



Gamma Ray

LWD MEMORY LOG

Scale: Company: Noble Energy

1:240 Well: Reveille A34-768

True Vertical Depth Field: Wattenberg

Depth Reference: County: Weld Country: United States

Driller's Depth State: Colorado

Status: Surface Location: 40° 26' 13.020" N Other Services:

Final Print Latitude: 104° 32' 25.188" W

API No: 05-123-50792-00 Longitude: Directional

Job ID: 110727930 SEC: 34 TVMN: 6N RGE: 64W

Permanent Datum (P.D.): Mean Sea Level Elevation: 0.00 ft Elev. KB: N/A

Log Measured From: Rig Floor Above P.D.: 4661.00 ft Elev. DF: 4661.00 ft

Dates Interval Magnetic Field Reference

From: 2021-02-07	Drilled (ft)	Logged (ft)	Azi Reference North:	Grid	Dip Angle: (deg)	66.81
To: 2021-02-10	Top: 1956.00	Top: 1956.00	Total Magnetic Field Strength: (nT)			51961
Spud: 2021-02-06	Bottom: 17016.00	Bottom: 17003.00	Mag to Reference North Correction: (deg)			7.12

Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	30.00	1956.00	9.625	36.00	30.00	1946.00
8.500	1956.00	17016.00				

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
Oil Based Mud	1956.00	17016.00	8.500	15060.00	1.11 215.75	90.12 359.40

Acquisition System Software Version Other

Cadence RT 5.8 Rig: H&P 517
Plot Studio 5.8.9018.1 Contractor: Helmerich & Payne Drilling Co
District: RMA Unit: D&E

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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 (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
1	1	8.500	PDC	3.00	AutoTrak Curve	1956.00	17003.00	1956.00	17016.00	2021-02-07 21:04	2021-02-10 00:51	48.65

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
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	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Tien Bui	2021-02-07	2021-02-10						

Mud Properties Record

Date / Time	Run No.	Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2021-02-06 23:12	1	1956.00	Oil Based Mud	9.2	10	N/A	20.0	79.5/20.5	Active Pit	27000	0.00
2021-02-10 09:08	1	11004.00	Oil Based Mud	9.6	13	N/A	20.0	79.5/20.5	Active Pit	24000	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	AutoTrak Curve Steering Unit	14452346	Near Bit Inclination	5.93	6.79	7.000	4.330
1	AutoTrak Curve Steering Unit	14452346	Near Bit VSS	5.93	6.79	7.000	4.330
1	AutoTrak Curve MWD	14705361	Gamma (single)	2.75	12.96	7.000	3.250
1	AutoTrak Curve MWD	14705361	Directional (mag)	12.27	22.48	7.000	3.250

Service and Tool Mnemonics

Mnemonic	Name	Description
ATC SU	AutoTrak Curve SU	Auto Trak Curve Steering Unit
ATC MWD	AutoTrak Curve MWD	Auto Trak Curve MWD
ATC LCPM	AutoTrak Curve LCPM	Auto Trak Curve LCPM
BCPM	BCPM	Bi-Directional Communication and Power Module, OnTrak Platform

Comments

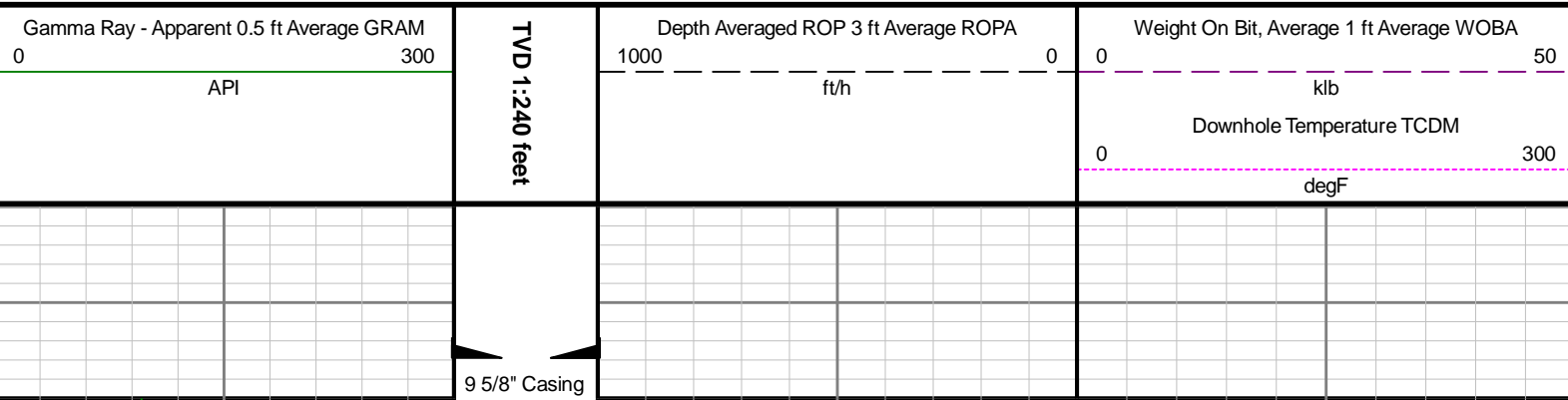
- 1 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
- 2 Baker Hughes LWD Run 1 utilized 6 3/4 inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1956 to 17016 feet MD (1956 to 6746 feet TVD).
- 3 The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.

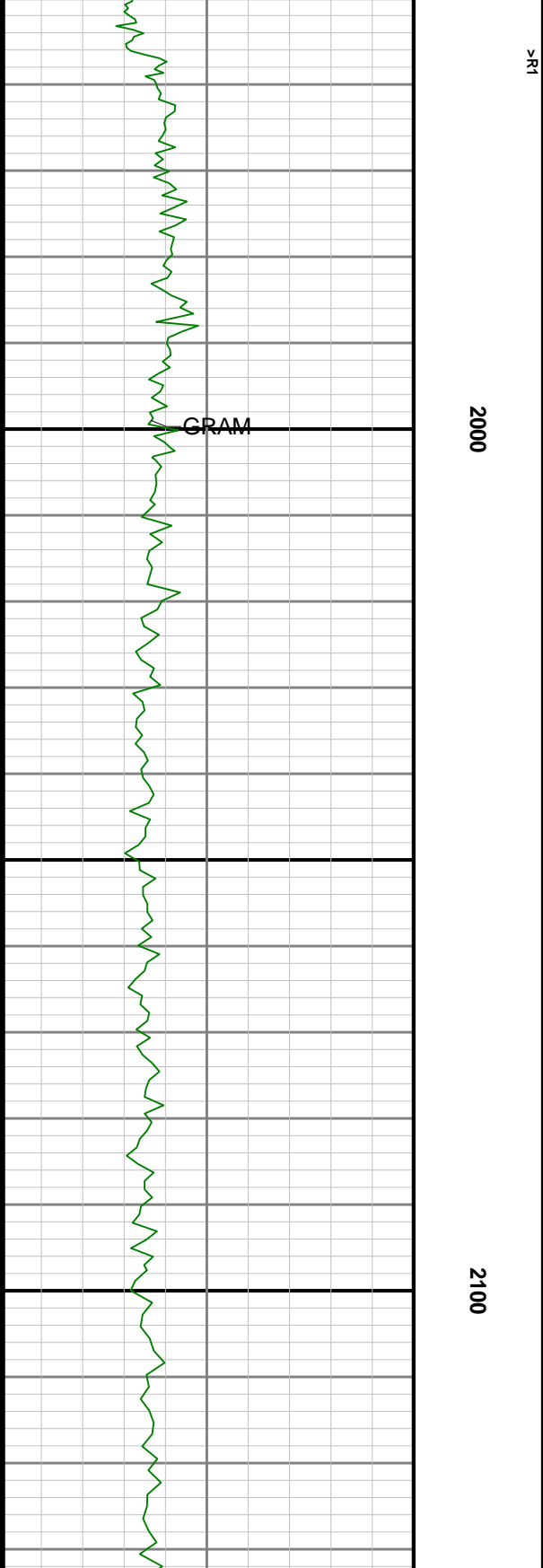
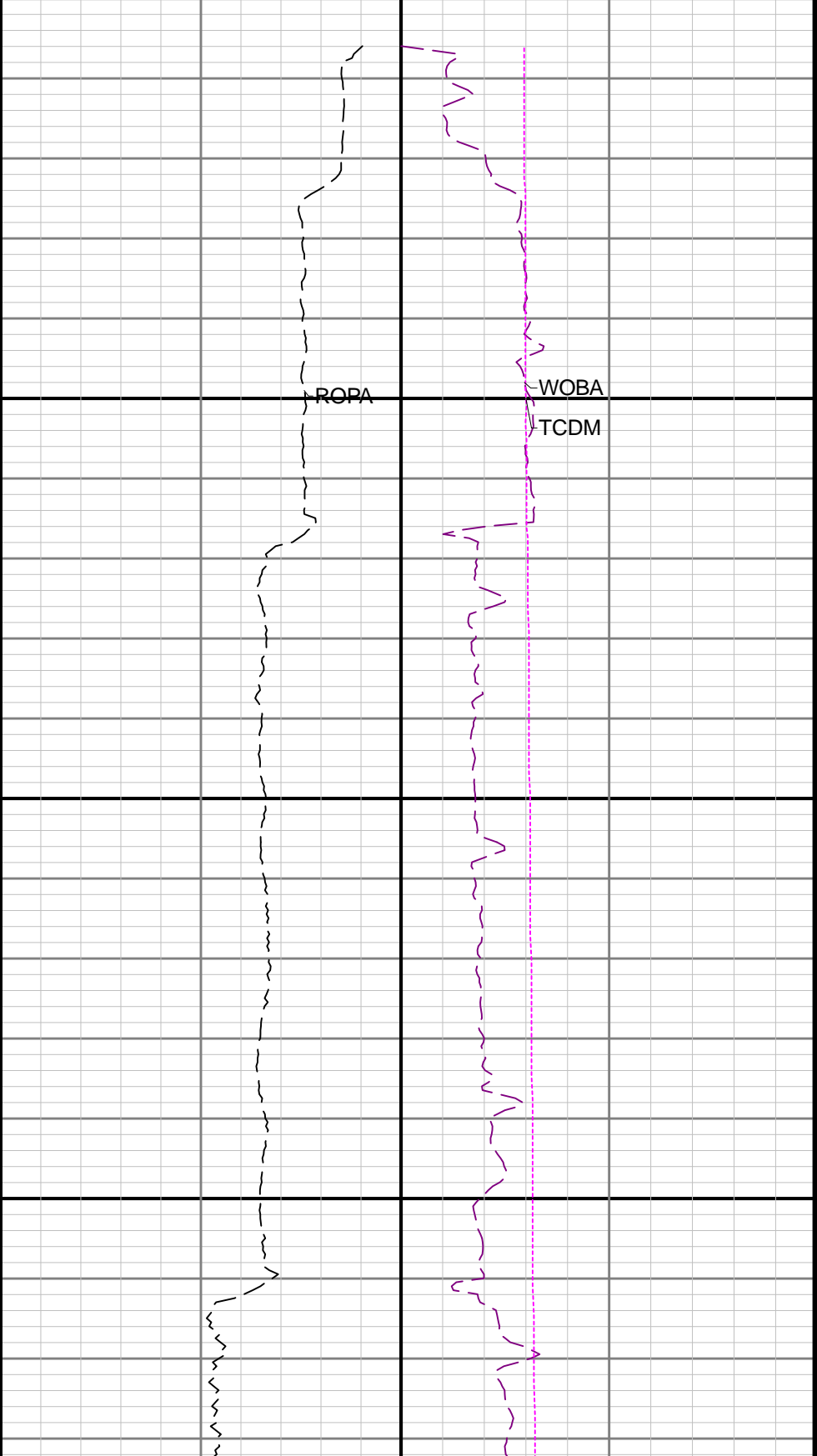
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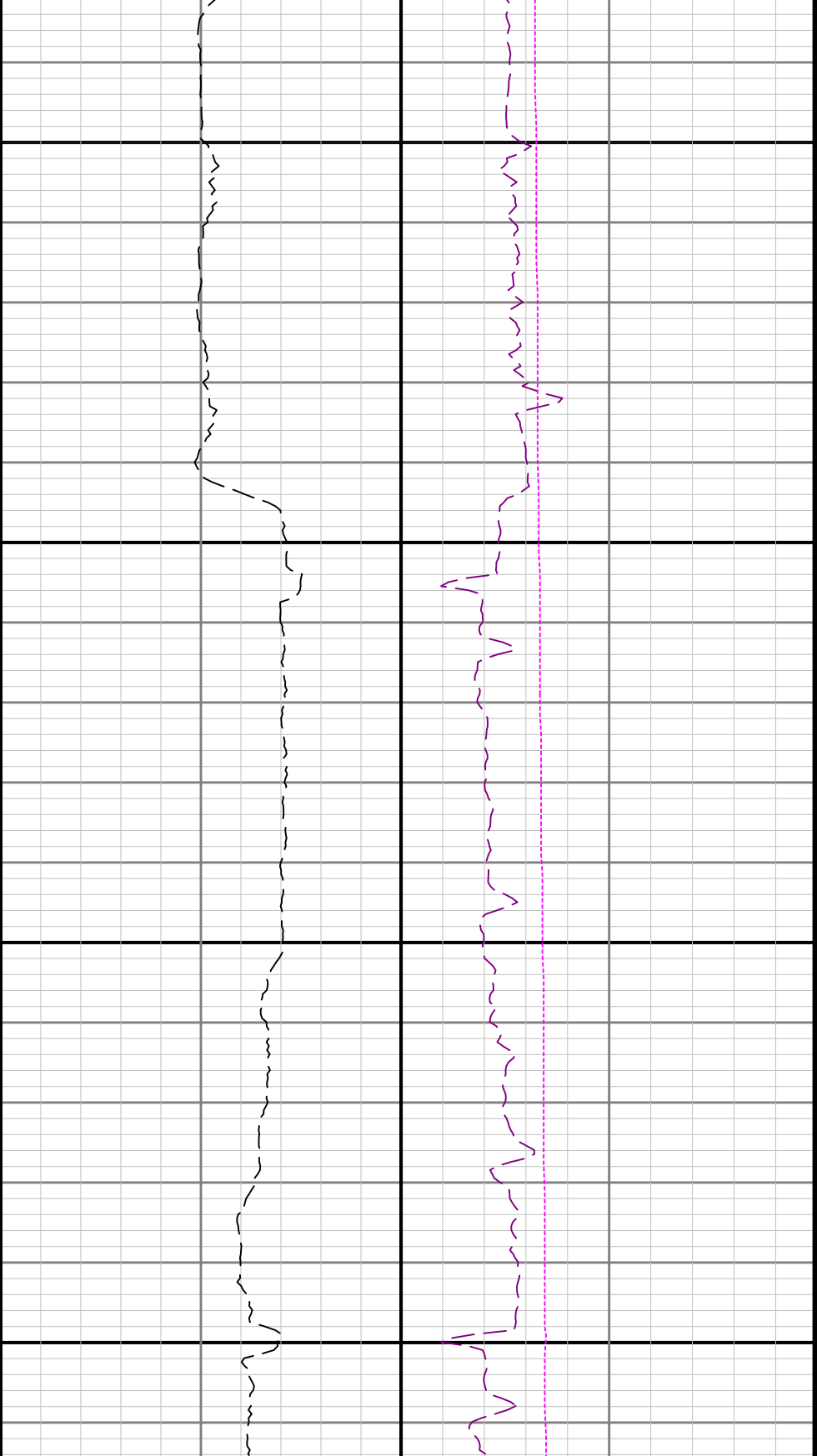
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
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Curve Mnemonics

Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight on Bit - Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF

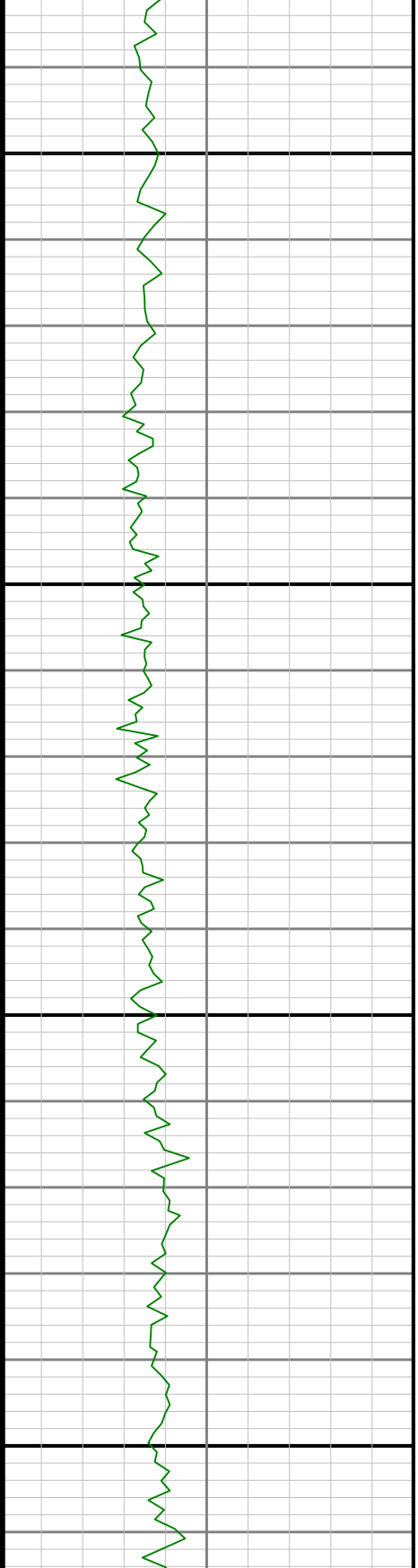


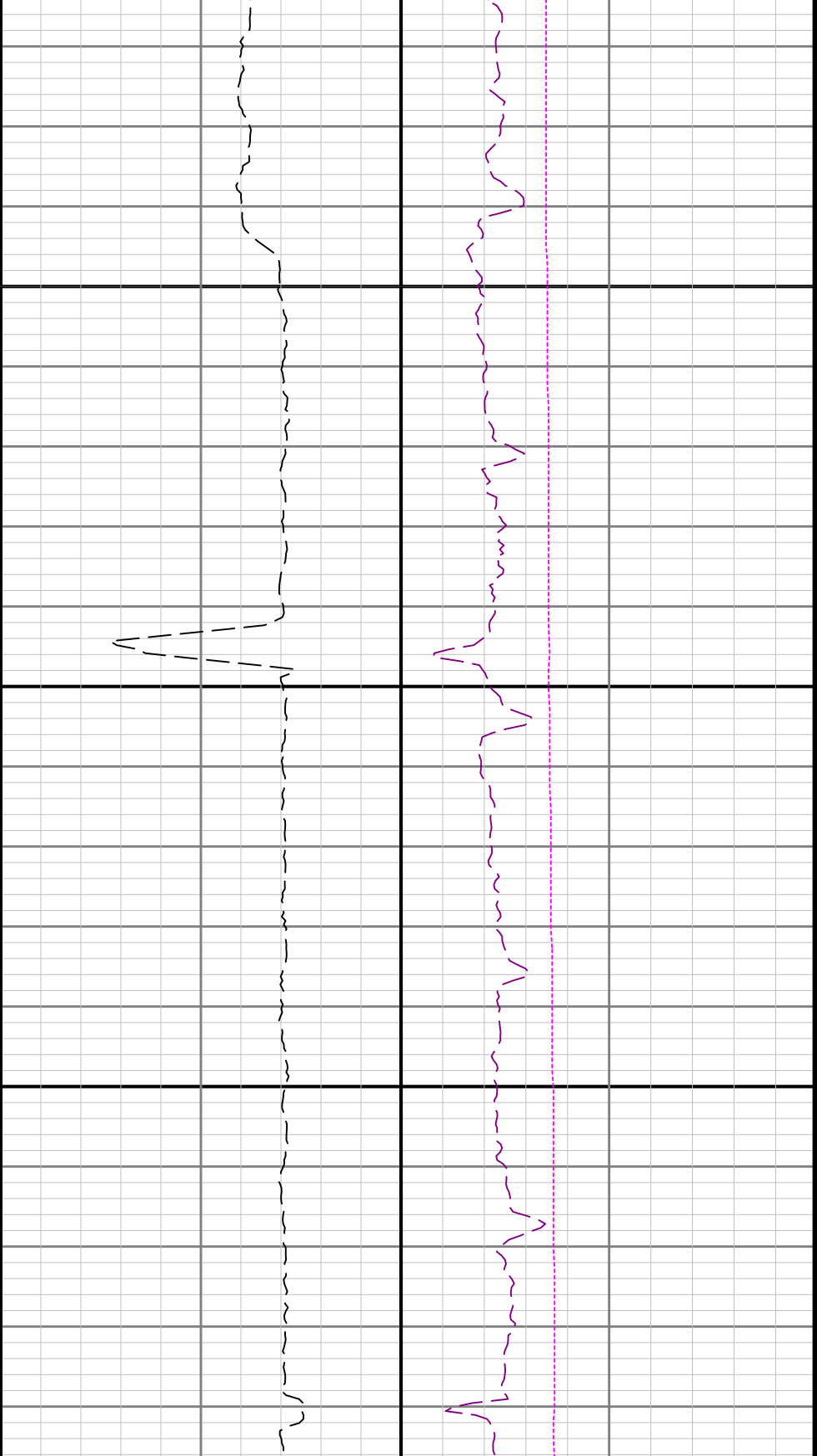




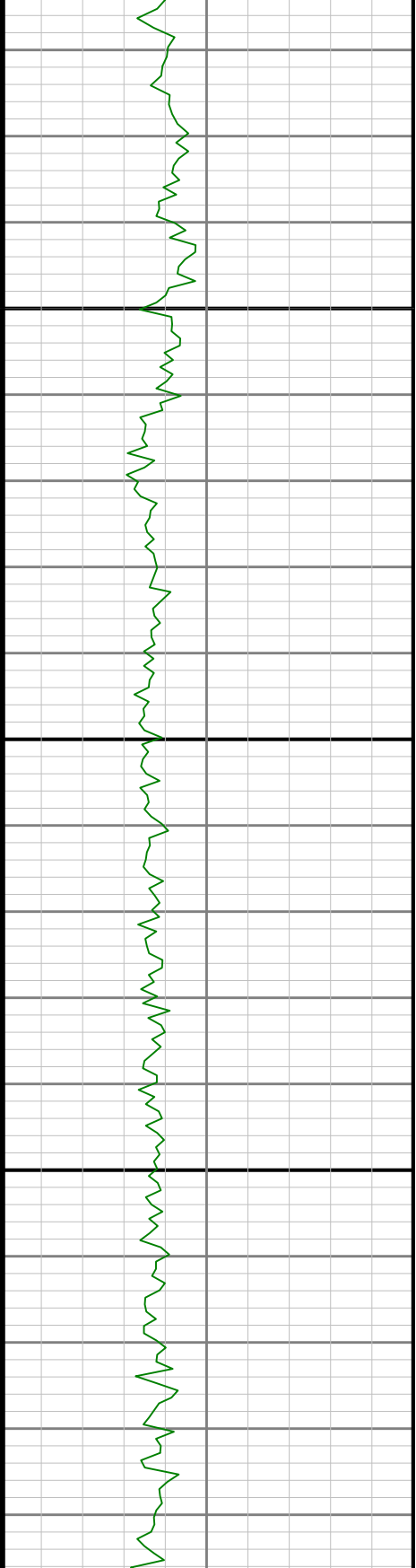
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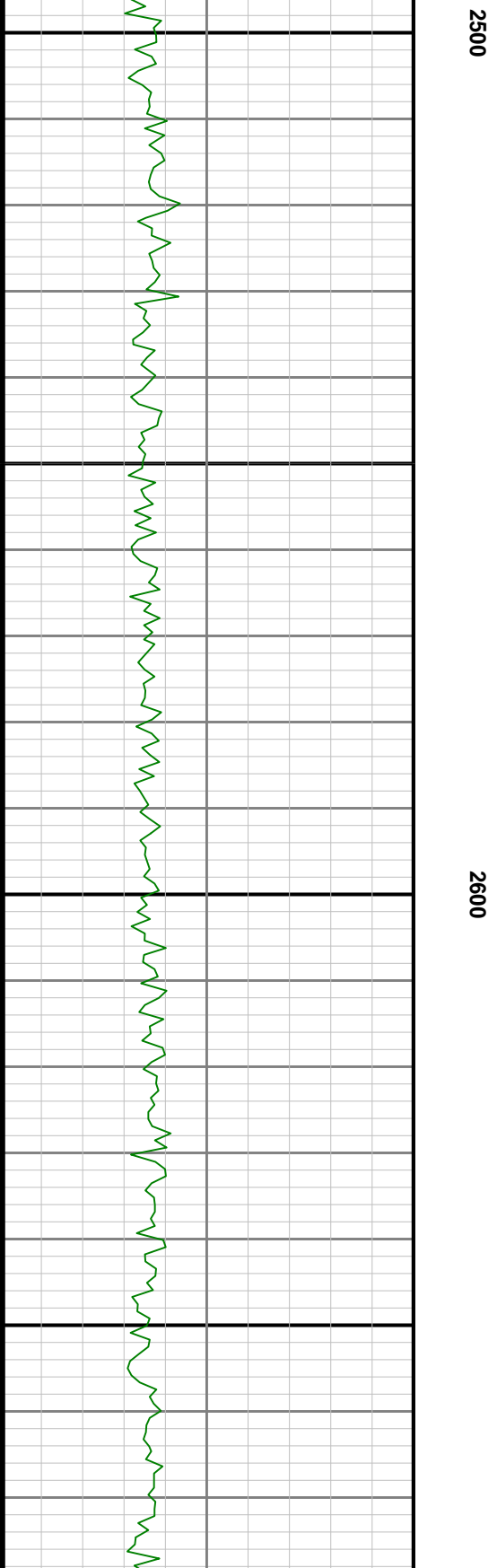
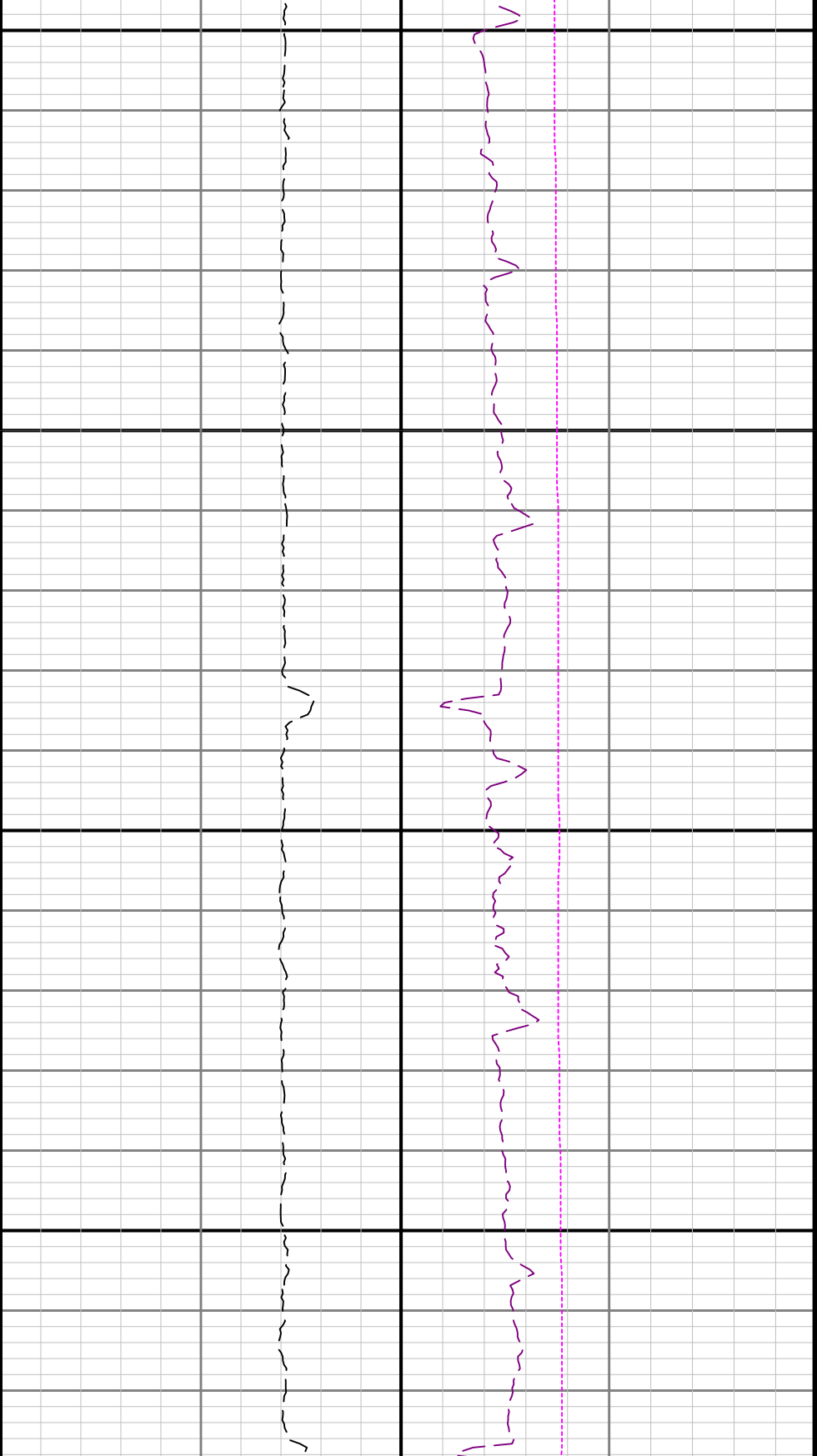
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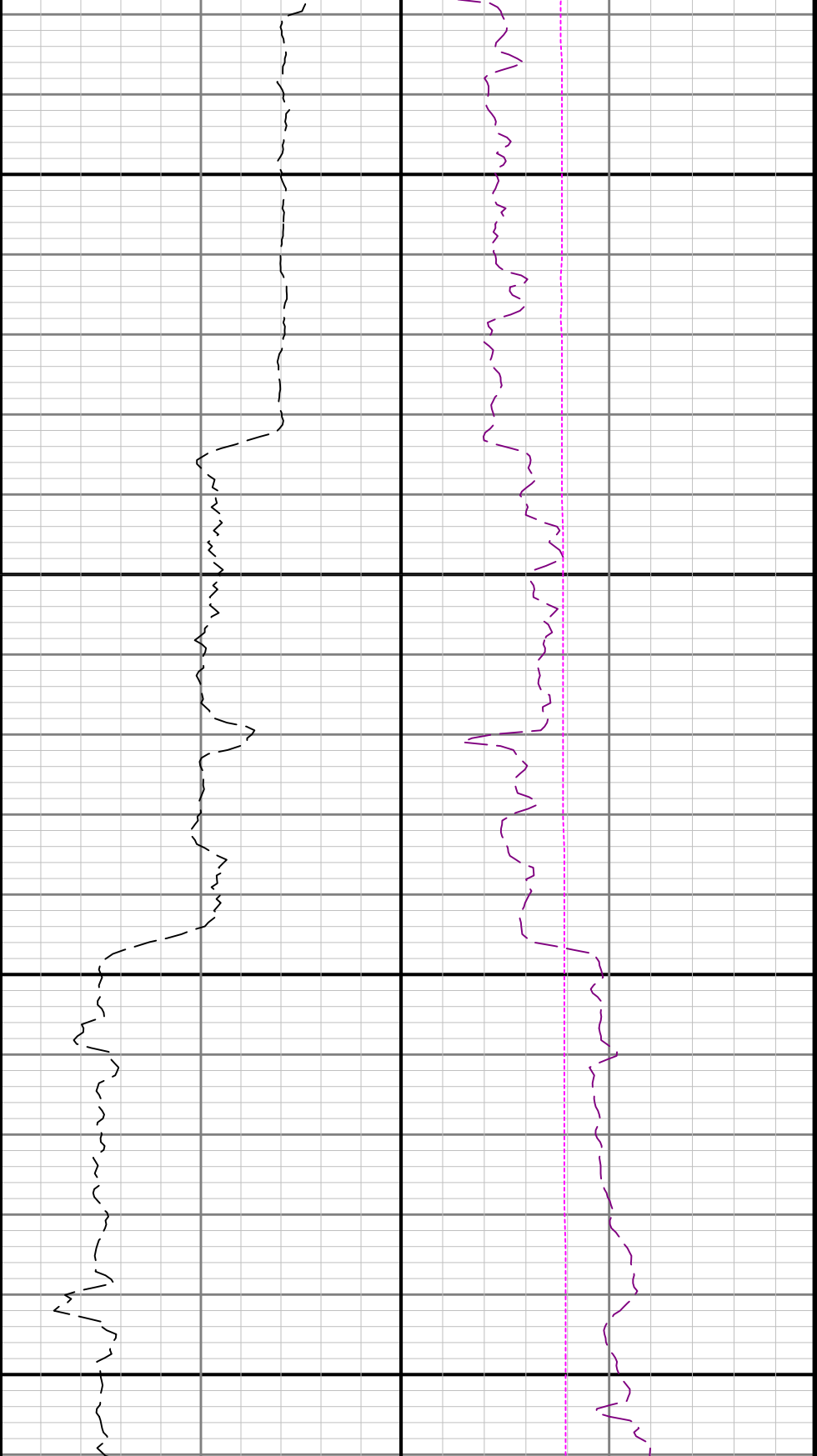




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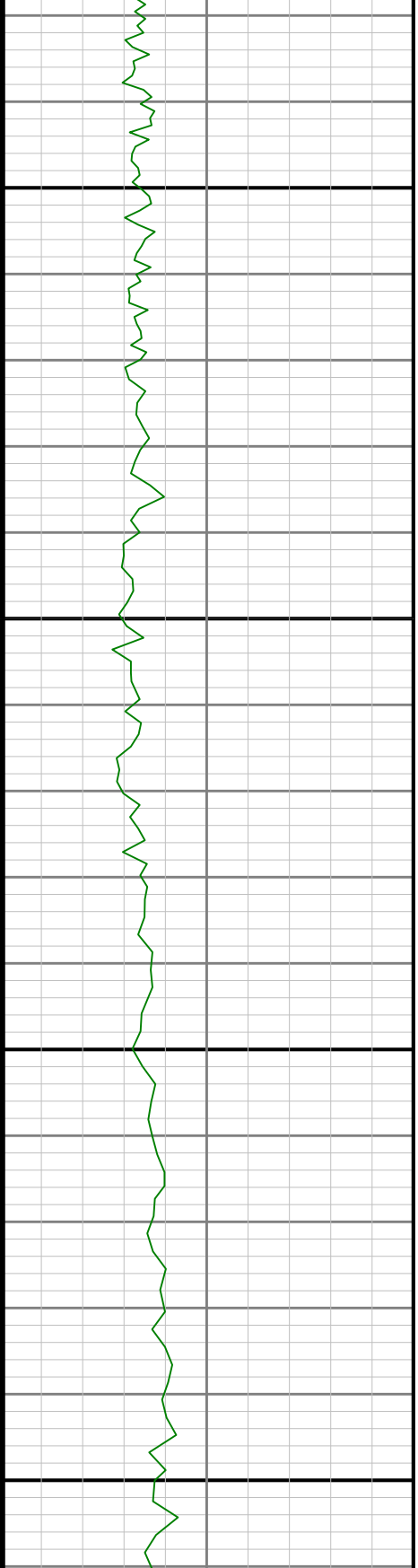


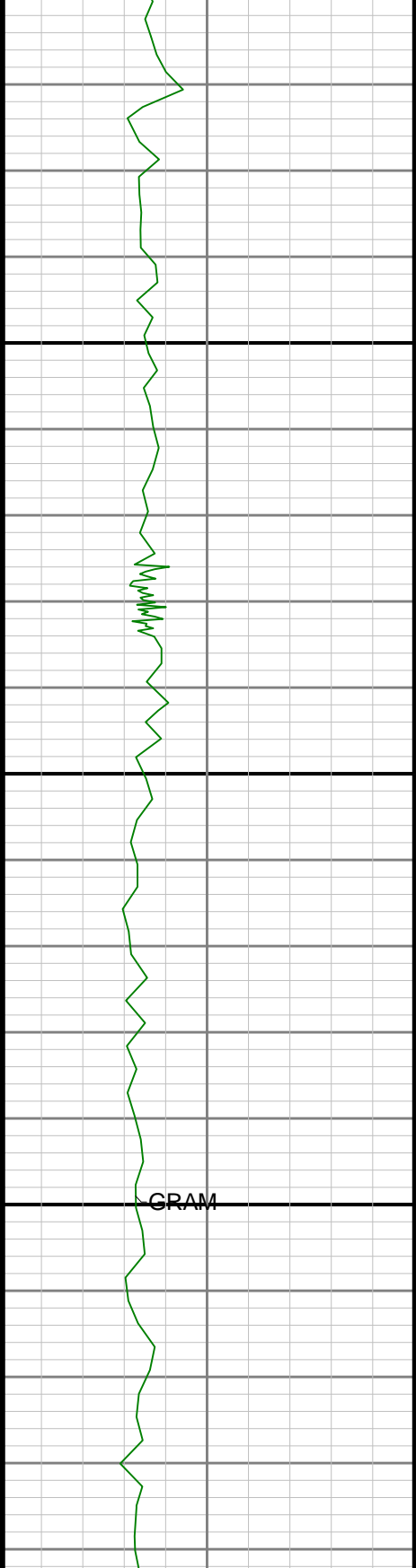




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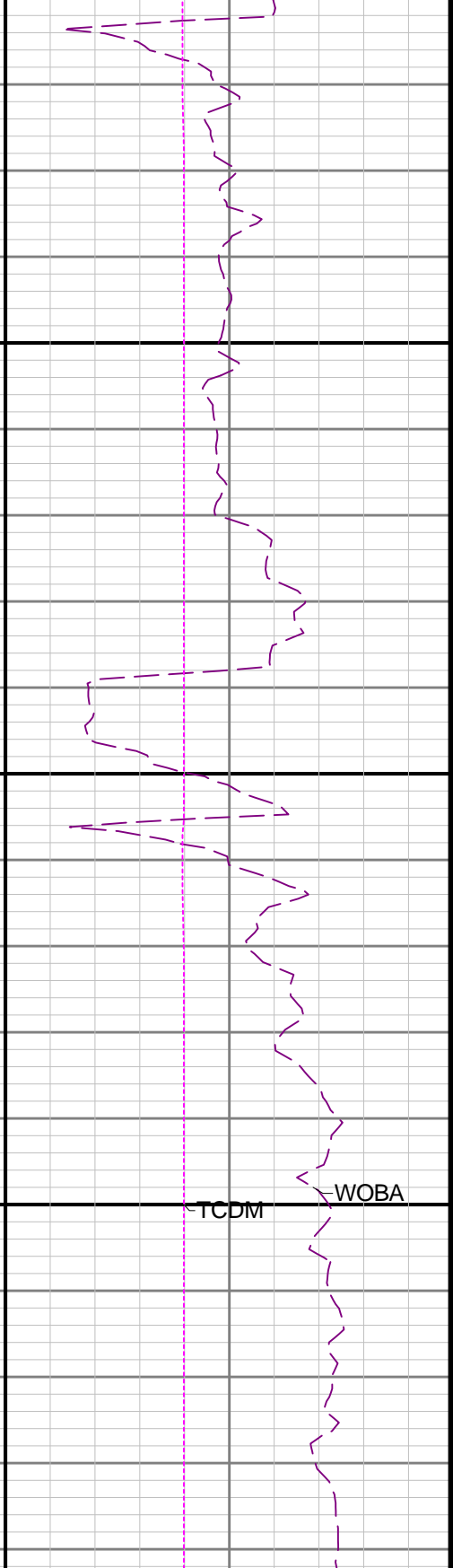


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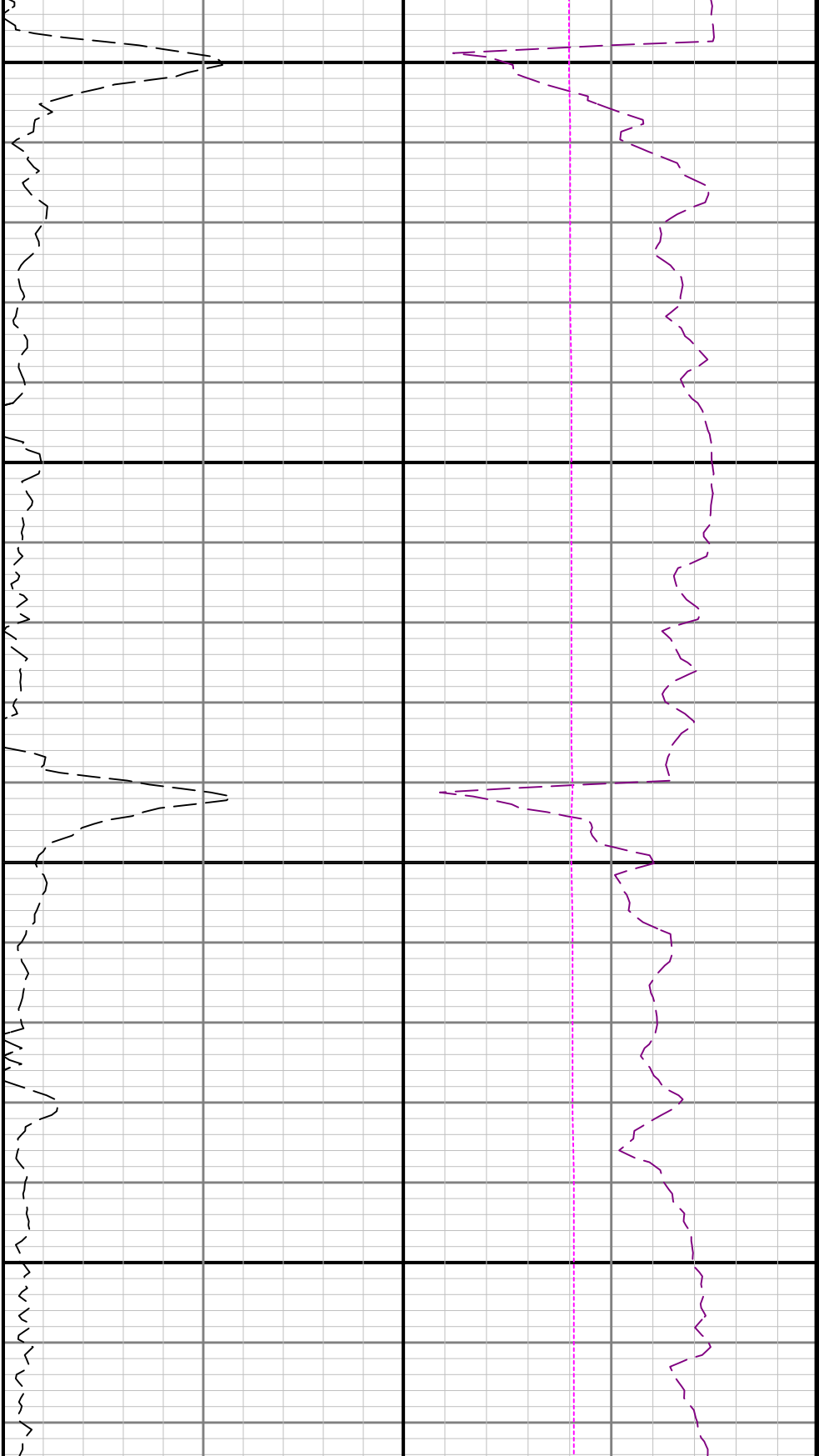


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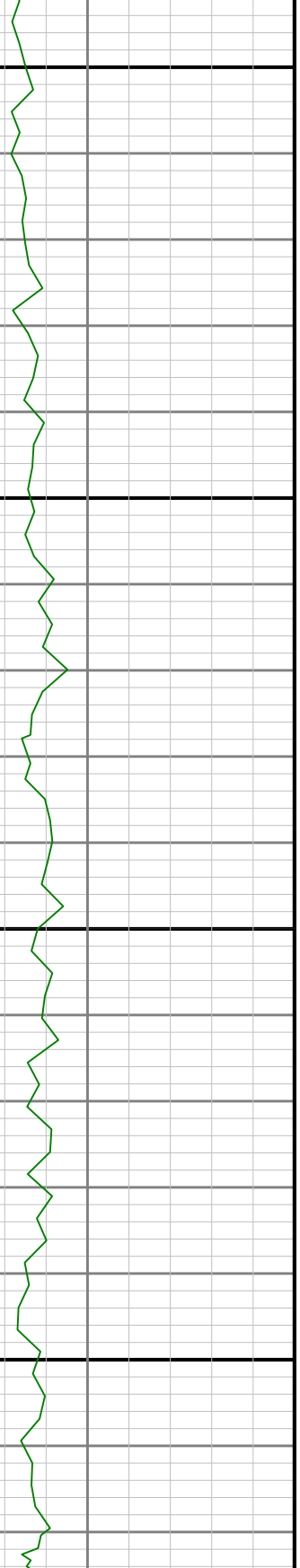
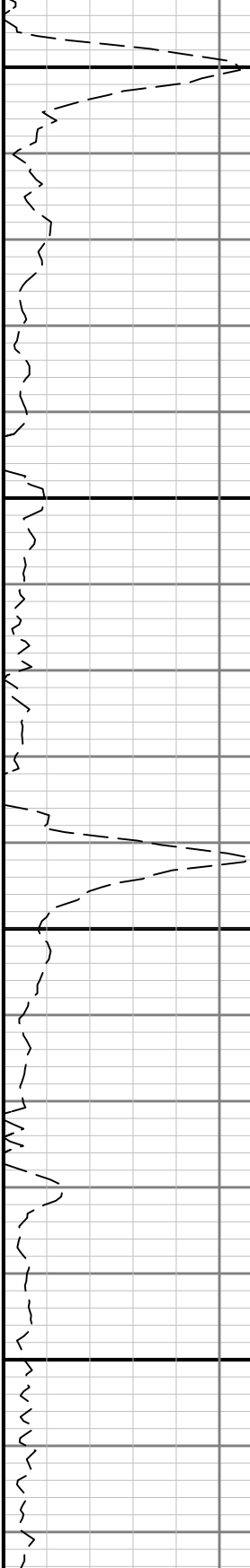
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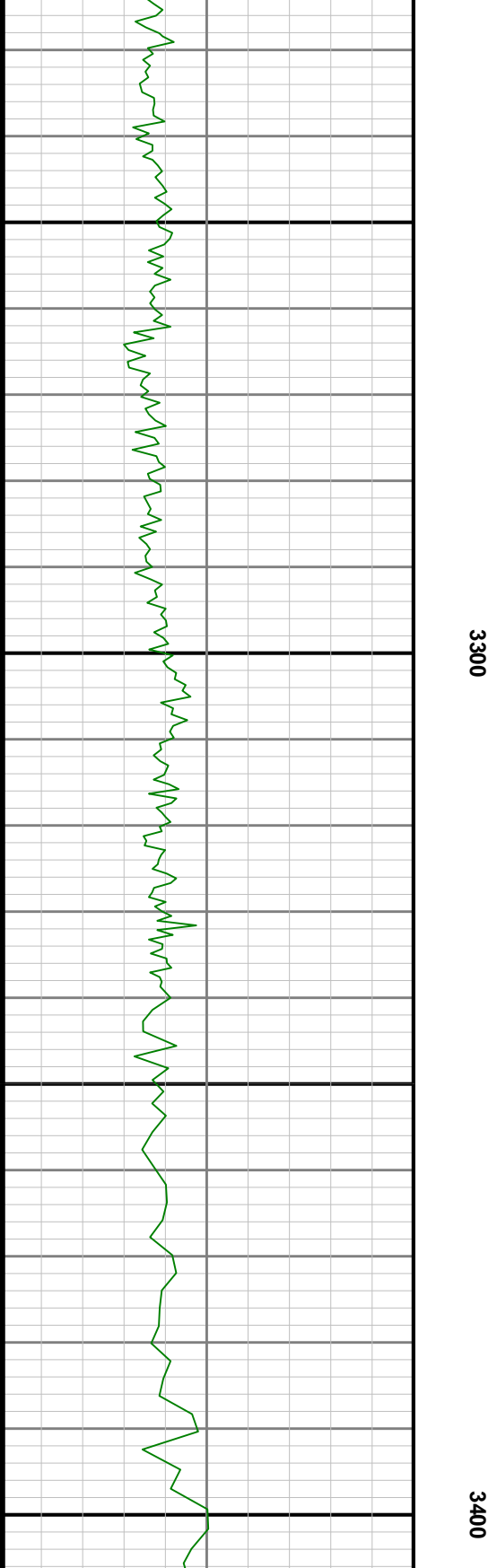
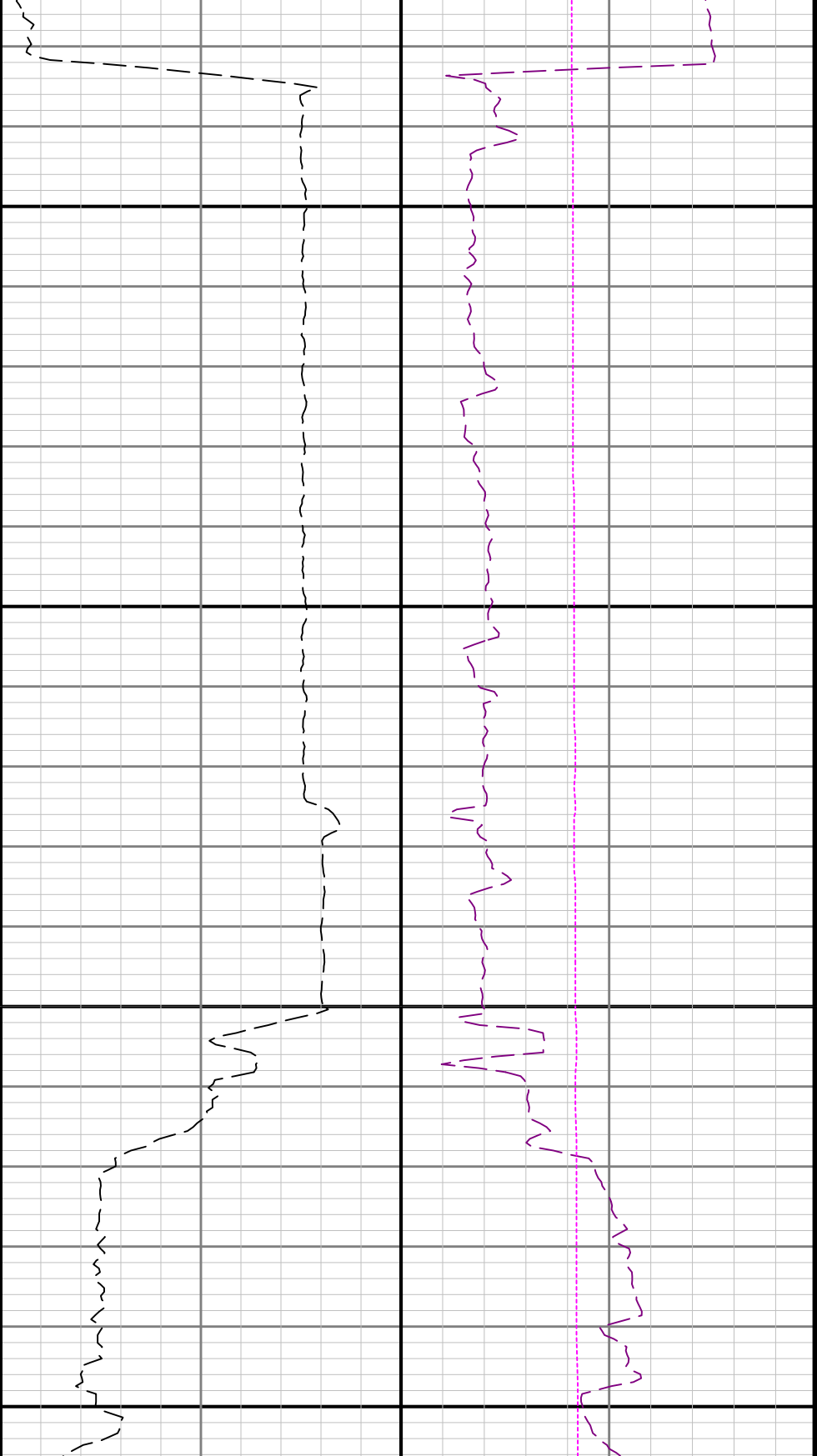
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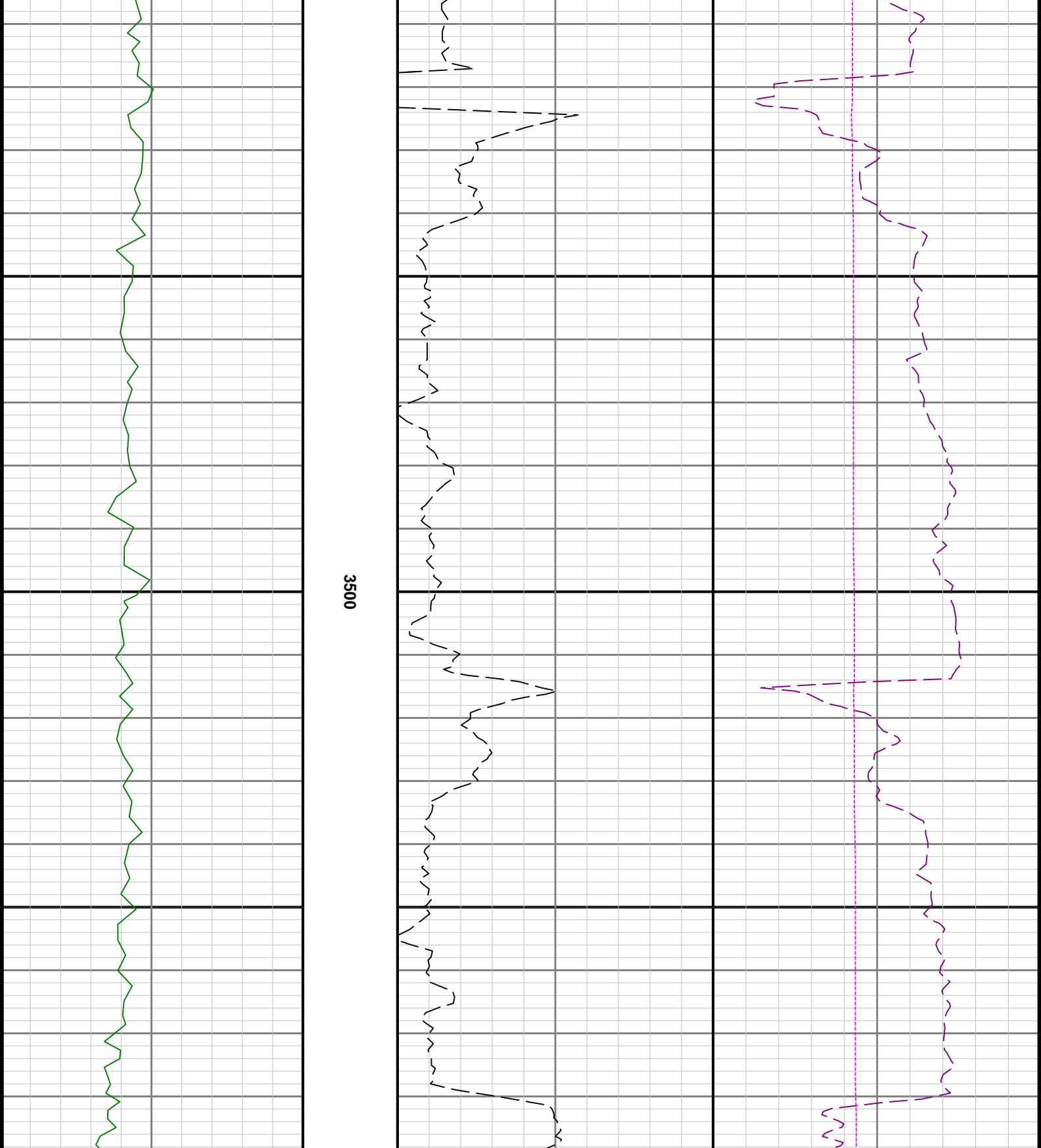


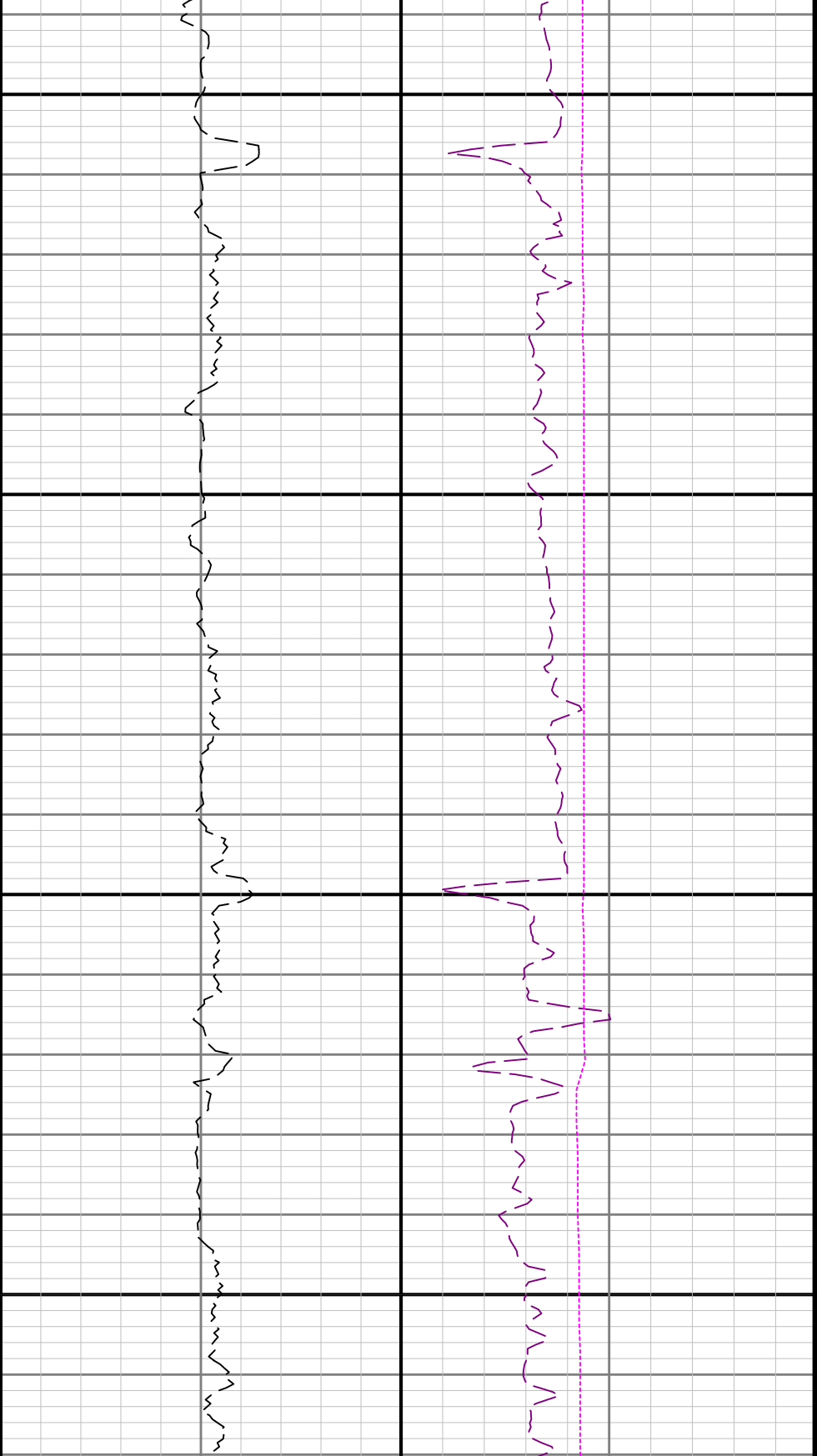
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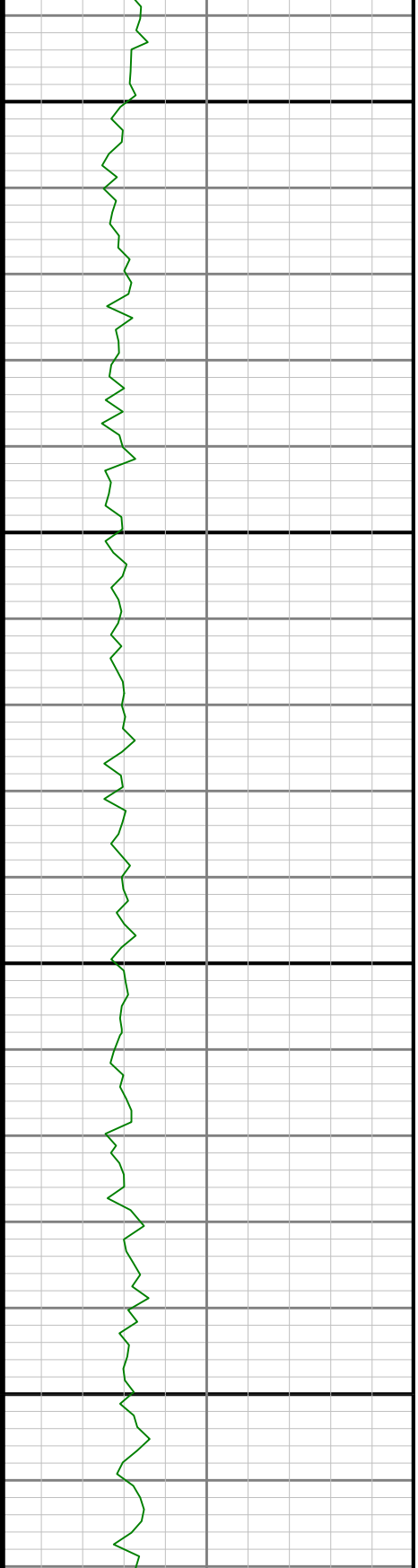


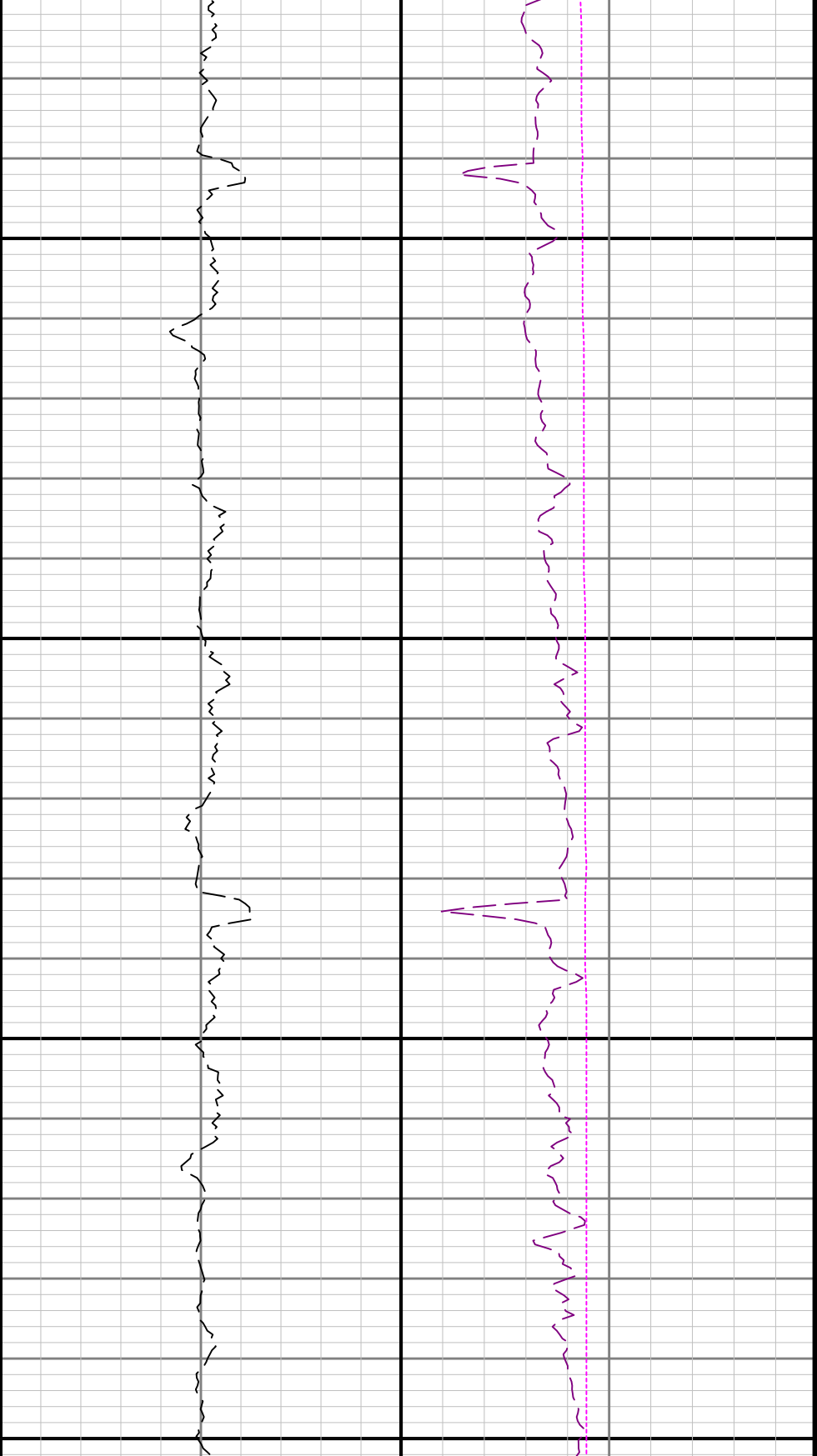




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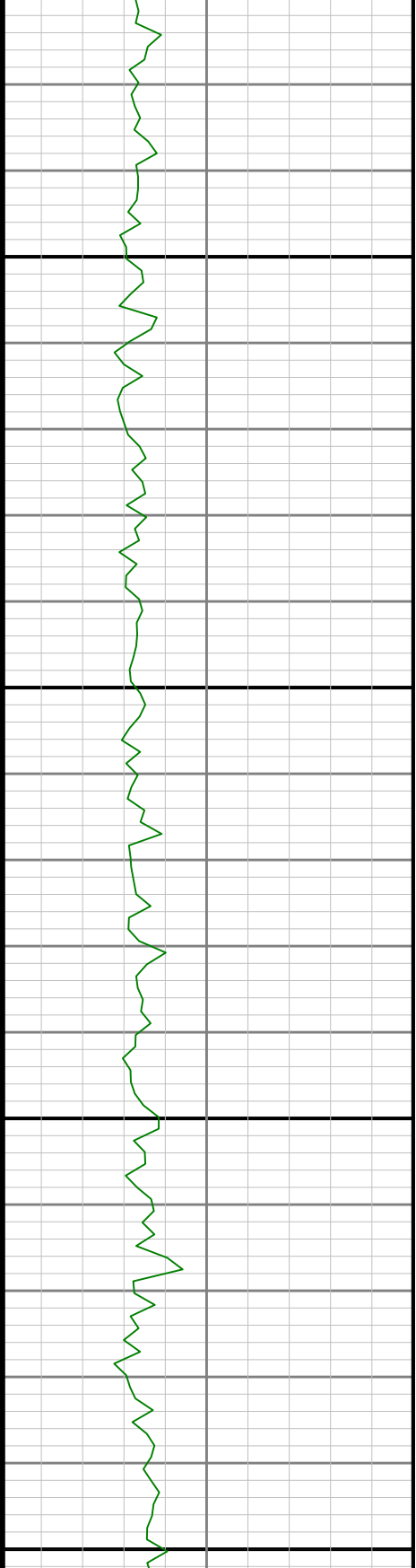
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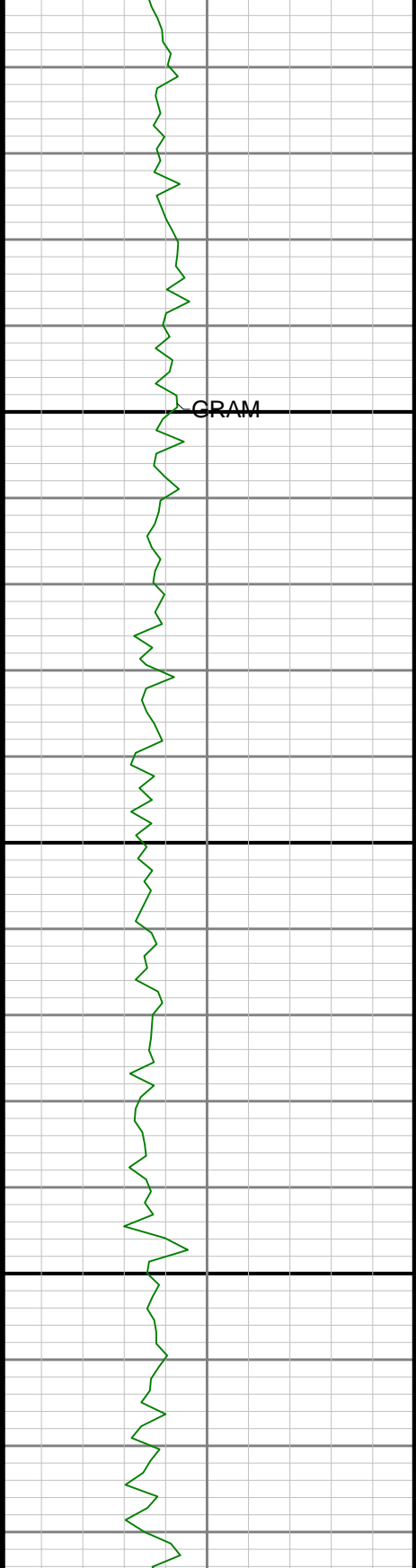




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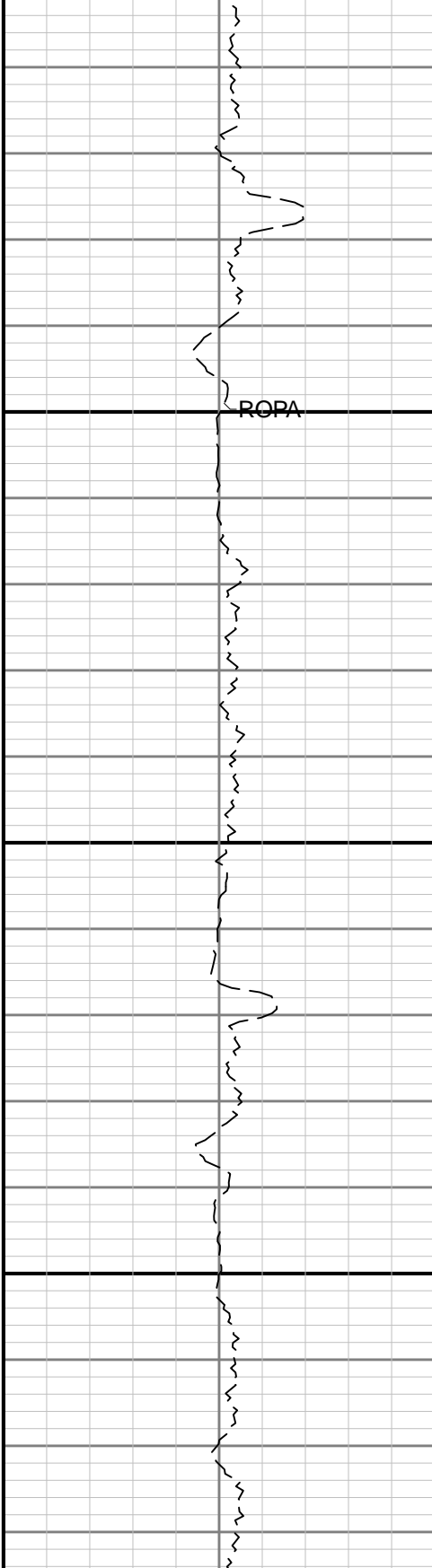
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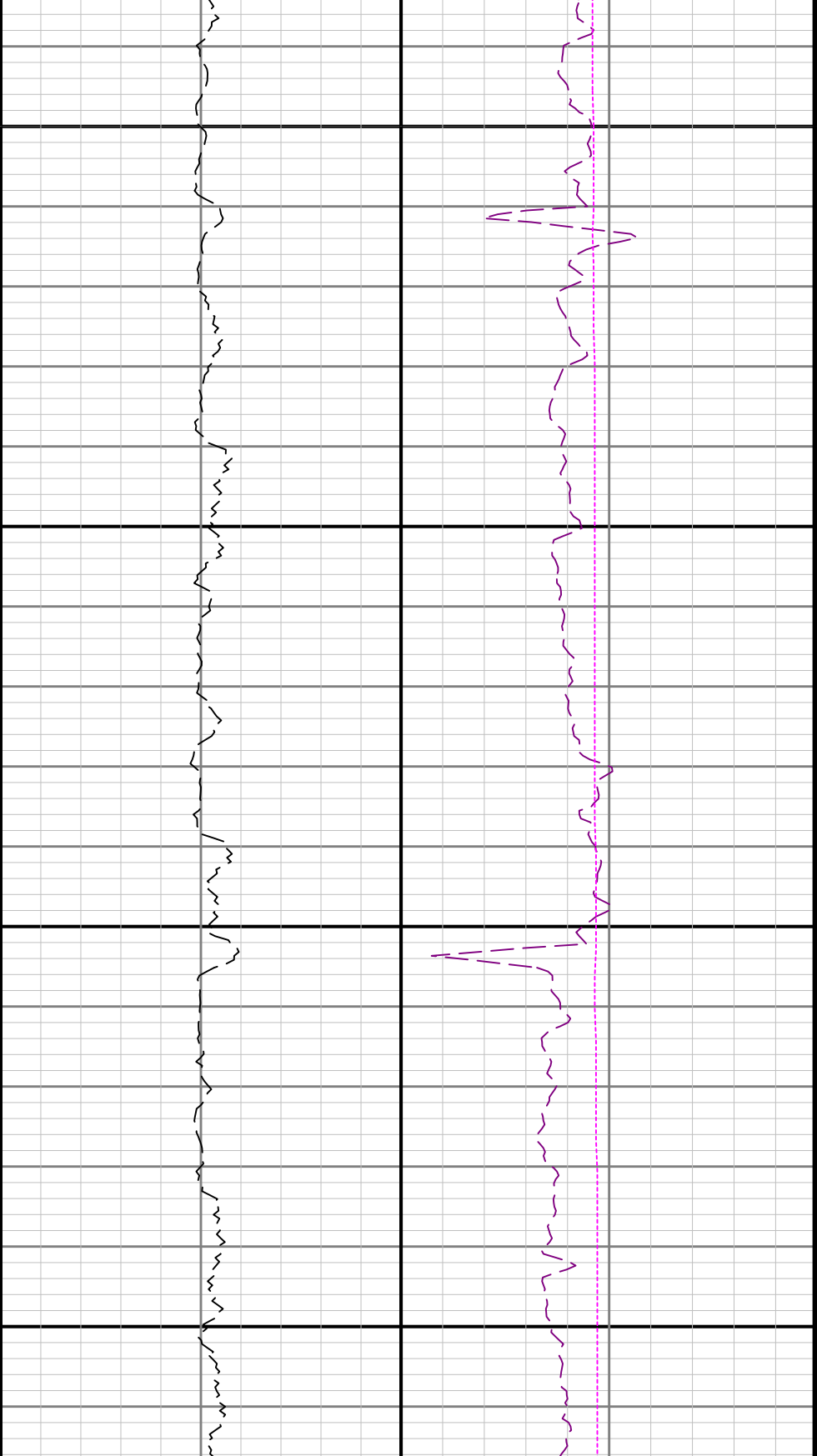




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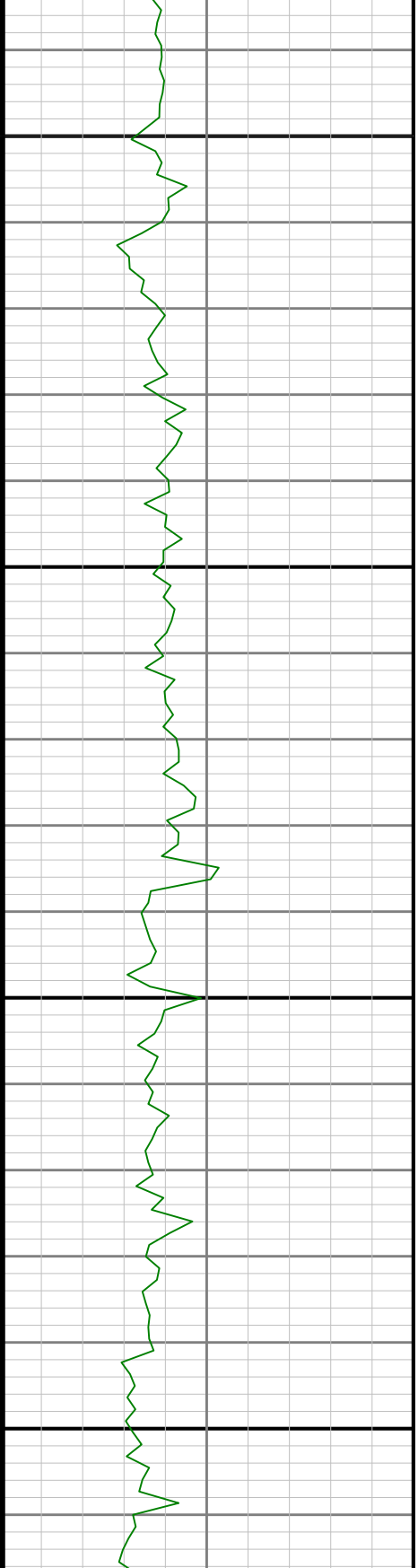
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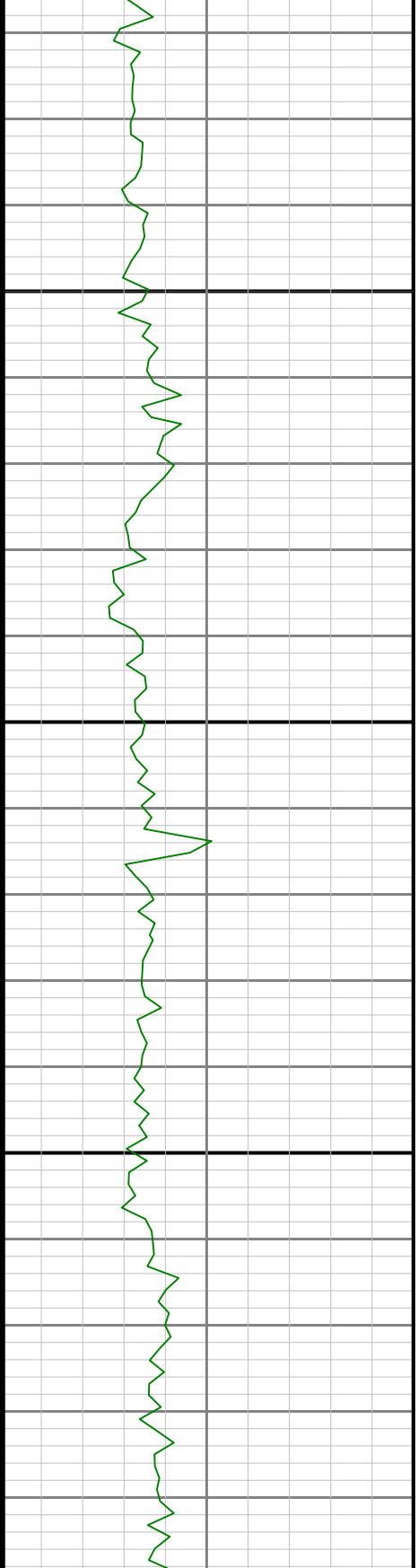
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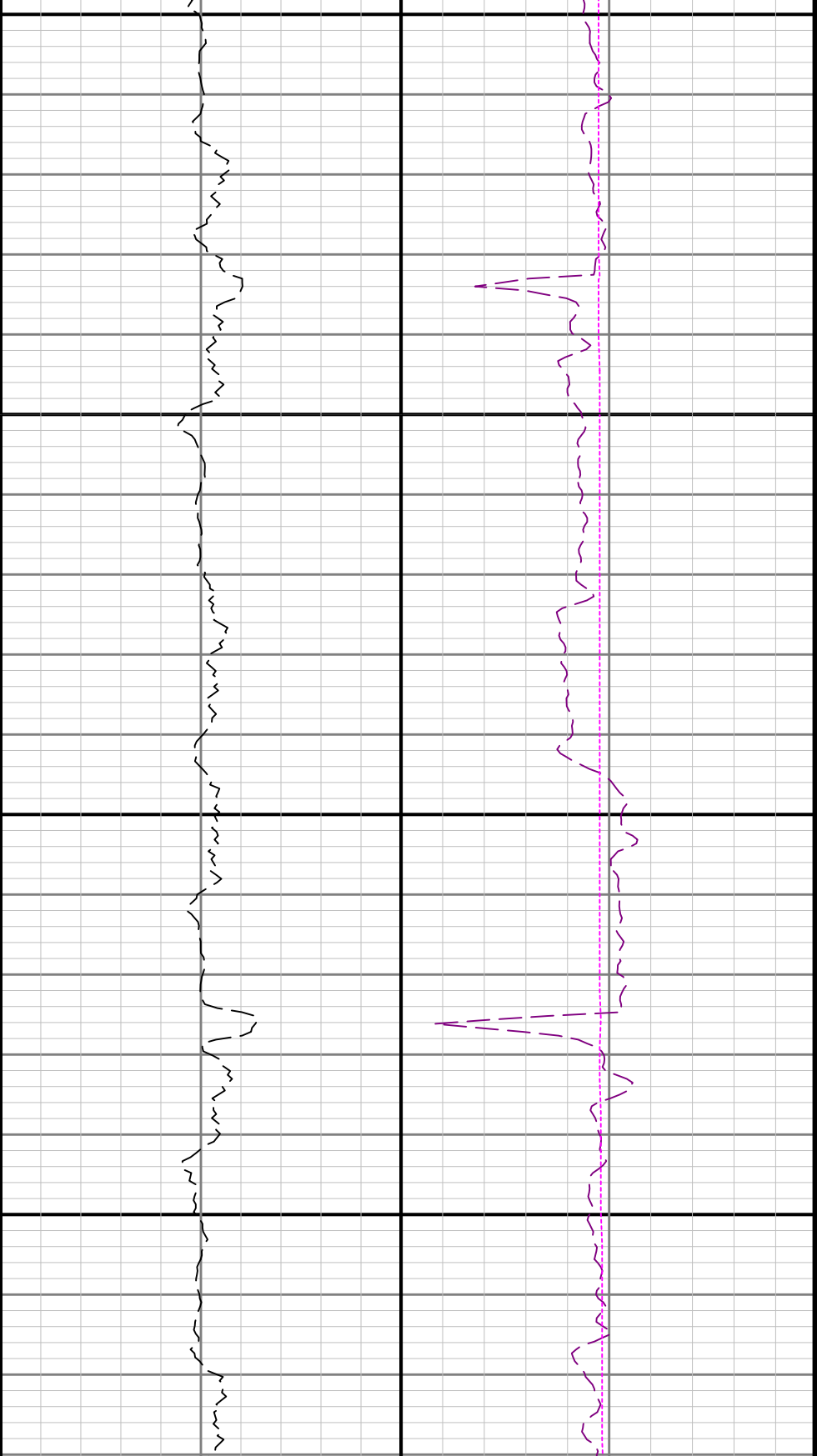


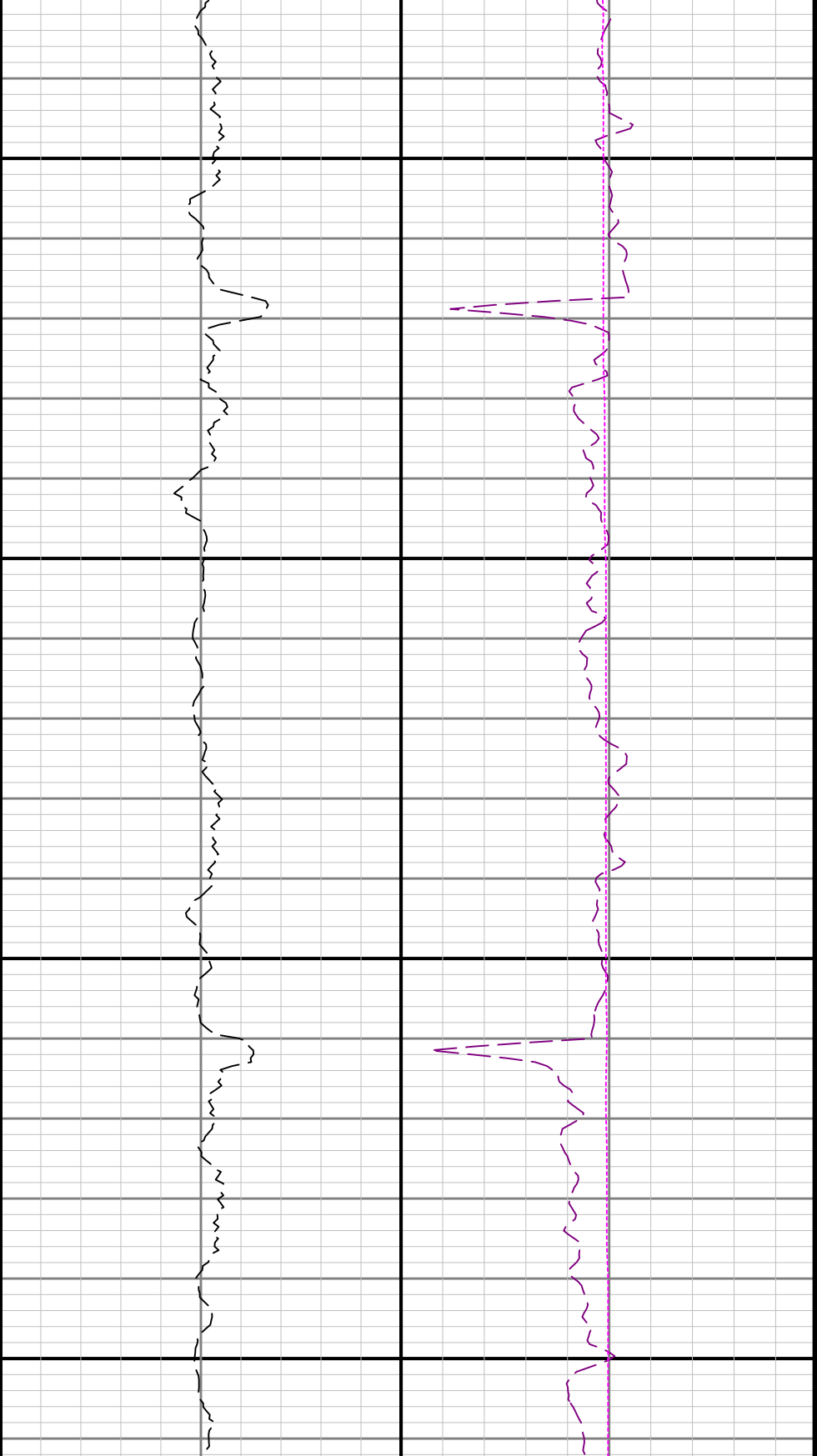


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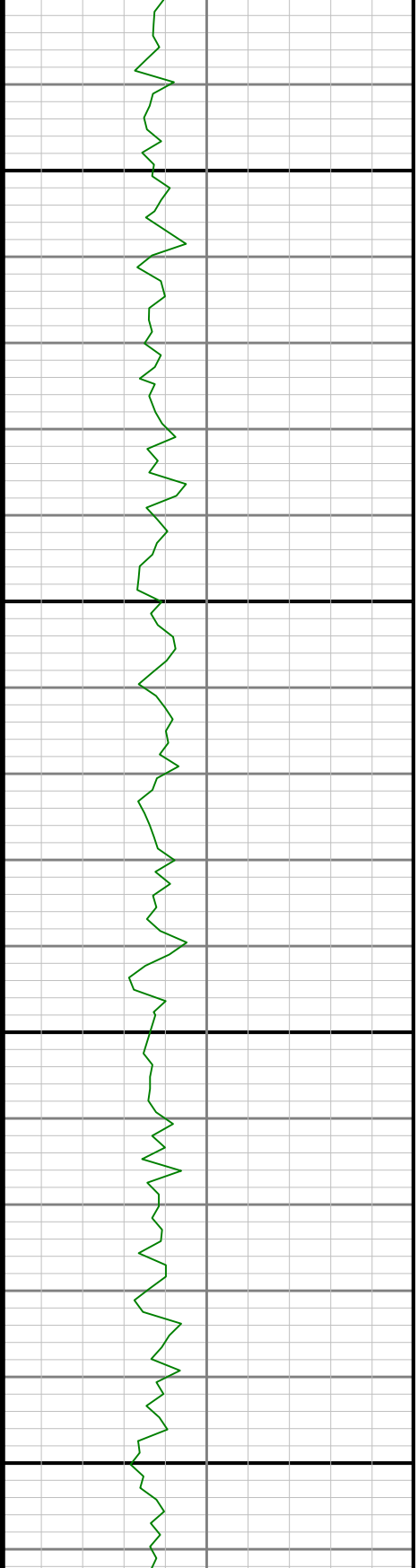


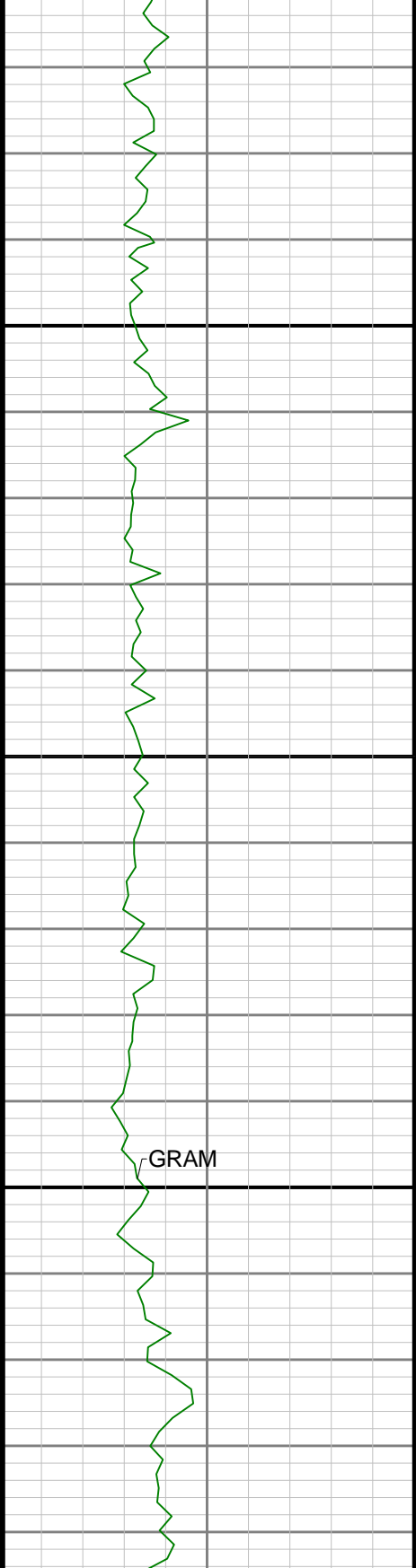




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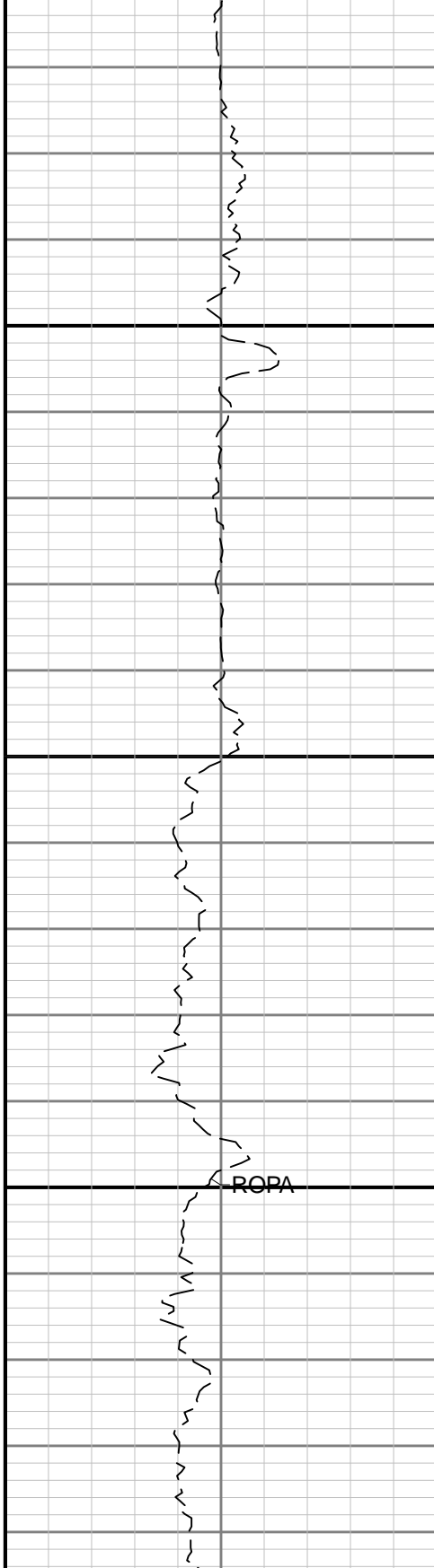
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4900

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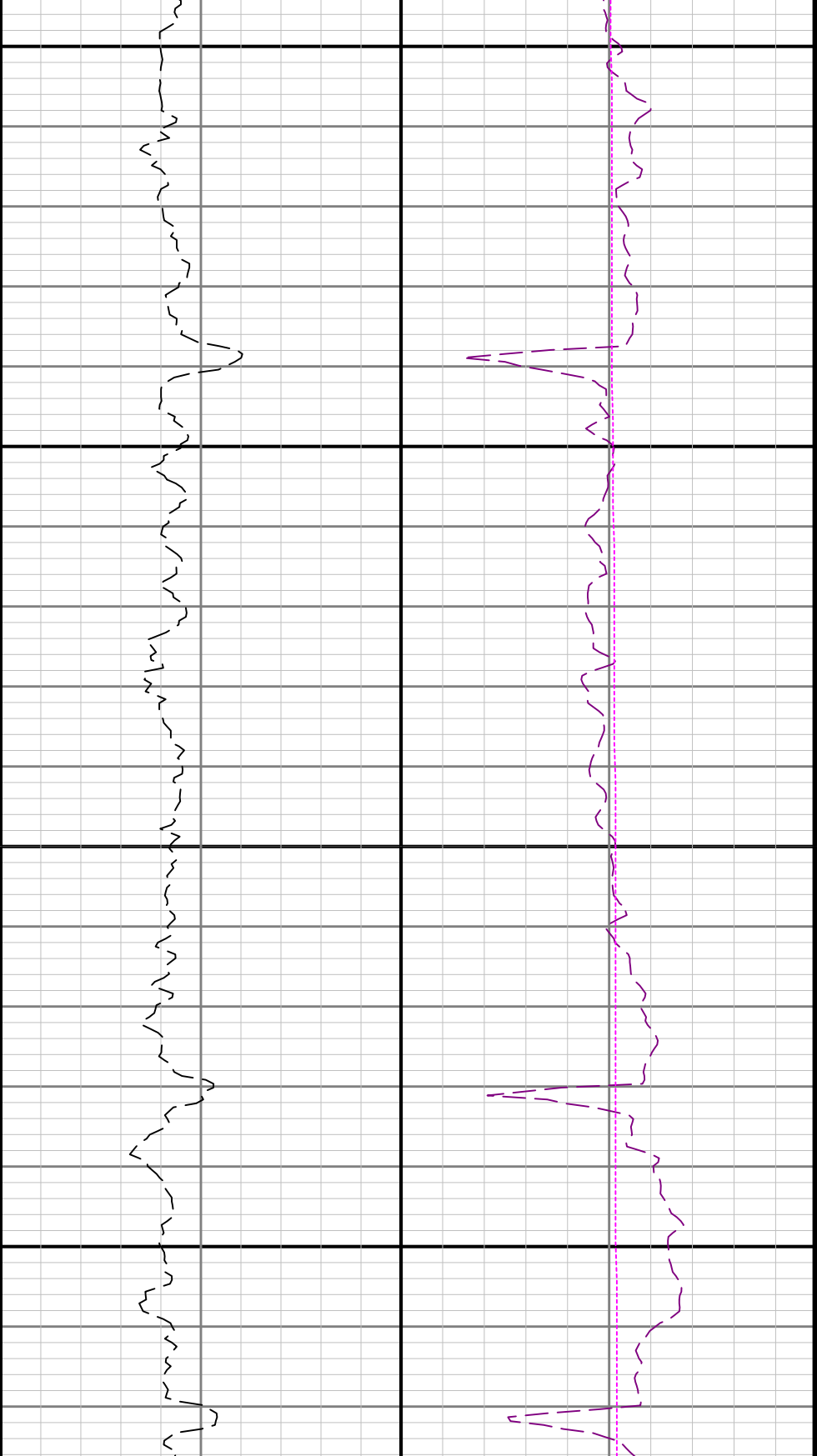


ROPA



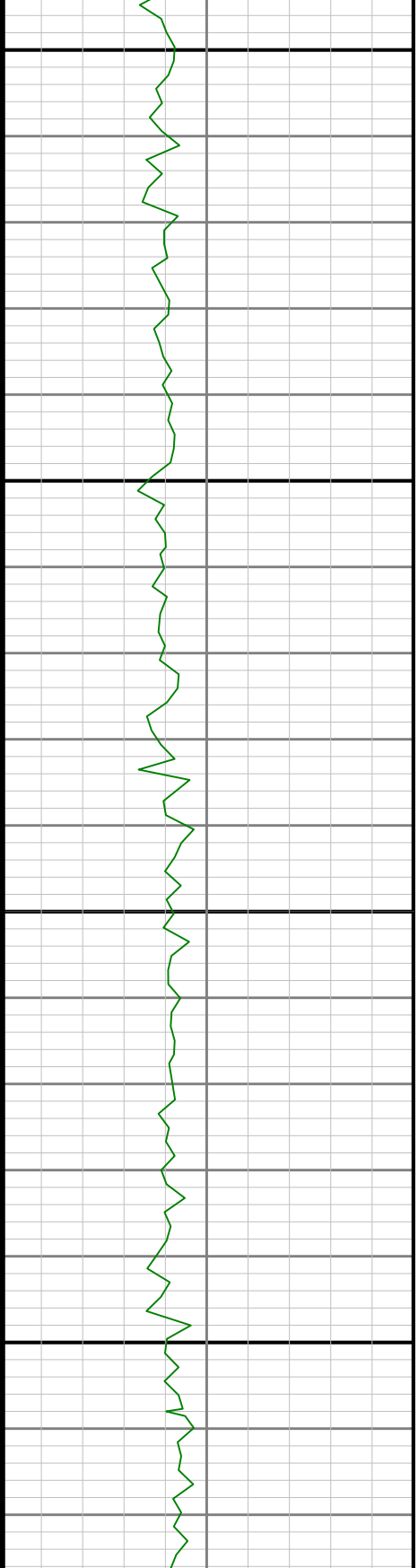
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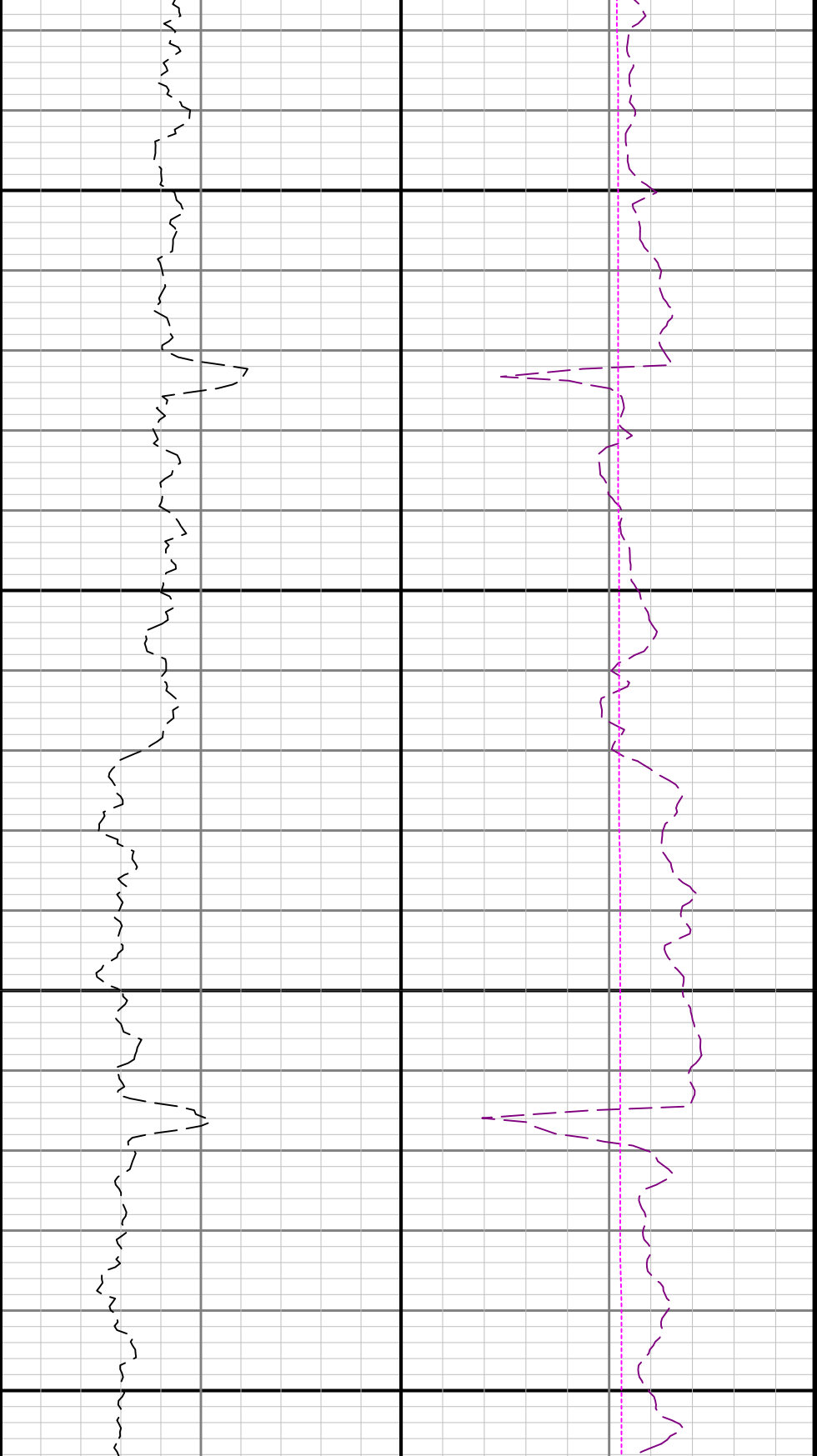
WOBA



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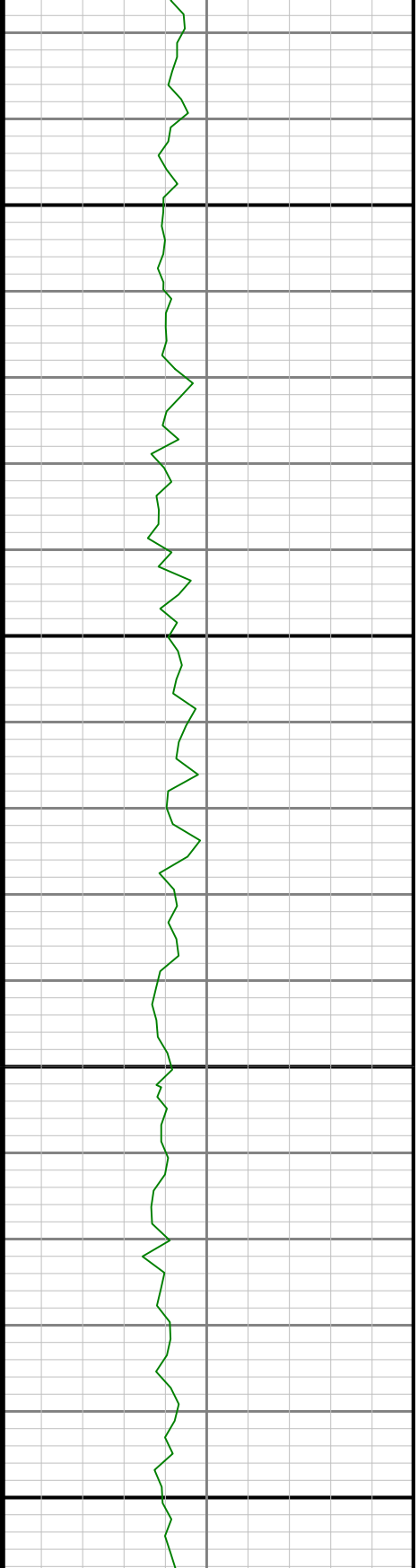
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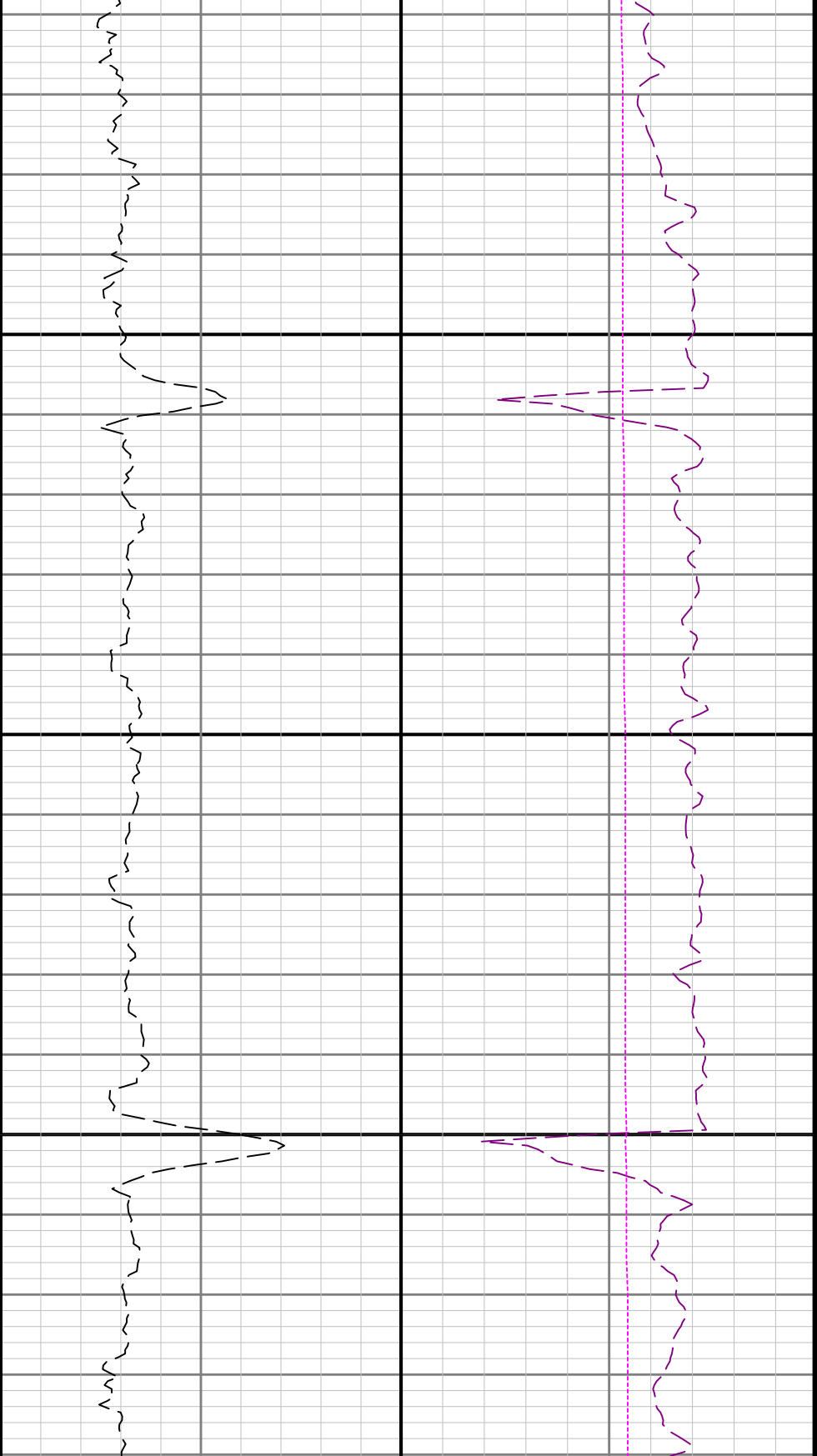




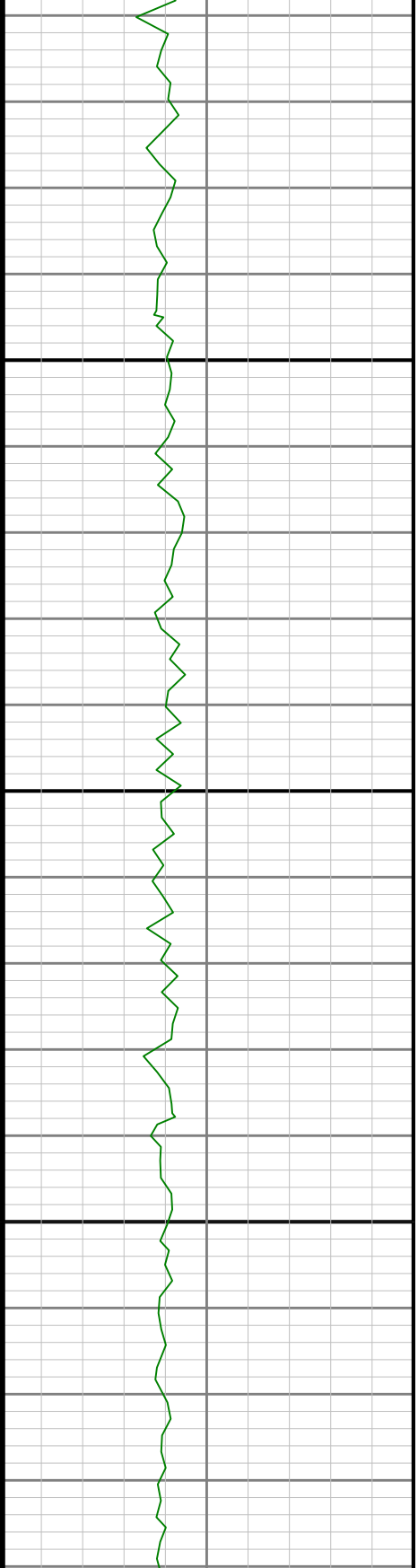
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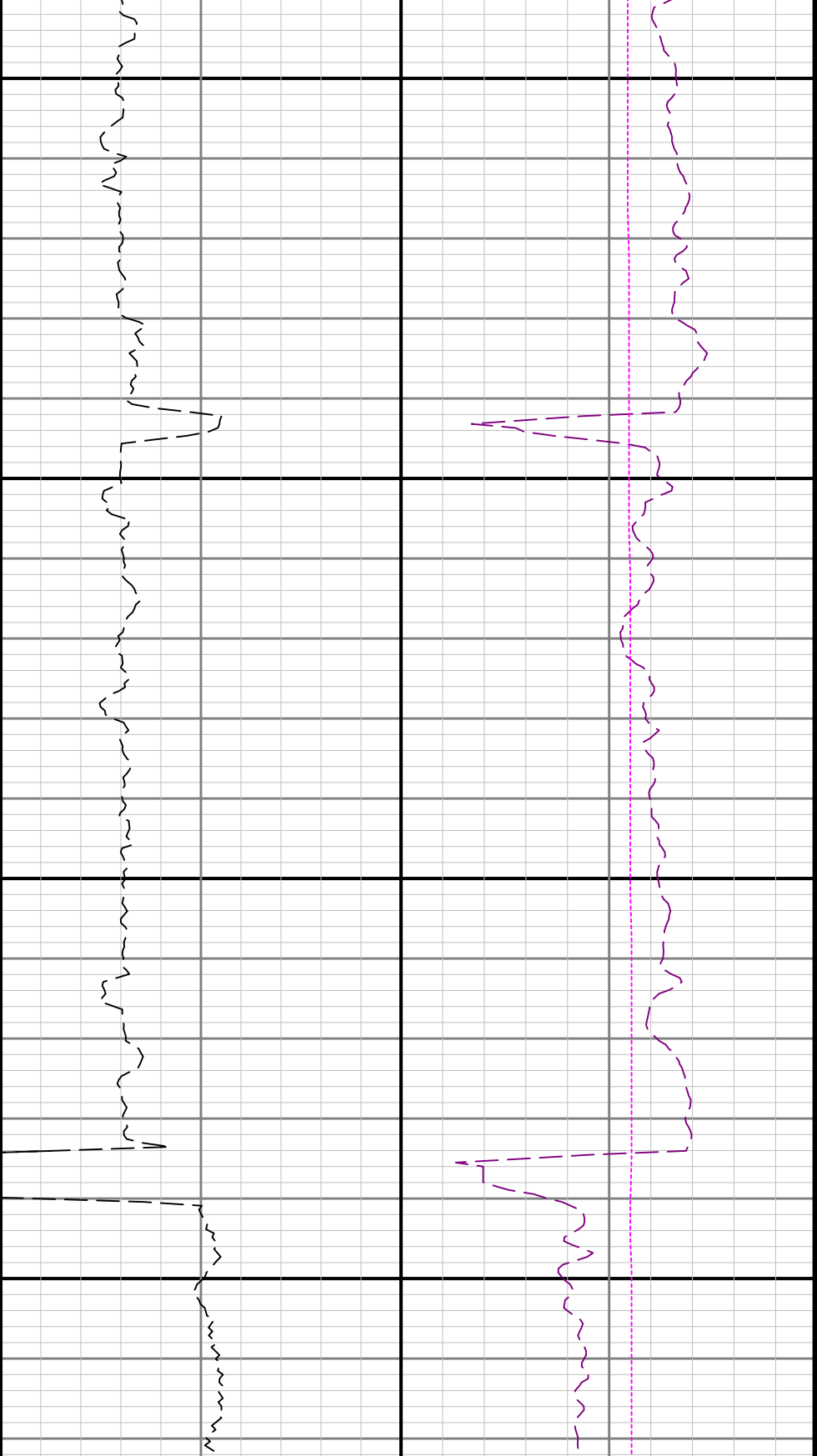
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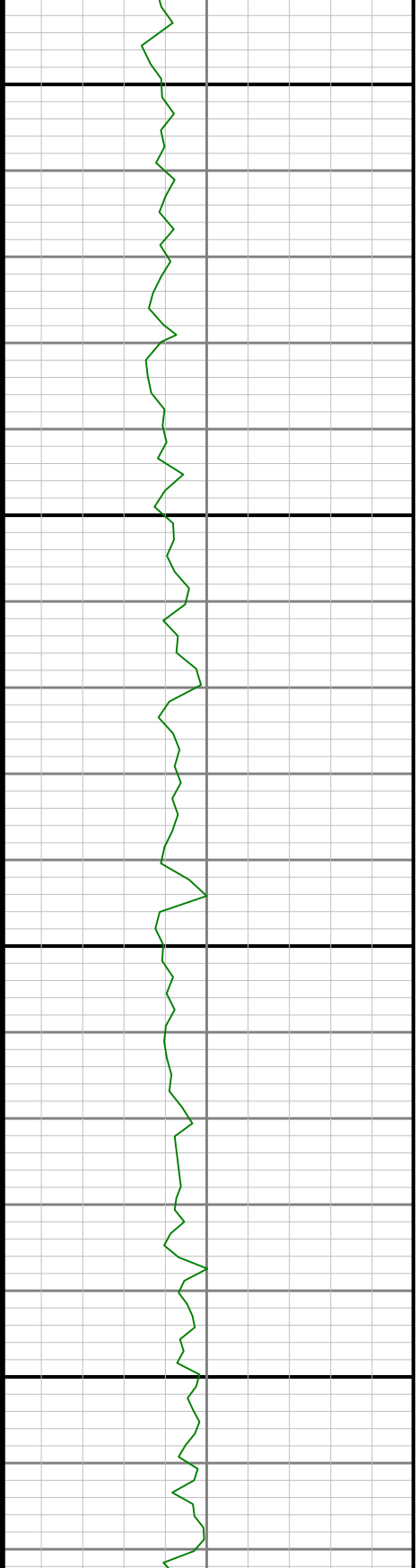
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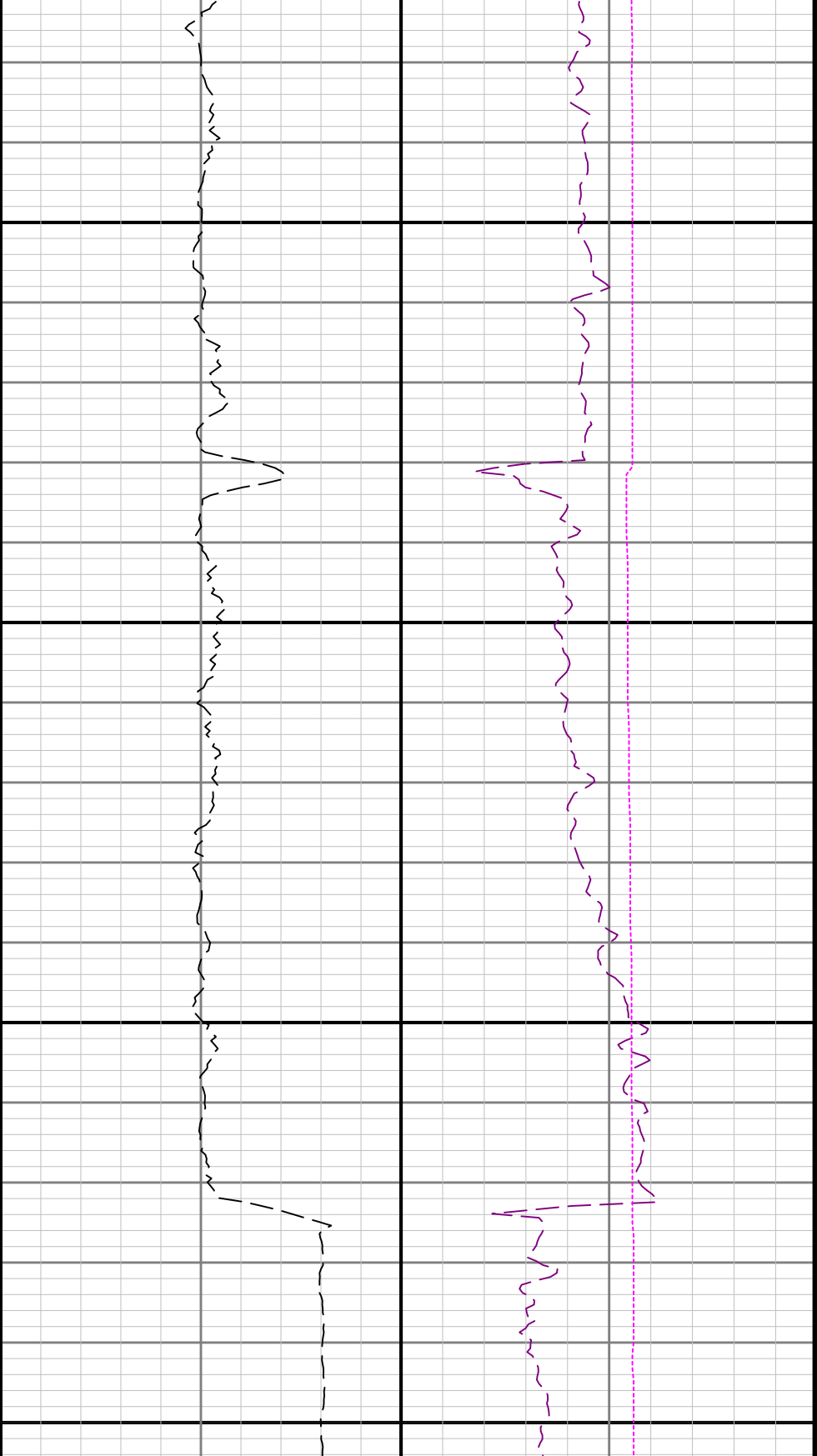




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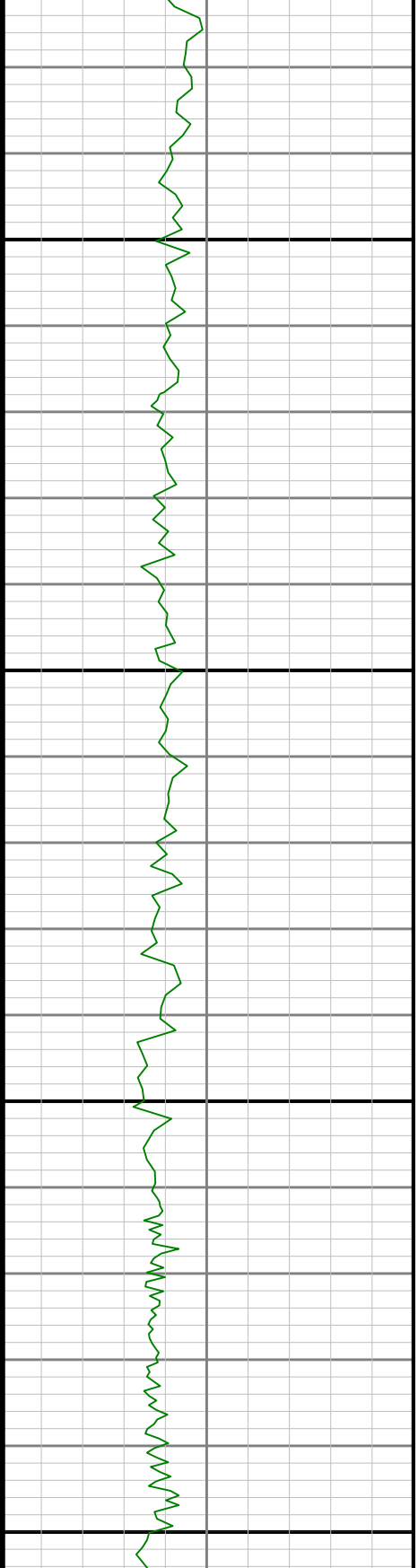
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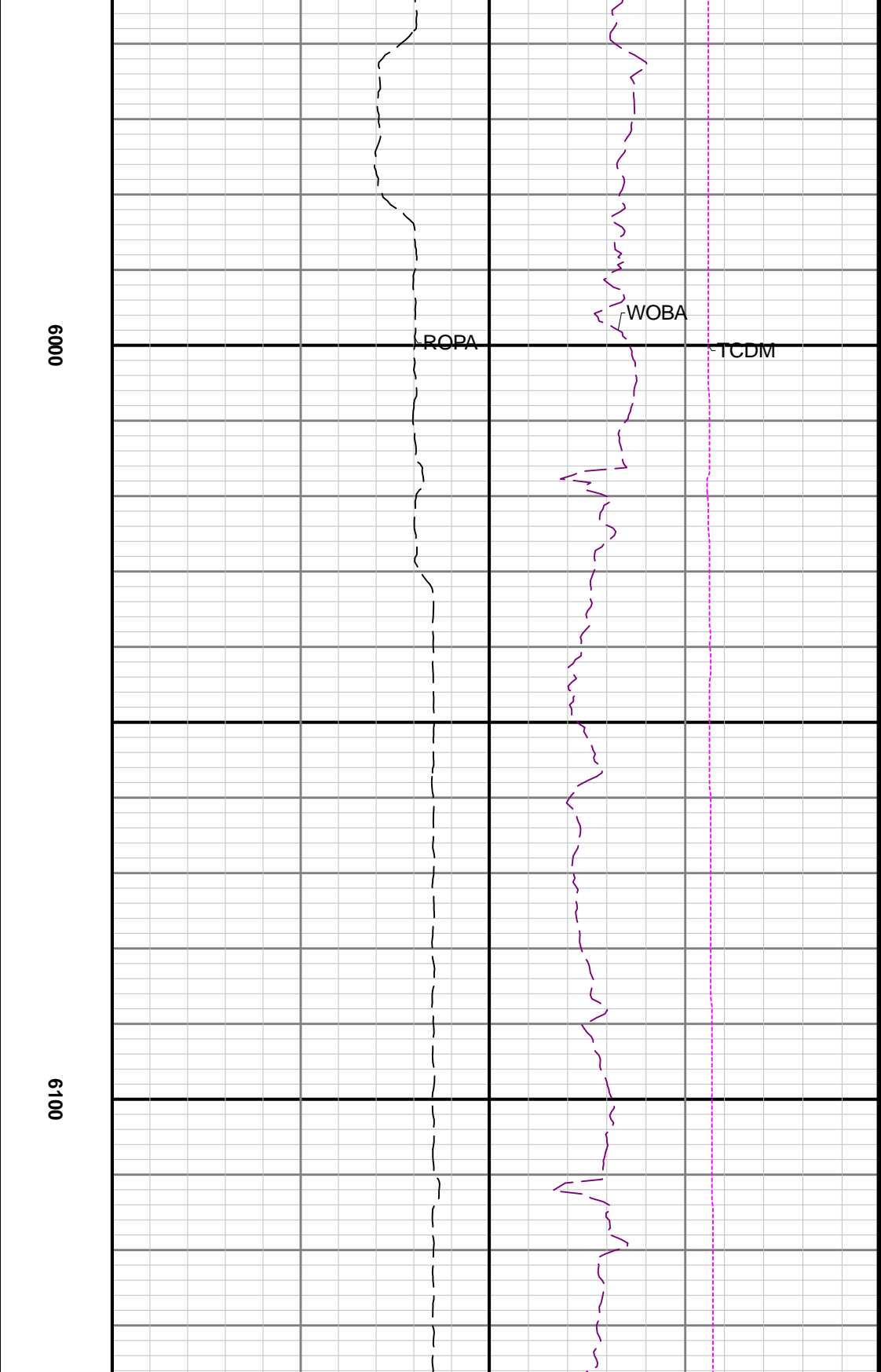
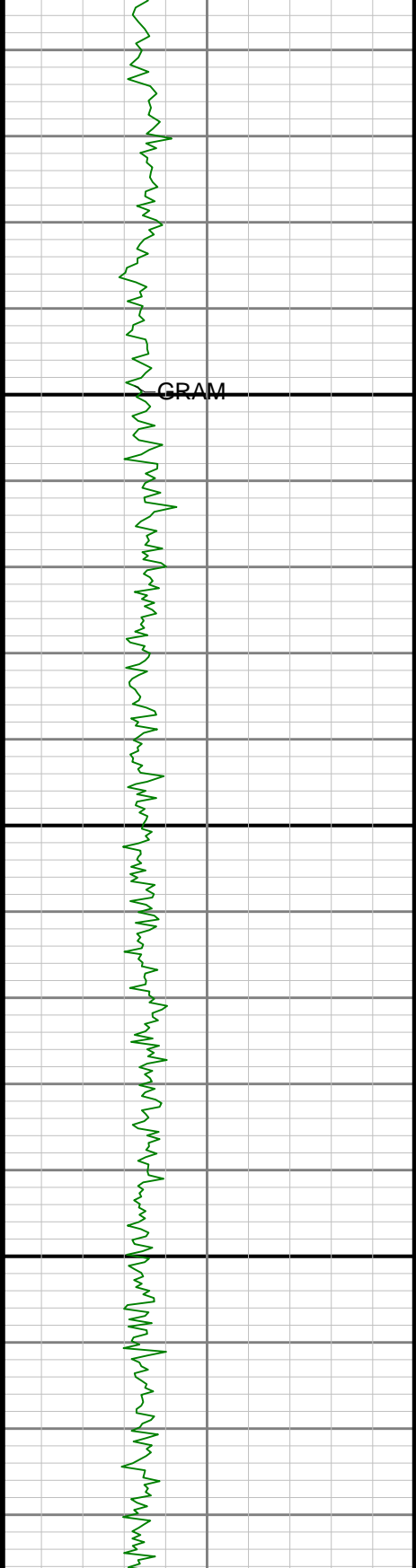


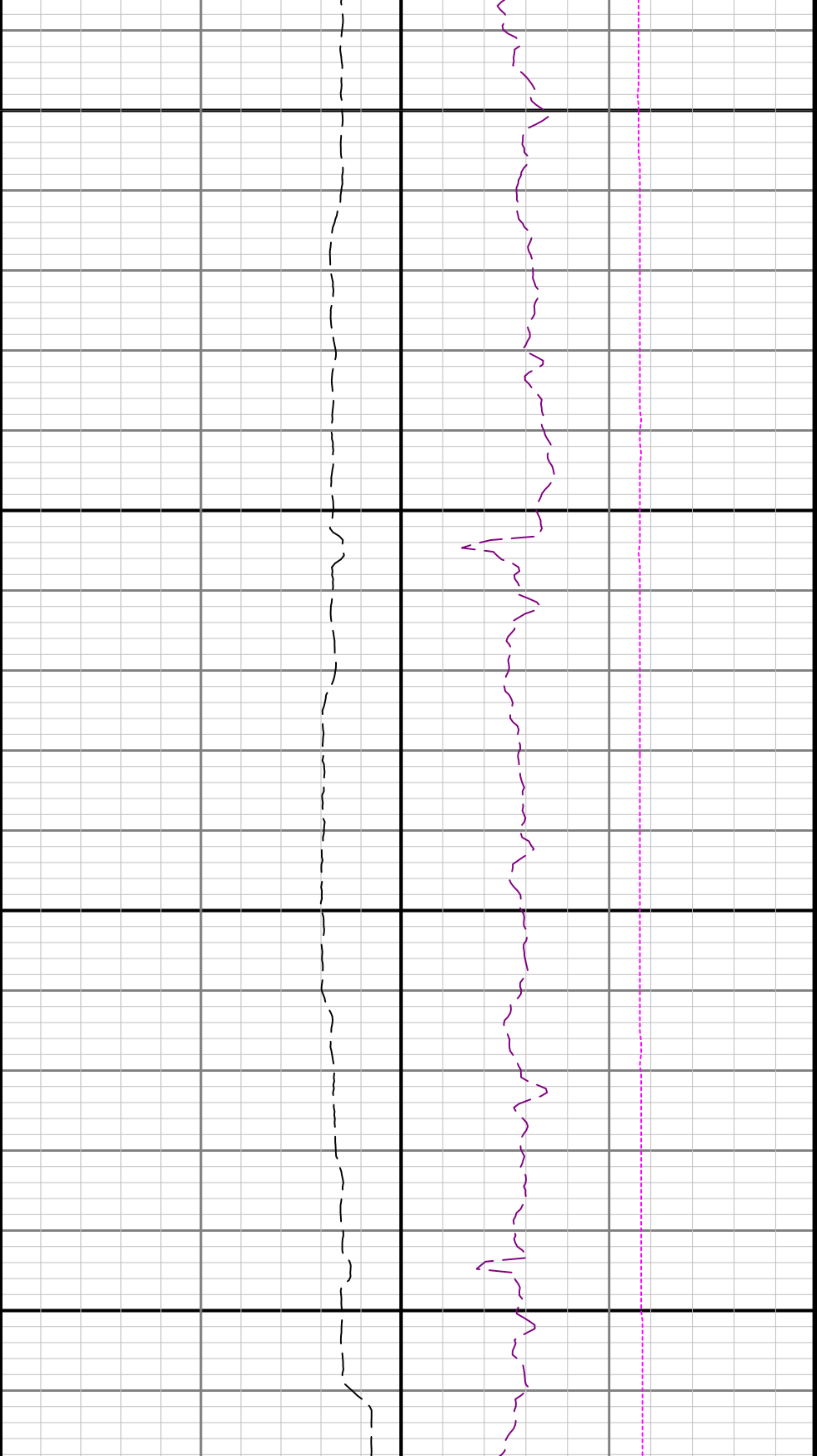


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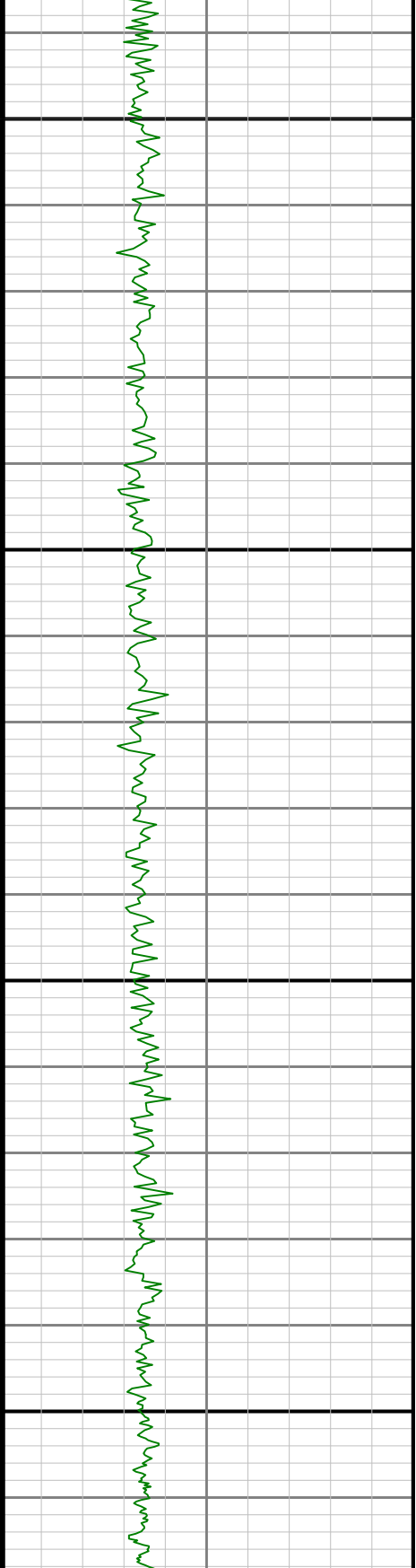


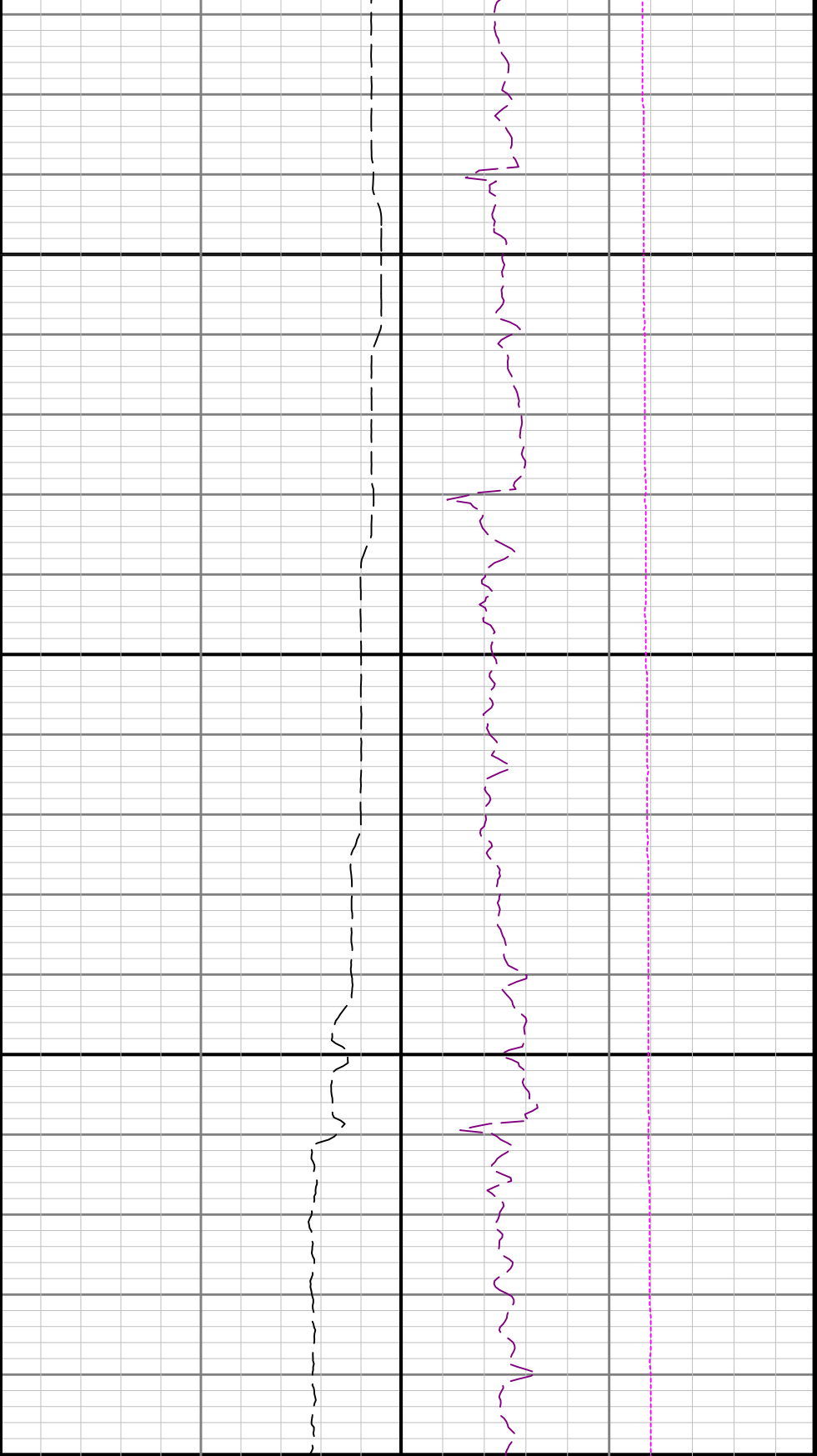




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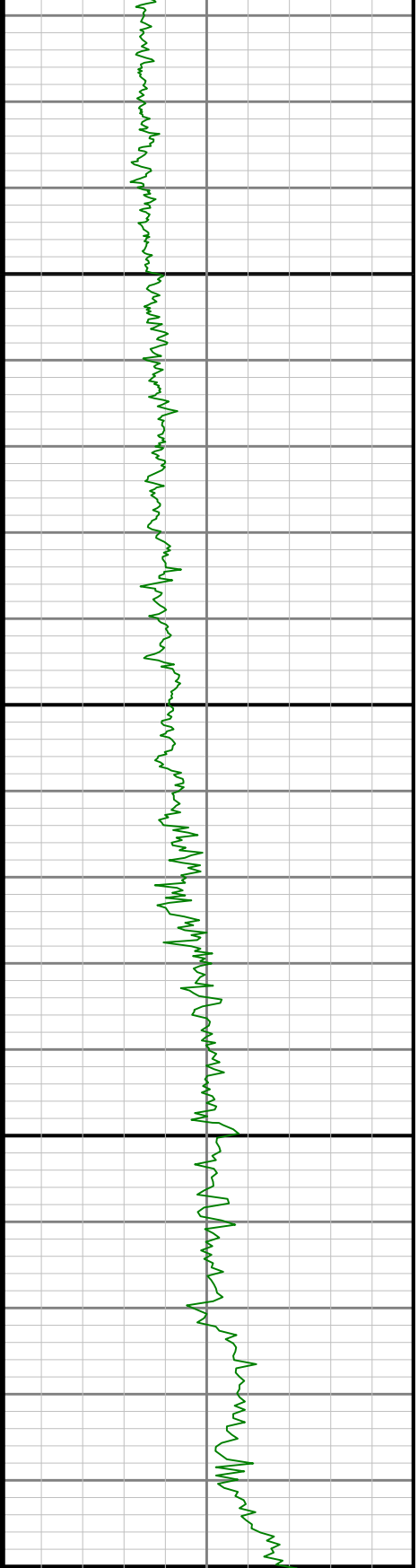
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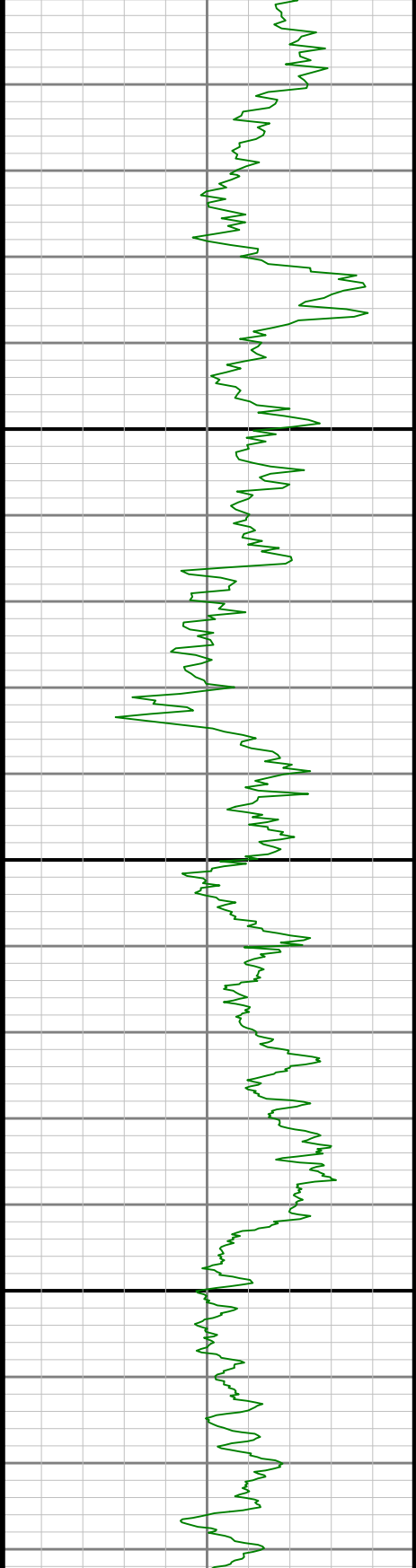




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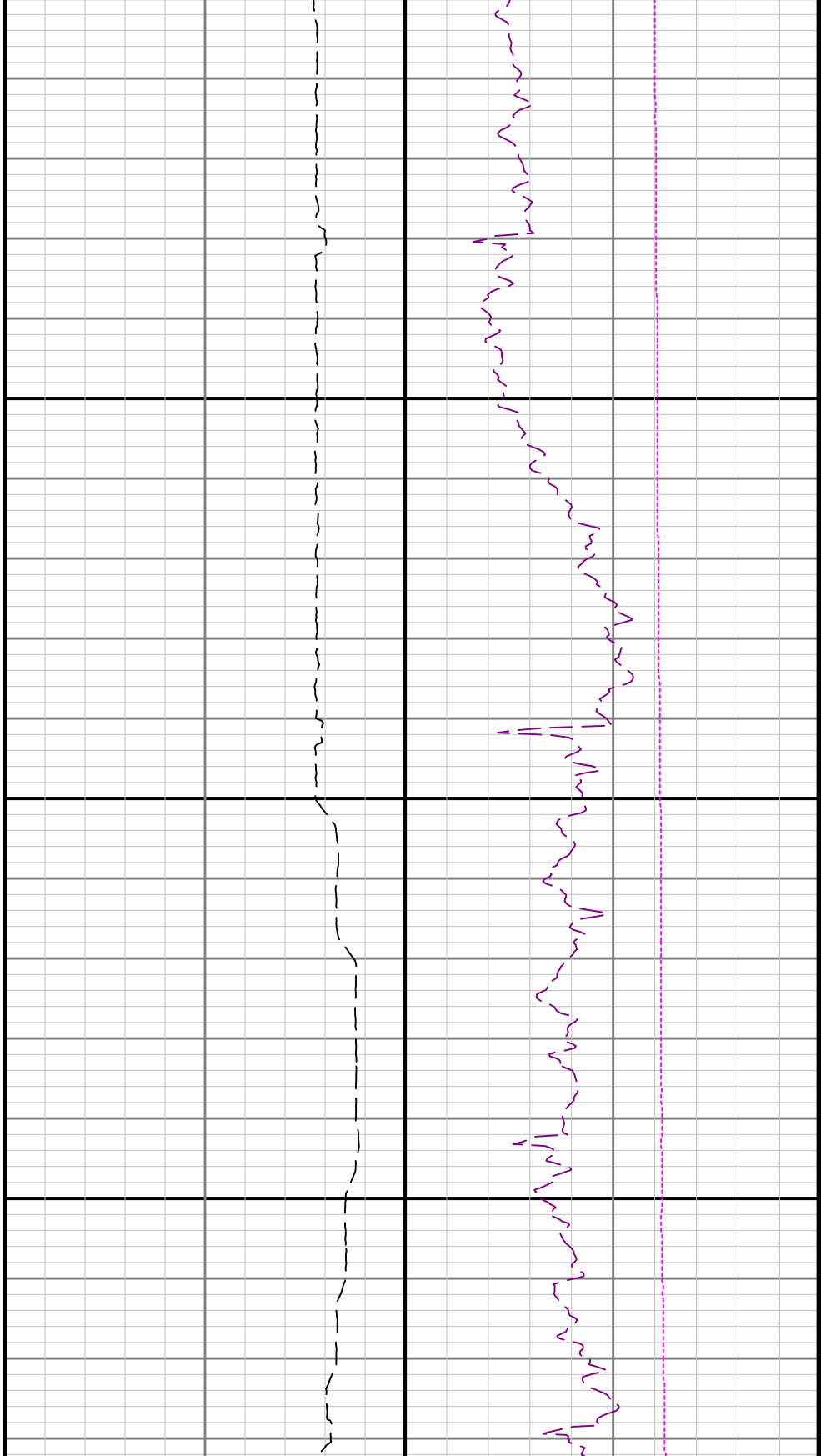
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0099

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		635.00	0.26	133.94	N/A	-2.21	2.18	634.99	-3626.01	-2.24	93.00	0.07	0.05	-11.79
		929.00	0.21	193.86	N/A	-2.58	2.24	928.99	-3732.01	-2.61	94.00	0.19	-0.07	42.47
		1024.00	0.23	205.87	N/A	-2.92	2.11	1023.99	-3637.01	-2.95	95.00	0.05	0.02	12.64
		1119.00	0.34	106.87	N/A	-3.18	2.30	1118.99	-3542.01	-3.20	95.00	0.46	0.12	-104.21
		1213.00	0.30	133.75	N/A	-3.43	2.75	1212.99	-3448.01	-3.46	94.00	0.16	-0.04	28.60
		1308.00	0.49	156.45	N/A	-3.97	3.09	1307.99	-3353.01	-4.01	95.00	0.26	0.20	23.89
		1403.00	0.51	190.12	N/A	-4.76	3.18	1402.98	-3258.02	-4.80	95.00	0.31	0.02	35.44
		1497.00	0.34	192.77	N/A	-5.44	3.04	1496.98	-3164.02	-5.48	94.00	0.18	-0.18	2.82
		1592.00	0.37	290.02	N/A	-5.61	2.69	1591.98	-3069.02	-5.65	95.00	0.56	0.03	102.37
		1687.00	0.57	18.69	N/A	-5.06	2.55	1686.98	-2974.02	-5.09	95.00	0.71	0.21	93.34
		1782.00	0.41	98.62	N/A	-4.66	3.04	1781.97	-2879.03	-4.70	95.00	0.68	-0.17	84.14
		1876.00	0.83	200.15	N/A	-5.35	3.14	1875.97	-2785.03	-5.39	94.00	1.06	0.45	108.01
		1939.00	1.11	215.75	N/A	-6.28	2.63	1938.96	-2722.04	-6.31	63.00	0.61	0.44	24.76
		1994.00	0.07	158.59	90.5	-6.74	2.33	1993.96	-2667.04	-6.77	55.00	1.95	-1.89	-103.93
		2088.00	0.12	122.41	96.0	-6.85	2.43	2087.96	-2573.04	-6.88	94.00	0.08	0.05	-38.49
		2183.00	0.10	150.26	101.4	-6.97	2.56	2182.96	-2478.04	-7.00	95.00	0.06	-0.02	29.32
		2278.00	1.58	178.15	104.1	-8.35	2.64	2277.94	-2383.06	-8.39	95.00	1.57	1.56	29.36
		2373.00	2.81	178.36	106.8	-11.99	2.75	2372.87	-2288.13	-12.02	95.00	1.29	1.29	0.22
		2467.00	4.85	179.89	109.5	-18.27	2.82	2466.66	-2194.34	-18.30	94.00	2.17	2.17	1.63
		2562.00	6.64	179.77	112.2	-27.78	2.85	2561.18	-2099.82	-27.81	95.00	1.88	1.88	-0.13
		2657.00	8.21	180.12	114.9	-40.05	2.86	2655.38	-2005.62	-40.09	95.00	1.65	1.65	0.37
		2751.00	11.72	179.89	117.6	-56.32	2.86	2747.94	-1913.06	-56.35	94.00	3.73	3.73	-0.24
		2846.00	11.28	180.60	117.6	-75.26	2.78	2841.04	-1819.96	-75.29	95.00	0.49	-0.46	0.75
		2941.00	11.66	179.09	117.6	-94.15	2.84	2934.14	-1726.86	-94.17	95.00	0.51	0.40	-1.59
		3036.00	11.21	180.35	120.3	-112.98	2.94	3027.25	-1633.75	-113.01	95.00	0.54	-0.47	1.33
		3130.00	10.33	181.36	123.0	-130.54	2.68	3119.60	-1541.40	-130.57	94.00	0.96	-0.94	1.07
		3225.00	10.58	190.40	123.0	-147.64	0.90	3213.03	-1447.97	-147.64	95.00	1.74	0.26	9.52
		3320.00	11.61	180.75	125.7	-165.78	-0.80	3306.26	-1354.74	-165.75	95.00	2.23	1.08	-10.16
		3414.00	11.10	180.71	128.4	-184.28	-1.03	3398.42	-1262.58	-184.25	94.00	0.54	-0.54	-0.04
		3509.00	10.82	181.65	128.4	-202.34	-1.40	3491.68	-1169.32	-202.31	95.00	0.35	-0.29	0.99
		3603.00	11.70	179.59	131.1	-220.69	-1.59	3583.87	-1077.13	-220.65	94.00	1.03	0.94	-2.19
		3698.00	11.60	179.58	131.1	-239.87	-1.45	3676.92	-984.08	-239.84	95.00	0.11	-0.11	-0.01
		3792.00	11.50	178.95	131.1	-258.69	-1.21	3769.01	-891.99	-258.66	94.00	0.17	-0.11	-0.67
		3887.00	11.68	179.54	133.8	-277.78	-0.96	3862.08	-798.92	-277.74	95.00	0.23	0.19	0.62
		3981.00	11.56	180.69	133.8	-296.71	-0.99	3954.15	-706.85	-296.67	94.00	0.28	-0.13	1.22
		4075.00	11.36	182.18	136.5	-315.38	-1.46	4046.28	-614.72	-315.34	94.00	0.38	-0.21	1.59
		4170.00	11.37	182.64	139.2	-334.08	-2.25	4139.41	-521.59	-334.03	95.00	0.10	0.01	0.48
		4264.00	11.22	182.57	141.9	-352.47	-3.08	4231.59	-429.41	-352.41	94.00	0.16	-0.16	-0.07
		4359.00	11.53	182.37	141.9	-371.19	-3.89	4324.73	-336.27	-371.12	95.00	0.33	0.33	-0.21
		4453.00	11.55	182.16	141.9	-389.98	-4.63	4416.83	-244.17	-389.90	94.00	0.05	0.02	-0.22
		4548.00	11.15	182.91	141.9	-408.66	-5.46	4509.97	-151.03	-408.56	95.00	0.45	-0.42	0.79
		4643.00	11.41	182.51	144.6	-427.22	-6.34	4603.13	-57.87	-427.11	95.00	0.29	0.27	-0.42
		4737.00	11.38	182.41	144.6	-445.78	-7.13	4695.28	34.28	-445.65	94.00	0.04	-0.03	-0.11
		4832.00	11.29	182.31	147.3	-464.43	-7.90	4788.43	127.43	-464.30	95.00	0.10	-0.09	-0.11
		4926.00	11.57	182.18	150.0	-483.05	-8.63	4880.56	219.56	-482.90	94.00	0.30	0.30	-0.14
		5021.00	11.41	182.51	150.0	-501.95	-9.41	4973.66	312.66	-501.80	95.00	0.18	-0.17	0.35
		5115.00	11.05	184.14	152.7	-520.23	-10.46	5065.86	404.86	-520.06	94.00	0.51	-0.38	1.73
		5210.00	11.29	183.24	155.4	-538.59	-11.65	5159.06	498.06	-538.41	95.00	0.31	0.25	-0.95
		5304.00	11.40	183.65	155.4	-557.05	-12.76	5251.22	590.22	-556.85	94.00	0.15	0.12	0.44
		5399.00	11.28	184.68	158.1	-575.68	-14.11	5344.37	683.37	-575.46	95.00	0.25	-0.13	1.08
		5493.00	11.11	187.14	160.8	-593.83	-15.99	5436.58	775.58	-593.59	94.00	0.54	-0.18	2.62
		5588.00	11.19	183.30	163.5	-612.11	-17.66	5529.79	868.79	-611.85	95.00	0.79	0.08	-4.04
		5682.00	10.80	185.92	163.5	-629.98	-19.09	5622.06	961.06	-629.70	94.00	0.67	-0.41	2.79
		5777.00	10.87	191.01	166.2	-647.63	-21.72	5715.37	1054.37	-647.31	95.00	1.01	0.07	5.36
		5871.00	11.27	182.33	163.5	-665.51	-23.79	5807.63	1146.63	-665.16	94.00	1.82	0.43	-9.23
		5966.00	11.25	182.60	168.9	-684.04	-24.58	5900.80	1239.80	-683.68	95.00	0.06	-0.02	0.28
		6061.00	5.22	168.33	168.9	-697.54	-24.13	5994.79	1333.79	-697.19	95.00	6.65	-6.35	-15.02
		6155.00	3.38	0.51	171.6	-698.96	-23.24	6088.68	1427.68	-698.62	94.00	9.10	-1.96	-178.53
		6250.00	12.02	357.09	171.6	-686.26	-23.72	6182.74	1521.74	-685.91	95.00	9.10	9.09	-3.60
		6345.00	19.30	356.72	174.3	-660.67	-25.12	6274.15	1613.15	-660.31	95.00	7.66	7.66	-0.39
		6439.00	26.43	357.70	177.0	-624.21	-26.85	6360.71	1699.71	-623.83	94.00	7.60	7.59	1.04

	6534.00	35.40	359.81	179.7	-575.47	-27.79	6442.13	1781.13	-575.08	95.00	9.51	9.44	2.22
	6628.00	43.47	1.38	179.7	-515.82	-27.10	6514.67	1853.67	-515.44	94.00	8.65	8.59	1.67
	6723.00	51.34	1.28	182.5	-445.96	-25.48	6578.92	1917.92	-445.61	95.00	8.28	8.28	-0.11
	6818.00	59.60	1.13	185.2	-367.78	-23.85	6632.72	1971.72	-367.45	95.00	8.70	8.69	-0.16
	6913.00	70.44	0.05	187.9	-281.80	-23.00	6672.78	2011.78	-281.49	95.00	11.46	11.41	-1.14
	7007.00	80.75	359.97	190.6	-190.88	-22.98	6696.14	2035.14	-190.58	94.00	10.97	10.97	-0.09
	7102.00	85.99	0.05	193.3	-96.54	-22.96	6707.10	2046.10	-96.25	95.00	5.52	5.52	0.08
	7196.00	89.78	0.34	193.3	-2.63	-22.64	6710.57	2049.57	-2.35	94.00	4.04	4.03	0.31
	7291.00	89.66	0.12	198.7	92.37	-22.26	6711.03	2050.03	92.64	95.00	0.26	-0.13	-0.23
	7385.00	89.35	0.14	198.7	186.37	-22.05	6711.85	2050.85	186.63	94.00	0.33	-0.33	0.02
	7480.00	89.69	0.52	201.4	281.36	-21.50	6712.64	2051.64	281.61	95.00	0.54	0.36	0.40
	7575.00	89.41	359.70	201.4	376.36	-21.32	6713.39	2052.39	376.59	95.00	0.91	-0.29	-0.86
	7669.00	89.57	359.93	204.1	470.35	-21.62	6714.23	2053.23	470.59	94.00	0.30	0.17	0.24
	7764.00	89.72	0.77	209.5	565.35	-21.04	6714.81	2053.81	565.57	95.00	0.90	0.16	0.88
	7859.00	89.69	359.75	209.5	660.35	-20.61	6715.30	2054.30	660.55	95.00	1.07	-0.03	-1.07
	7953.00	89.08	359.40	209.5	754.34	-21.31	6716.31	2055.31	754.54	94.00	0.75	-0.65	-0.37
	8048.00	88.92	357.62	212.2	849.29	-23.78	6717.97	2056.97	849.52	95.00	1.88	-0.17	-1.87
	8143.00	89.23	357.80	214.9	944.20	-27.57	6719.50	2058.50	944.47	95.00	0.38	0.33	0.19
	8237.00	89.26	357.52	214.9	1038.11	-31.41	6720.74	2059.74	1038.42	94.00	0.30	0.03	-0.30
	8332.00	90.52	355.91	214.9	1132.95	-36.86	6720.92	2059.92	1133.32	95.00	2.15	1.33	-1.69
	8426.00	89.82	357.76	214.9	1226.80	-42.05	6720.65	2059.65	1227.23	94.00	2.10	-0.74	1.97
	8521.00	88.83	359.32	217.6	1321.76	-44.47	6721.77	2060.77	1322.21	95.00	1.94	-1.04	1.64
	8616.00	89.17	359.65	220.3	1416.74	-45.32	6723.42	2062.42	1417.20	95.00	0.50	0.36	0.35
	8711.00	90.28	0.06	220.3	1511.74	-45.56	6723.88	2062.88	1512.19	95.00	1.25	1.17	0.43
	8805.00	88.64	0.22	223.0	1605.73	-45.33	6724.77	2063.77	1606.17	94.00	1.75	-1.74	0.17
	8900.00	89.45	358.52	223.0	1700.71	-46.37	6726.35	2065.35	1701.15	95.00	1.98	0.85	-1.79
	8995.00	91.35	1.27	223.0	1795.69	-46.55	6725.69	2064.69	1796.13	95.00	3.52	2.00	2.89
	9090.00	90.65	1.62	223.0	1890.65	-44.15	6724.03	2063.03	1891.05	95.00	0.82	-0.74	0.37
	9184.00	90.31	1.55	225.7	1984.61	-41.55	6723.24	2062.24	1984.97	94.00	0.37	-0.36	-0.07
	9279.00	90.52	2.75	225.7	2079.54	-37.99	6722.55	2061.55	2079.85	95.00	1.28	0.22	1.26
	9374.00	91.08	3.13	225.7	2174.40	-33.12	6721.23	2060.23	2174.65	95.00	0.71	0.59	0.40
	9468.00	90.46	359.63	228.4	2268.35	-30.85	6719.96	2058.96	2268.56	94.00	3.78	-0.66	-3.72
	9563.00	89.69	358.51	228.4	2363.34	-32.40	6719.84	2058.84	2363.56	95.00	1.43	-0.81	-1.18
	9657.00	89.14	358.16	228.4	2457.29	-35.13	6720.80	2059.80	2457.54	94.00	0.69	-0.59	-0.37
	9752.00	89.72	357.89	231.1	2552.23	-38.40	6721.74	2060.74	2552.51	95.00	0.67	0.61	-0.28
	9847.00	89.32	357.94	233.8	2647.16	-41.86	6722.54	2061.54	2647.48	95.00	0.42	-0.42	0.05
	9942.00	90.37	358.27	233.8	2742.11	-45.00	6722.79	2061.79	2742.46	95.00	1.16	1.11	0.35
	10036.00	89.94	357.27	233.8	2836.04	-48.66	6722.54	2061.54	2836.42	94.00	1.16	-0.46	-1.06
	10131.00	89.78	358.03	233.8	2930.96	-52.55	6722.77	2061.77	2931.38	95.00	0.82	-0.17	0.80
	10226.00	89.78	357.77	236.5	3025.89	-56.03	6723.14	2062.14	3026.35	95.00	0.27	0.00	-0.27
	10320.00	88.80	357.86	236.5	3119.81	-59.62	6724.30	2063.30	3120.31	94.00	1.05	-1.04	0.10
	10415.00	89.26	357.36	239.2	3214.72	-63.58	6725.91	2064.91	3215.26	95.00	0.72	0.48	-0.53
	10509.00	89.38	358.02	239.2	3308.63	-67.37	6727.03	2066.03	3309.21	94.00	0.71	0.13	0.70
	10604.00	88.98	357.72	239.2	3403.56	-70.90	6728.39	2067.39	3404.18	95.00	0.53	-0.42	-0.32
	10698.00	89.26	358.89	241.9	3497.50	-73.68	6729.83	2068.83	3498.15	94.00	1.28	0.30	1.24
	10793.00	89.60	357.59	241.9	3592.45	-76.59	6730.77	2069.77	3593.13	95.00	1.41	0.36	-1.37
	10888.00	89.08	356.86	241.9	3687.33	-81.19	6731.87	2070.87	3688.06	95.00	0.94	-0.55	-0.77
	10982.00	89.60	357.81	244.6	3781.22	-85.56	6732.95	2071.95	3781.99	94.00	1.15	0.55	1.01
	11077.00	89.63	357.30	239.2	3876.14	-89.62	6733.59	2072.59	3876.95	95.00	0.54	0.03	-0.54
	11202.00	89.51	359.81	241.9	4001.08	-92.77	6734.53	2073.53	4001.92	125.00	2.01	-0.10	2.01
	11296.00	90.12	0.46	241.9	4095.08	-92.55	6734.83	2073.83	4095.91	94.00	0.95	0.65	0.69
	11391.00	89.75	358.98	244.6	4190.08	-93.01	6734.94	2073.94	4190.91	95.00	1.61	-0.39	-1.56
	11485.00	89.82	359.80	244.6	4284.07	-94.01	6735.29	2074.29	4284.91	94.00	0.88	0.07	0.87
	11580.00	90.06	359.97	244.6	4379.07	-94.20	6735.39	2074.39	4379.90	95.00	0.31	0.25	0.18
	11674.00	90.18	359.75	244.6	4473.07	-94.43	6735.19	2074.19	4473.90	94.00	0.27	0.13	-0.23
	11769.00	89.85	359.05	247.3	4568.06	-95.43	6735.17	2074.17	4568.89	95.00	0.81	-0.35	-0.74
	11863.00	89.69	359.33	247.3	4662.05	-96.76	6735.55	2074.55	4662.89	94.00	0.34	-0.17	0.30
	11958.00	89.72	358.83	247.3	4757.04	-98.28	6736.04	2075.04	4757.89	95.00	0.53	0.03	-0.53
	12053.00	89.69	359.35	250.0	4852.03	-99.79	6736.53	2075.53	4852.89	95.00	0.55	-0.03	0.55
	12147.00	89.63	359.71	250.0	4946.02	-100.56	6737.08	2076.08	4946.89	94.00	0.39	-0.06	0.38
	12242.00	89.85	358.68	250.0	5041.01	-101.90	6737.51	2076.51	5041.88	95.00	1.11	0.23	-1.08

	12337.00	89.69	358.43	252.7	5135.98	-104.29	6737.90	2076.90	5136.88	95.00	0.31	-0.17	-0.26
	12431.00	89.54	358.81	252.7	5229.95	-106.55	6738.53	2077.53	5230.87	94.00	0.43	-0.16	0.40
	12526.00	89.78	358.87	255.4	5324.93	-108.48	6739.09	2078.09	5325.86	95.00	0.26	0.25	0.06
	12620.00	89.51	359.65	255.4	5418.92	-109.69	6739.67	2078.67	5419.86	94.00	0.88	-0.29	0.83
	12715.00	89.69	359.59	255.4	5513.91	-110.32	6740.34	2079.34	5514.86	95.00	0.20	0.19	-0.06
	12810.00	89.94	359.67	255.4	5608.91	-110.94	6740.64	2079.64	5609.85	95.00	0.28	0.26	0.08
	12904.00	89.91	359.51	255.4	5702.91	-111.61	6740.77	2079.77	5703.85	94.00	0.17	-0.03	-0.17
	12999.00	89.85	359.41	247.3	5797.90	-112.50	6740.97	2079.97	5798.85	95.00	0.12	-0.06	-0.11
	13093.00	90.12	359.34	252.7	5891.90	-113.53	6740.99	2079.99	5892.85	94.00	0.30	0.29	-0.07
	13188.00	90.18	358.77	252.7	5986.88	-115.10	6740.74	2079.74	5987.85	95.00	0.60	0.06	-0.60
	13283.00	90.00	358.62	252.7	6081.86	-117.26	6740.59	2079.59	6082.84	95.00	0.25	-0.19	-0.16
	13377.00	89.75	359.78	255.4	6175.85	-118.57	6740.80	2079.80	6176.84	94.00	1.26	-0.27	1.23
	13472.00	89.94	0.33	258.1	6270.85	-118.48	6741.05	2080.05	6271.83	95.00	0.61	0.20	0.58
	13566.00	90.09	0.35	258.1	6364.84	-117.92	6741.03	2080.03	6365.82	94.00	0.16	0.16	0.02
	13661.00	90.37	359.86	258.1	6459.84	-117.75	6740.65	2079.65	6460.81	95.00	0.59	0.29	-0.52
	13756.00	90.09	359.82	260.8	6554.84	-118.01	6740.27	2079.27	6555.80	95.00	0.30	-0.29	-0.04
	13850.00	89.85	0.75	260.8	6648.84	-117.55	6740.32	2079.32	6649.79	94.00	1.02	-0.26	0.99
	13945.00	90.09	0.90	260.8	6743.83	-116.18	6740.37	2079.37	6744.75	95.00	0.30	0.25	0.16
	14040.00	89.78	0.88	263.5	6838.82	-114.70	6740.47	2079.47	6839.71	95.00	0.33	-0.33	-0.02
	14134.00	89.97	1.30	266.2	6932.80	-112.91	6740.68	2079.68	6933.67	94.00	0.49	0.20	0.45
	14229.00	90.18	0.42	263.5	7027.79	-111.49	6740.55	2079.55	7028.63	95.00	0.95	0.22	-0.93
	14324.00	90.00	0.43	263.5	7122.79	-110.78	6740.41	2079.41	7123.61	95.00	0.19	-0.19	0.01
	14418.00	89.97	1.16	266.2	7216.78	-109.48	6740.43	2079.43	7217.58	94.00	0.78	-0.03	0.78
	14513.00	90.12	0.19	269.0	7311.77	-108.36	6740.36	2079.36	7312.55	95.00	1.03	0.16	-1.02
	14608.00	89.97	0.38	269.0	7406.77	-107.89	6740.28	2079.28	7407.54	95.00	0.25	-0.16	0.20
	14702.00	89.88	0.32	269.0	7500.77	-107.31	6740.40	2079.40	7501.52	94.00	0.12	-0.10	-0.06
	14797.00	90.18	0.61	269.0	7595.76	-106.54	6740.35	2079.35	7596.50	95.00	0.44	0.32	0.31
	14892.00	89.91	1.02	269.0	7690.75	-105.19	6740.28	2079.28	7691.47	95.00	0.52	-0.28	0.43
	14986.00	89.97	1.06	269.0	7784.74	-103.49	6740.38	2079.38	7785.42	94.00	0.08	0.06	0.04
	15081.00	90.00	0.33	269.0	7879.73	-102.33	6740.40	2079.40	7880.39	95.00	0.77	0.03	-0.77
	15178.00	89.85	0.74	269.0	7976.72	-101.43	6740.53	2079.53	7977.37	97.00	0.45	-0.15	0.42
	15270.00	89.75	0.92	269.0	8068.71	-100.09	6740.85	2079.85	8069.33	92.00	0.22	-0.11	0.20
	15365.00	89.85	1.29	269.0	8163.70	-98.26	6741.18	2080.18	8164.29	95.00	0.40	0.11	0.39
	15459.00	89.51	1.16	269.0	8257.67	-96.25	6741.71	2080.71	8258.23	94.00	0.39	-0.36	-0.14
	15554.00	89.66	1.03	269.0	8352.65	-94.44	6742.40	2081.40	8353.18	95.00	0.21	0.16	-0.14
	15649.00	89.91	0.89	269.0	8447.64	-92.85	6742.75	2081.75	8448.14	95.00	0.30	0.26	-0.15
	15743.00	89.69	0.92	269.0	8541.63	-91.36	6743.08	2082.08	8542.10	94.00	0.24	-0.23	0.03
	15838.00	89.88	1.38	269.0	8636.61	-89.45	6743.44	2082.44	8637.05	95.00	0.52	0.20	0.48
	15933.00	90.22	359.65	269.0	8731.60	-88.60	6743.35	2082.35	8732.03	95.00	1.86	0.36	-1.82
	16027.00	89.72	358.81	269.0	8825.59	-89.86	6743.40	2082.40	8826.02	94.00	1.04	-0.53	-0.89
	16122.00	89.60	359.49	271.7	8920.58	-91.27	6743.97	2082.97	8921.02	95.00	0.73	-0.13	0.72
	16217.00	89.78	359.39	271.7	9015.57	-92.20	6744.48	2083.48	9016.02	95.00	0.22	0.19	-0.11
	16311.00	89.91	359.22	271.7	9109.56	-93.34	6744.73	2083.73	9110.02	94.00	0.23	0.14	-0.18
	16500.00	90.06	358.43	271.7	9298.52	-97.22	6744.78	2083.78	9299.01	189.00	0.43	0.08	-0.42
	16595.00	89.85	358.36	271.7	9393.48	-99.88	6744.86	2083.86	9394.00	95.00	0.23	-0.22	-0.07
	16689.00	89.85	358.53	271.7	9487.45	-102.43	6745.11	2084.11	9487.99	94.00	0.18	-0.00	0.18
	16784.00	89.69	359.00	274.4	9582.43	-104.48	6745.49	2084.49	9582.99	95.00	0.52	-0.17	0.49
	16878.00	89.97	359.54	274.4	9676.42	-105.67	6745.77	2084.77	9676.98	94.00	0.65	0.30	0.57
	16973.00	90.12	359.40	274.4	9771.41	-106.55	6745.69	2084.69	9771.98	95.00	0.22	0.16	-0.15
Projection	17016.00	90.12	359.40	N/A	9814.41	-107.00	6745.60	2084.60	9814.98	43.00	0.00	-0.01	-0.00