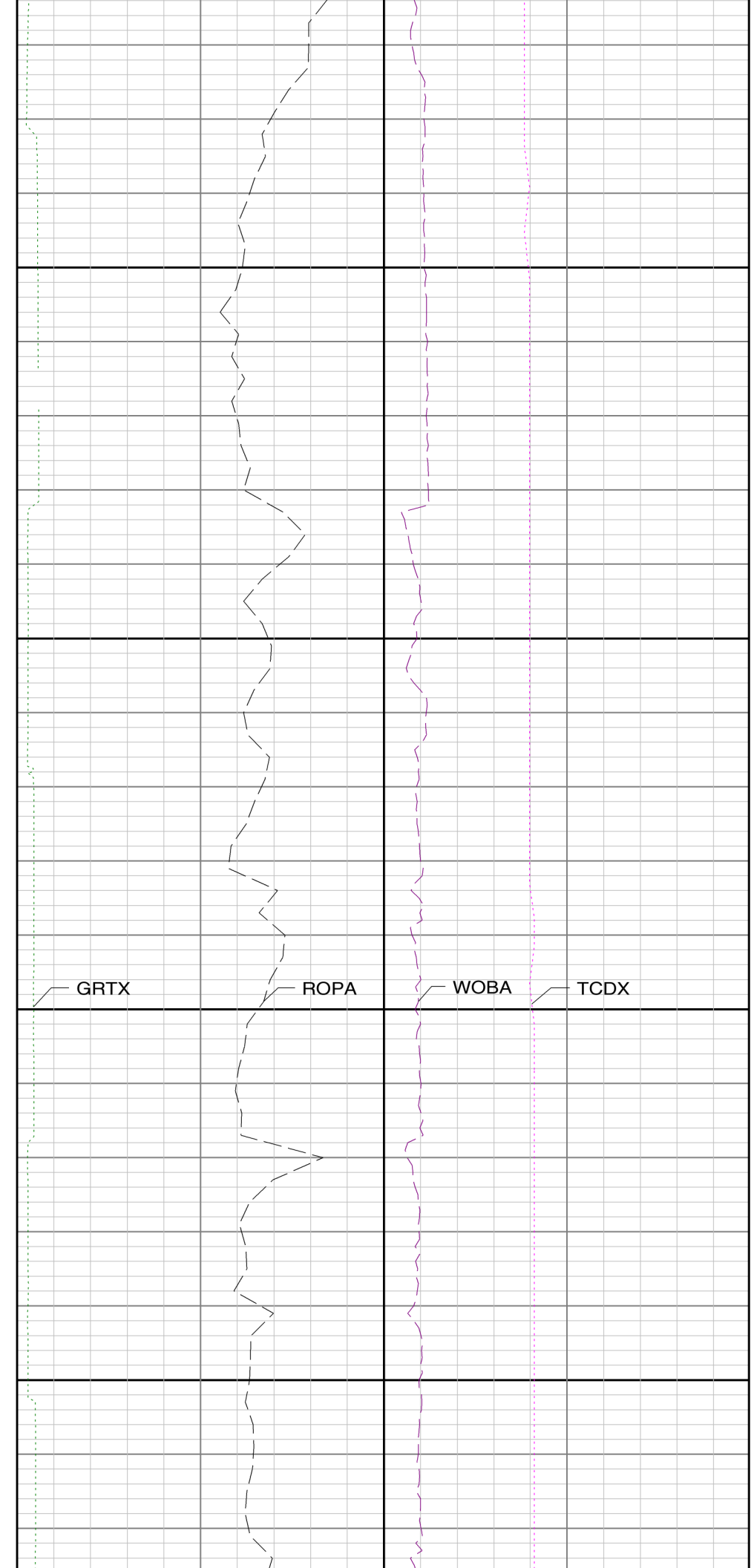
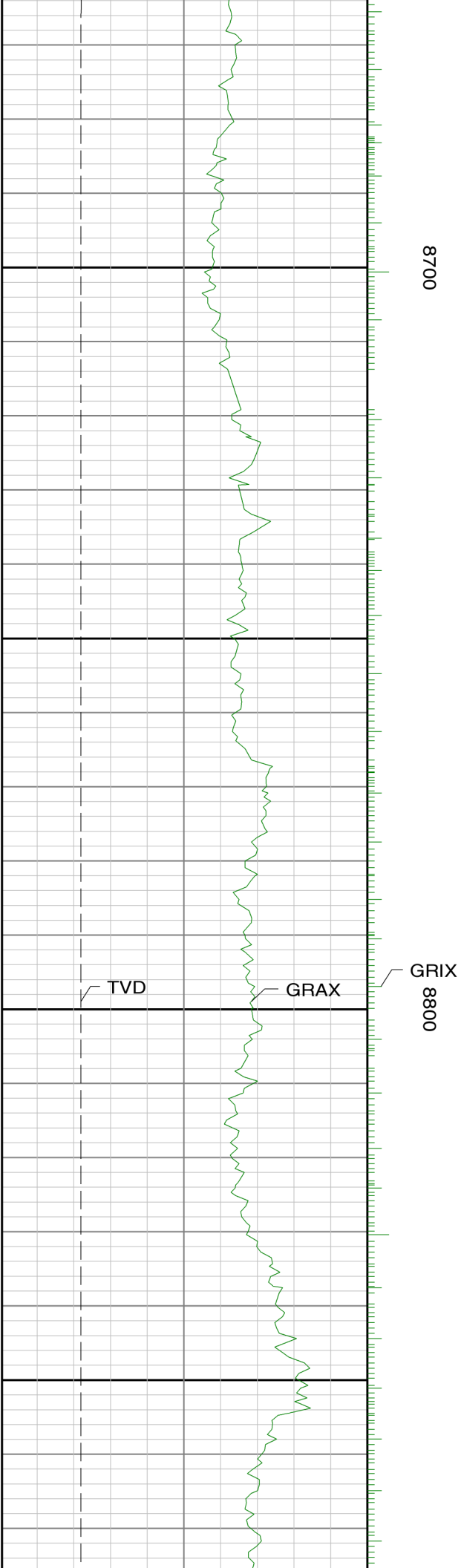


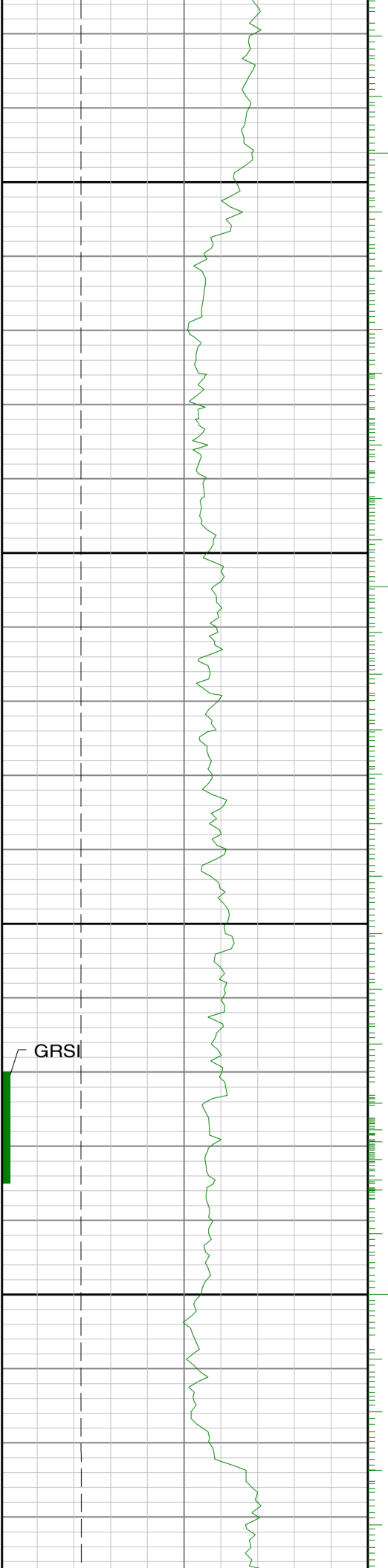
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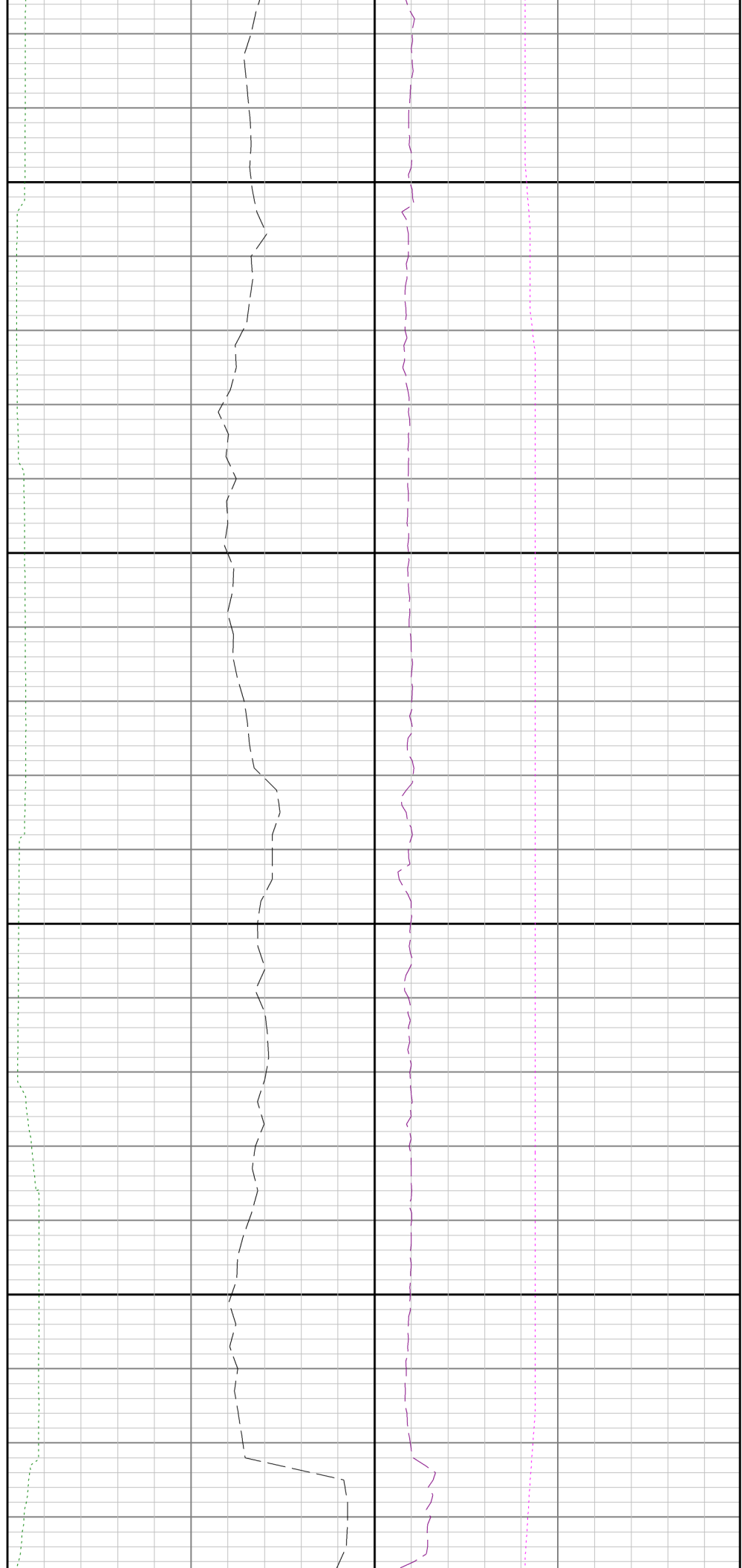


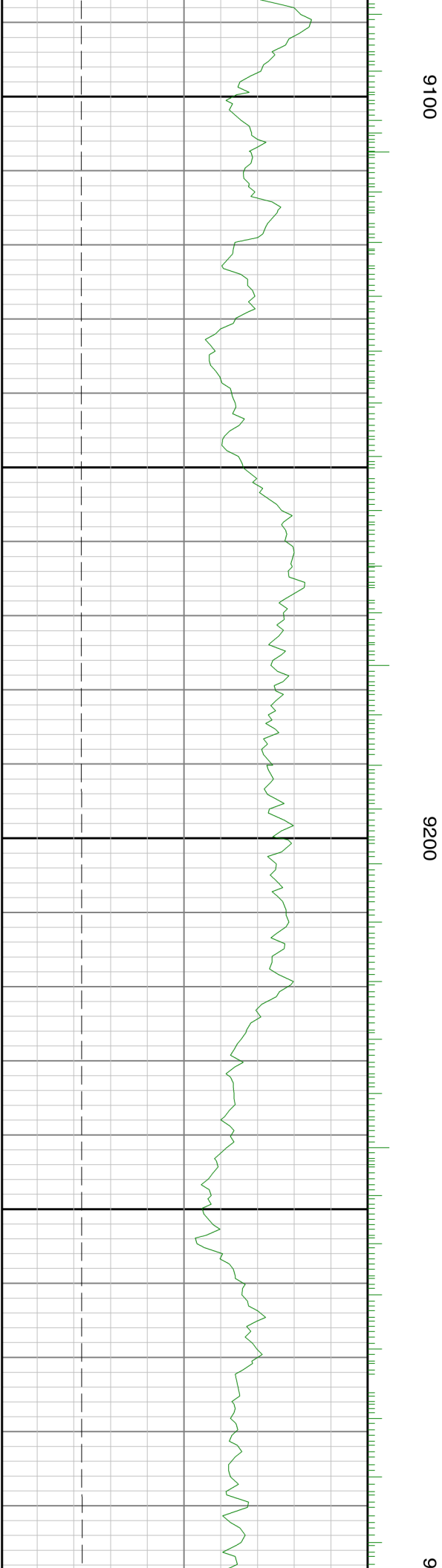
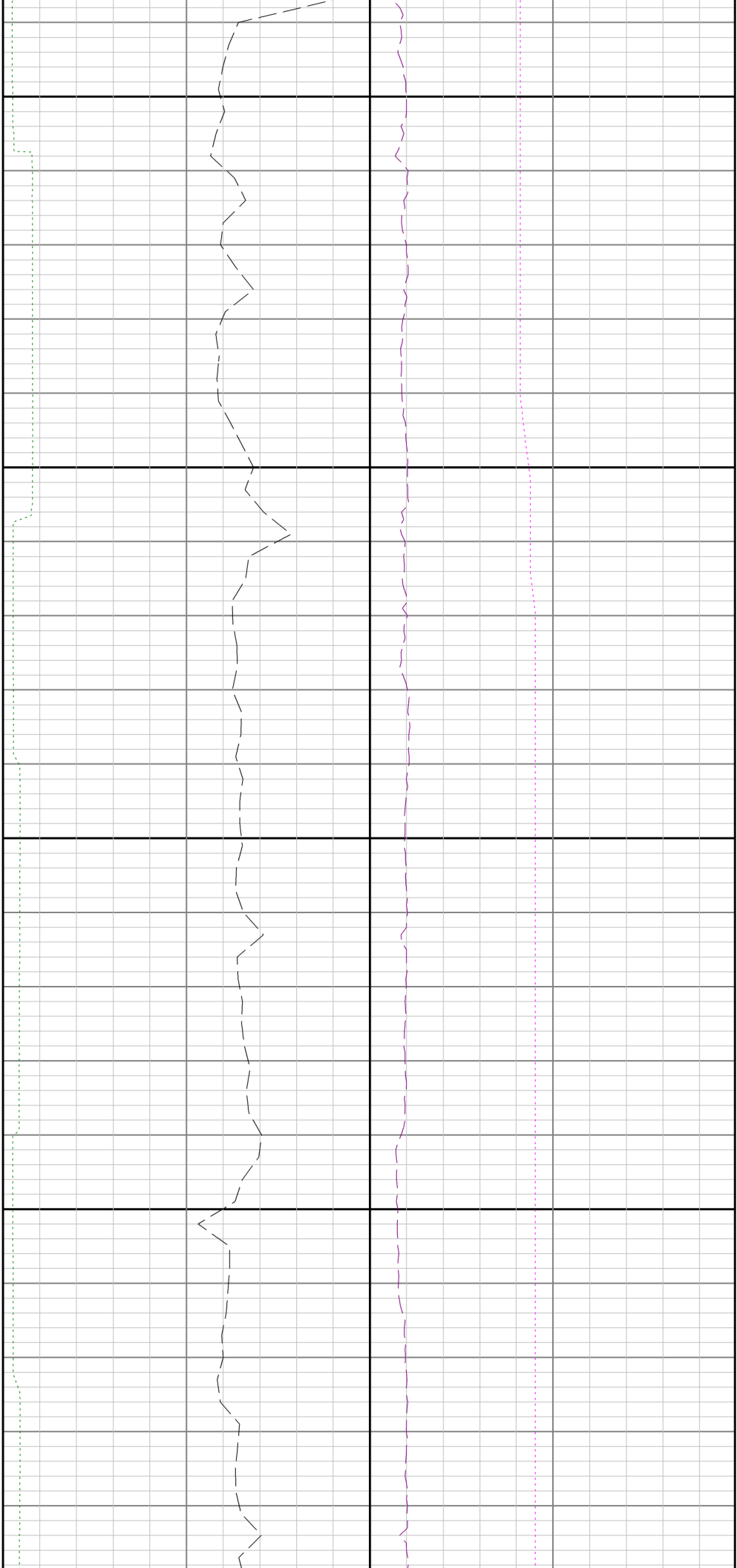


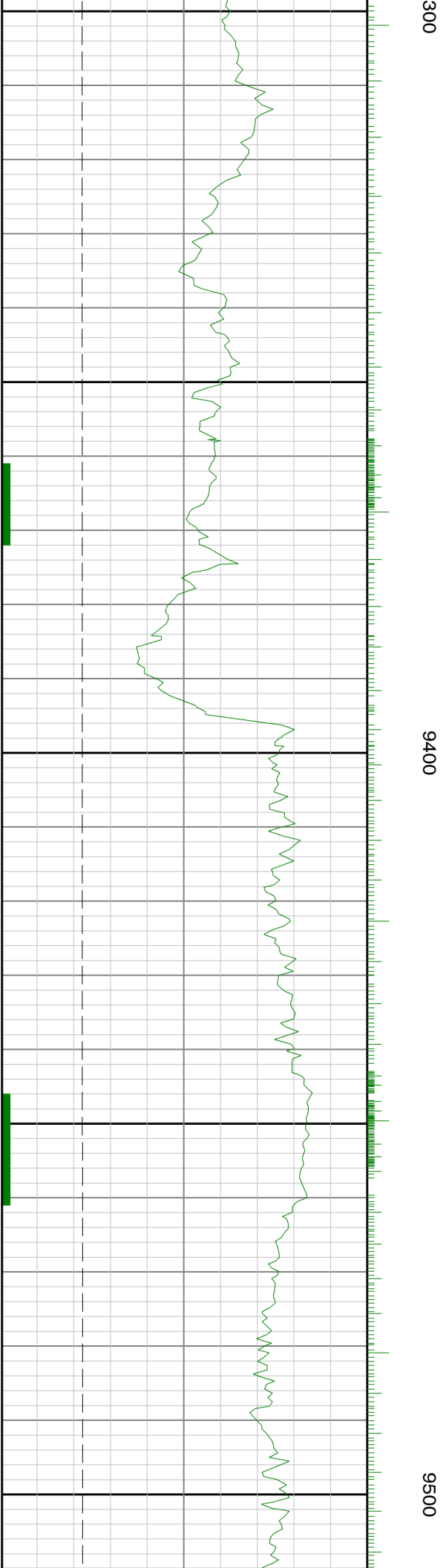
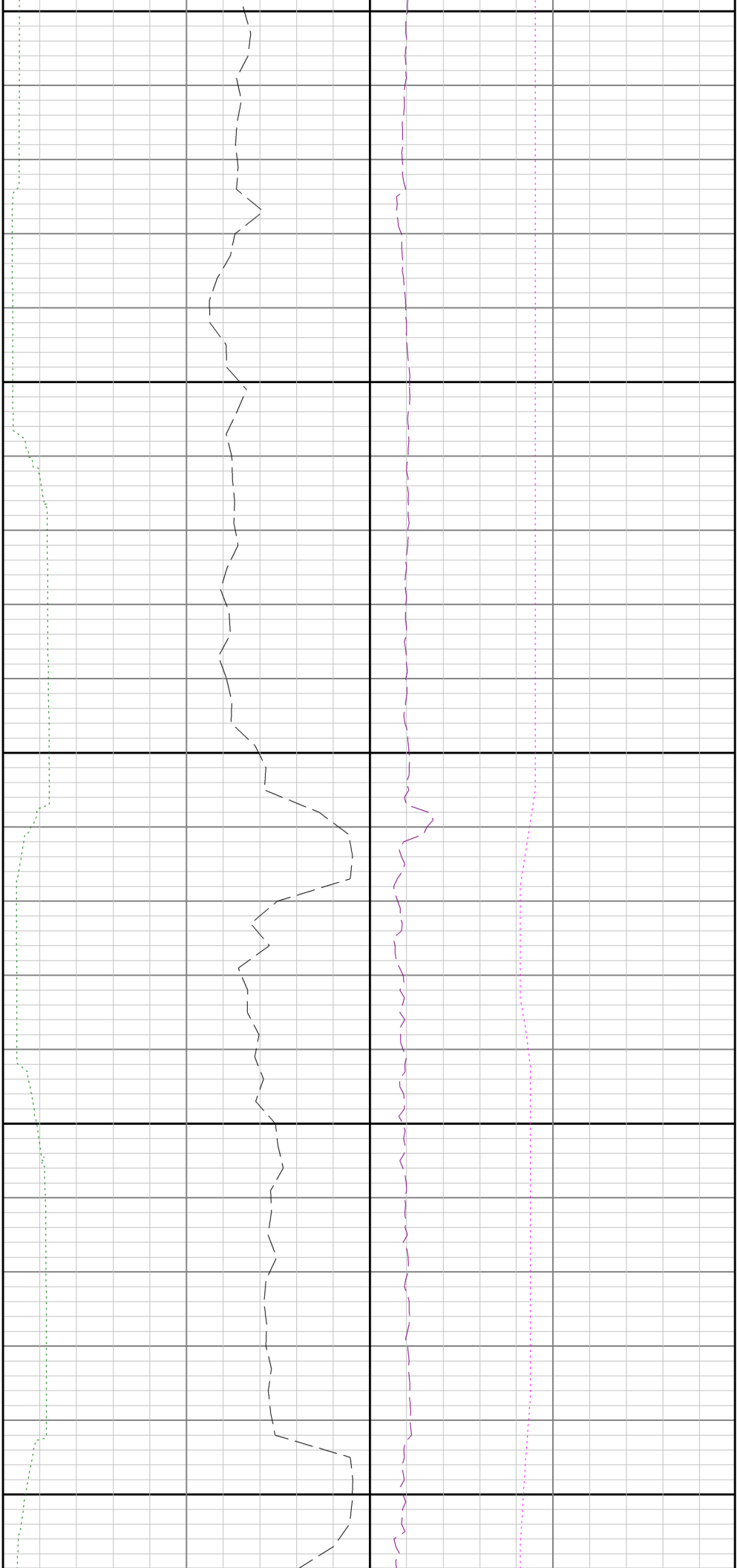


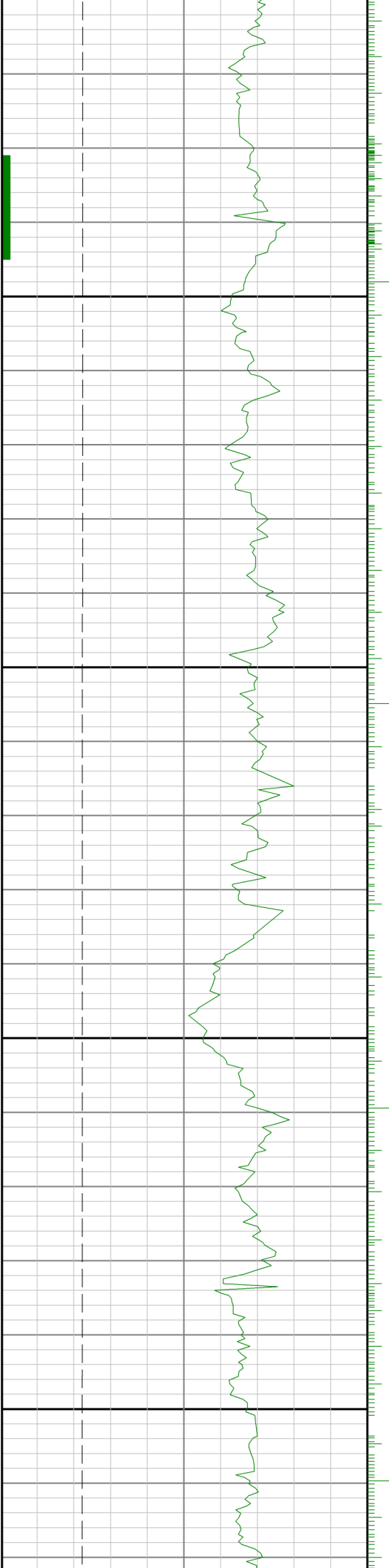
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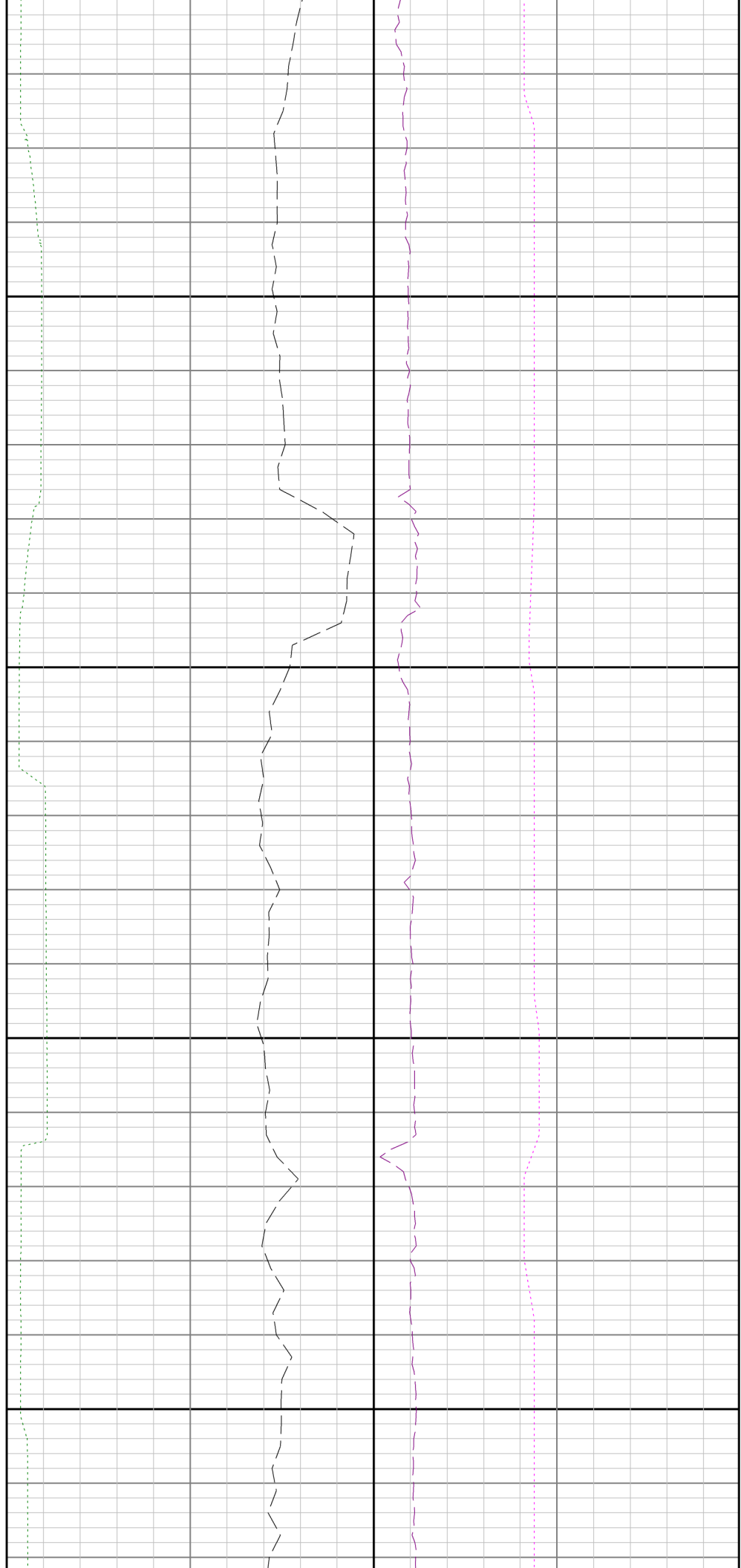


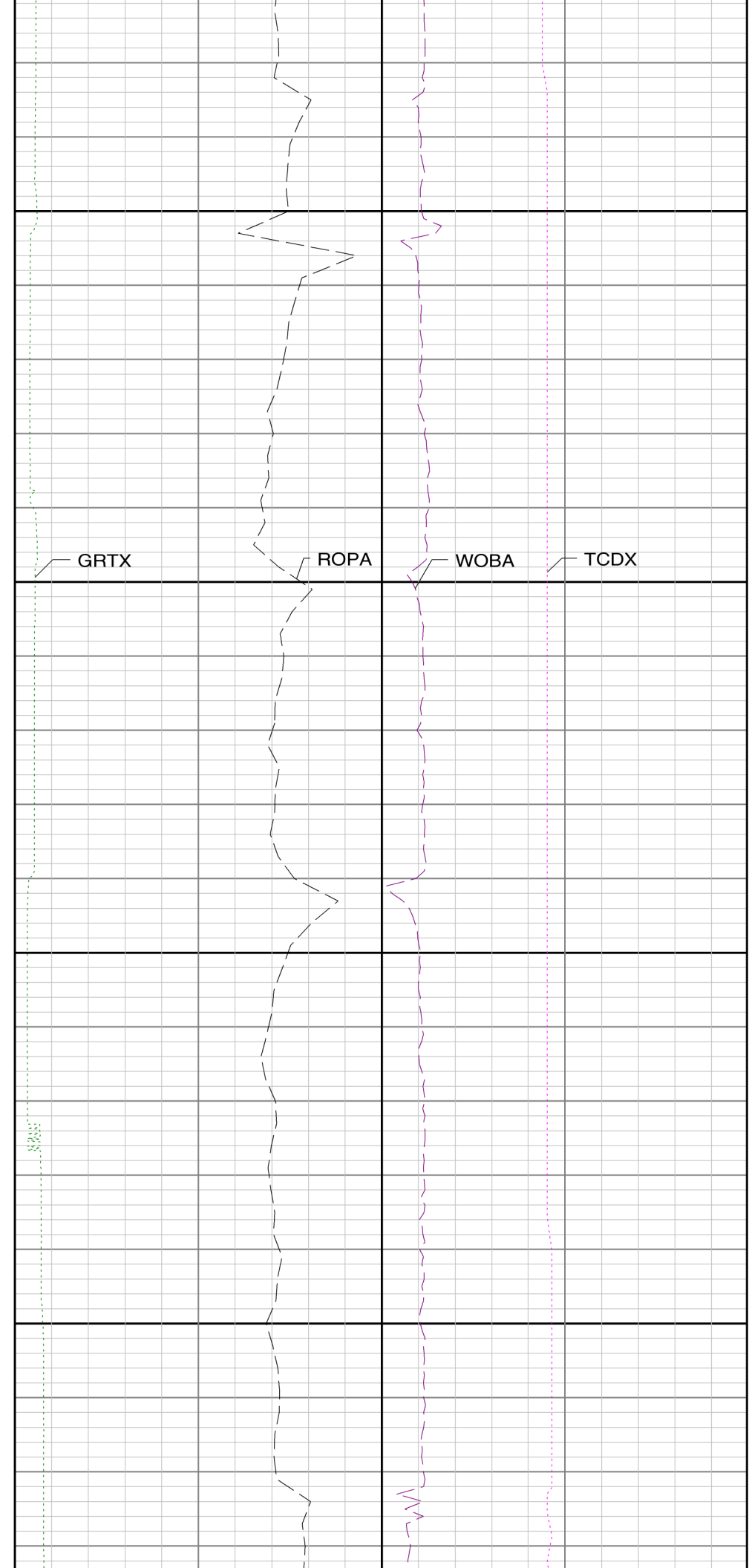
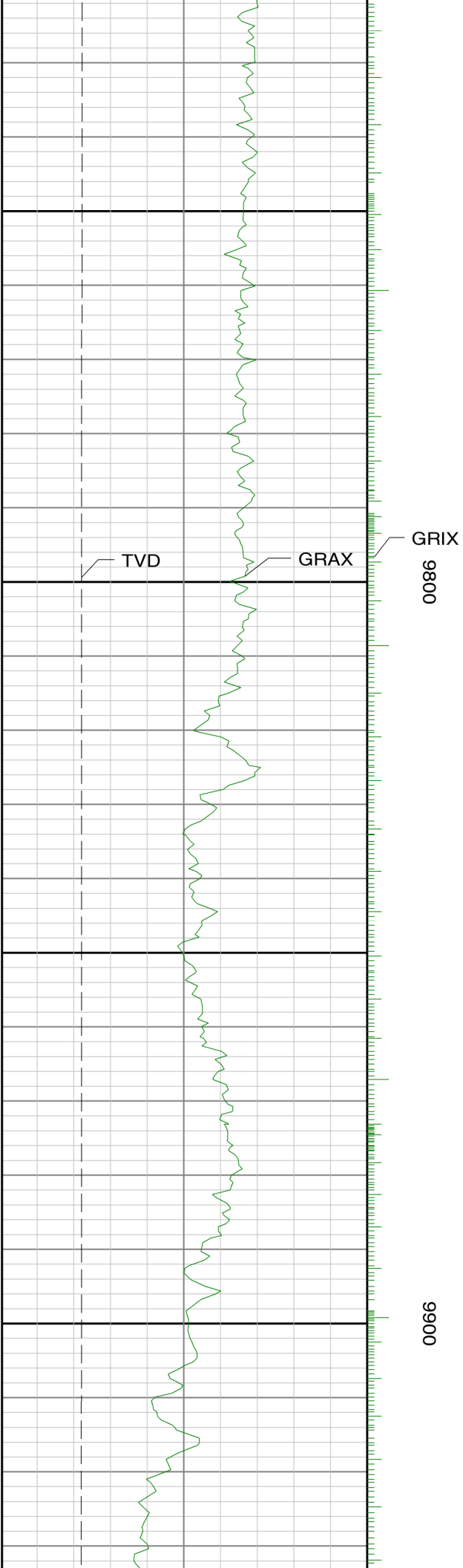


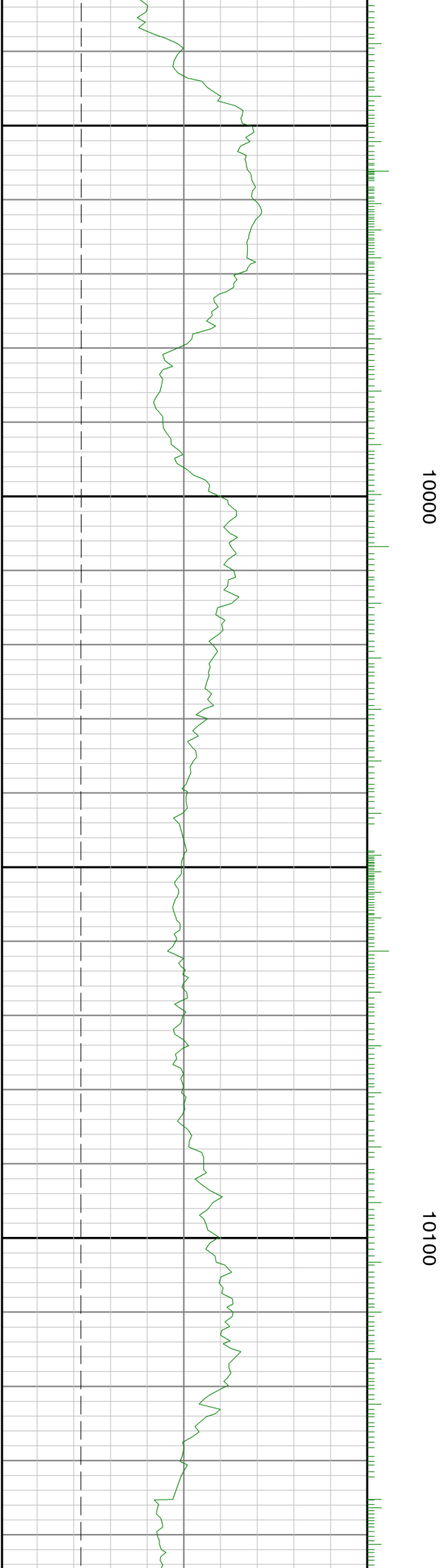
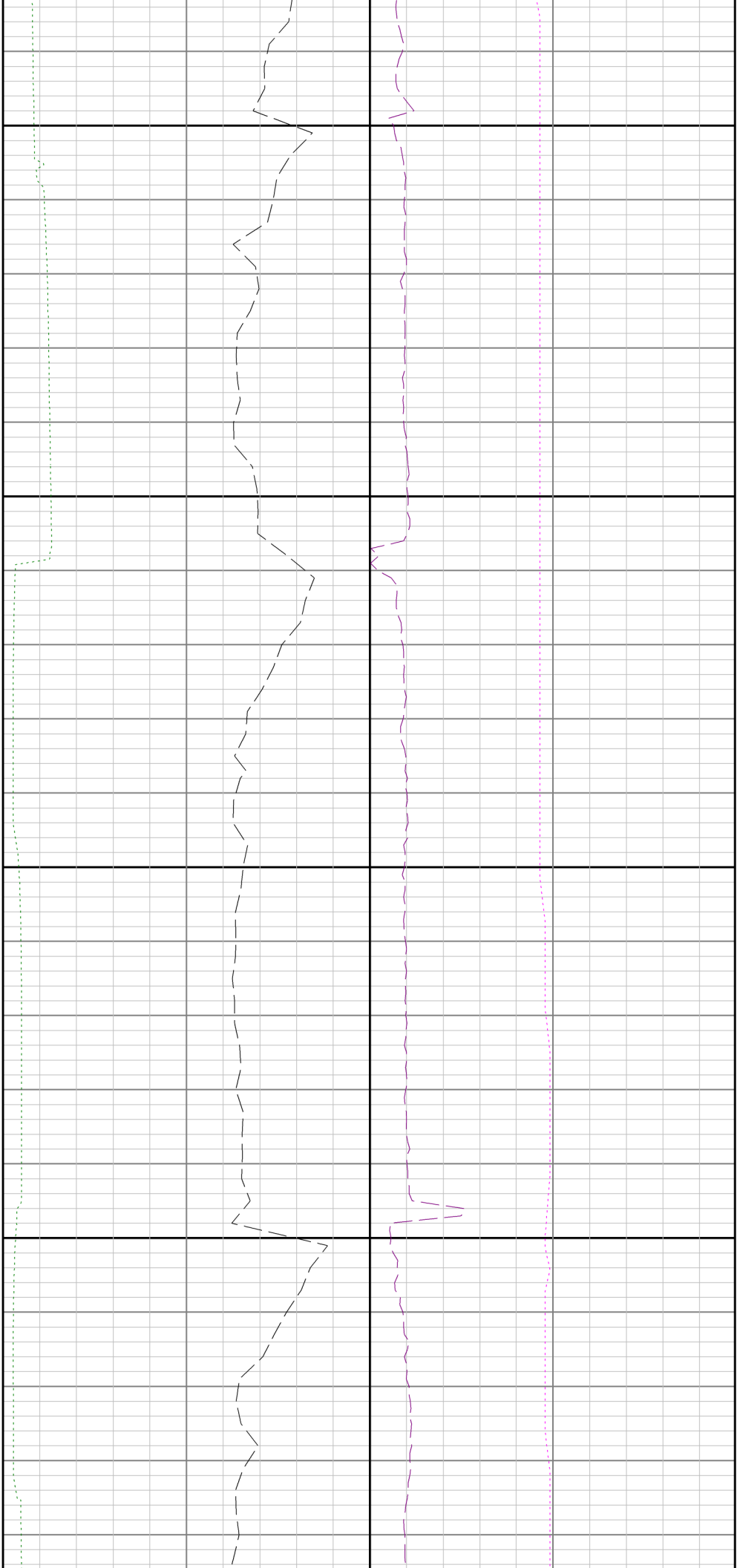


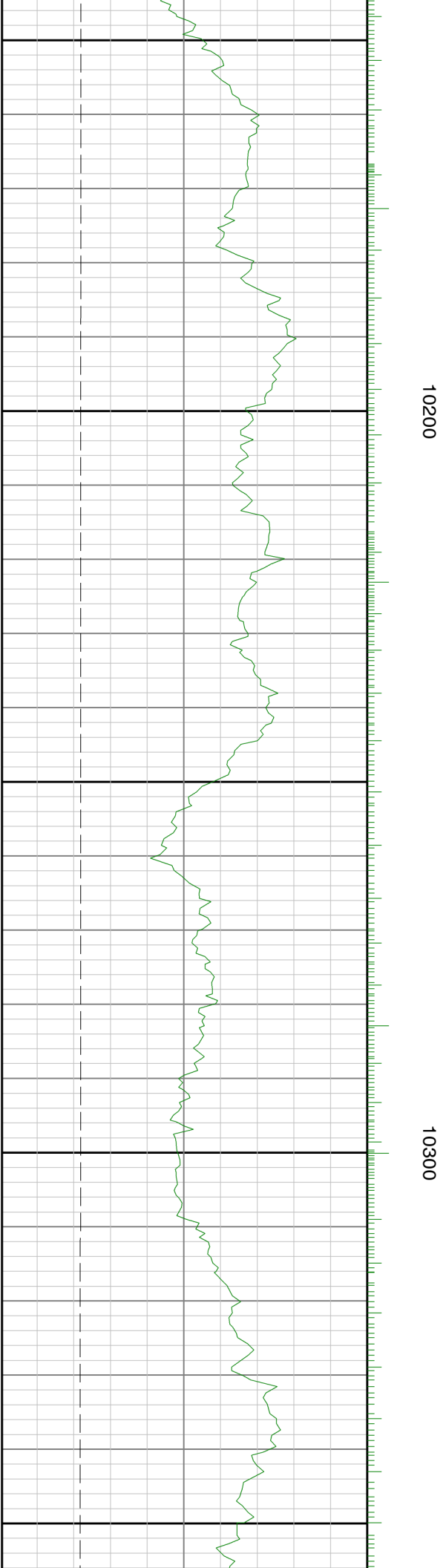
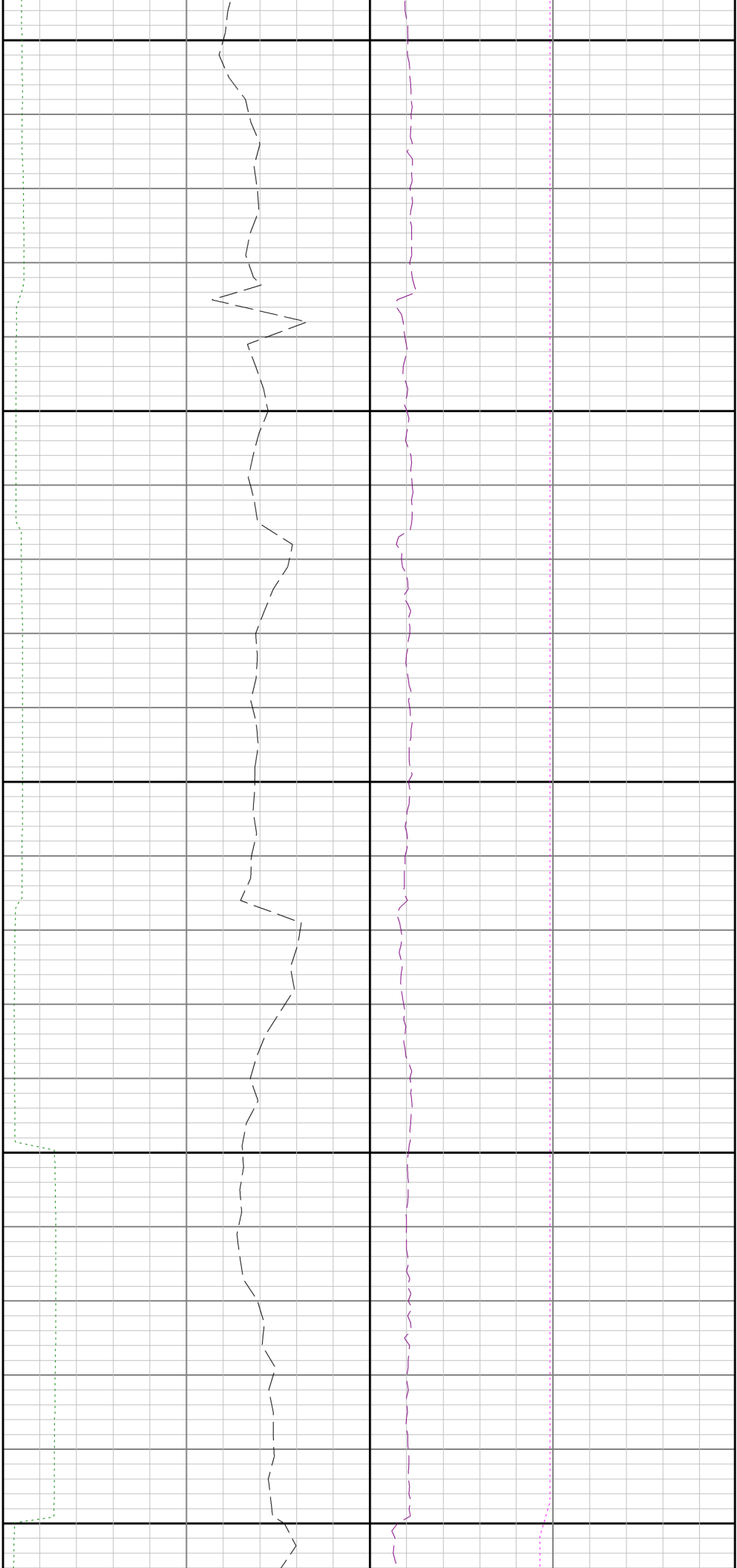
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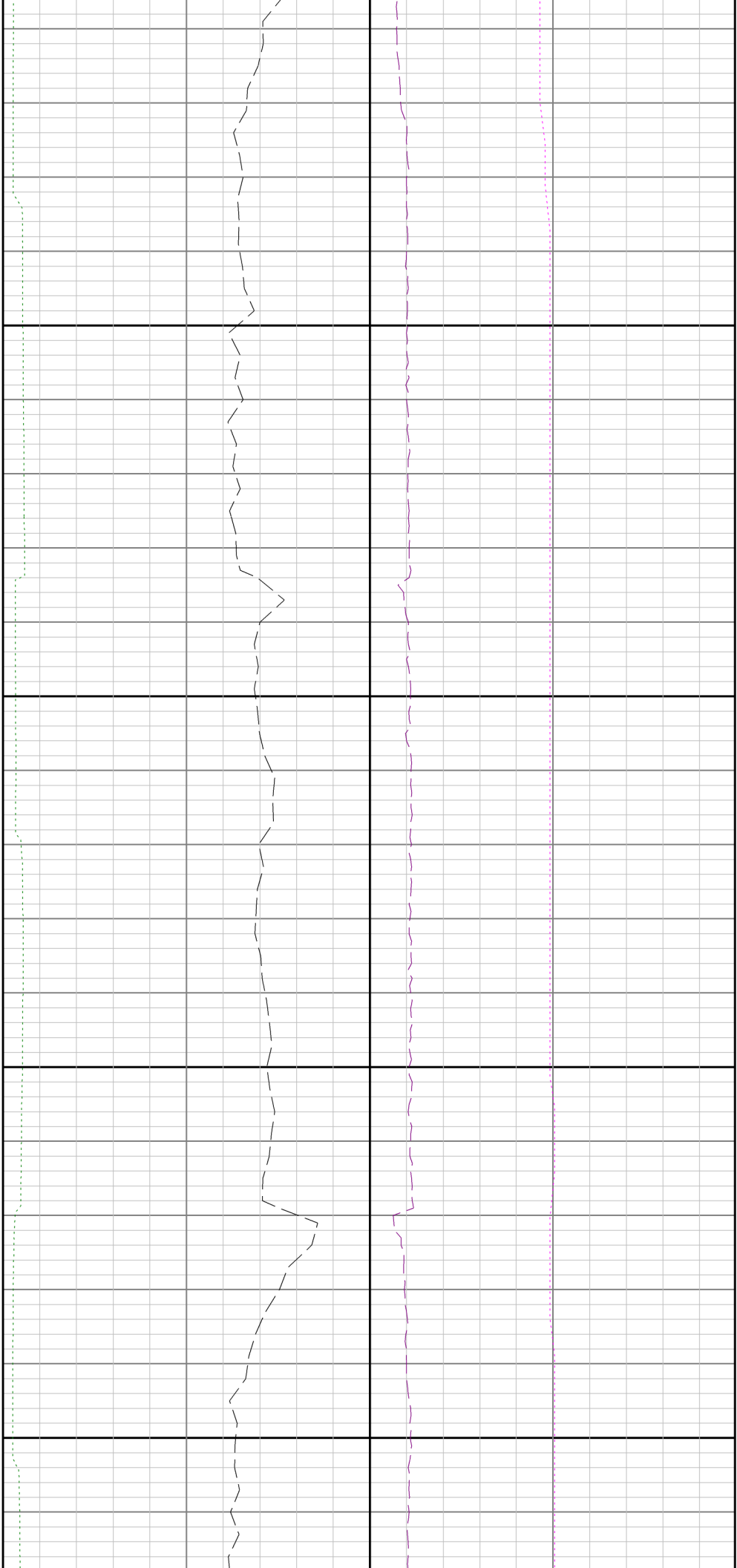






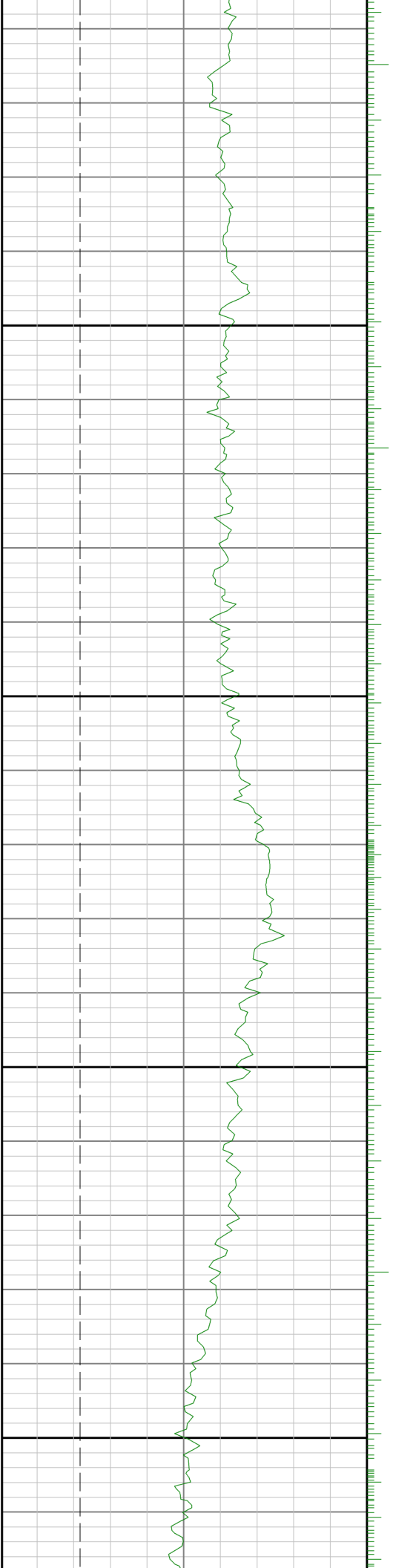


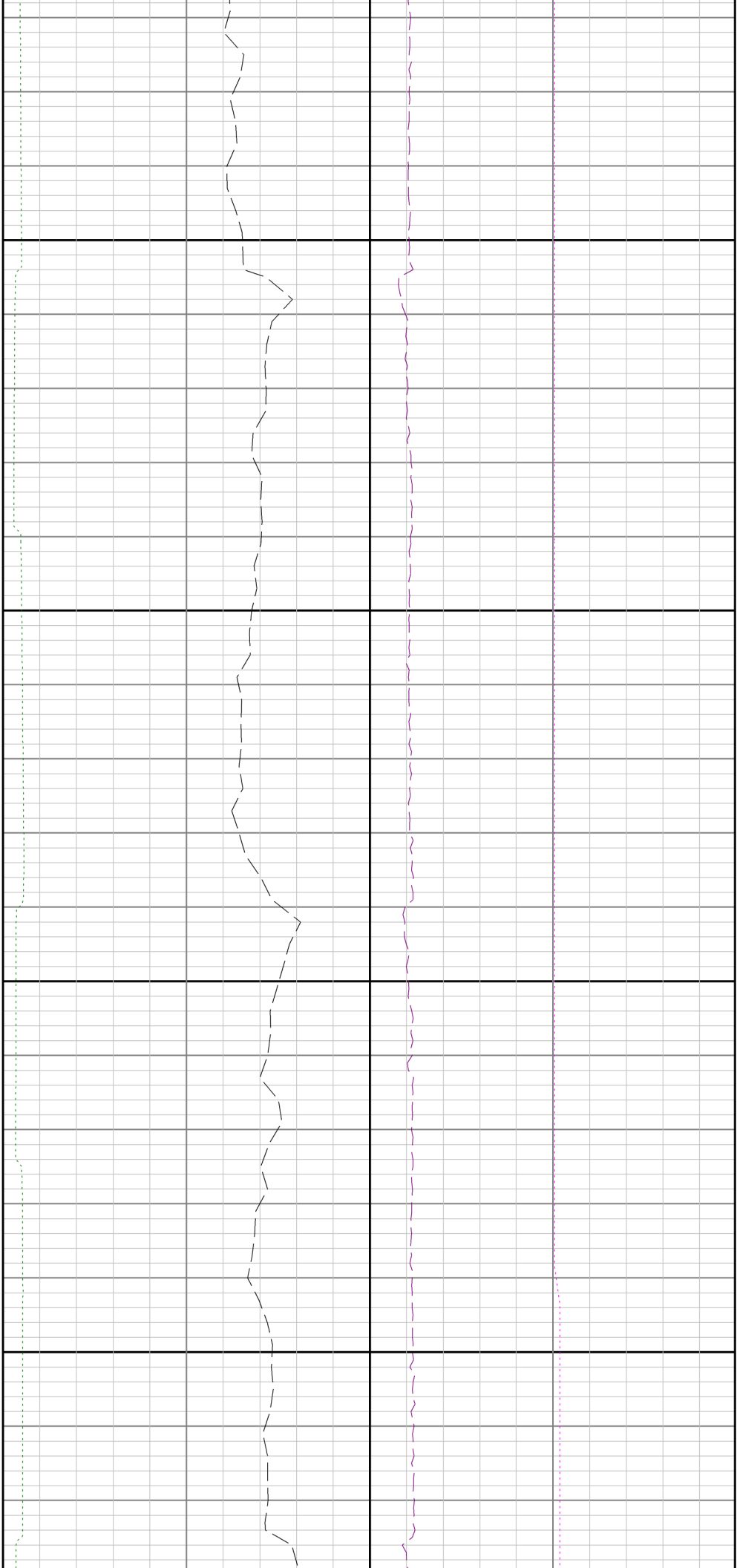




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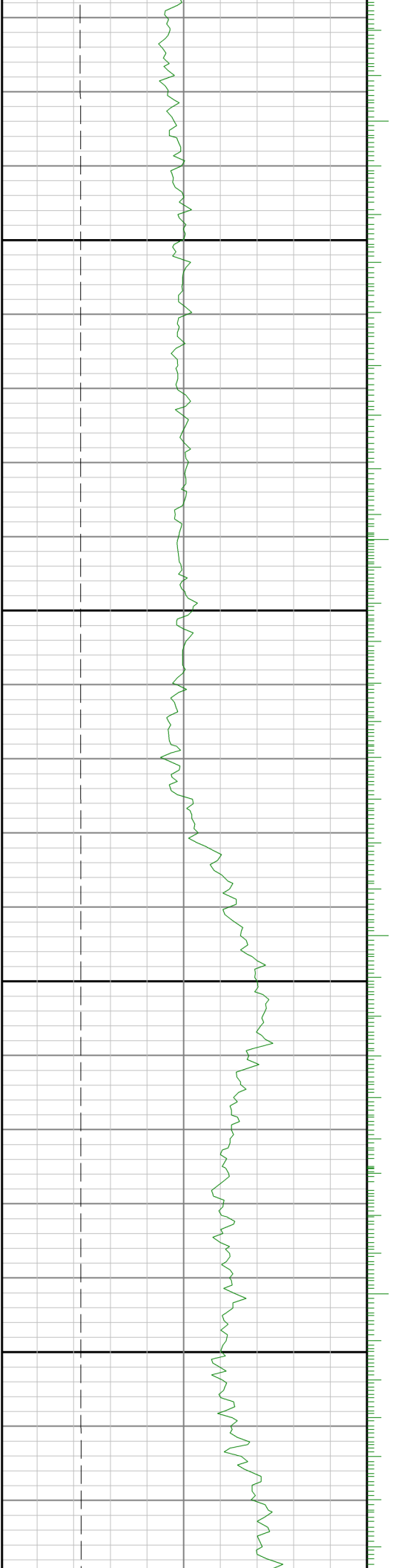
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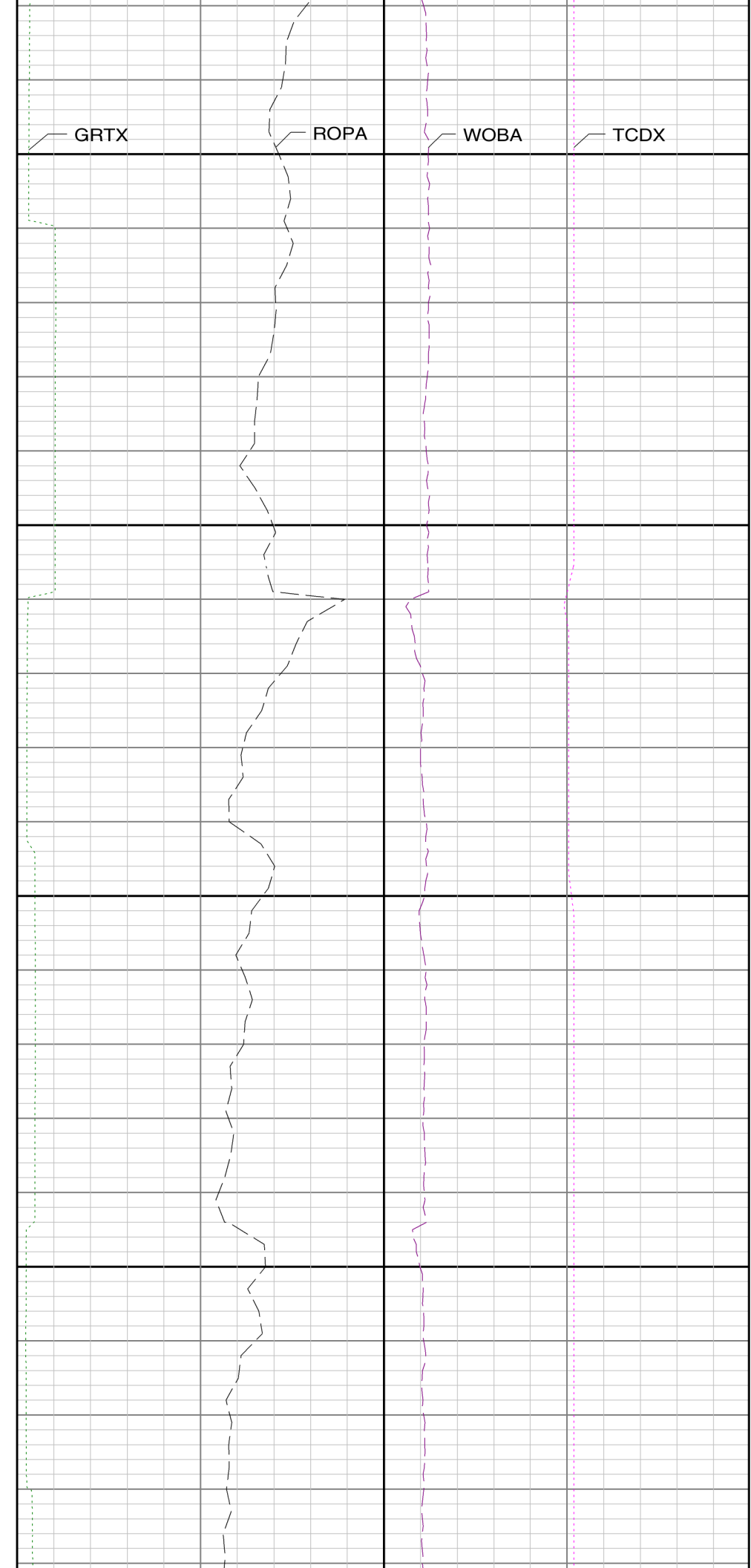
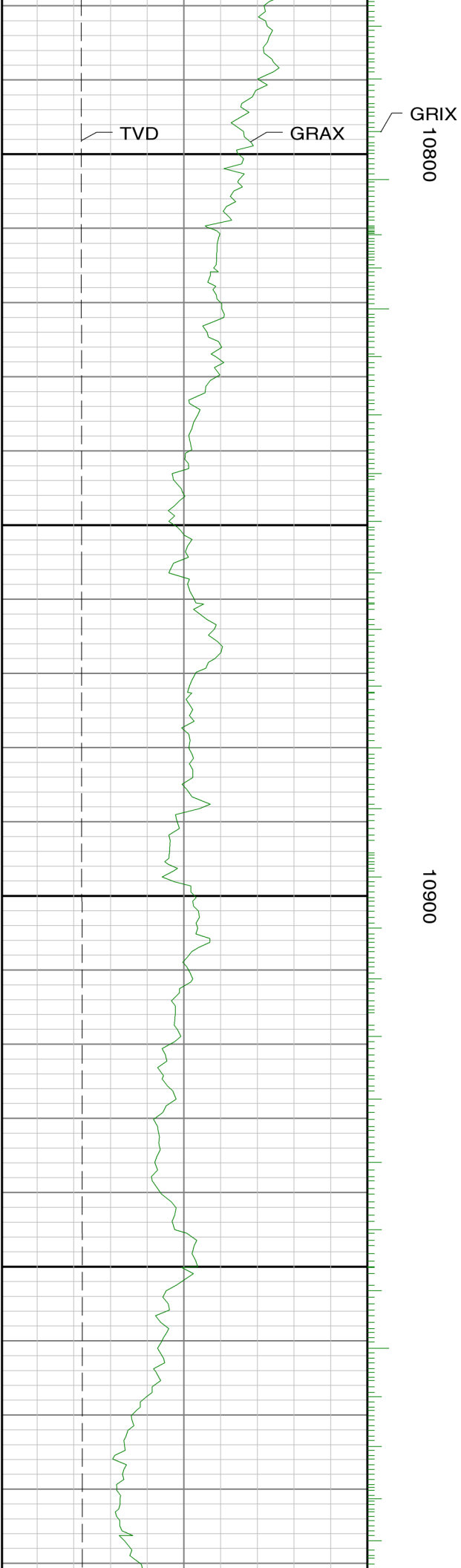


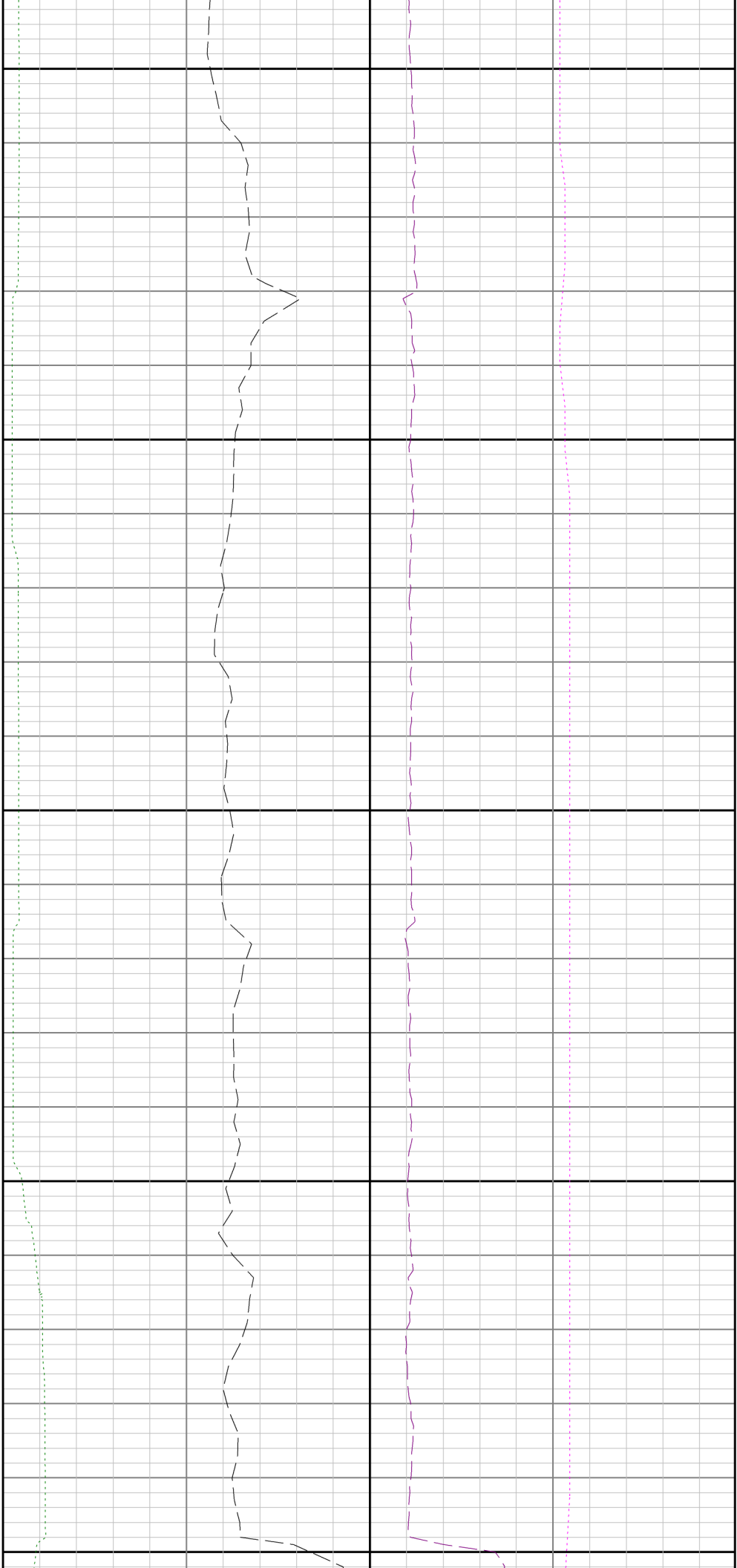


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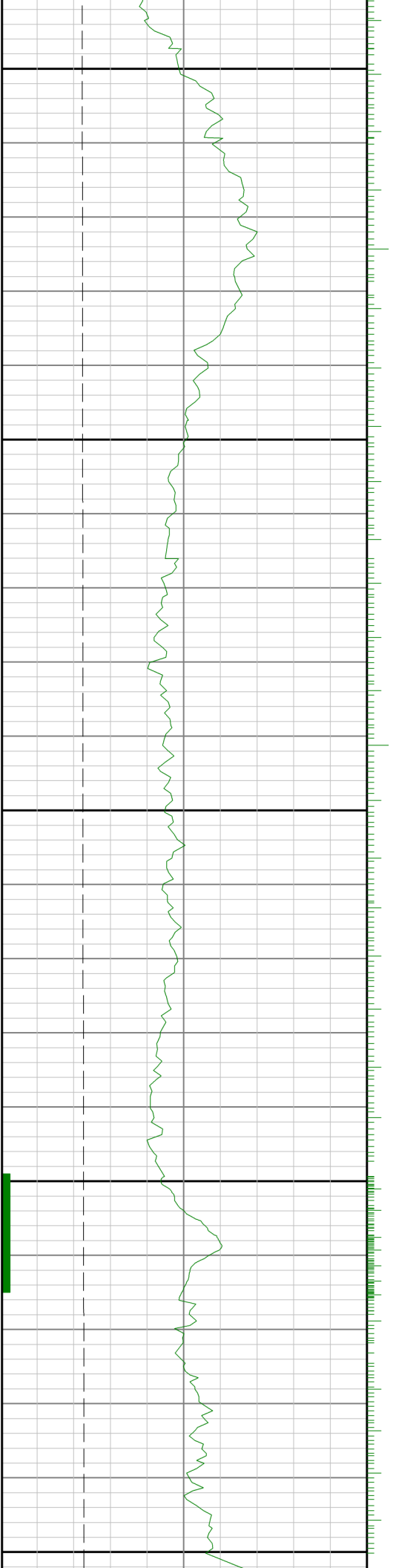


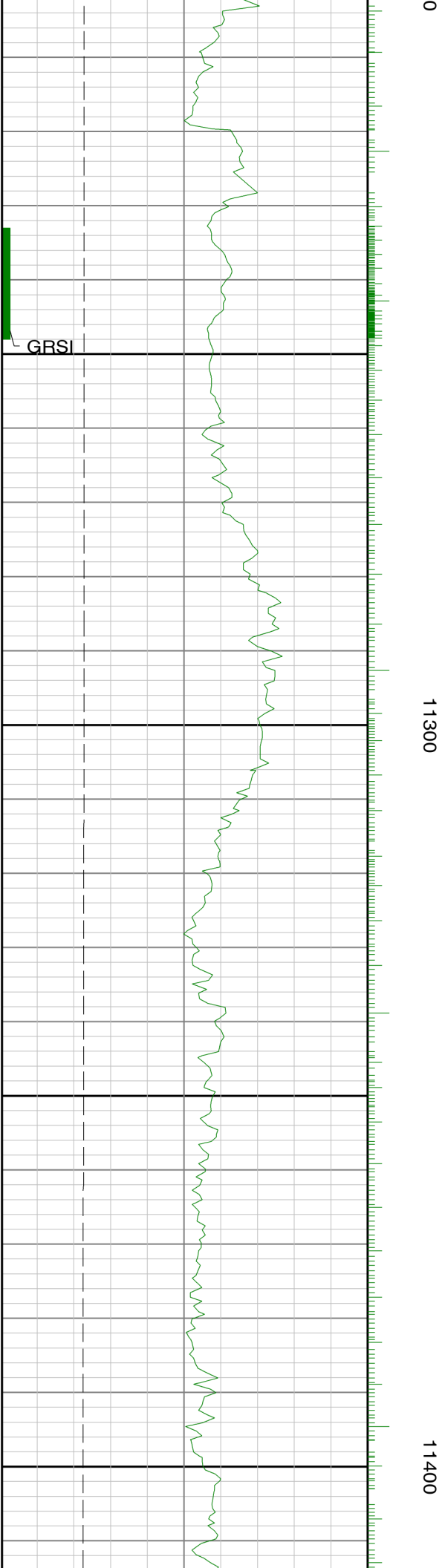
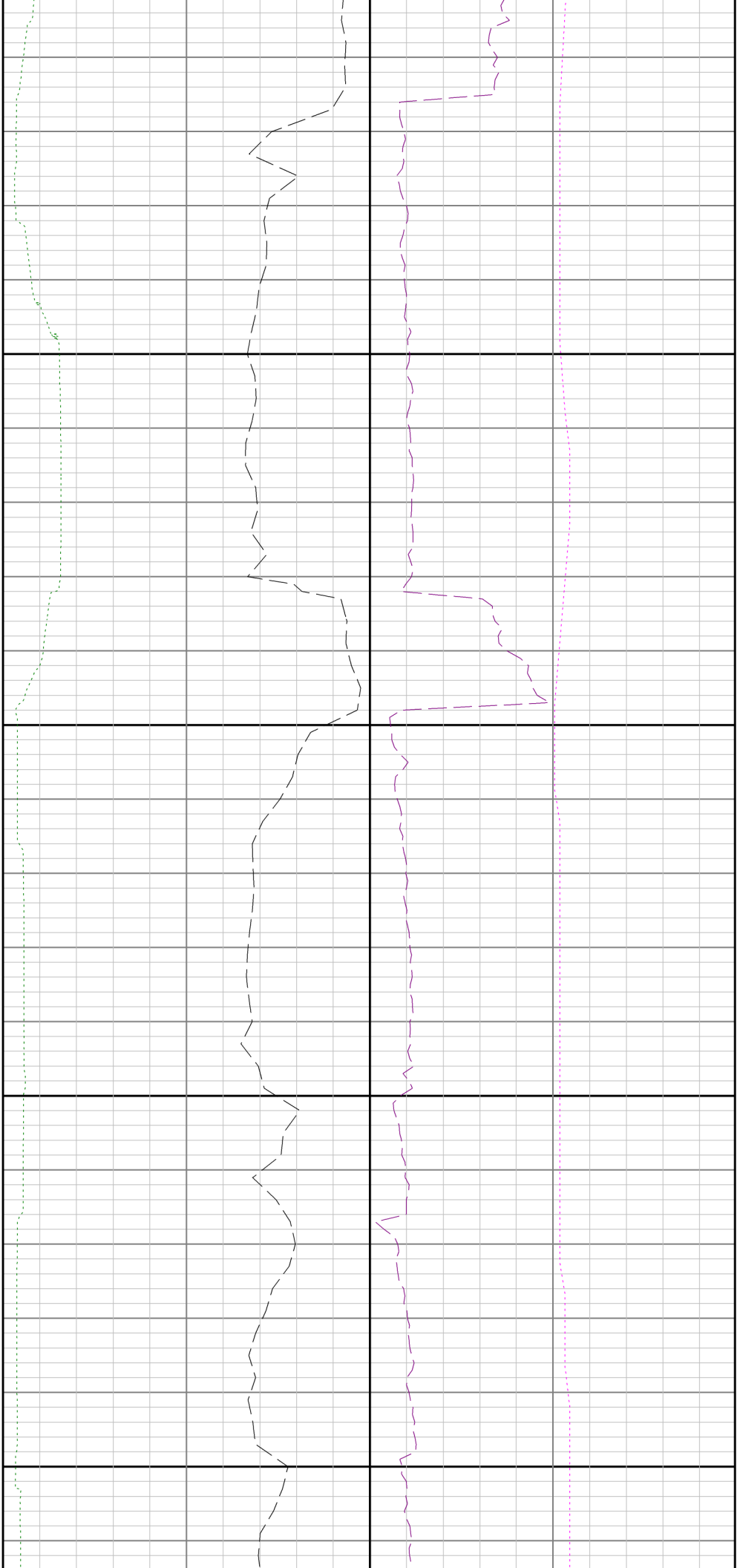


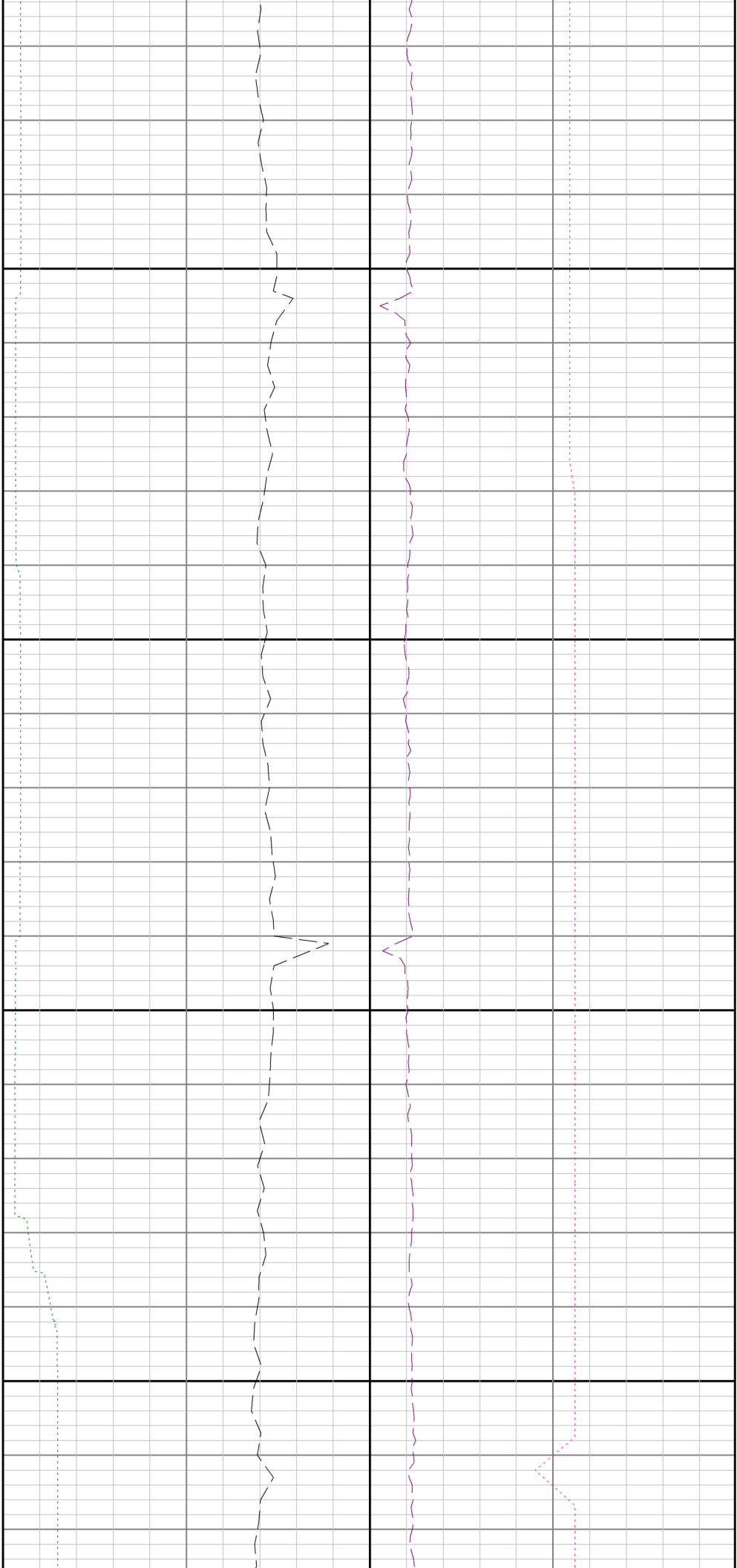
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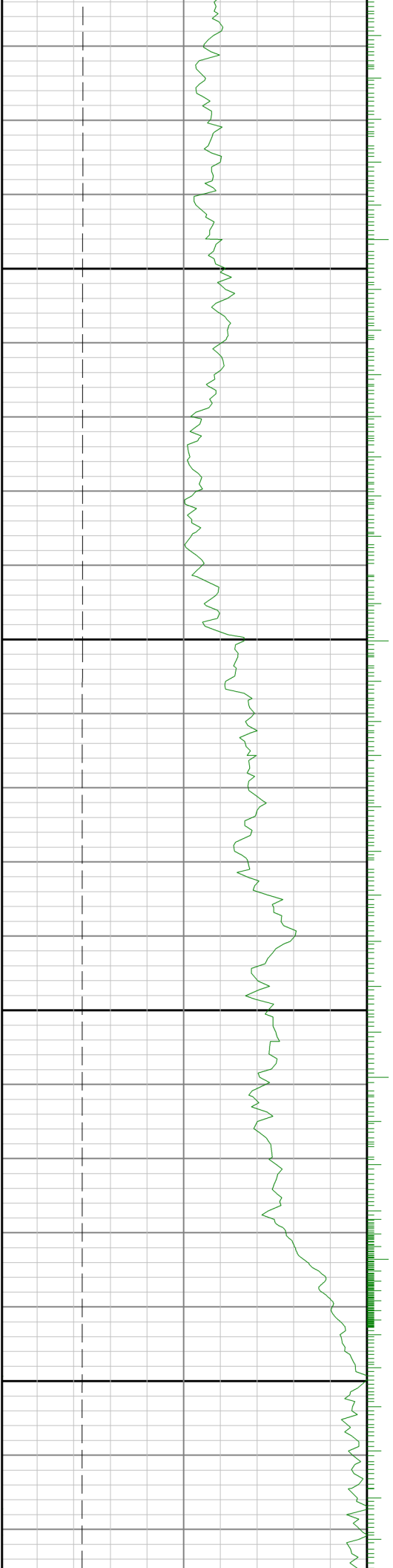


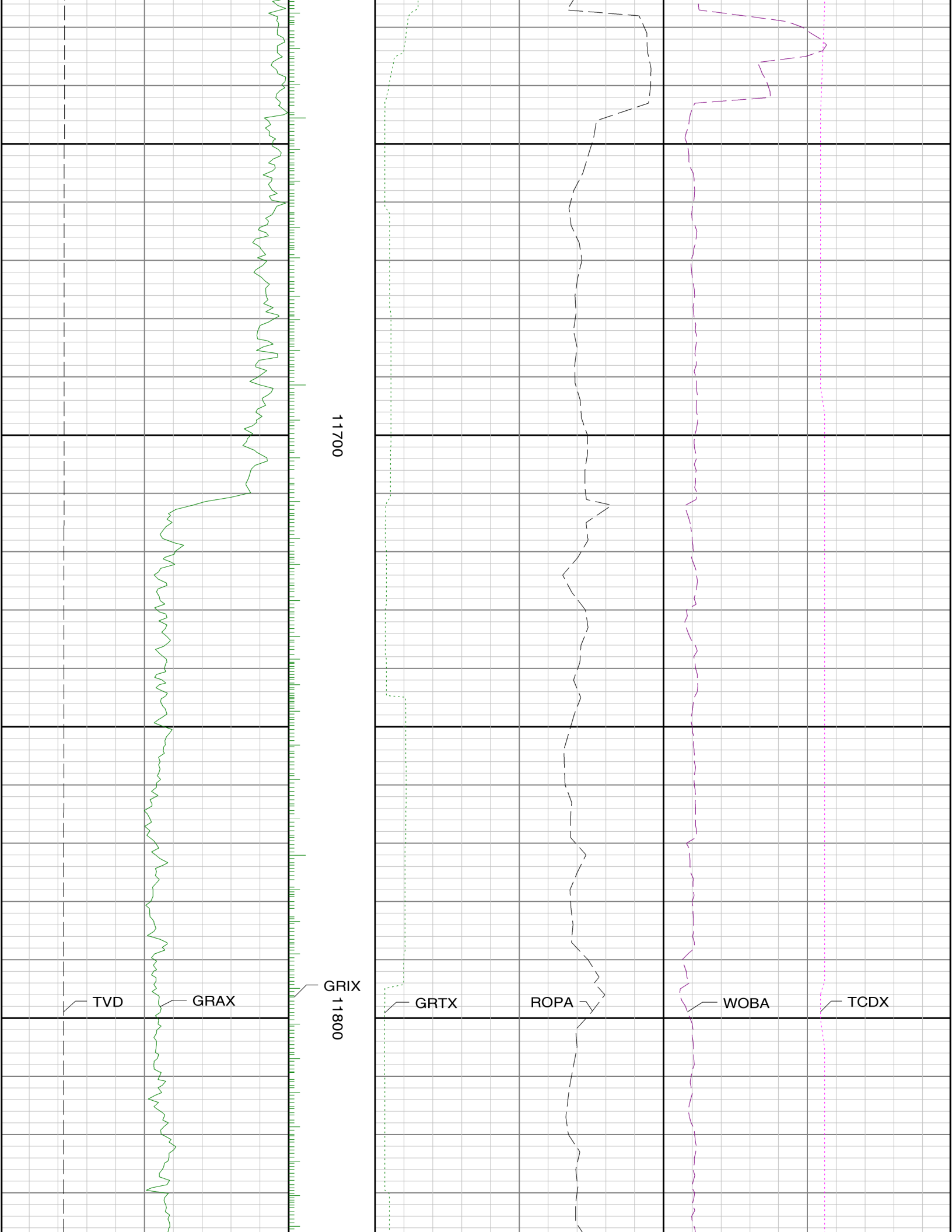


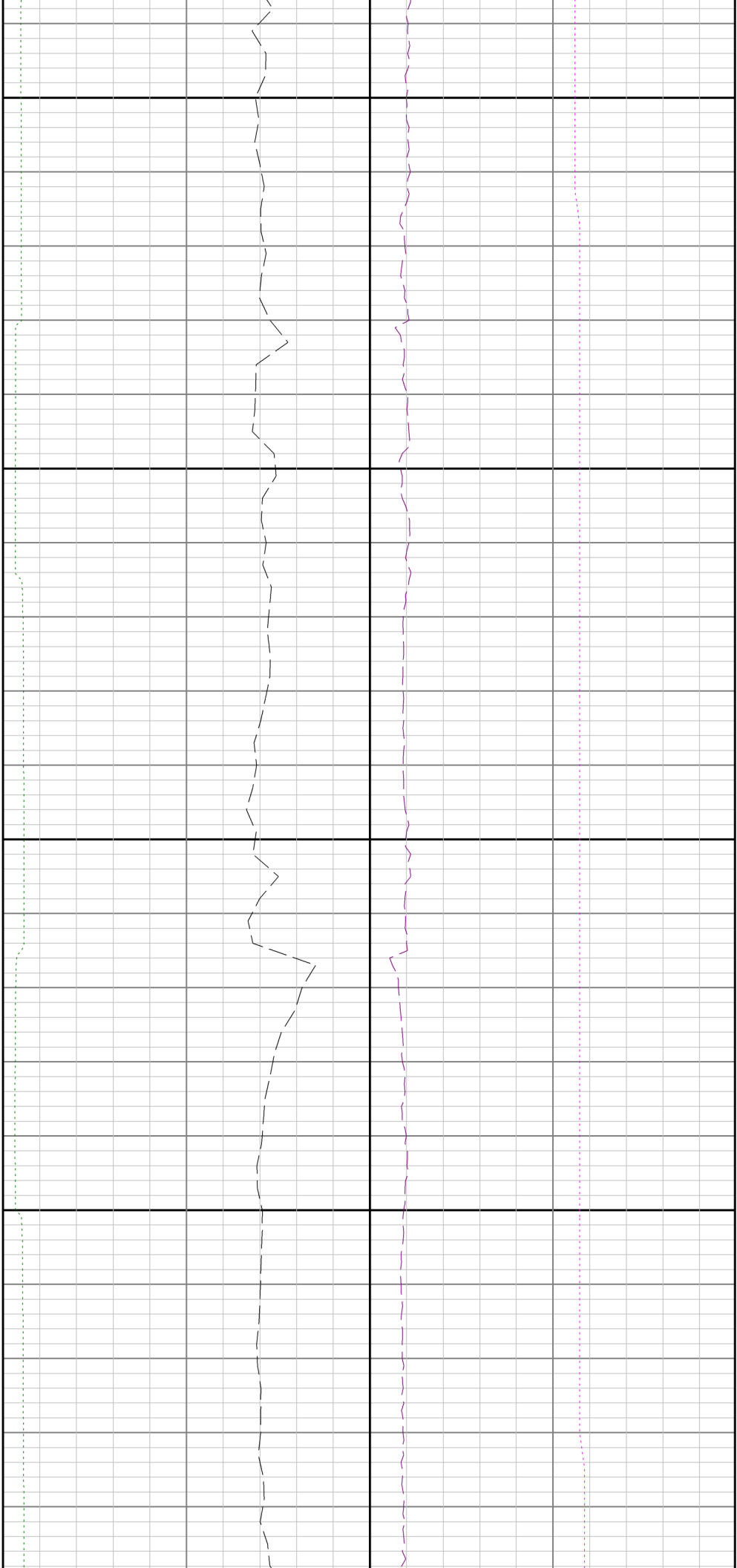


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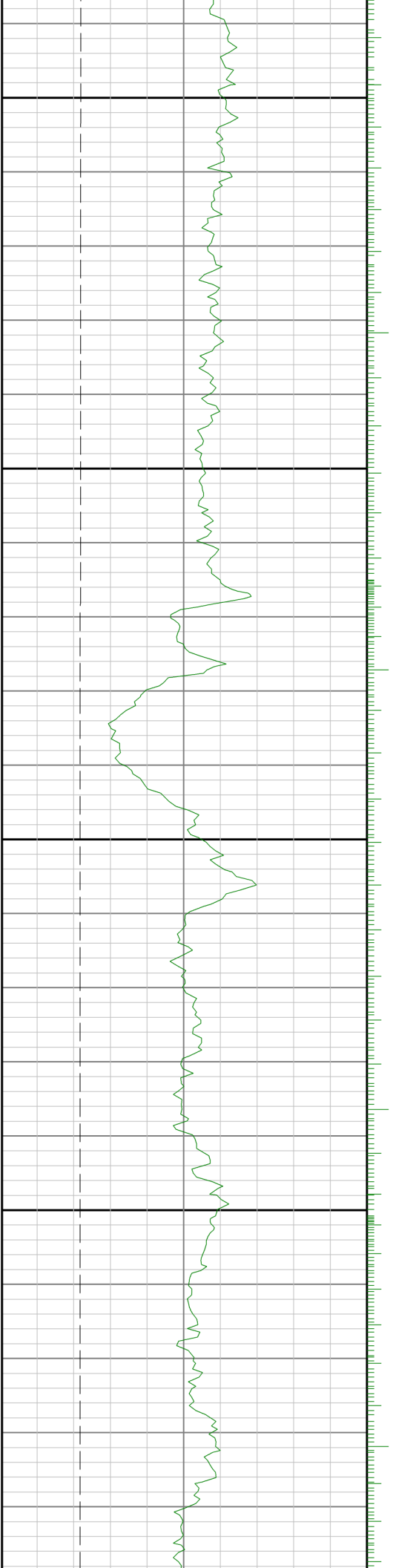




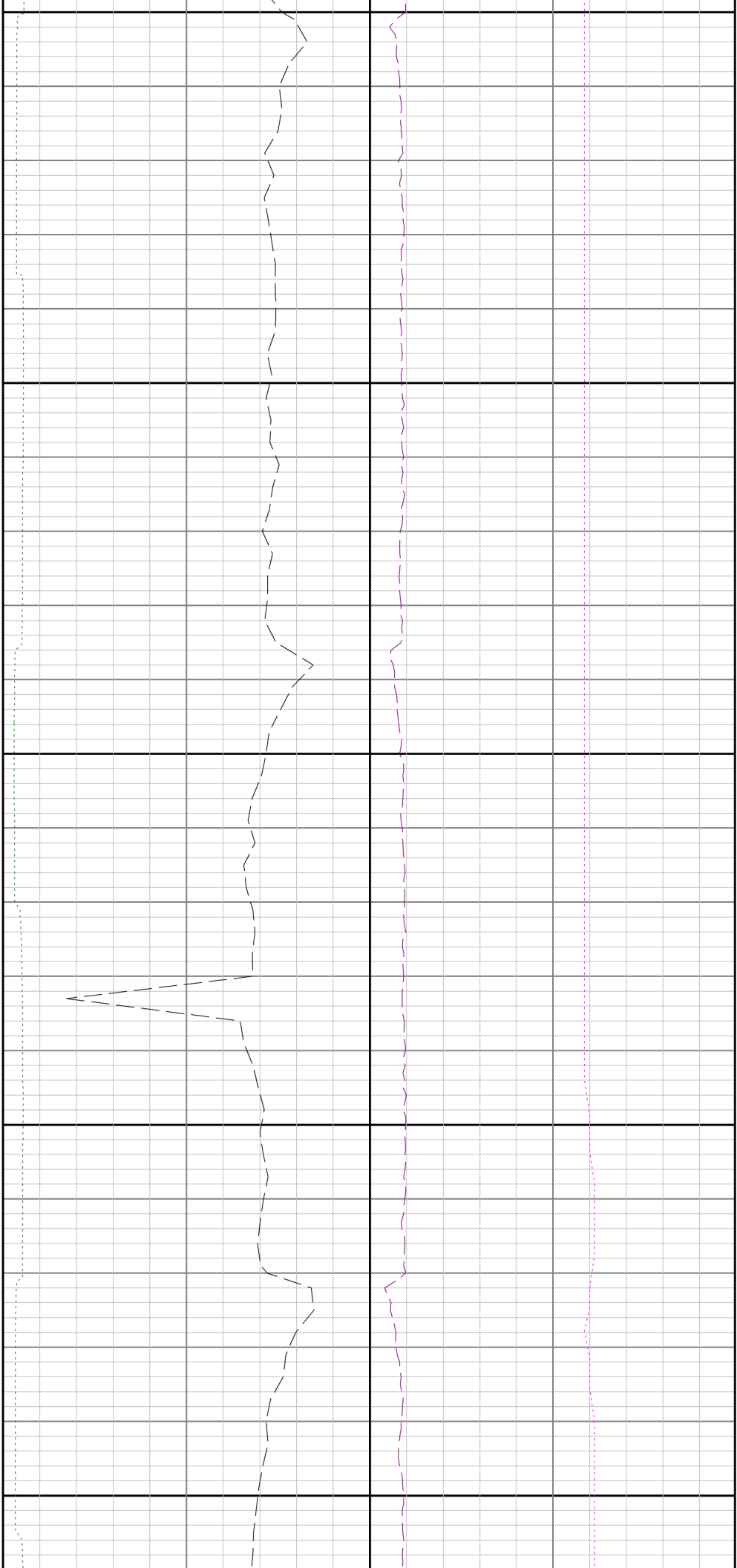


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