



LWD MEMORY LOG

Gamma Ray

Scale: **Company: Noble Energy**

1:240	Well:	Vogler State D33-763
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True Vertical Depth	Field: Wattenberg
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County:	Weid	County:	United states
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Driller's Depth **State:** **Colorado**

Status:	Surface Location:	Other Services
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Latitude: 40° 12' 23.936" N

API No:	05-123-48559-00	Directional
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Job ID: 110236119

SEC:	21	TWN:	3N	RGE:	64W
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Permanent Datum (P.D.):	Mean Sea Level	Elevation:	0.00 ft	Elev. KB:	N/A
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Log Measured From:	Rig Floor	Above P.D.:	4826.00 ft	Elev G.I.:	4796.00 ft
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From: 2020-02-22	Drilled (ft)	Logged (ft)	Azi Reference North:	Grid	Dip Angle: (deg)	66.63
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10:	2020-02-25	10p:	1927.00	10p:	1927.00	Total Magnetic Field Strength: (nT)	519/2
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Spud:	2020-02-14	Bottom:	17558.00	Bottom:	17545.00	Mag to Reference North Correction: (deg)	7.39
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Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
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13.500	30.00	1927.00	9.625	36.00	30.00	1917.00
30.00						

8.500	1927.00	17558.00			
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Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
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Oil Based Mud	1927.00	17558.00	8.500	15631.00	0.20 58.46	90.74 179.85
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Acquisition System	Software Version
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Cadence RT5.5

Plot Studio 5.5.8716.2

Rig: H&P 321

Contractor: Helmerich & Payne Drilling Co.

ayne Drilling Co

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Log Run Summary

Run No	Bit Run No.	Bit Size	Bit Type	Bit Gauge Length	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	8.500	PDC	3.00	AutoTrak Curve	1927.00	17545.00	1927.00	17558.00	2020-02-22 18:47	2020-02-25 07:18	53.98

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Tien Bui	2020-02-21	2020-02-25						

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+ (%)
2020-02-22 08:40	1	1927.00	Oil Based Mud	9.3	10	N/A	19.5	76.8/23.2	Active Pit	29000	0.00
2020-02-23 09:11	1	6476.00	Oil Based Mud	9.5	12	N/A	17.5	79.7/20.3	Active Pit	29000	0.00
2020-02-24 08:26	1	12463.00	Oil Based Mud	10.0	16	N/A	19.5	79.7/20.3	Active Pit	25500	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	14452345	Near Bit Inclination	5.93	6.78	7.000	4.330
1	AutoTrak Curve Steering Unit	14452345	Near Bit VSS	5.93	6.78	7.000	4.330
1	AutoTrak Curve MWD	14367858	Gamma (single)	2.74	12.95	7.000	3.250
1	AutoTrak Curve MWD	14367858	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

Comments

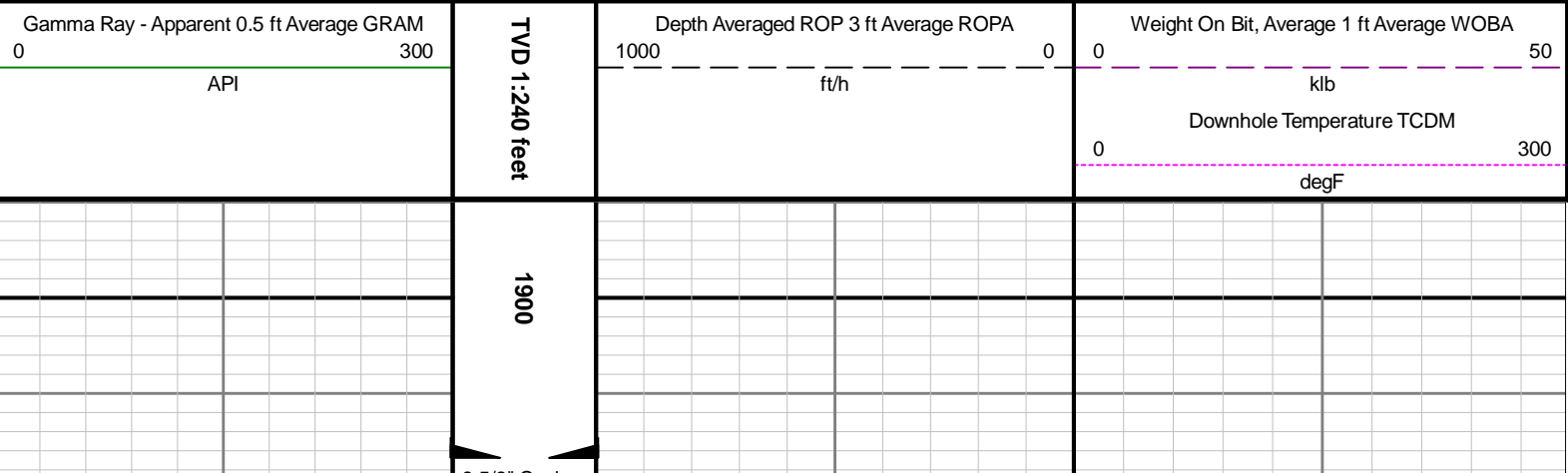
- 1
- Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
- 2
- Baker Hughes LWD Run 1 utilized 6 ¾ inch NaviGamma service (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1960 to 16493 feet MD (1960 to 5954 feet TVD).
- 3
- The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.
- 4
- Several gaps appear in the log due to drilling ahead before the assembly had time to properly power on.

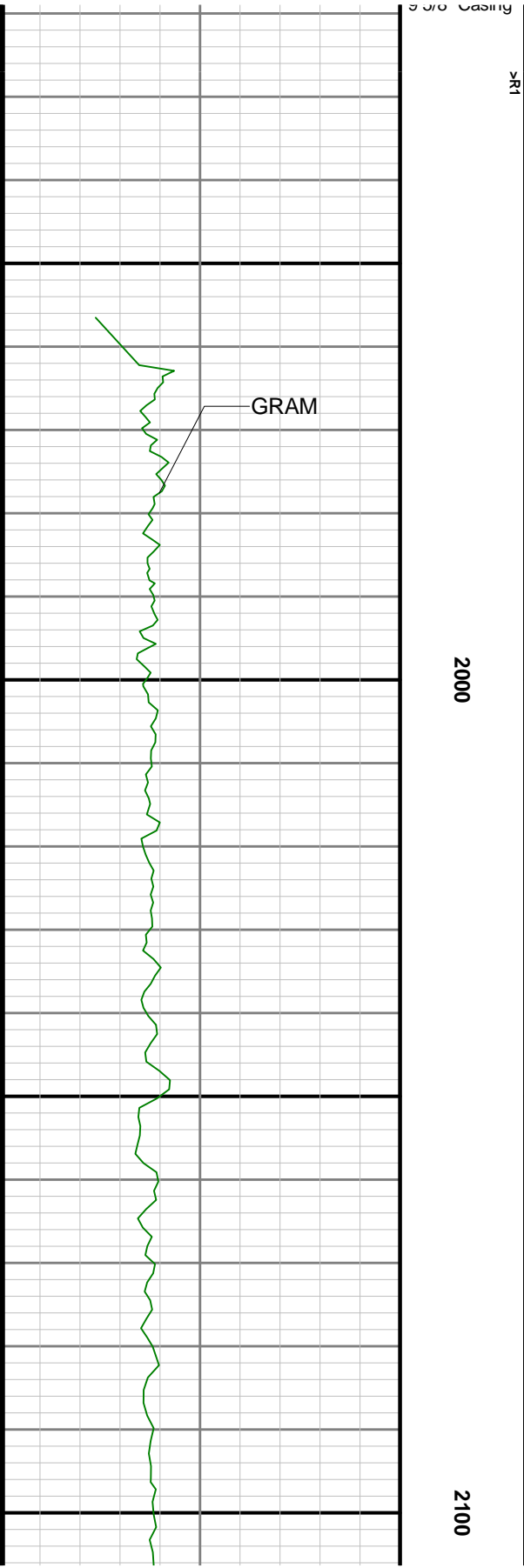
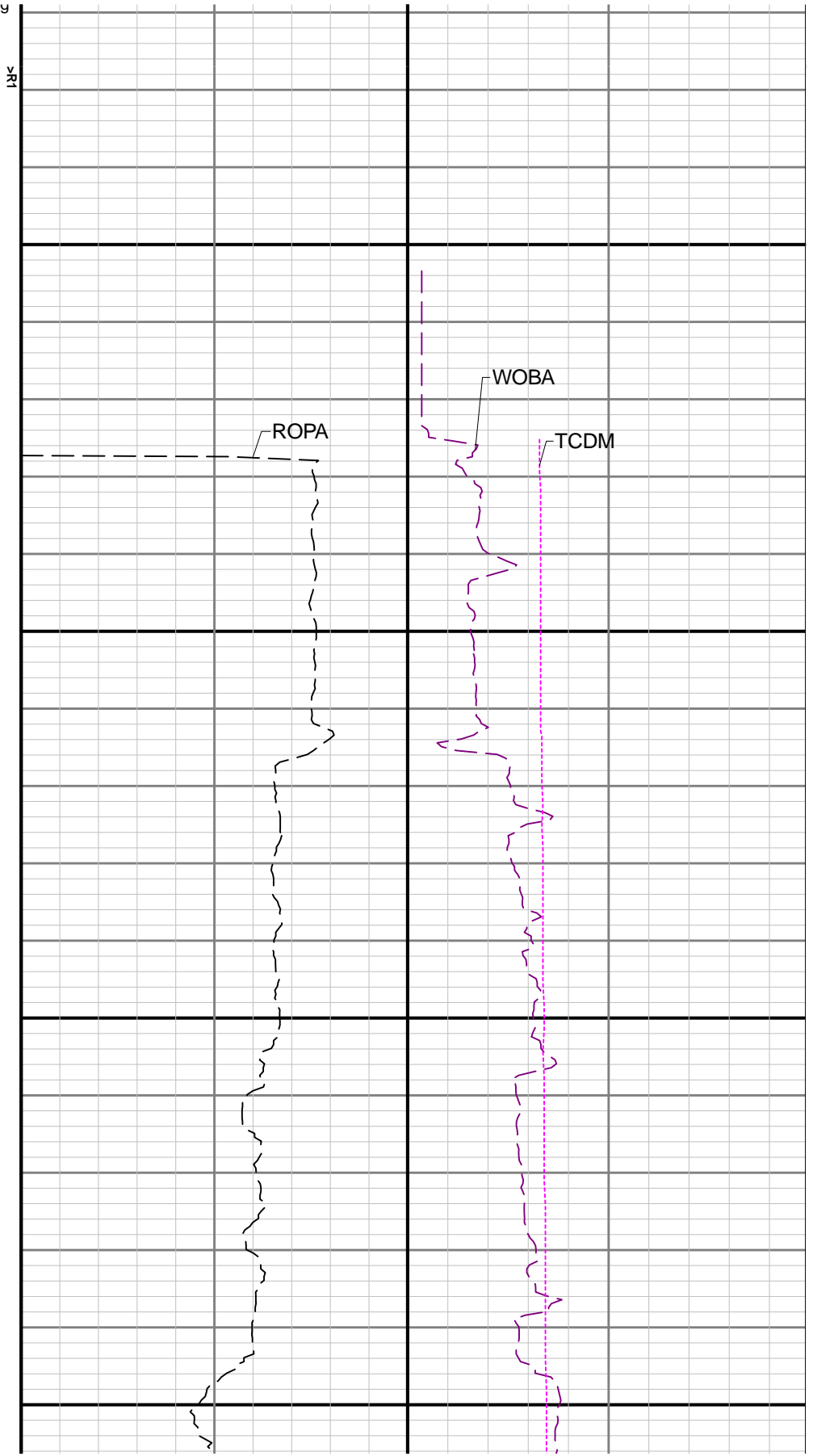
Remarks

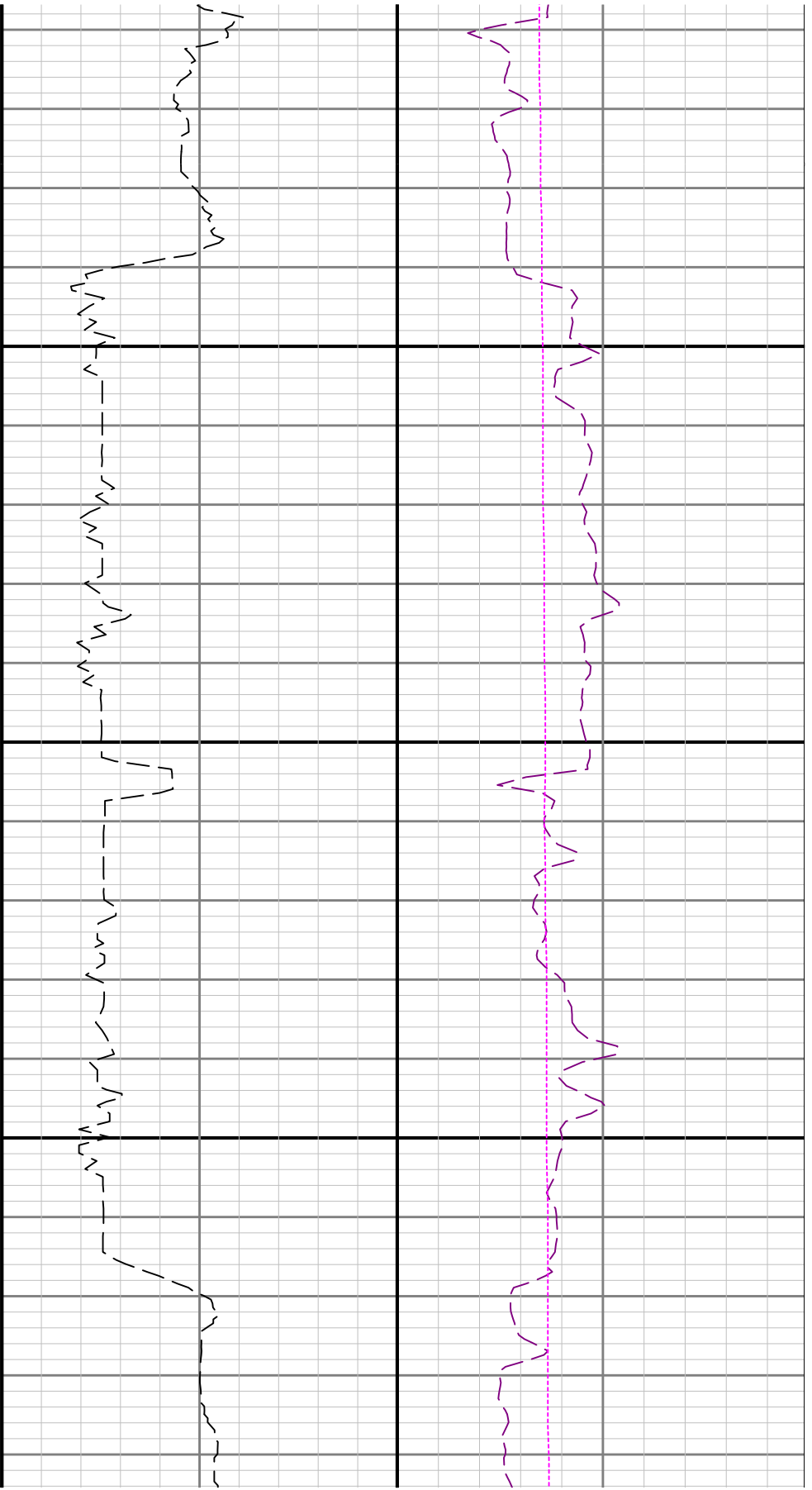
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
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Curve Mnemonics

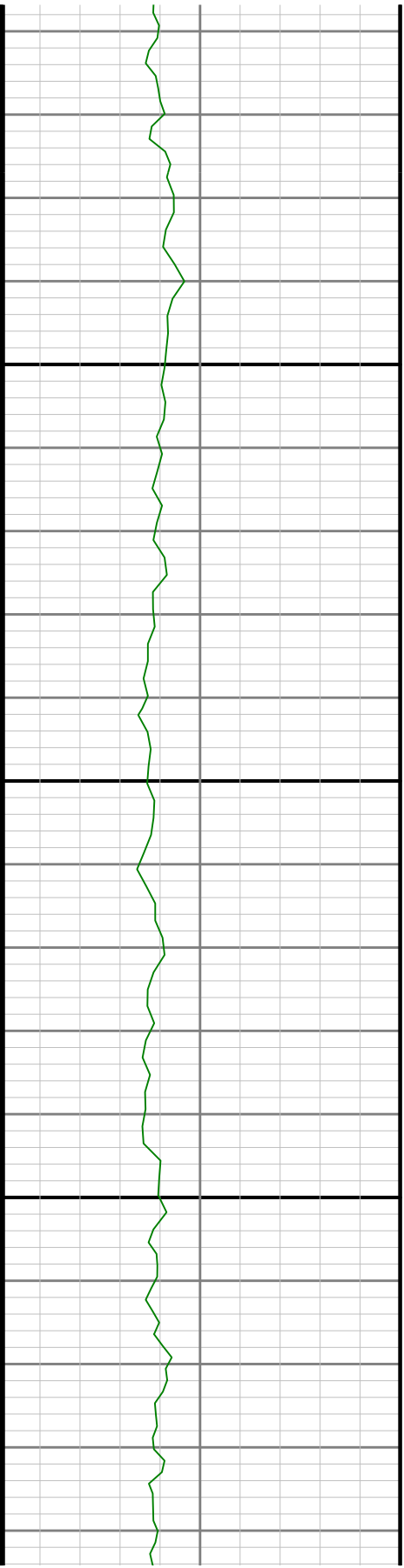
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight On Bit 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF

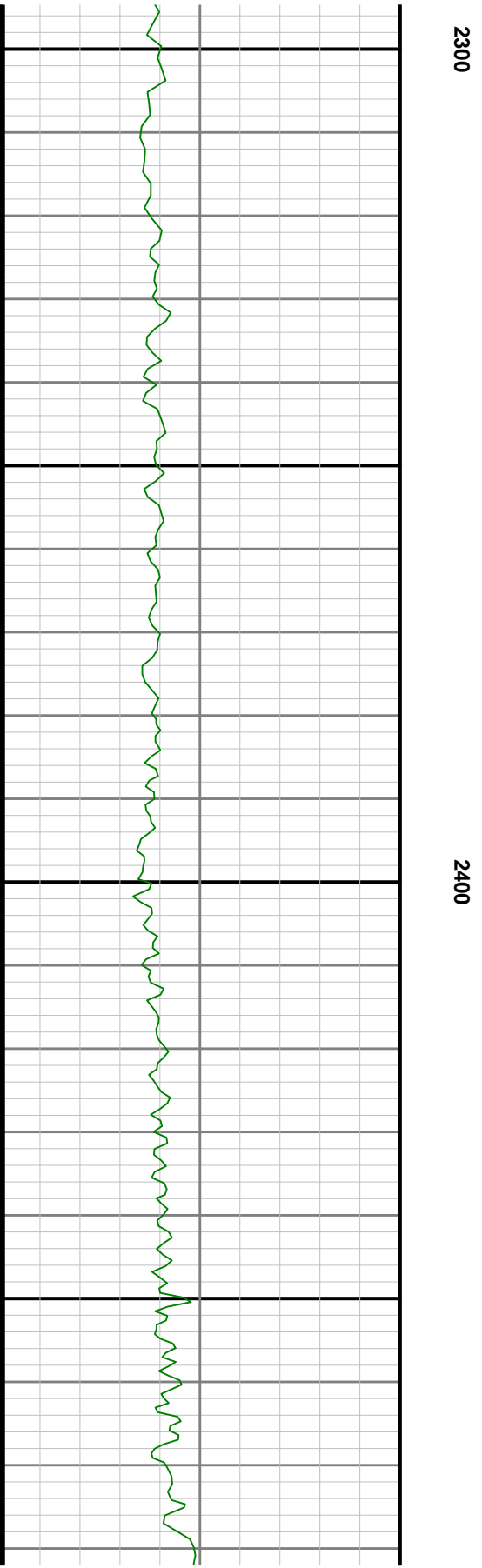


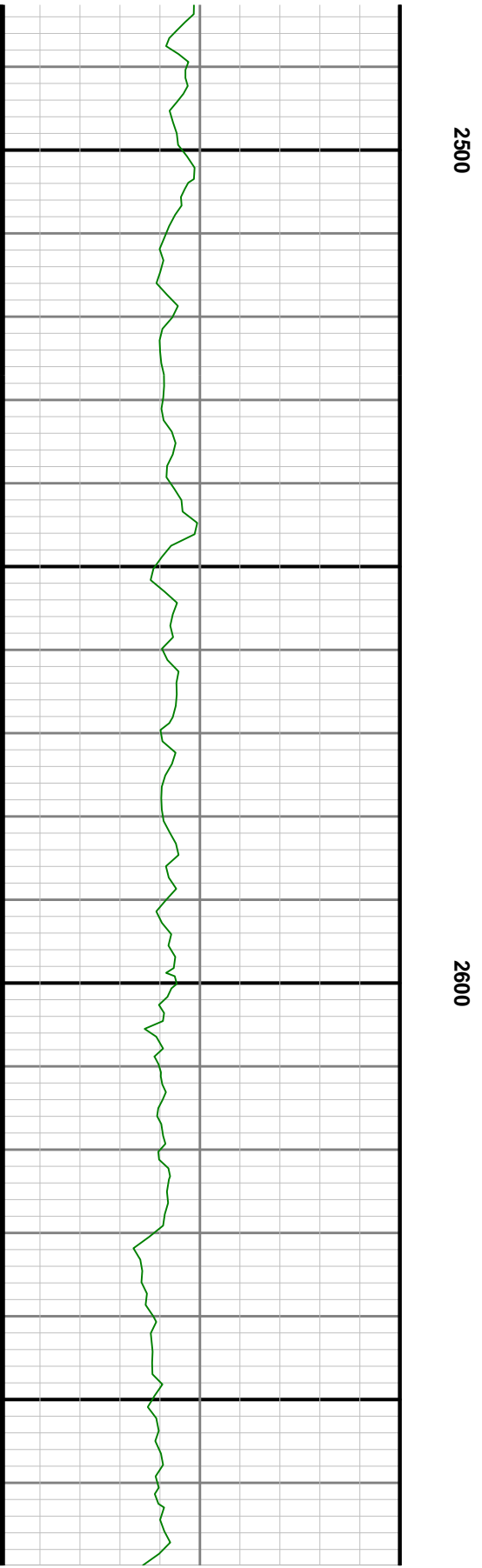


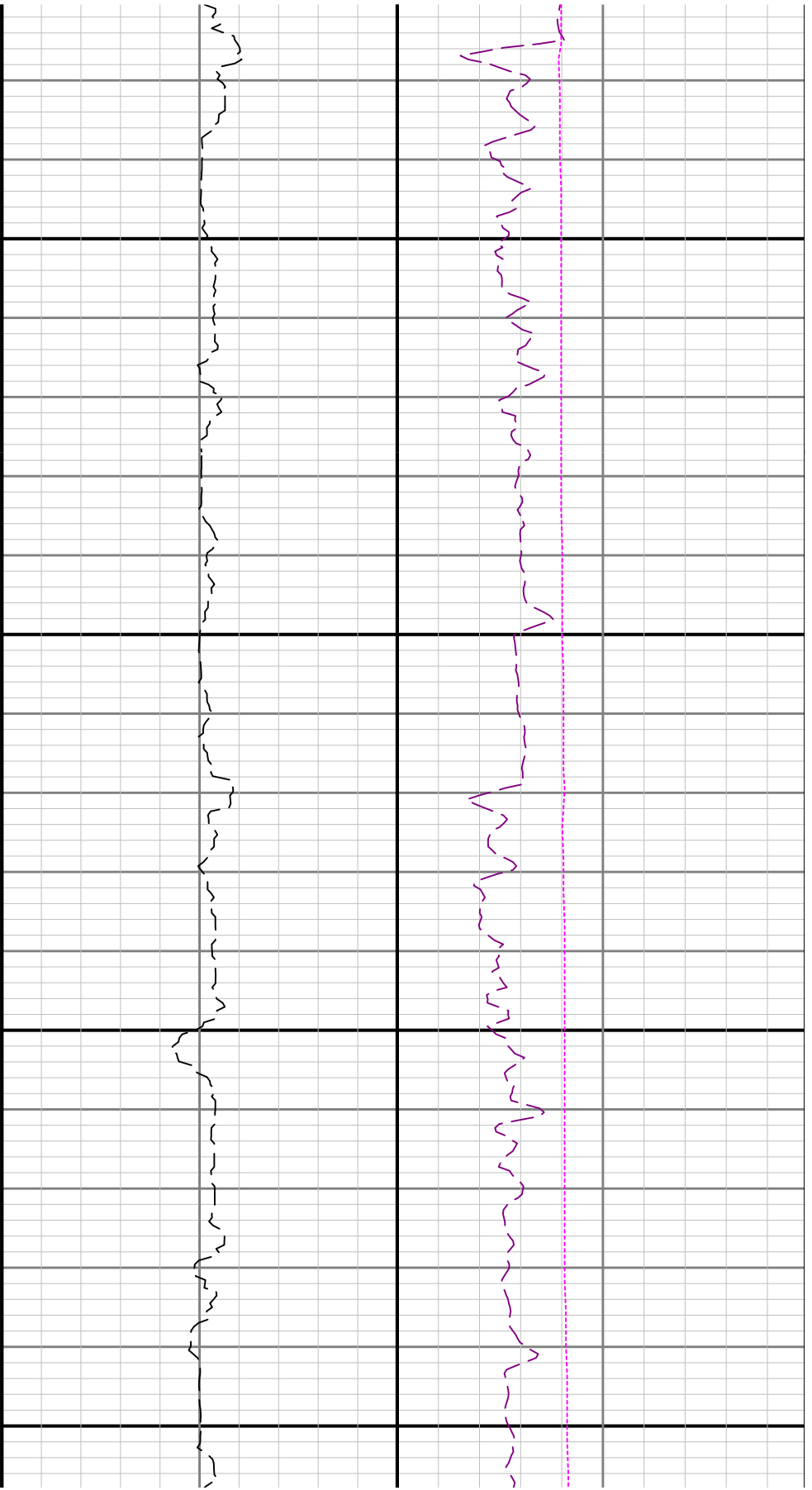


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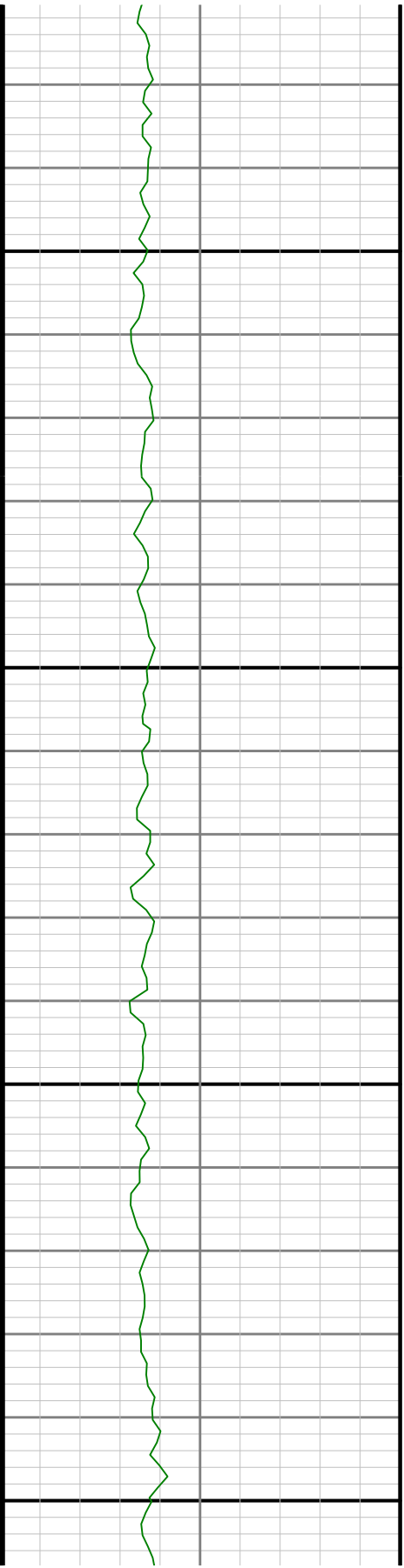


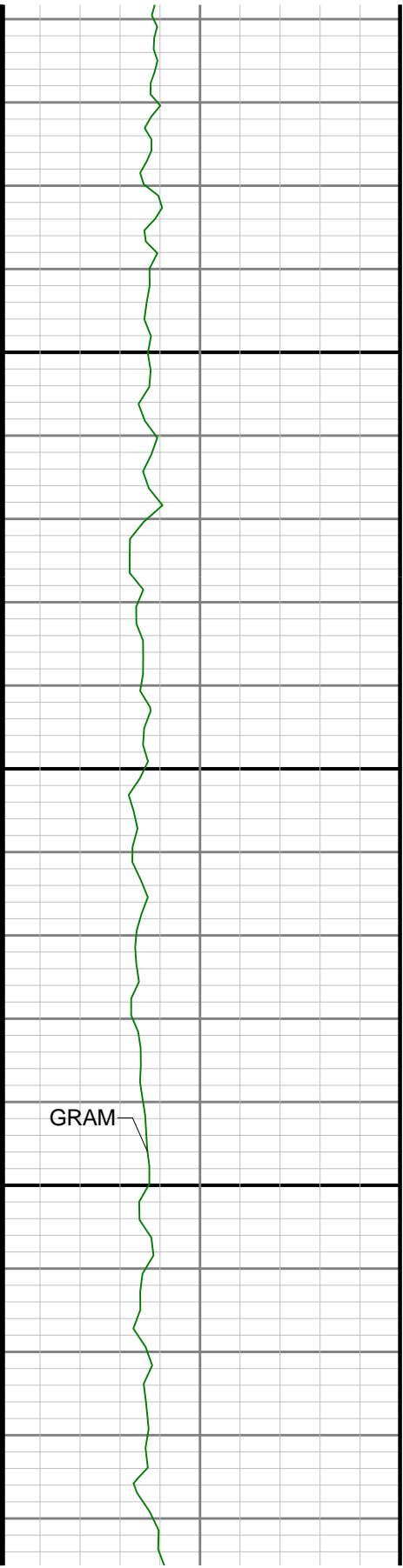




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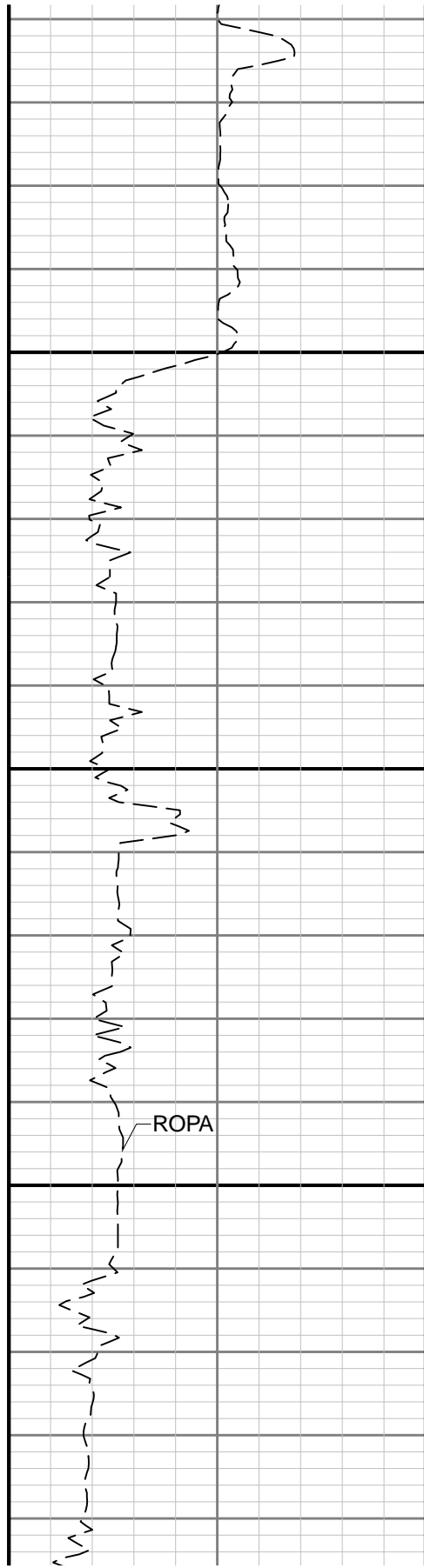
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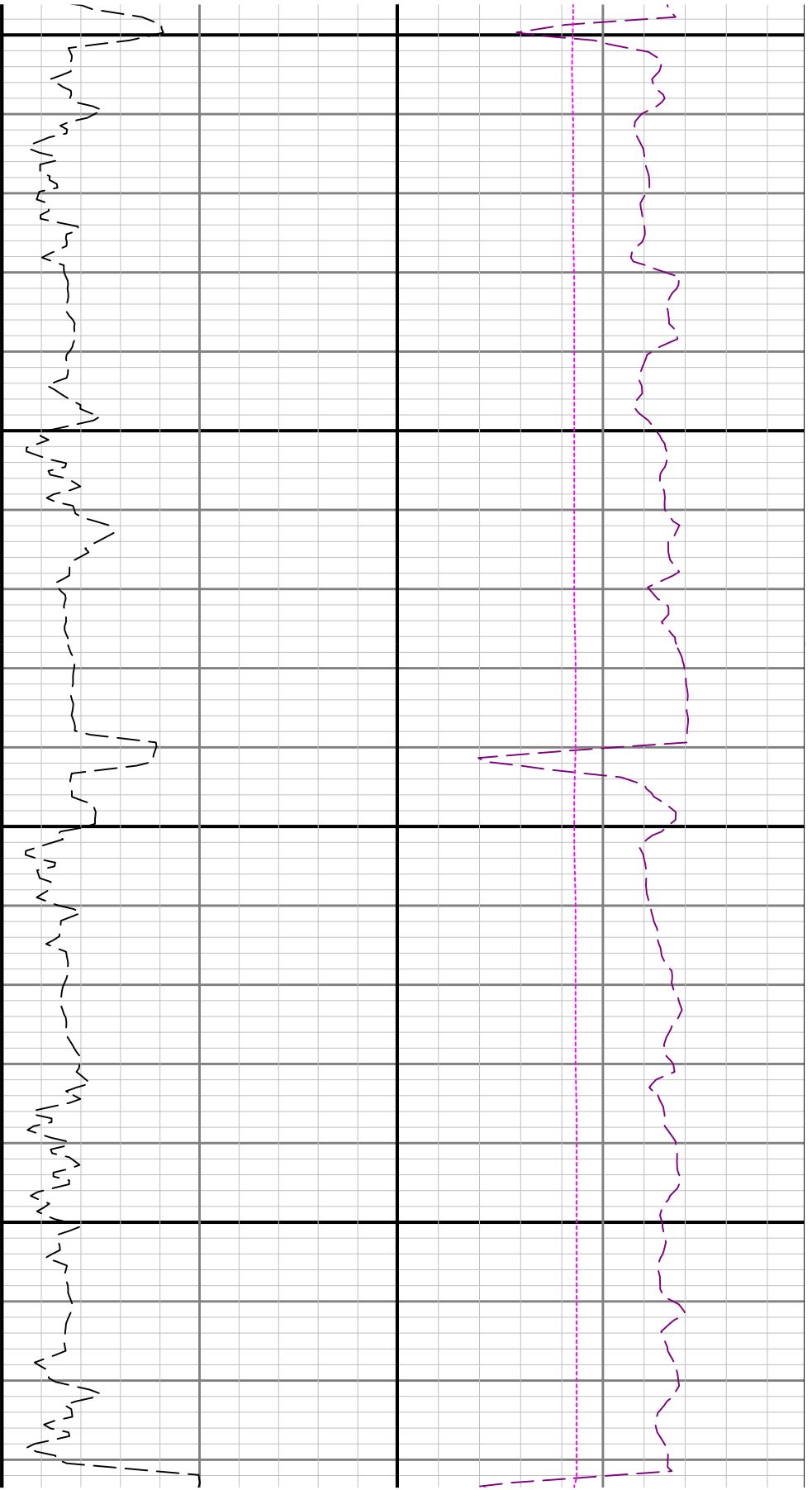




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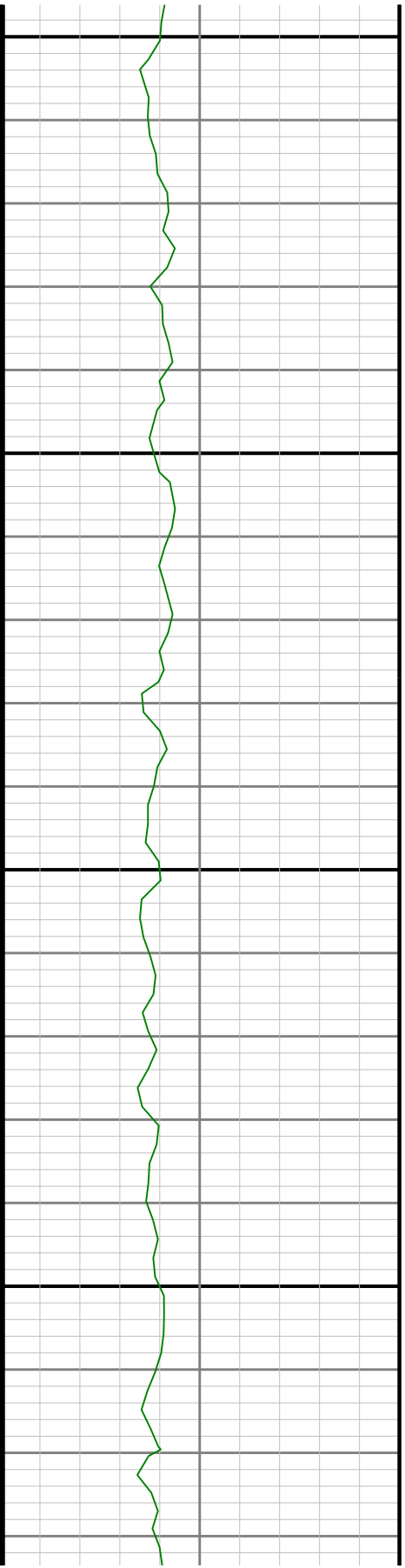
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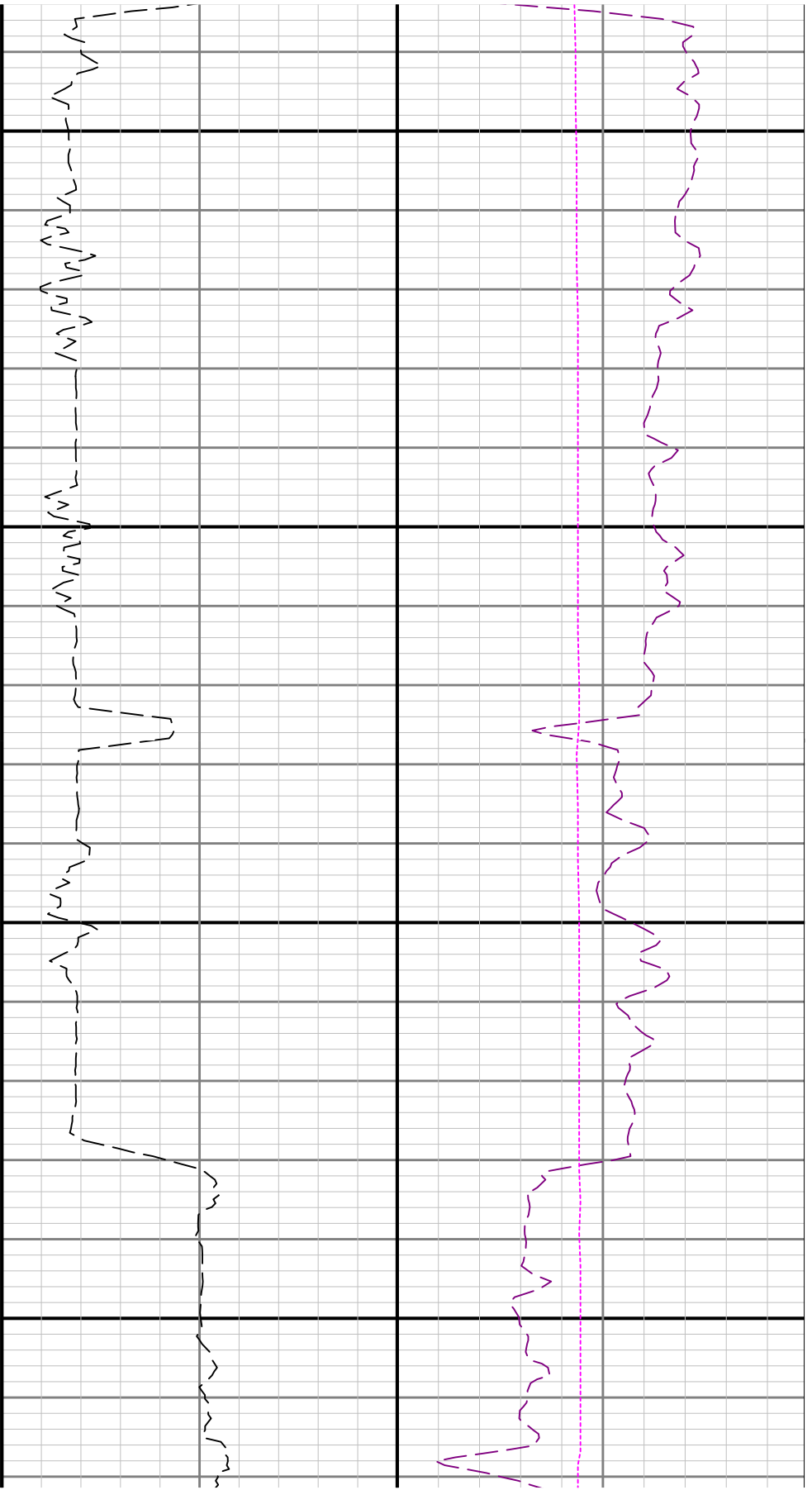




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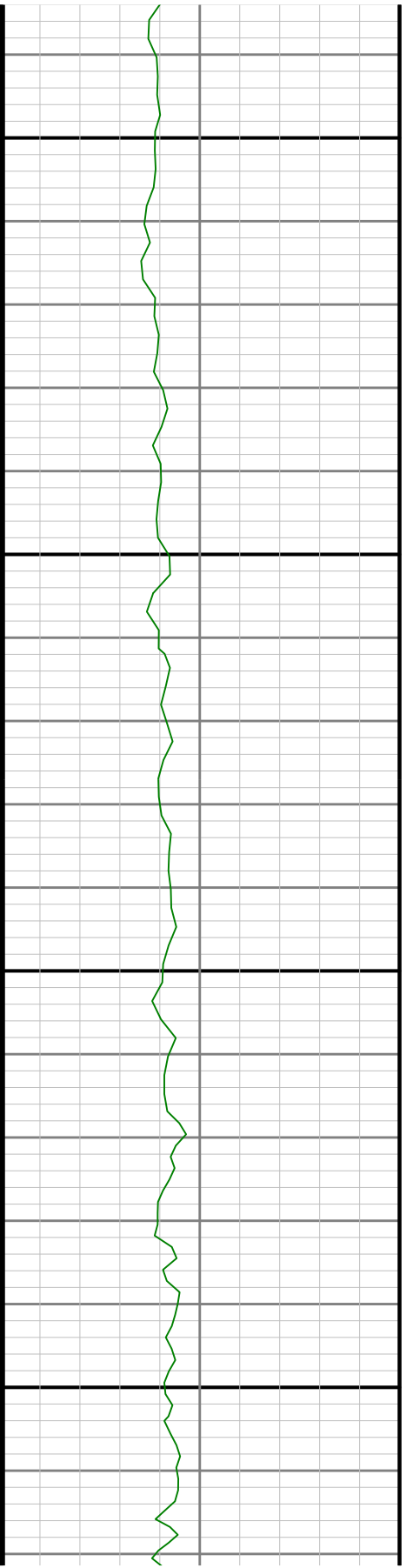
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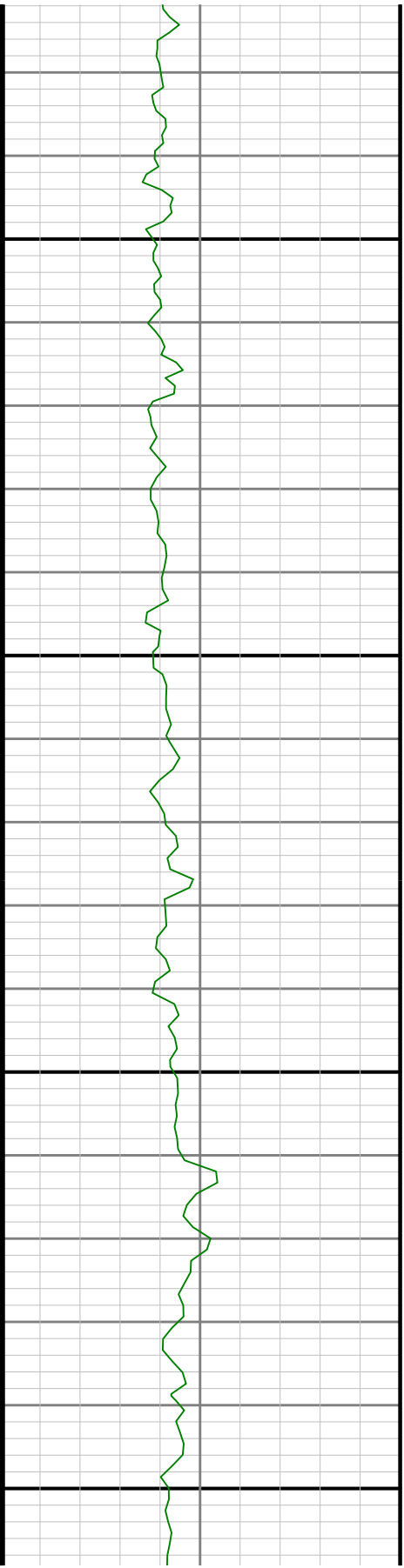
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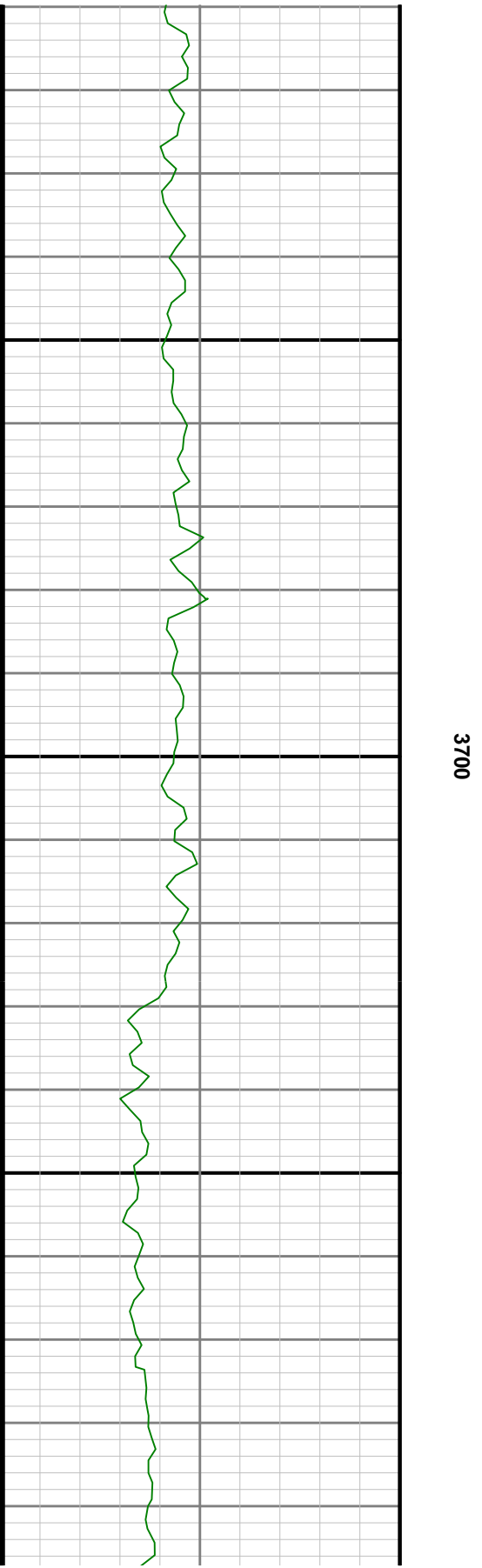
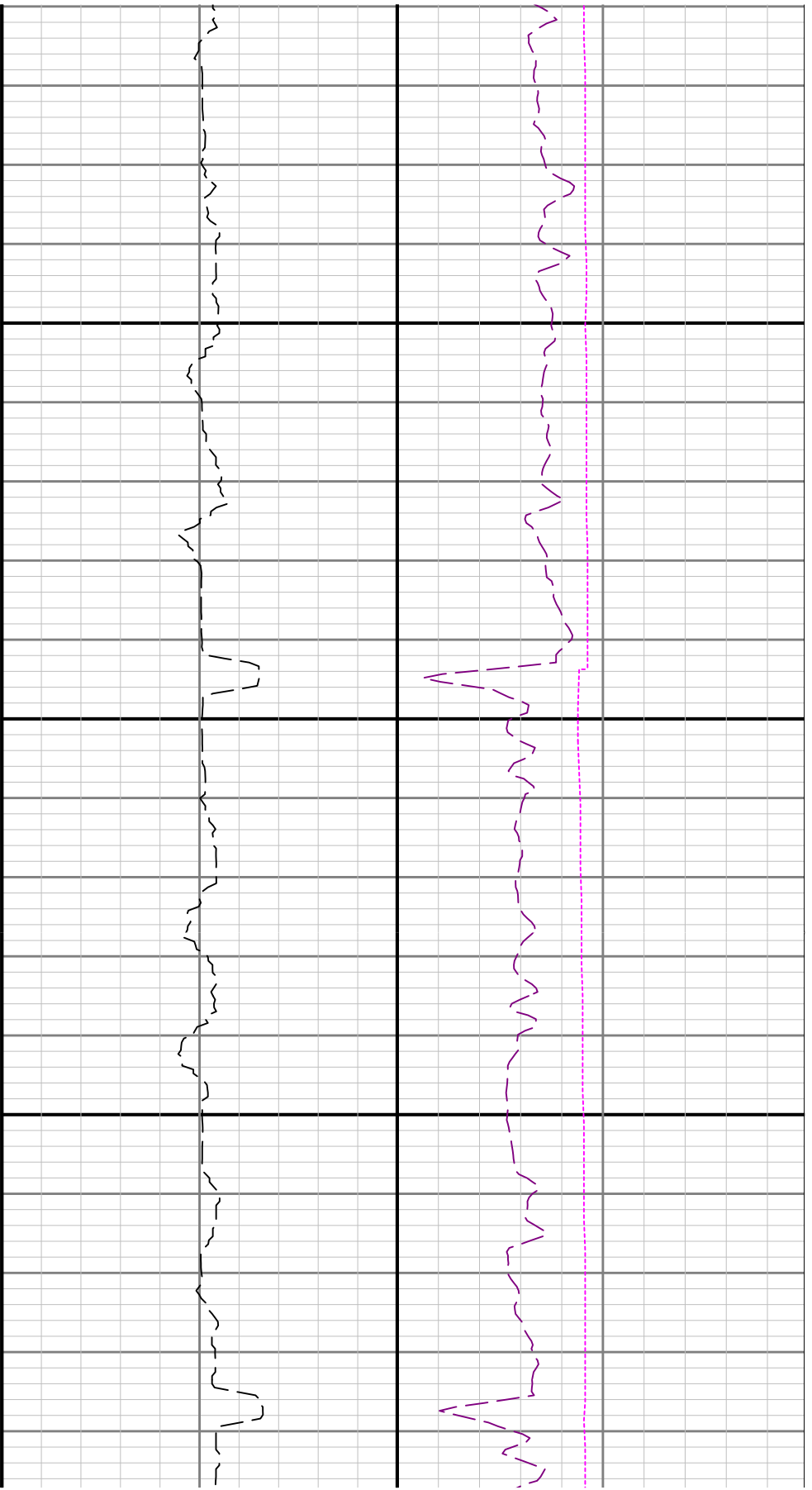


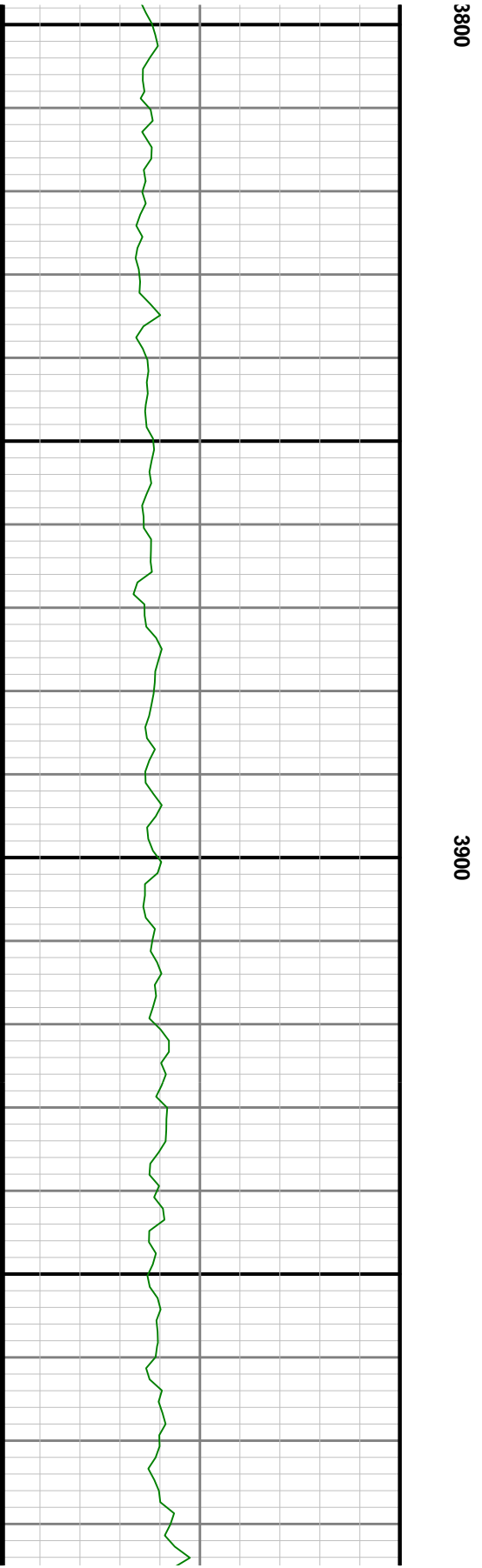
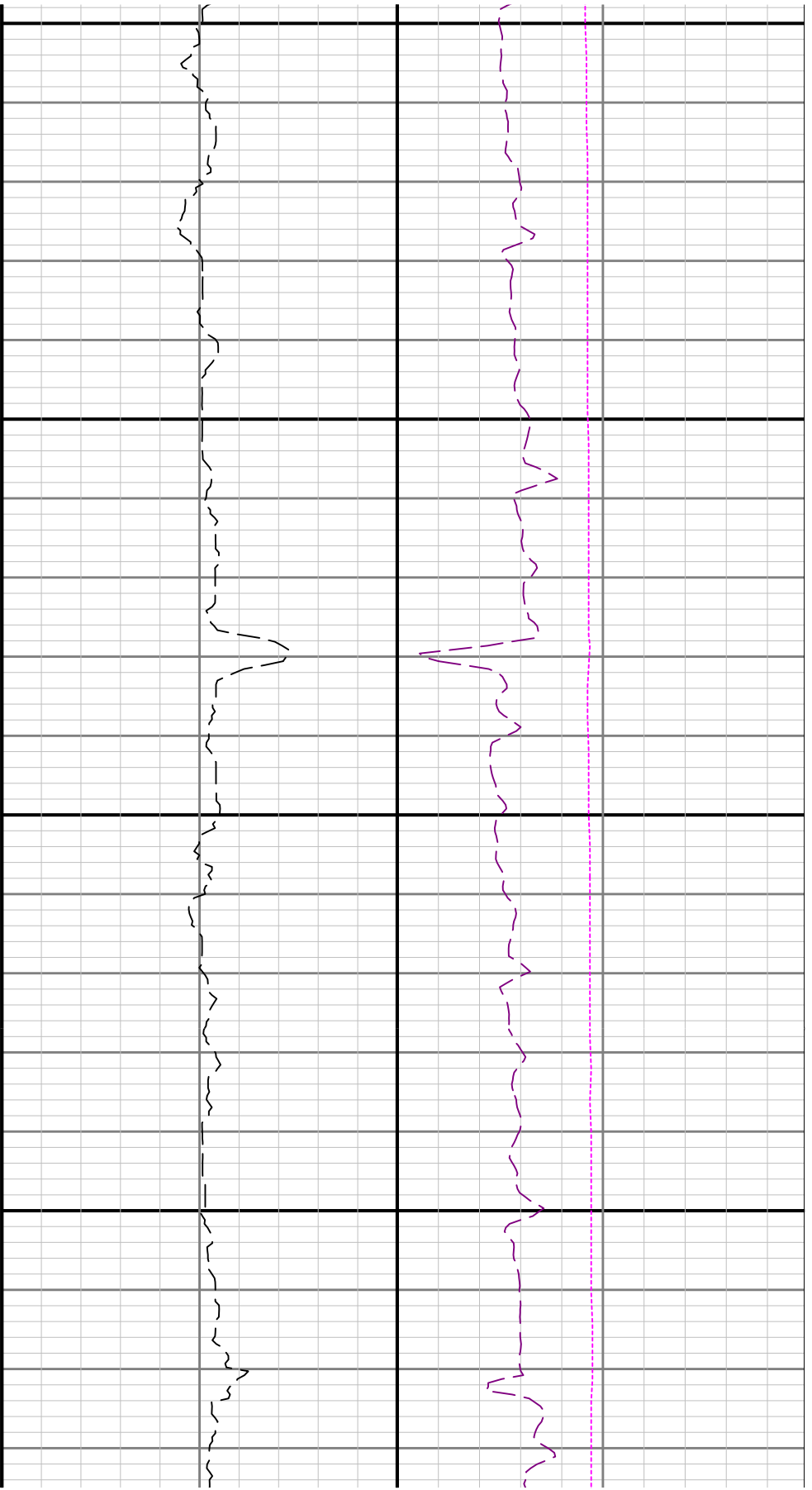


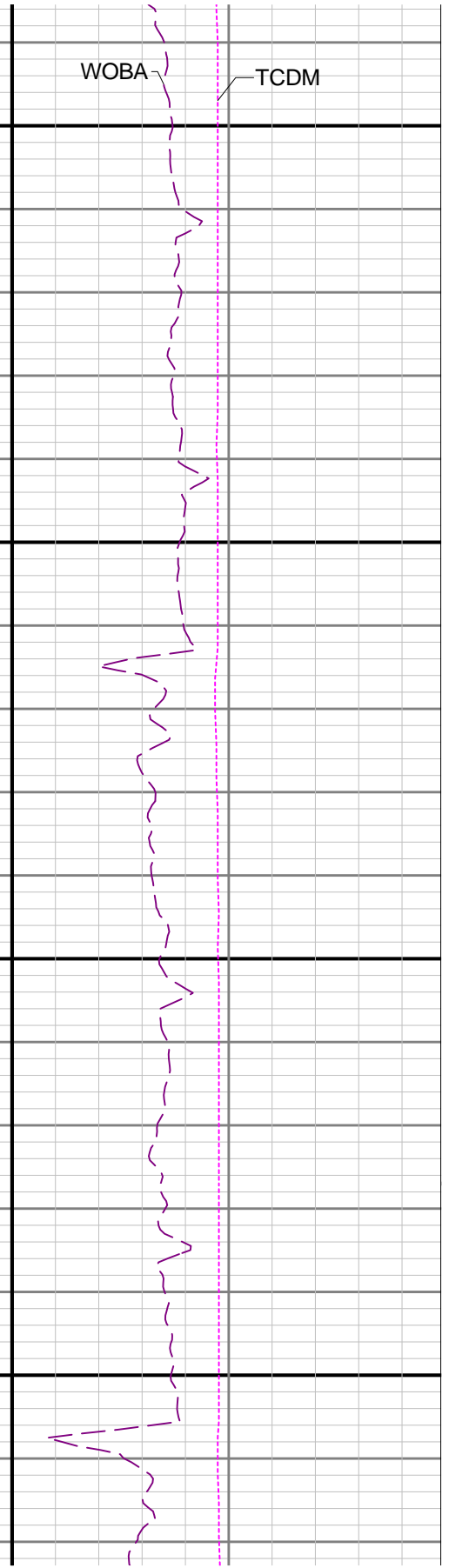
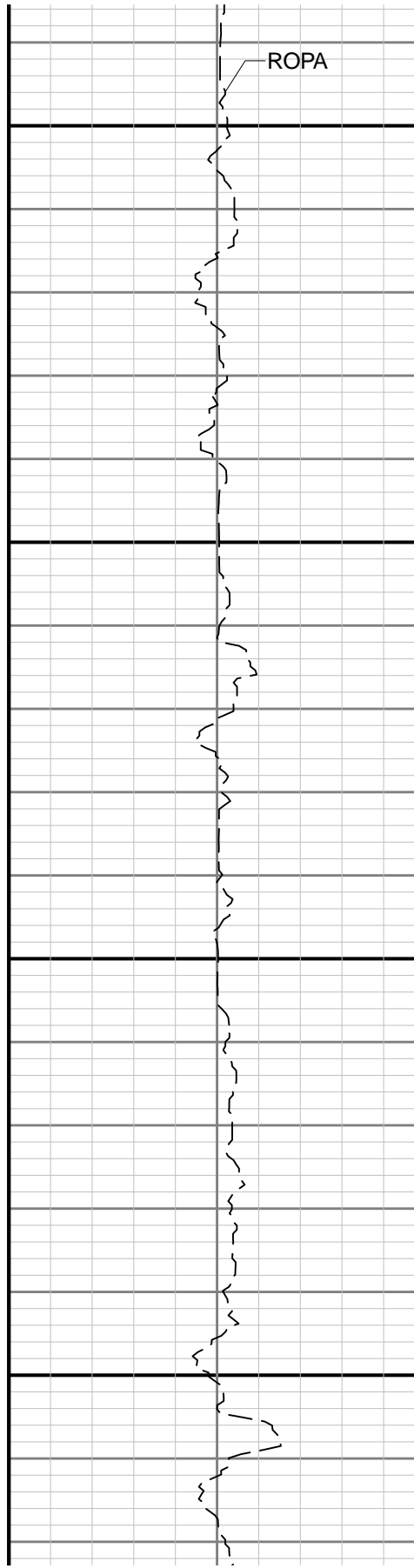
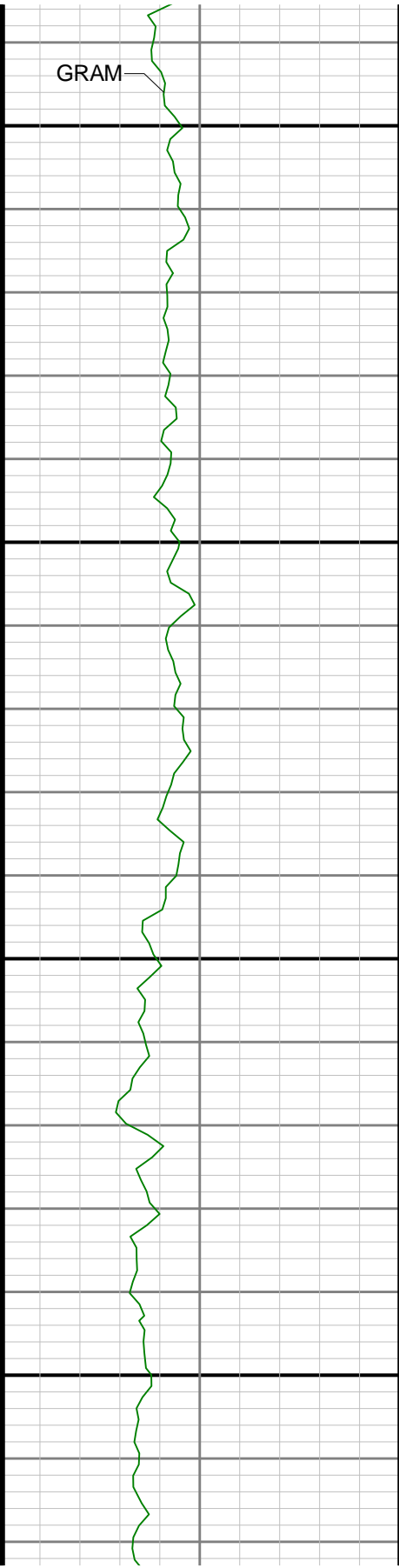
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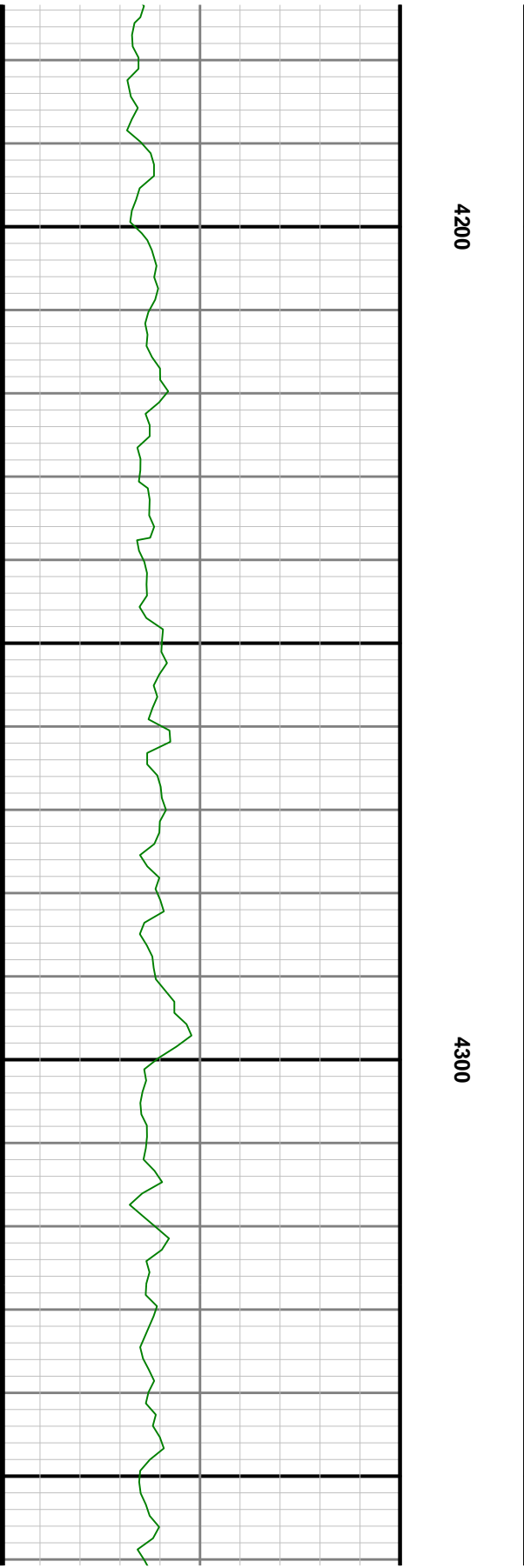
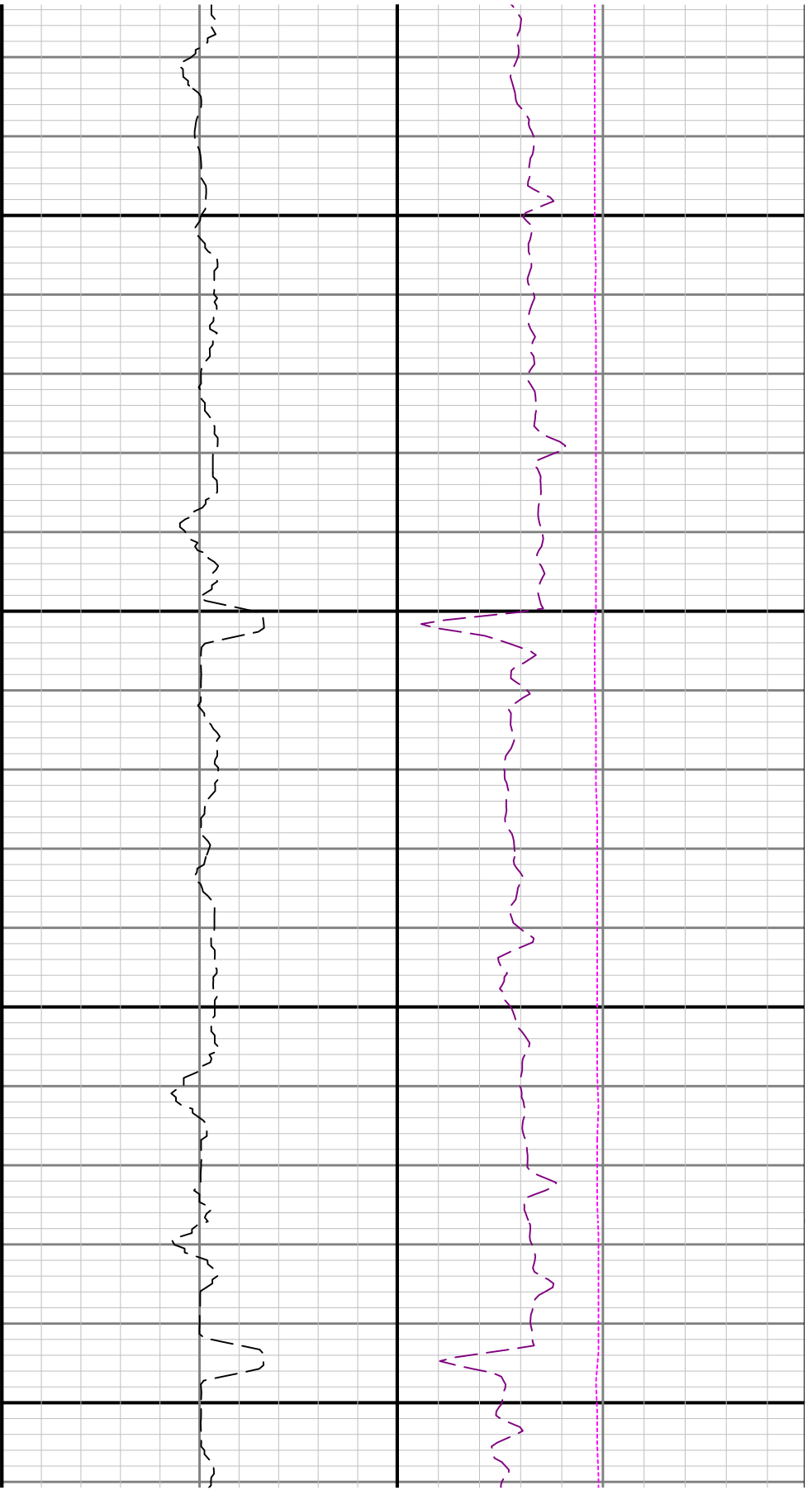
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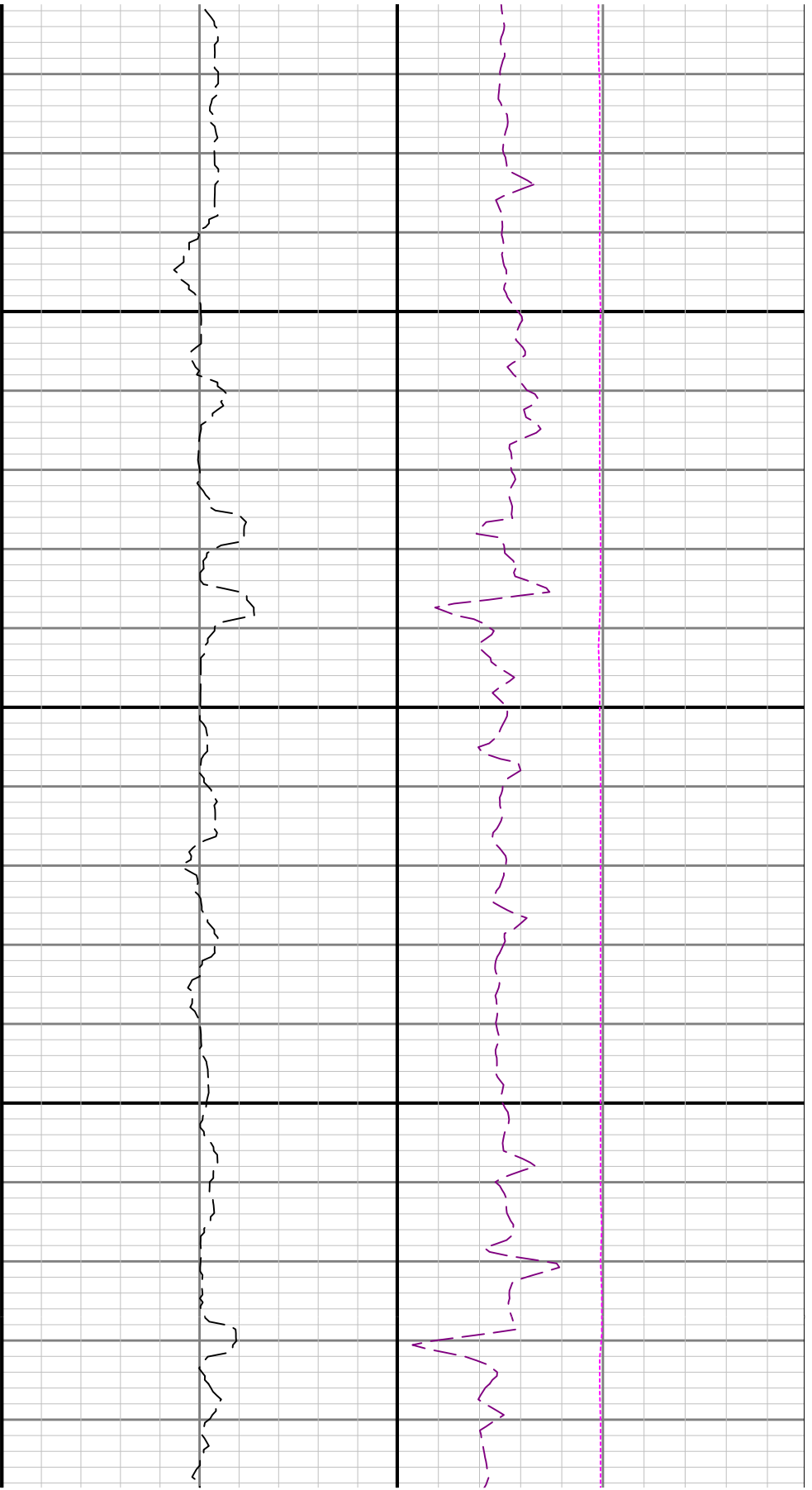






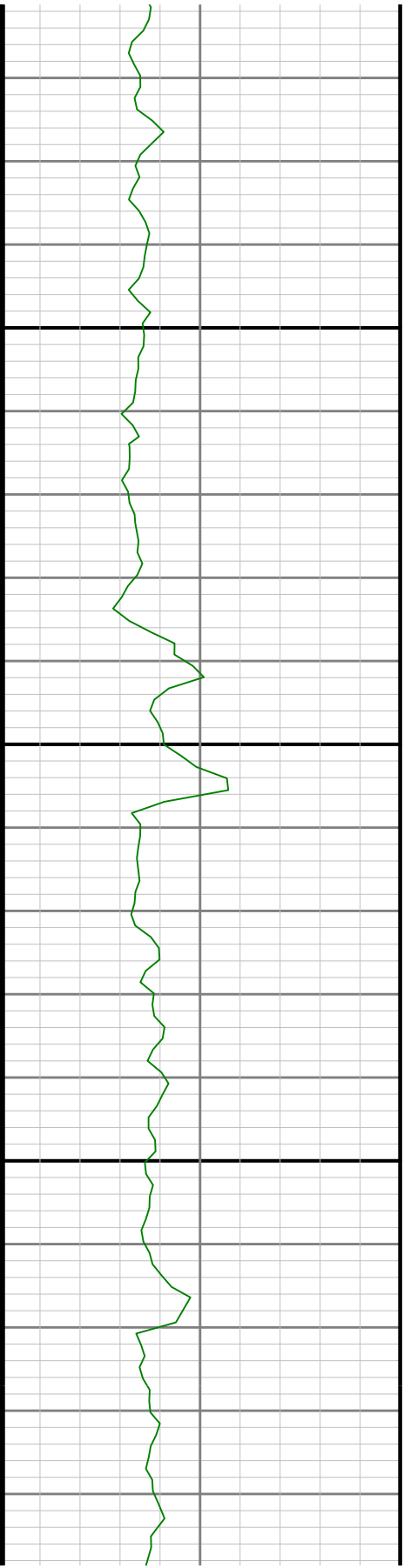


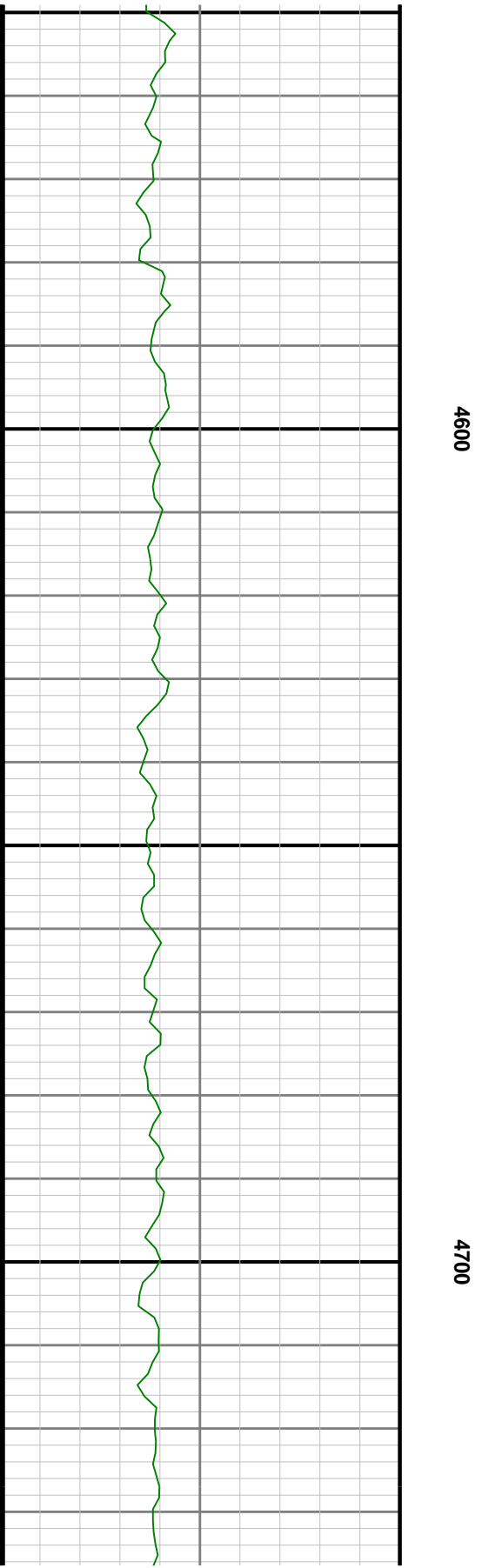
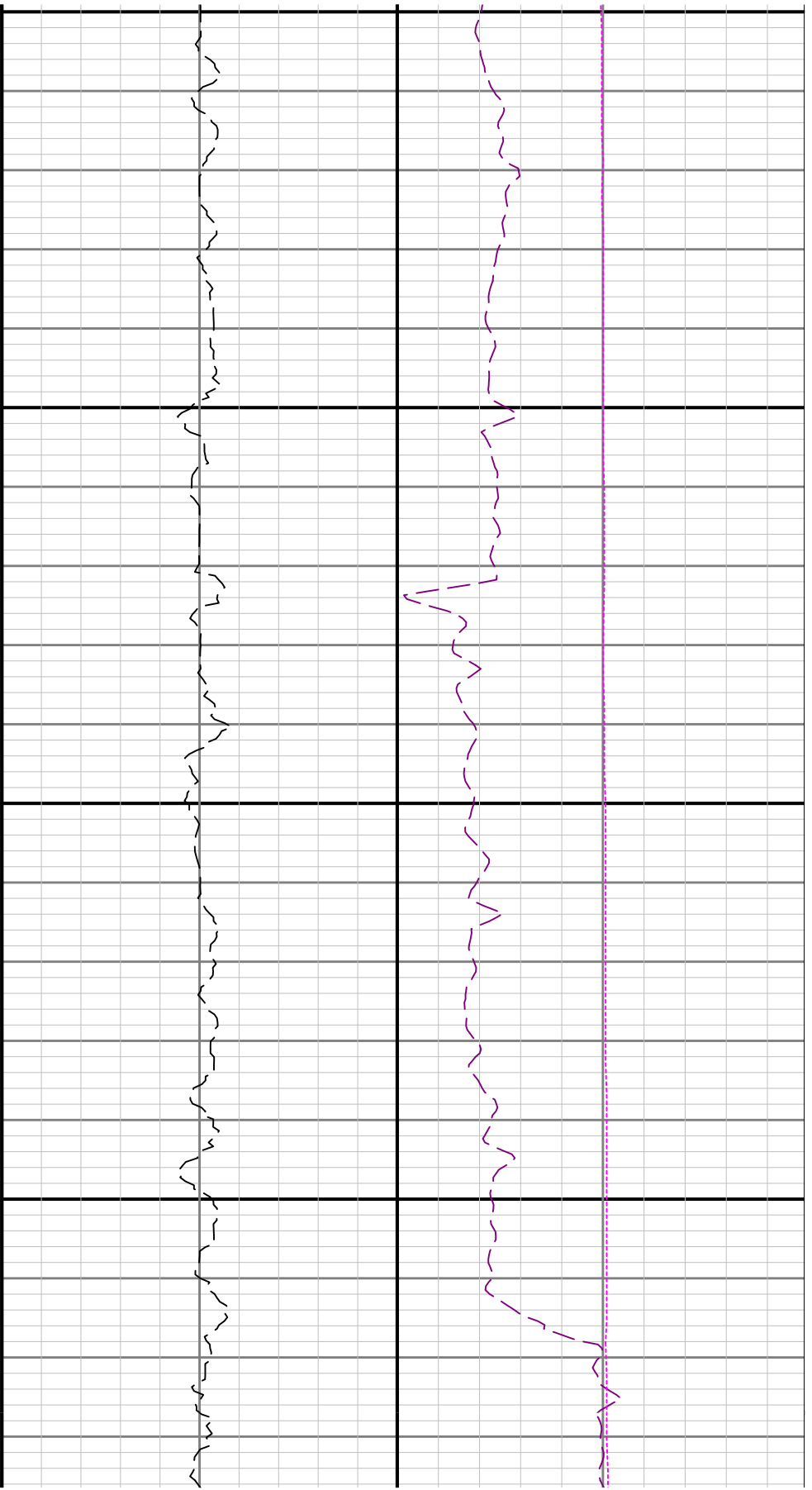


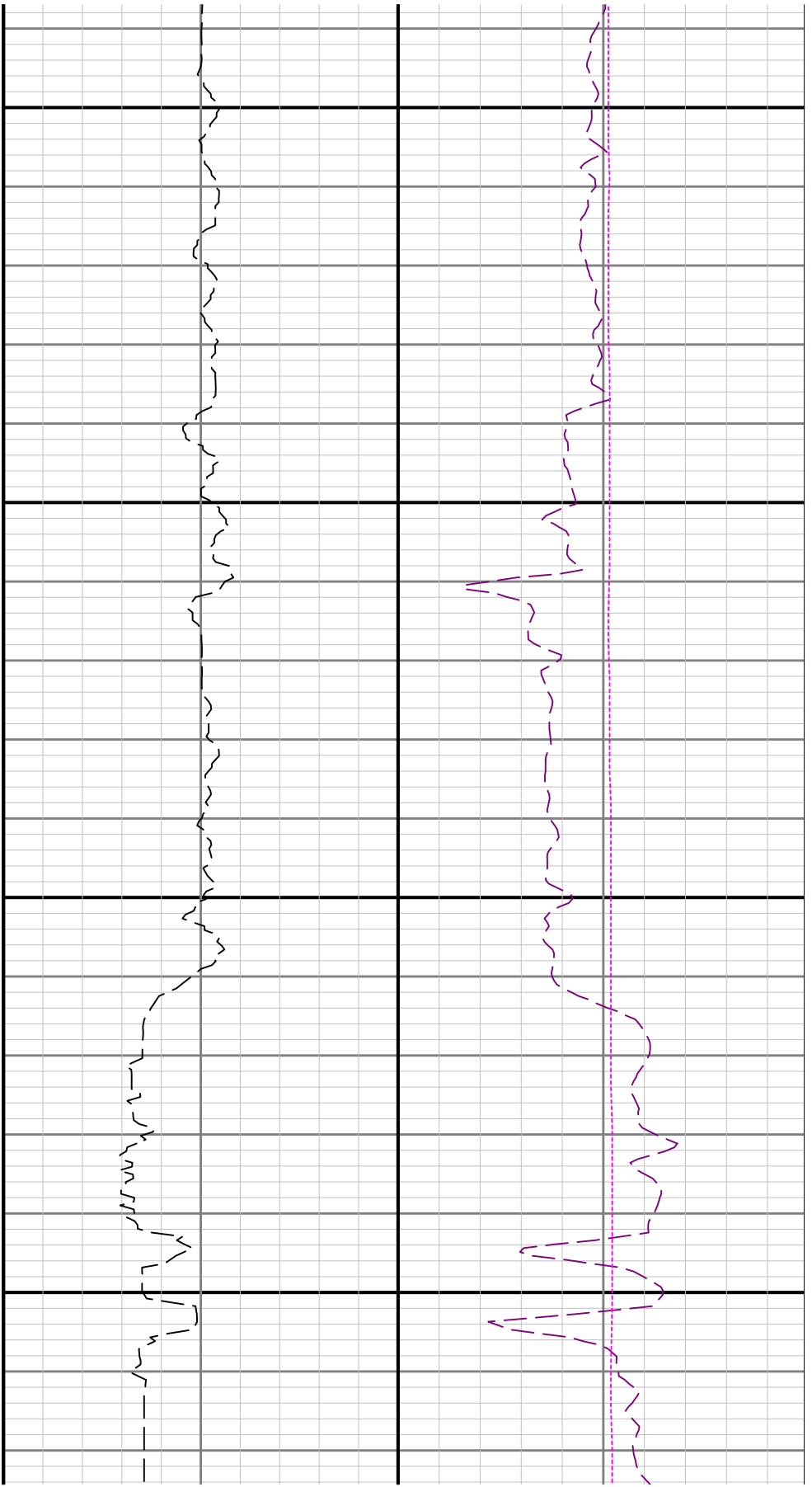


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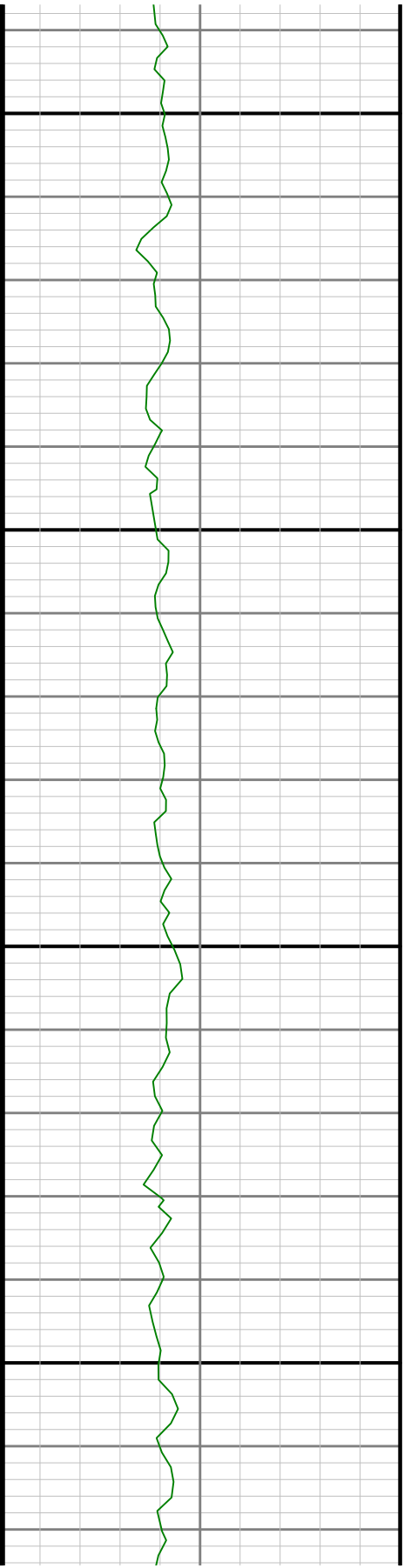


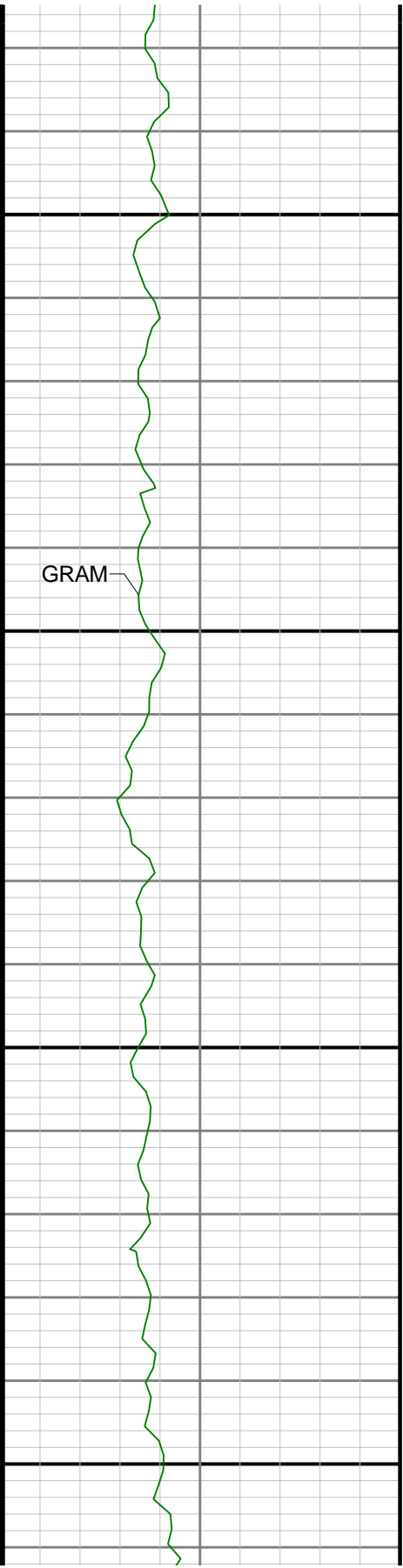




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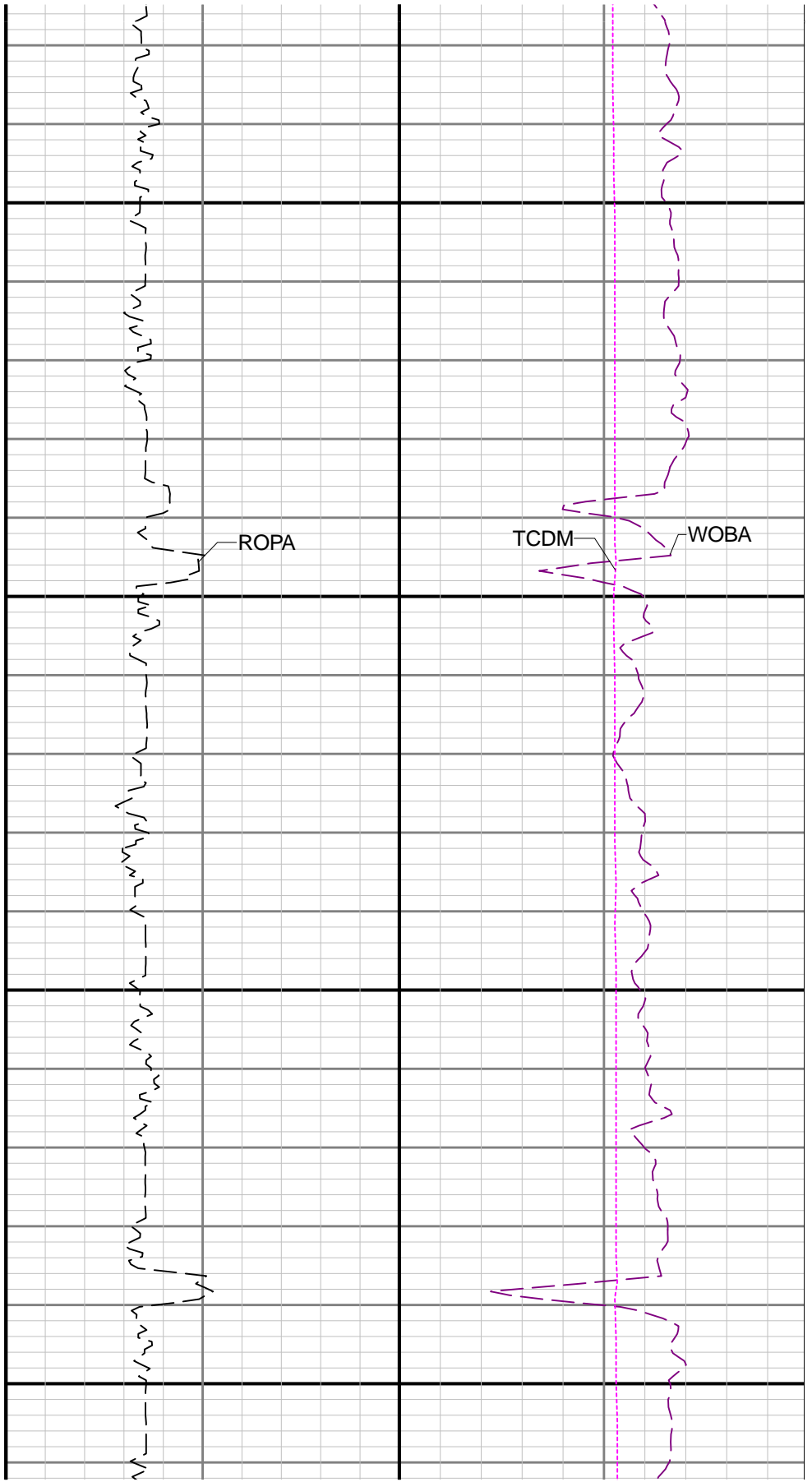
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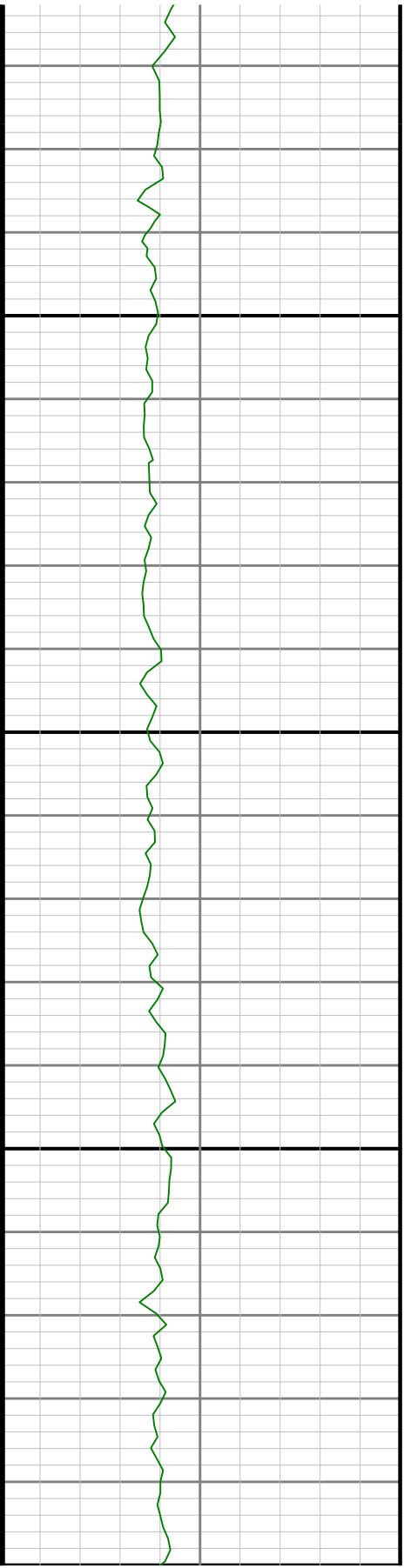
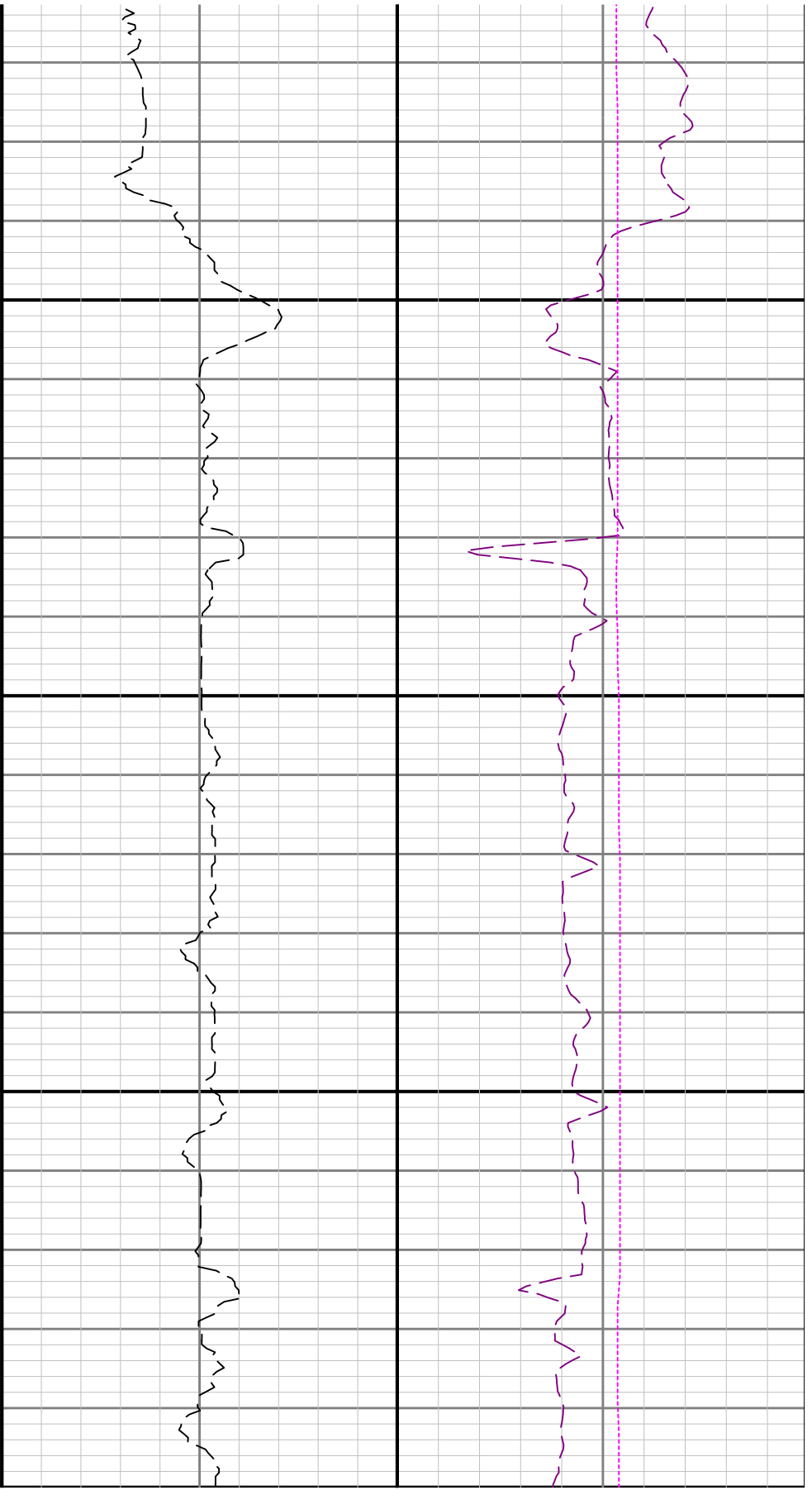


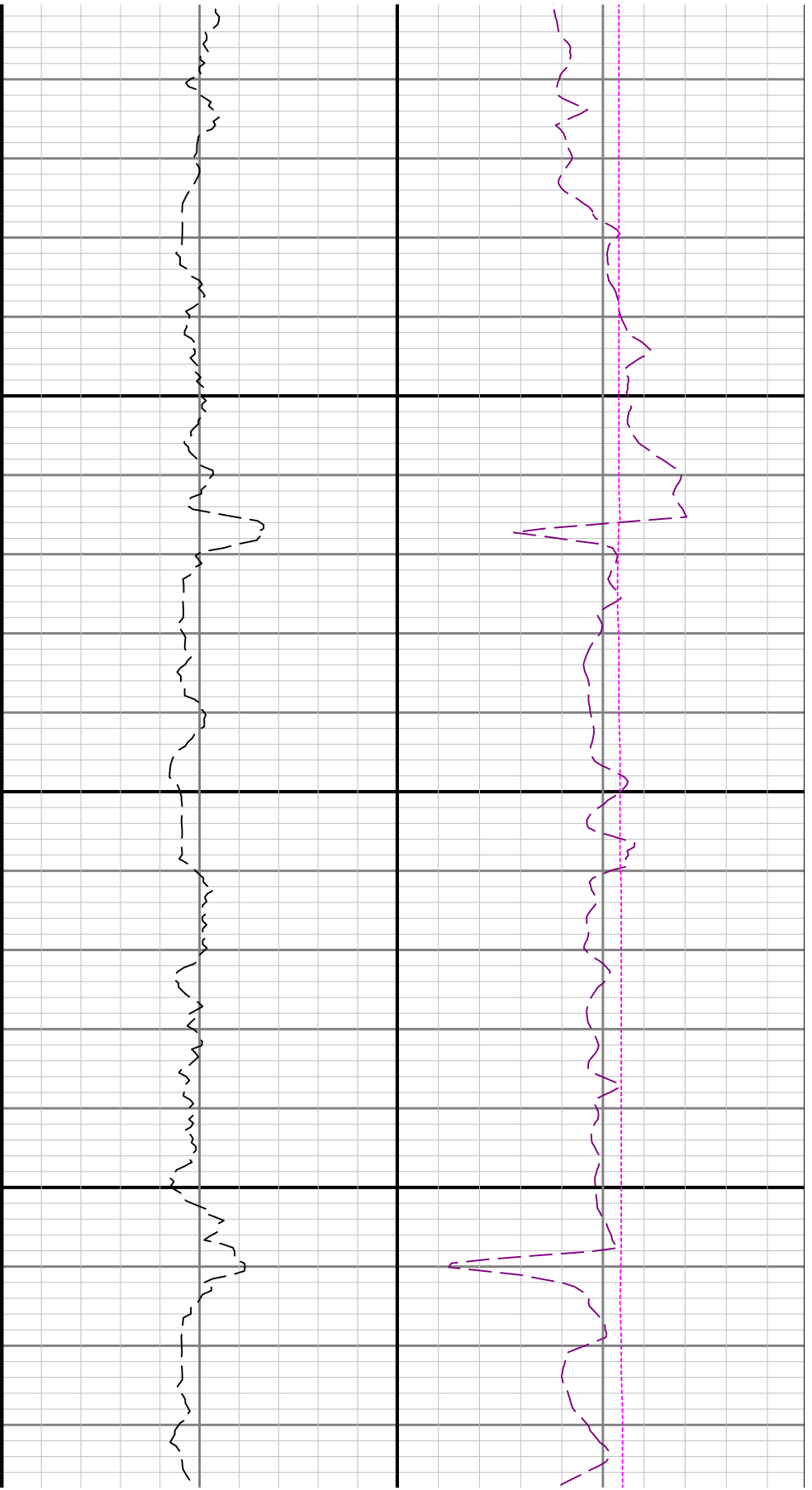


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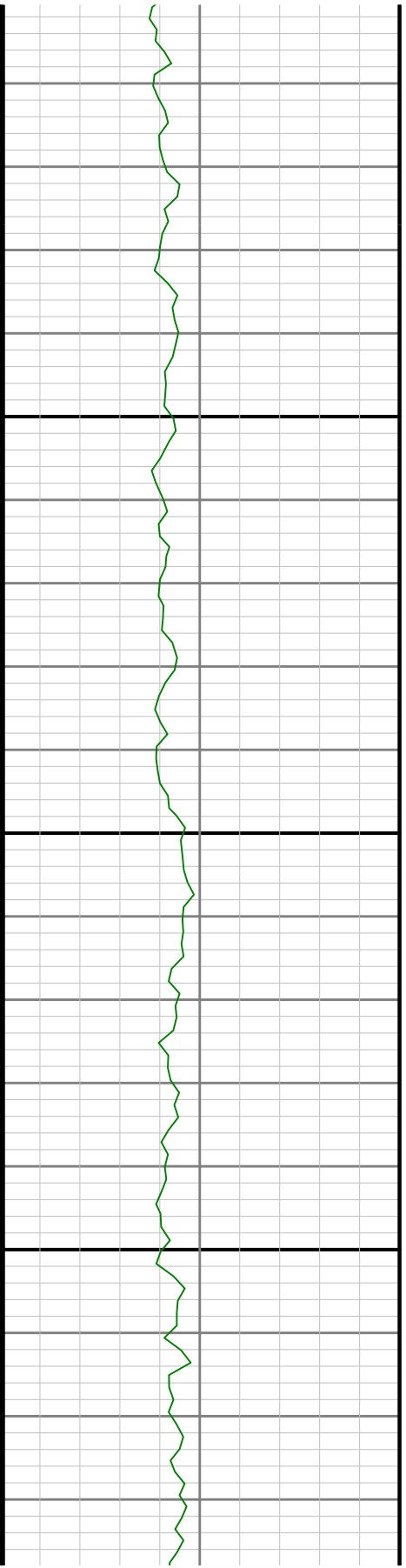


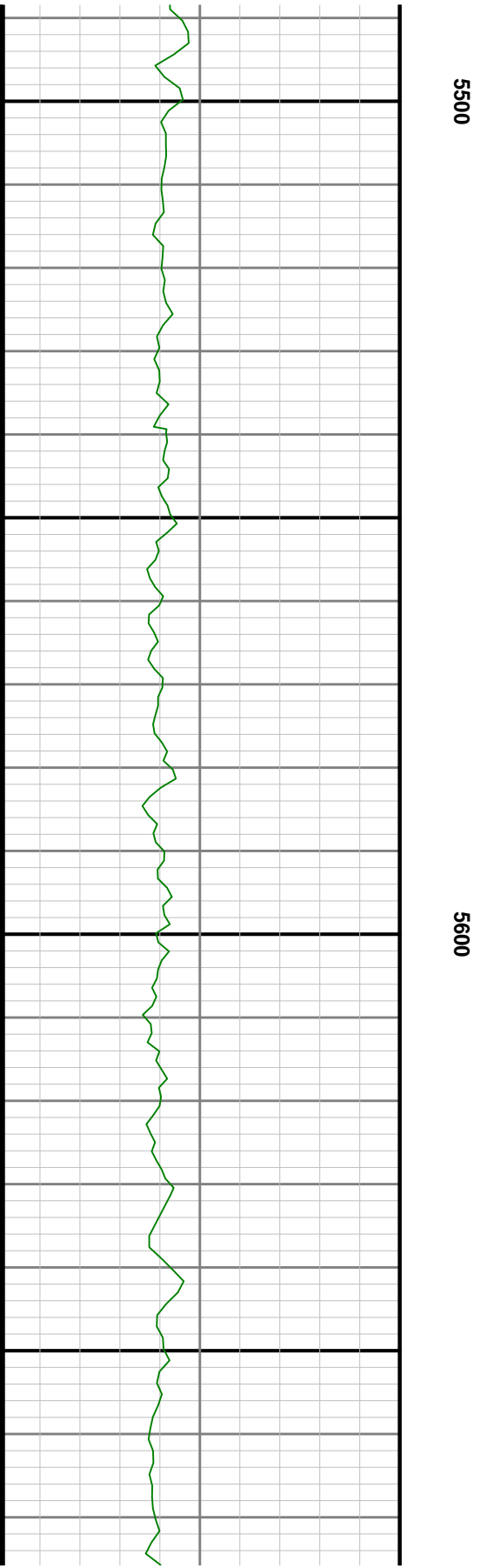
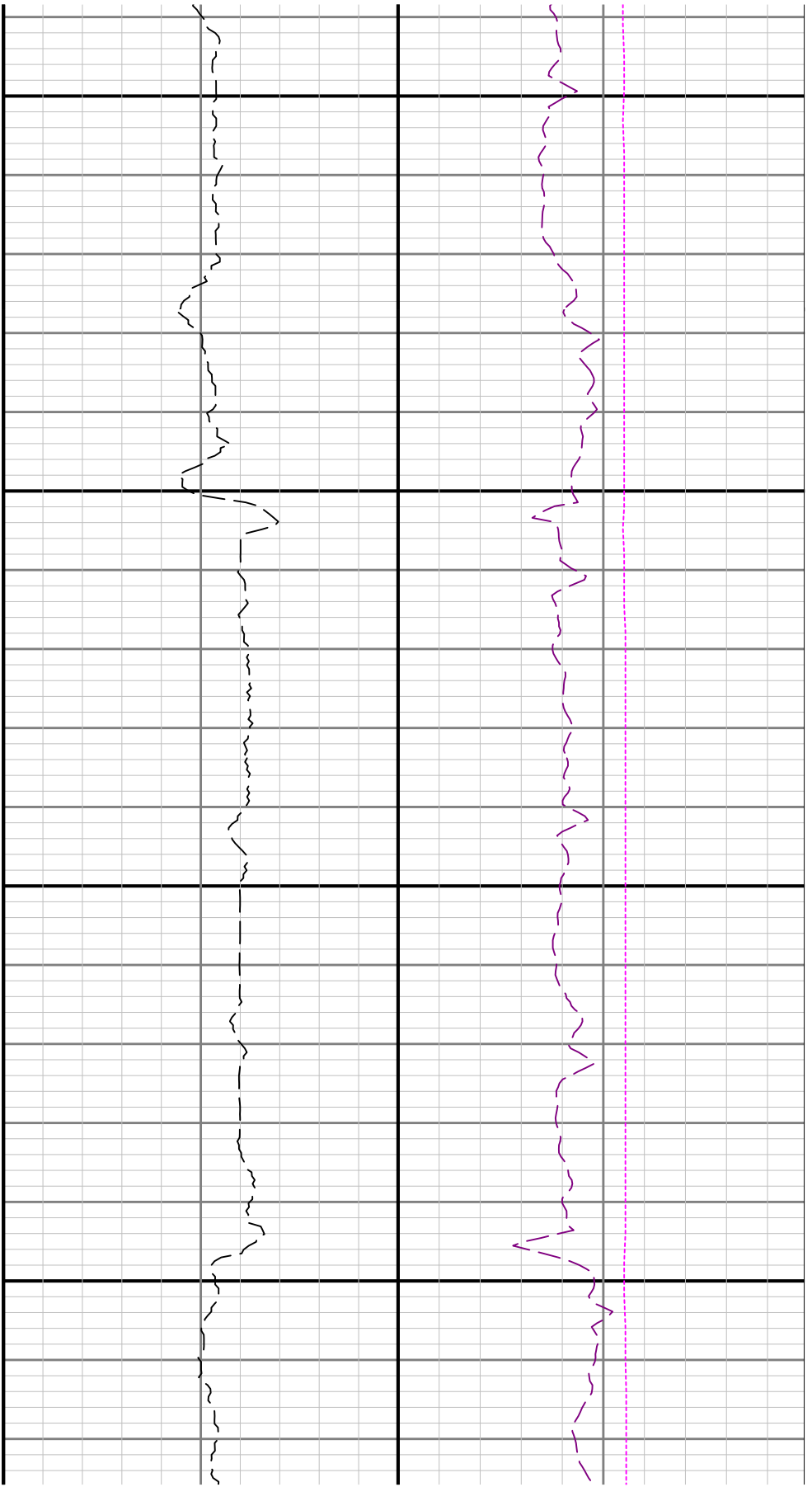


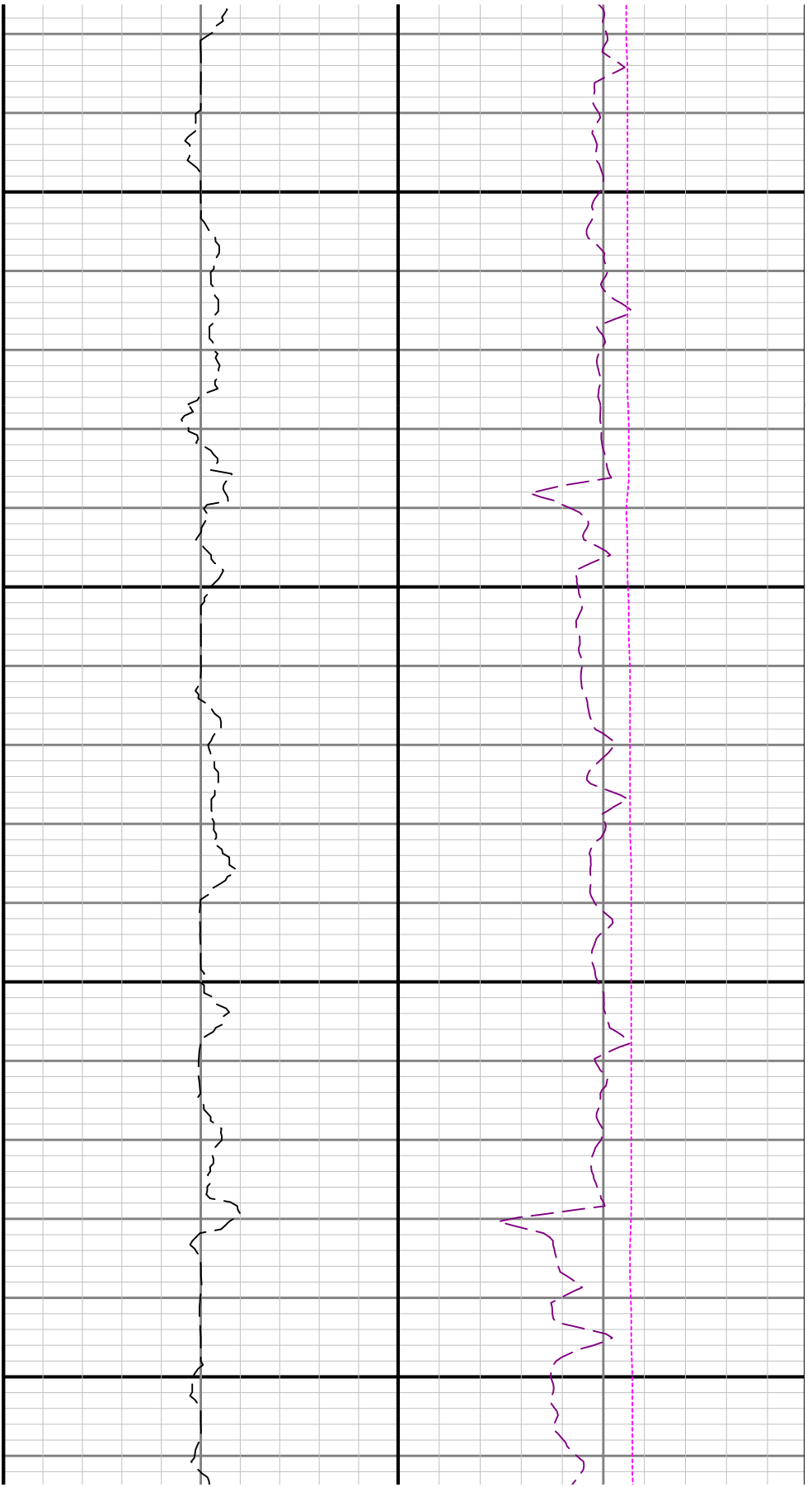


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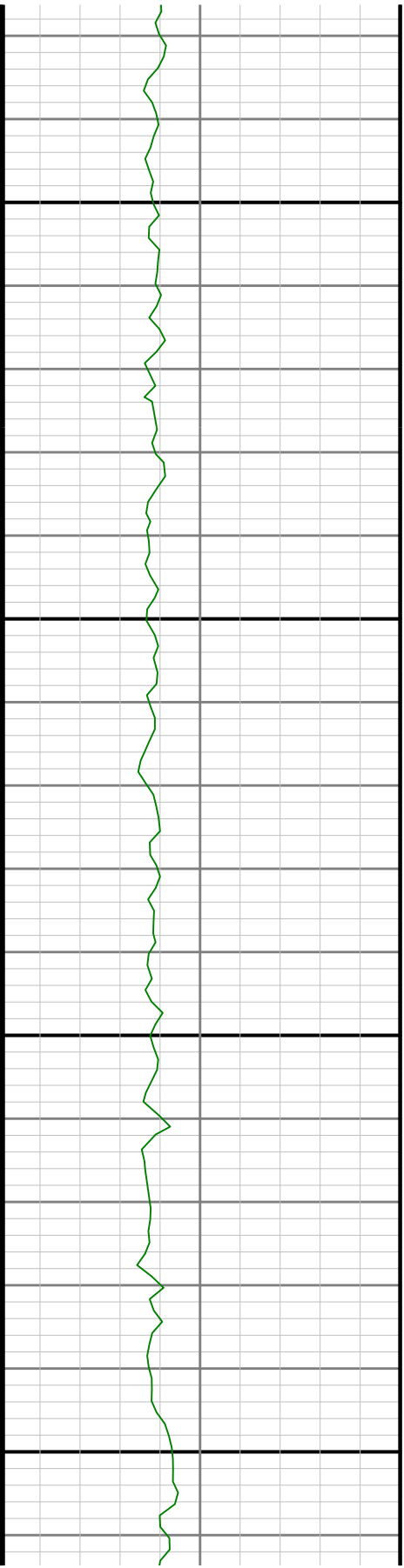


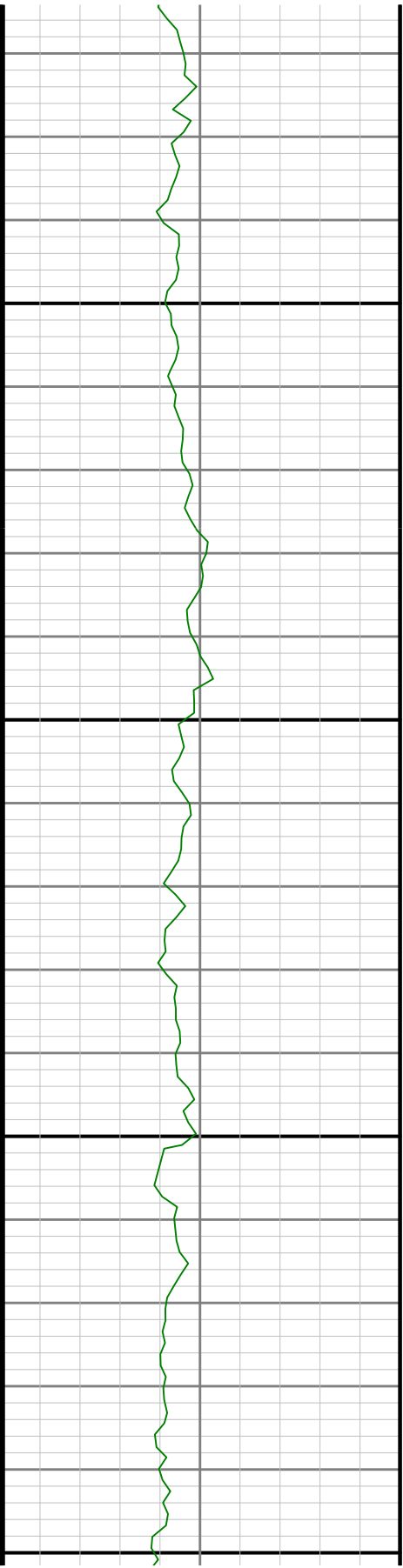




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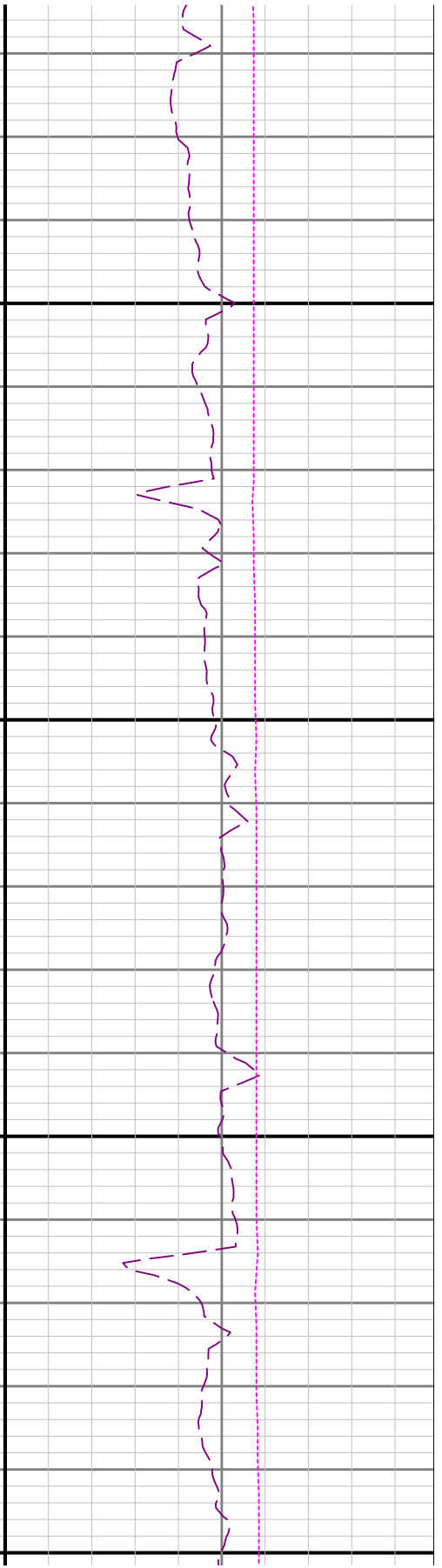
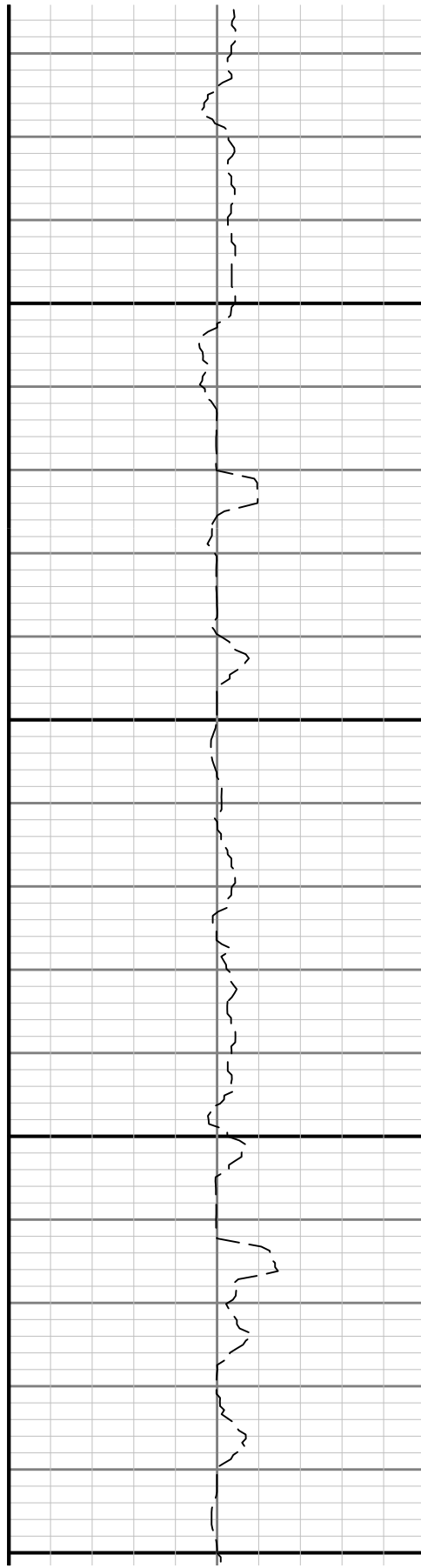
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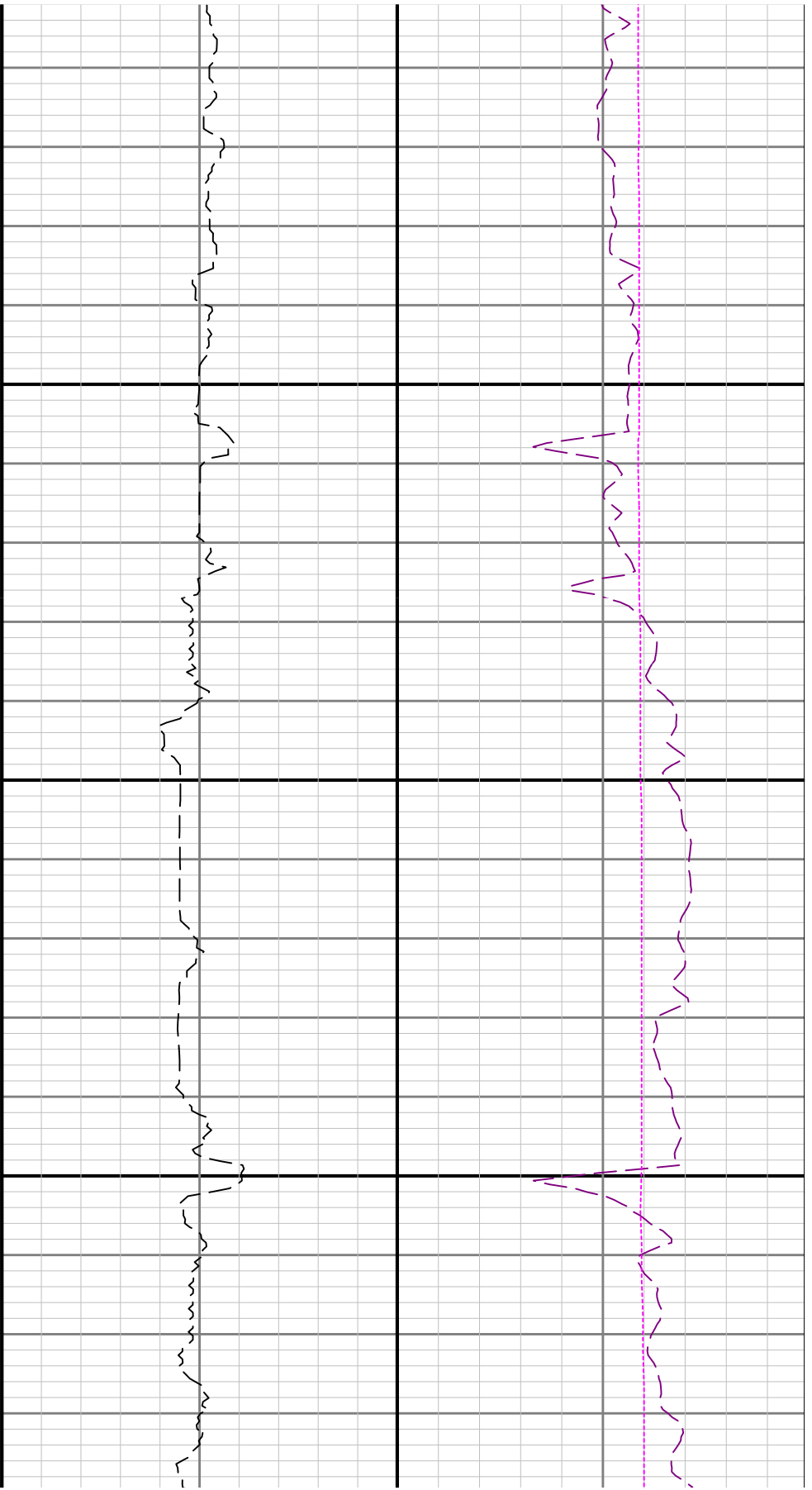




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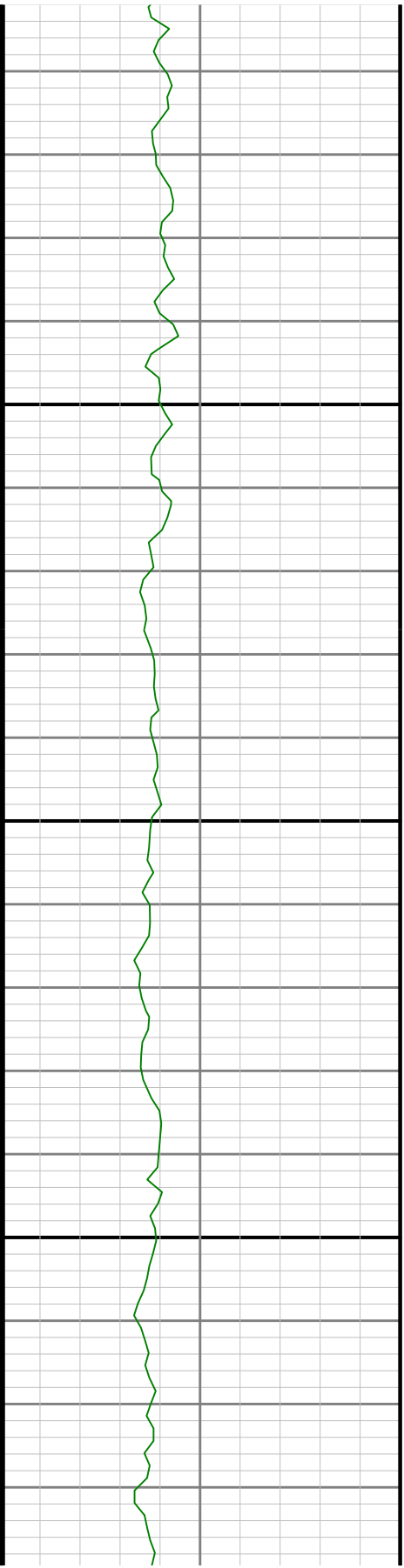
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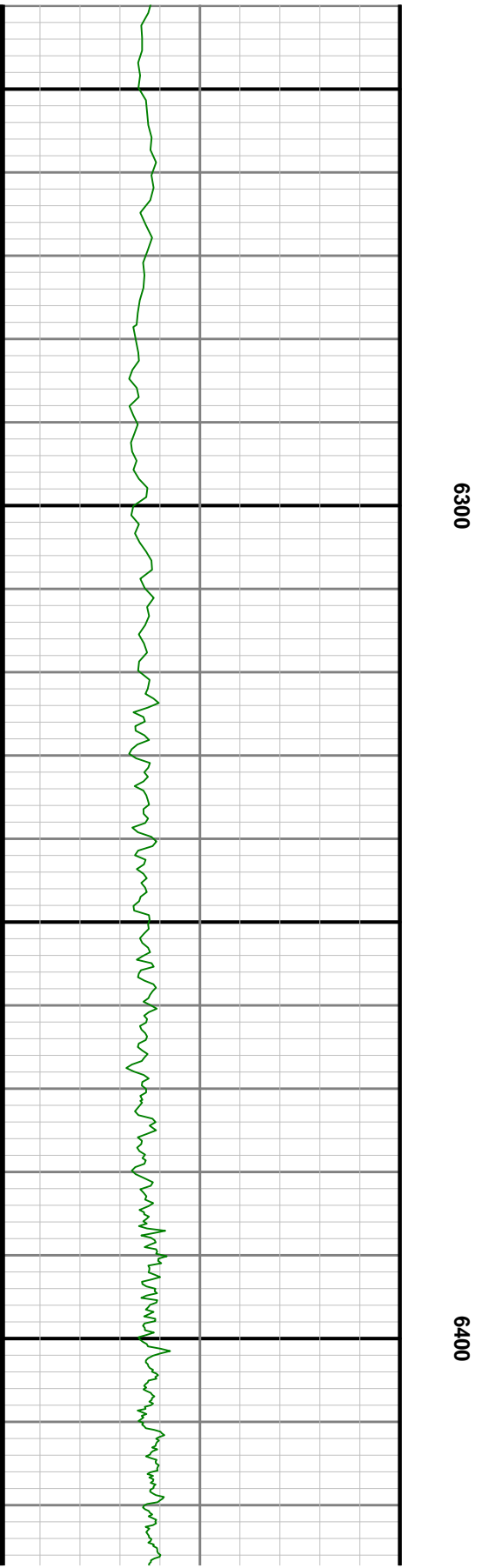
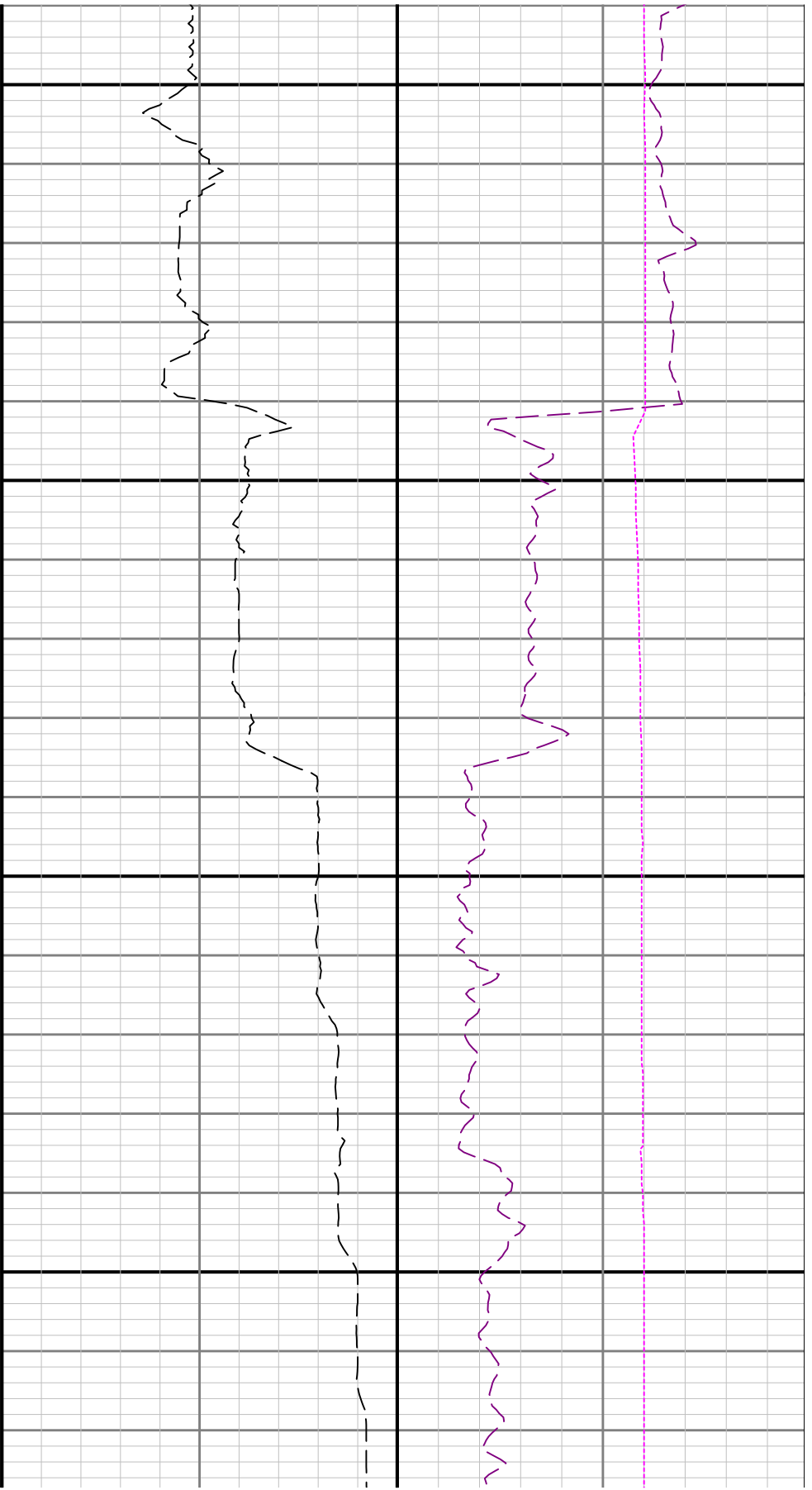


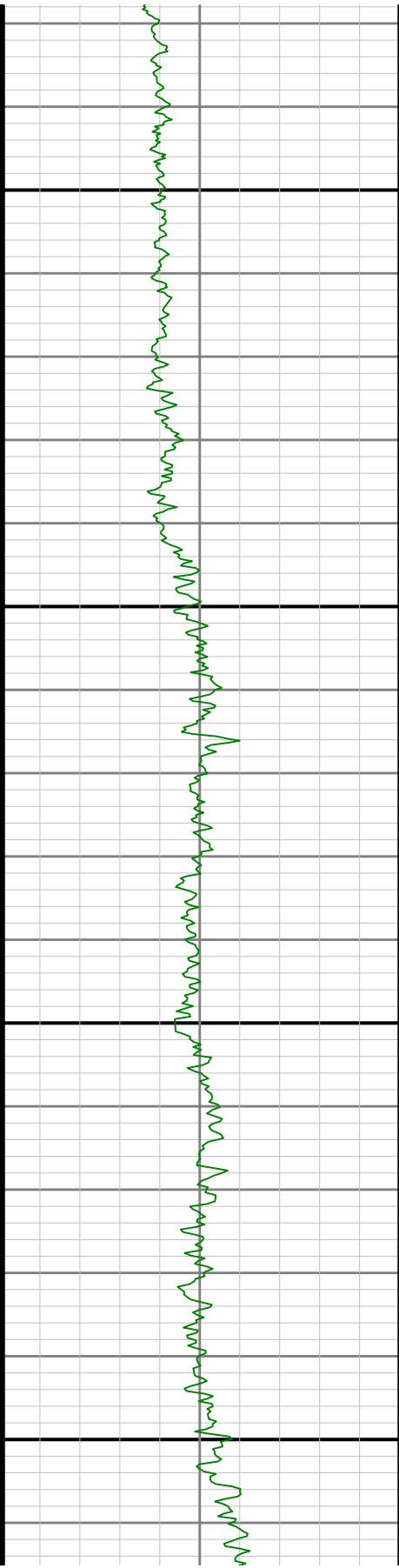


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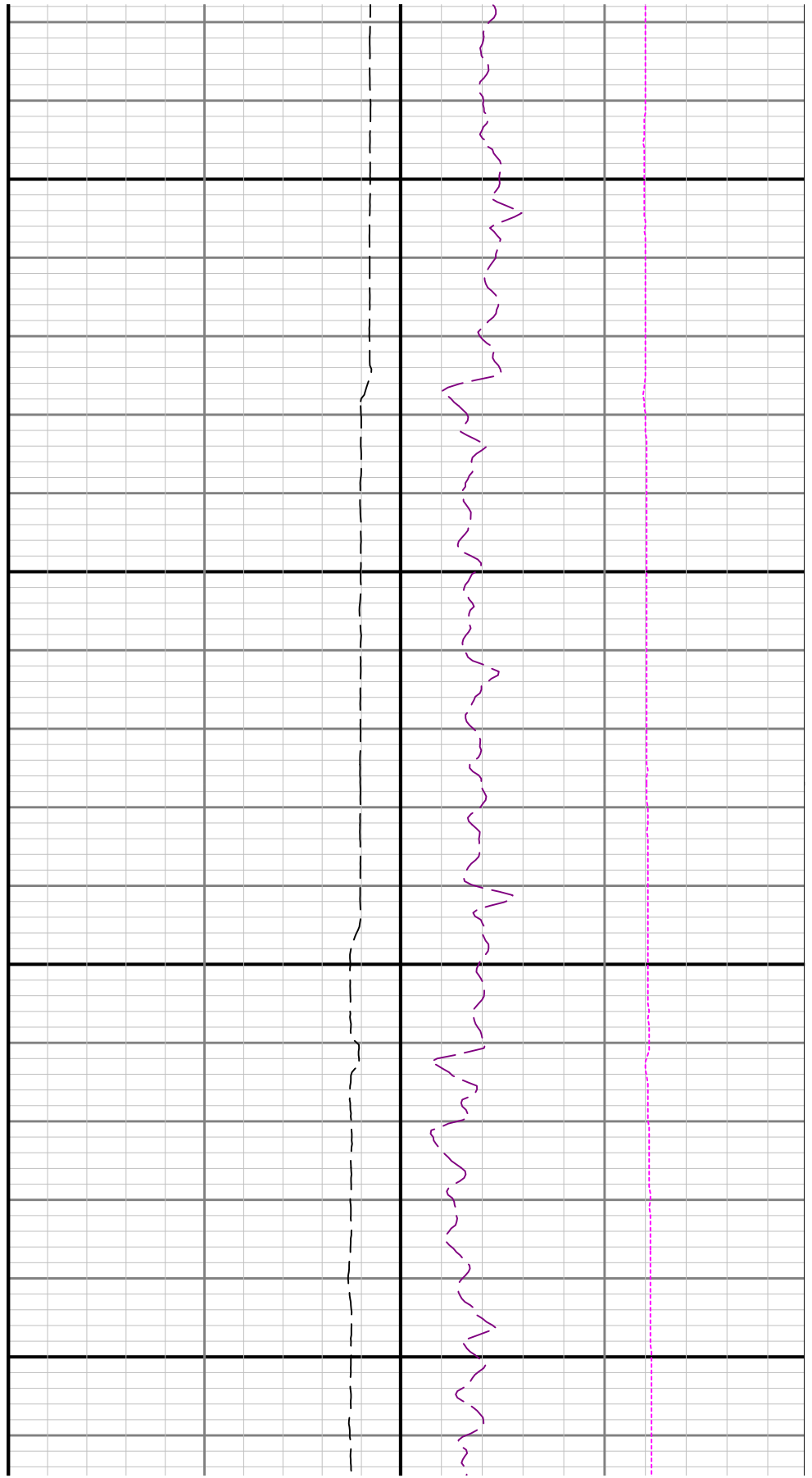


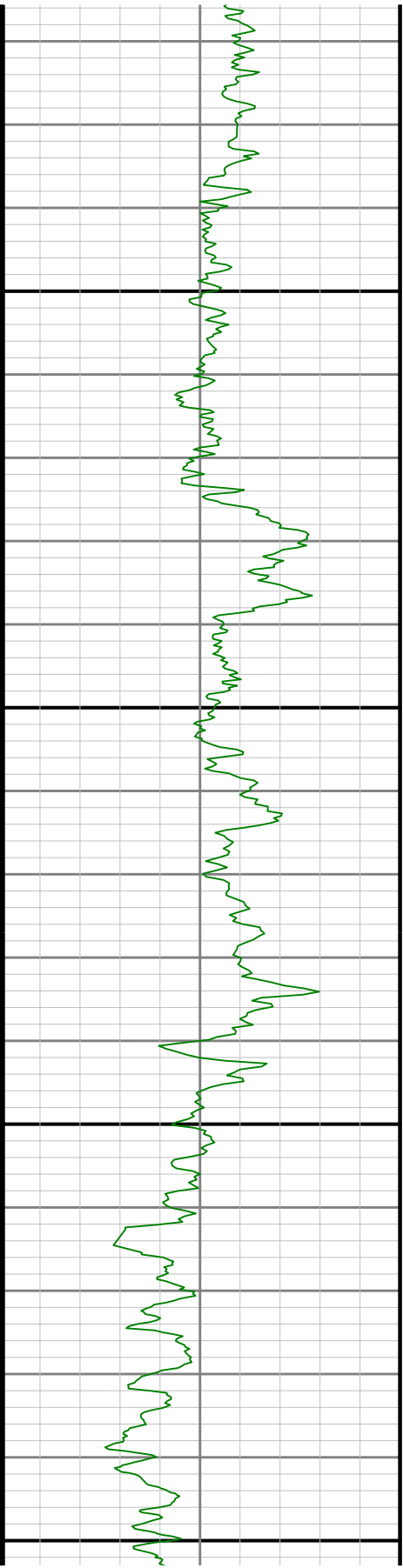




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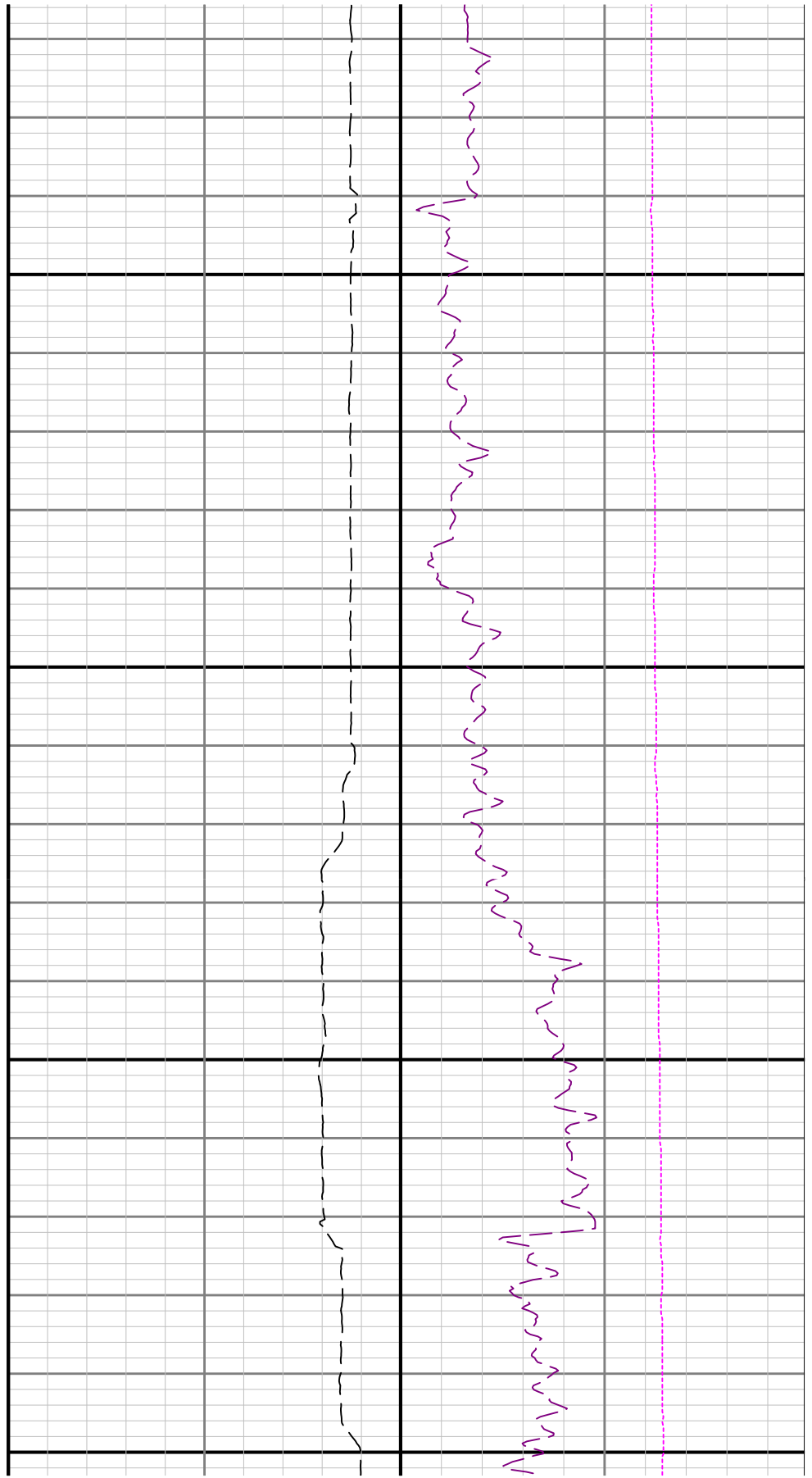
0099





6800

6700



	175.00	0.96	63.99	N/A	1.10	1.57	174.99	-4651.01	-1.04	98.00	0.33	0.23	15.80
	266.00	0.97	61.75	N/A	1.80	2.94	265.97	-4560.03	-1.69	91.00	0.04	0.01	-2.46
	361.00	0.88	69.90	N/A	2.43	4.33	360.96	-4465.04	-2.27	95.00	0.17	-0.09	8.58
	455.00	1.00	65.13	N/A	3.02	5.75	454.95	-4371.05	-2.82	94.00	0.15	0.13	-5.07
	550.00	0.88	63.37	N/A	3.70	7.16	549.94	-4276.06	-3.44	95.00	0.13	-0.13	-1.85
	645.00	0.81	36.50	N/A	4.56	8.21	644.93	-4181.07	-4.27	95.00	0.42	-0.07	-28.28
	739.00	0.36	2.64	N/A	5.39	8.62	738.92	-4087.08	-5.08	94.00	0.58	-0.48	-36.02
	833.00	0.18	73.50	N/A	5.73	8.77	832.92	-3993.08	-5.41	94.00	0.37	-0.19	75.38
	928.00	0.24	303.31	N/A	5.88	8.75	927.92	-3898.08	-5.57	95.00	0.40	0.06	-137.04
	1022.00	0.14	163.51	N/A	5.88	8.62	1021.92	-3804.08	-5.57	94.00	0.38	-0.11	-148.72
	1117.00	0.08	210.28	N/A	5.71	8.62	1116.92	-3709.08	-5.40	95.00	0.11	-0.06	49.23
	1211.00	0.18	45.08	N/A	5.76	8.69	1210.92	-3615.08	-5.45	94.00	0.27	0.11	-175.74
	1306.00	0.05	272.82	N/A	5.87	8.75	1305.92	-3520.08	-5.55	95.00	0.23	-0.14	-139.22
	1400.00	0.07	202.19	N/A	5.82	8.69	1399.92	-3426.08	-5.50	94.00	0.08	0.02	-75.14
	1494.00	0.16	281.38	N/A	5.79	8.54	1493.92	-3332.08	-5.48	94.00	0.17	0.10	84.24
	1589.00	0.22	5.59	N/A	6.00	8.43	1588.92	-3237.08	-5.69	95.00	0.27	0.06	88.64
	1683.00	0.18	337.02	N/A	6.31	8.39	1682.92	-3143.08	-6.01	94.00	0.11	-0.04	-30.39
	1778.00	0.41	271.76	N/A	6.46	7.99	1777.92	-3048.08	-6.17	95.00	0.39	0.24	-68.69
	1873.00	0.29	317.87	N/A	6.65	7.49	1872.92	-2953.08	-6.38	95.00	0.31	-0.13	48.54
	1899.00	0.20	58.46	N/A	6.72	7.48	1898.92	-2927.08	-6.45	26.00	1.47	-0.35	386.88
	1991.00	0.06	285.56	98.7	6.82	7.57	1990.92	-2835.08	-6.54	92.00	0.27	-0.15	-144.46
	2085.00	0.03	188.03	101.4	6.81	7.52	2084.92	-2741.08	-6.53	94.00	0.08	-0.03	-103.76
	2180.00	0.22	90.05	106.8	6.78	7.70	2179.92	-2646.08	-6.50	95.00	0.24	0.20	-103.14
	2275.00	0.91	241.59	109.5	6.42	7.22	2274.91	-2551.09	-6.16	95.00	1.17	0.73	159.52
	2369.00	0.22	311.39	109.5	6.19	6.43	2368.91	-2457.09	-5.95	94.00	0.91	-0.73	74.26
	2558.00	6.38	180.85	117.6	-4.08	6.00	2557.53	-2268.47	4.30	189.00	3.45	3.26	-69.07
	2652.00	9.01	165.79	117.6	-16.45	7.73	2650.68	-2175.32	16.71	94.00	3.50	2.80	-16.02
	2747.00	8.31	132.39	120.3	-28.29	14.63	2744.66	-2081.34	28.80	95.00	5.27	-0.74	-35.16
	2841.00	10.04	146.37	125.7	-39.70	24.19	2837.46	-1988.54	40.53	94.00	2.99	1.84	14.87
	2936.00	10.74	138.64	125.7	-53.24	34.62	2930.91	-1895.09	54.44	95.00	1.64	0.74	-8.14
	3031.00	11.25	157.99	128.4	-68.48	43.95	3024.19	-1801.81	70.00	95.00	3.90	0.54	20.37
	3220.00	11.77	160.59	131.1	-103.75	57.26	3209.39	-1616.61	105.72	189.00	0.39	0.28	1.38
	3314.00	10.48	161.57	131.1	-120.90	63.15	3301.63	-1524.37	123.08	94.00	1.39	-1.37	1.04
	3409.00	8.55	181.59	133.8	-136.17	65.69	3395.34	-1430.66	138.42	95.00	4.00	-2.03	21.07
	3504.00	11.65	174.17	133.8	-152.77	66.47	3488.86	-1337.14	155.04	95.00	3.53	3.26	-7.81
	3598.00	12.32	145.10	136.5	-170.46	73.18	3580.89	-1245.11	172.95	94.00	6.39	0.71	-30.93
	3693.00	11.85	149.74	139.2	-187.19	83.89	3673.79	-1152.21	190.06	95.00	1.14	-0.49	4.88
	3787.00	11.43	142.15	136.5	-202.88	94.47	3765.86	-1060.14	206.12	94.00	1.69	-0.45	-8.07
	3882.00	11.30	142.92	139.2	-217.74	105.86	3859.00	-967.00	221.37	95.00	0.21	-0.14	0.81
	3976.00	11.39	144.09	141.9	-232.61	116.85	3951.16	-874.84	236.62	94.00	0.26	0.10	1.24
	4071.00	11.32	144.04	141.9	-247.75	127.83	4044.30	-781.70	252.15	95.00	0.07	-0.07	-0.05
	4165.00	11.51	142.12	144.6	-262.62	139.01	4136.45	-689.55	267.40	94.00	0.45	0.20	-2.04
	4260.00	11.33	143.47	144.6	-277.60	150.38	4229.56	-596.44	282.78	95.00	0.34	-0.19	1.42
	4355.00	11.48	142.57	144.6	-292.61	161.68	4322.69	-503.31	298.18	95.00	0.24	0.16	-0.95
	4449.00	11.30	143.53	147.3	-307.44	172.84	4414.84	-411.16	313.40	94.00	0.28	-0.19	1.02
	4544.00	11.22	143.19	147.3	-322.33	183.91	4508.01	-317.99	328.67	95.00	0.11	-0.08	-0.36
	4638.00	11.49	143.72	150.0	-337.20	194.93	4600.17	-225.83	343.92	94.00	0.31	0.29	0.56
	4732.00	11.08	143.71	152.7	-352.02	205.82	4692.35	-133.65	359.13	94.00	0.44	-0.44	-0.01
	4827.00	11.60	143.77	152.7	-367.09	216.86	4785.50	-40.50	374.57	95.00	0.55	0.55	0.06
	4921.00	10.86	144.44	155.4	-381.91	227.60	4877.70	51.70	389.77	94.00	0.80	-0.79	0.71
	5016.00	11.88	142.06	158.1	-396.91	238.82	4970.83	144.83	405.16	95.00	1.18	1.07	-2.51
	5111.00	11.92	148.42	158.1	-412.98	249.97	5063.79	237.79	421.61	95.00	1.38	0.04	6.69
	5205.00	9.97	147.83	160.8	-428.14	259.38	5156.08	330.08	437.10	94.00	2.08	-2.07	-0.63
	5300.00	10.63	143.87	163.5	-442.17	268.93	5249.55	423.55	451.47	95.00	1.02	0.69	-4.17
	5394.00	11.66	146.78	160.8	-457.12	279.25	5341.78	515.78	466.77	94.00	1.25	1.10	3.10
	5489.00	10.51	152.49	163.5	-472.84	288.51	5435.00	609.00	482.81	95.00	1.67	-1.21	6.01
	5584.00	10.91	165.88	166.2	-489.25	294.70	5528.36	702.36	499.43	95.00	2.65	0.42	14.09
	5678.00	11.64	151.98	166.2	-506.25	301.33	5620.57	794.57	516.65	94.00	2.99	0.78	-14.79
	5773.00	11.53	145.66	168.9	-522.55	311.19	5713.63	887.63	533.29	95.00	1.34	-0.12	-6.65
	5867.00	11.10	143.60	168.9	-537.59	321.86	5805.81	979.81	548.71	94.00	0.63	-0.46	-2.19
	5962.00	11.39	144.82	171.6	-552.62	332.69	5898.98	1072.98	564.11	95.00	0.39	0.31	1.28
	6056.00	11.16	143.08	174.3	-567.48	343.50	5991.17	1165.17	579.34	94.00	0.44	-0.24	-1.85
	6151.00	11.23	143.10	177.0	-582.24	354.58	6084.37	1258.37	594.46	95.00	0.24	0.24	6.24

	6151.00	11.20	143.12	177.0	-582.21	354.56	6084.37	1258.37	594.46	95.00	0.04	0.04	0.04
	6245.00	11.29	149.35	177.0	-597.42	364.73	6176.57	1350.57	610.03	94.00	1.30	0.10	6.63
	6340.00	11.21	145.72	179.7	-613.06	374.67	6269.74	1443.74	626.00	95.00	0.75	-0.08	-3.82
	6434.00	11.44	143.91	179.7	-628.14	385.31	6361.91	1535.91	641.46	94.00	0.45	0.24	-1.93
	6528.00	17.80	166.37	179.7	-649.67	394.20	6452.89	1626.89	663.29	94.00	8.95	6.77	23.89
	6623.00	26.68	174.59	182.5	-685.10	399.65	6540.76	1714.76	698.89	95.00	9.88	9.35	8.65
	6717.00	35.24	176.39	185.2	-733.26	403.35	6621.29	1795.29	747.16	94.00	9.16	9.11	1.91
	6812.00	44.49	170.50	187.9	-793.60	410.59	6694.16	1868.16	807.71	95.00	10.51	9.74	-6.20
	6907.00	52.96	171.88	190.6	-864.10	421.46	6756.77	1930.77	878.55	95.00	8.98	8.92	1.45
	7001.00	60.15	175.66	193.3	-942.00	429.86	6808.56	1982.56	956.71	94.00	8.35	7.65	4.02
	7096.00	68.85	181.32	196.0	-1027.59	431.96	6849.44	2023.44	1042.32	95.00	10.62	9.16	5.96
	7190.00	76.68	184.84	196.0	-1117.15	427.08	6877.28	2051.28	1131.65	94.00	9.06	8.33	3.74
	7285.00	86.46	186.46	198.7	-1210.55	417.83	6891.19	2065.19	1224.66	95.00	10.43	10.29	1.71
	7379.00	90.22	182.11	198.7	-1304.21	410.81	6893.91	2067.91	1318.01	94.00	6.11	4.00	-4.63
	7474.00	90.25	181.31	204.1	-1399.17	407.98	6893.53	2067.53	1412.80	95.00	0.84	0.03	-0.84
	7568.00	90.18	181.34	206.8	-1493.14	405.80	6893.17	2067.17	1506.64	94.00	0.08	-0.07	0.03
	7663.00	90.31	180.95	209.5	-1588.12	403.90	6892.77	2066.77	1601.49	95.00	0.43	0.14	-0.41
	7758.00	90.25	181.13	212.2	-1683.11	402.18	6892.30	2066.30	1696.36	95.00	0.20	-0.06	0.19
	7852.00	90.00	182.54	214.9	-1777.05	399.17	6892.10	2066.10	1790.14	94.00	1.52	-0.27	1.50
	7946.00	90.22	183.21	214.9	-1870.94	394.46	6891.92	2065.92	1883.79	94.00	0.75	0.23	0.71
	8041.00	90.52	183.23	214.9	-1965.78	389.12	6891.30	2065.30	1978.39	95.00	0.32	0.32	0.02
	8135.00	90.00	186.00	217.6	-2059.47	381.56	6890.88	2064.88	2071.75	94.00	3.00	-0.55	2.95
	8230.00	89.82	183.55	220.3	-2154.13	373.65	6891.03	2065.03	2166.07	95.00	2.59	-0.19	-2.58
	8324.00	89.97	183.17	382.5	-2247.97	368.14	6891.20	2065.20	2259.65	94.00	0.43	0.16	-0.40
	8419.00	91.17	180.76	220.3	-2342.90	364.88	6890.25	2064.25	2354.40	95.00	2.83	1.26	-2.54
	8513.00	90.52	172.92	223.0	-2436.67	370.06	6888.86	2062.86	2448.30	94.00	8.37	-0.69	-8.34
	8607.00	90.22	172.45	223.0	-2529.91	382.03	6888.26	2062.26	2541.90	94.00	0.59	-0.32	-0.50
	8702.00	90.12	177.29	220.3	-2624.50	390.52	6887.97	2061.97	2636.73	95.00	5.10	-0.11	5.09
	8796.00	89.82	178.23	223.0	-2718.42	394.19	6888.02	2062.02	2730.73	94.00	1.05	-0.32	1.00
	8891.00	89.42	180.17	223.0	-2813.41	395.52	6888.65	2062.65	2825.70	95.00	2.09	-0.42	2.04
	8985.00	90.49	179.96	225.7	-2907.41	395.41	6888.73	2062.73	2919.64	94.00	1.16	1.14	-0.22
	9080.00	90.31	179.95	225.7	-3002.40	395.49	6888.06	2062.06	3014.58	95.00	0.19	-0.19	-0.01
	9174.00	89.48	178.80	228.4	-3096.40	396.51	6888.24	2062.24	3108.55	94.00	1.51	-0.88	-1.22
	9269.00	91.63	181.25	231.1	-3191.38	396.47	6887.32	2061.32	3203.47	95.00	3.43	2.26	2.58
	9364.00	89.91	177.38	233.8	-3286.34	397.61	6886.04	2060.04	3298.41	95.00	4.46	-1.81	-4.07
	9458.00	90.52	180.09	233.8	-3380.31	399.68	6885.69	2059.69	3392.39	94.00	2.96	0.65	2.88
	9553.00	90.49	179.93	236.5	-3475.30	399.67	6884.85	2058.85	3487.33	95.00	0.17	-0.03	-0.17
	9647.00	90.03	181.09	236.5	-3569.30	398.83	6884.42	2058.42	3581.23	94.00	1.33	-0.49	1.23
	9742.00	90.09	178.61	239.2	-3664.29	399.08	6884.32	2058.32	3676.17	95.00	2.61	0.06	-2.61
	9836.00	91.05	179.68	239.2	-3758.27	400.48	6883.39	2057.39	3770.15	94.00	1.53	1.02	1.14
	9931.00	90.00	179.60	239.2	-3853.27	401.08	6882.52	2056.52	3865.10	95.00	1.11	-1.11	-0.08
	10025.00	89.60	180.40	239.2	-3947.26	401.08	6882.85	2056.85	3959.04	94.00	0.95	-0.43	0.85
	10120.00	90.68	178.36	241.9	-4042.25	402.11	6882.61	2056.61	4054.00	95.00	2.43	1.14	-2.15
	10215.00	90.65	180.63	241.9	-4137.24	402.94	6881.51	2055.51	4148.96	95.00	2.39	-0.03	2.39
	10309.00	88.89	180.00	244.6	-4231.23	402.43	6881.89	2055.89	4242.87	94.00	1.99	-1.87	-0.67
	10404.00	91.60	179.52	244.6	-4326.22	402.83	6881.48	2055.48	4337.82	95.00	2.90	2.85	-0.51
	10499.00	89.17	180.29	244.6	-4421.21	402.98	6880.84	2054.84	4432.75	95.00	2.68	-2.56	0.81
	10593.00	89.66	179.51	244.6	-4515.20	403.15	6881.80	2055.80	4526.69	94.00	0.98	0.52	-0.83
	10688.00	90.52	179.87	198.7	-4610.20	403.66	6881.65	2055.65	4621.65	95.00	0.98	0.91	0.38
	10782.00	89.85	180.72	241.9	-4704.20	403.18	6881.35	2055.35	4715.57	94.00	1.15	-0.71	0.90
	10971.00	90.34	174.77	247.3	-4892.96	410.61	6881.04	2055.04	4904.48	189.00	3.16	0.26	-3.15
	11066.00	90.68	175.82	247.3	-4987.64	418.40	6880.19	2054.19	4999.37	95.00	1.16	0.36	1.11
	11160.00	90.68	174.69	247.3	-5081.31	426.18	6879.08	2053.08	5093.26	94.00	1.20	0.00	-1.20
	11254.00	90.31	175.47	247.3	-5174.96	434.24	6878.26	2052.26	5187.14	94.00	0.92	-0.39	0.83
	11349.00	90.15	178.32	247.3	-5269.81	439.38	6877.88	2051.88	5282.11	95.00	3.00	-0.17	3.00
	11443.00	89.38	179.48	247.3	-5363.79	441.19	6878.27	2052.27	5376.09	94.00	1.48	-0.82	1.23
	11538.00	91.26	179.78	247.3	-5458.78	441.80	6877.74	2051.74	5471.05	95.00	2.00	1.98	0.32
	11632.00	89.69	180.22	247.3	-5552.77	441.80	6876.96	2050.96	5564.98	94.00	1.73	-1.67	0.47
	11726.00	91.78	179.98	247.3	-5646.76	441.64	6875.75	2049.75	5658.90	94.00	2.24	2.22	-0.26
	11821.00	89.85	180.19	247.3	-5741.75	441.50	6874.40	2048.40	5753.82	95.00	2.04	-2.03	0.22
	11915.00	89.94	179.55	247.3	-5835.75	441.71	6874.57	2048.57	5847.77	94.00	0.69	0.10	-0.68
	12010.00	90.43	179.69	247.3	-5930.74	442.34	6874.27	2048.27	5942.73	95.00	0.54	0.52	0.15
	12104.00	90.31	180.54	250.0	-6024.74	442.15	6873.66	2047.66	6036.66	94.00	0.91	-0.13	0.90

	12199.00	90.22	180.19	250.0	-6119.74	441.55	6873.22	2047.22	6131.58	95.00	0.38	-0.09	-0.37
	12293.00	90.49	180.25	250.0	-6213.73	441.19	6872.64	2046.64	6225.50	94.00	0.29	0.29	0.06
	12387.00	90.28	179.39	250.0	-6307.73	441.48	6872.01	2046.01	6319.45	94.00	0.94	-0.22	-0.91
	12482.00	89.82	179.68	250.0	-6402.73	442.25	6871.92	2045.92	6414.41	95.00	0.57	-0.48	0.31
	12576.00	89.91	179.83	252.7	-6496.73	442.65	6872.15	2046.15	6508.36	94.00	0.19	0.10	0.16
	12670.00	90.43	179.46	252.7	-6590.72	443.24	6871.87	2045.87	6602.32	94.00	0.68	0.55	-0.39
	12764.00	90.00	180.24	255.4	-6684.72	443.48	6871.51	2045.51	6696.27	94.00	0.95	-0.46	0.83
	12859.00	90.52	179.44	258.1	-6779.72	443.75	6871.08	2045.08	6791.22	95.00	1.00	0.55	-0.84
	13047.00	90.37	178.99	258.1	-6967.69	446.32	6869.62	2043.62	6979.17	188.00	0.25	-0.08	-0.24
	13142.00	89.94	180.13	258.1	-7062.69	447.05	6869.37	2043.37	7074.13	95.00	1.28	-0.45	1.20
	13236.00	90.03	180.82	258.1	-7156.69	446.27	6869.39	2043.39	7168.04	94.00	0.74	0.10	0.73
	13331.00	89.91	181.18	260.8	-7251.67	444.61	6869.44	2043.44	7262.90	95.00	0.40	-0.13	0.38
	13425.00	90.12	181.11	252.7	-7345.65	442.74	6869.41	2043.41	7356.76	94.00	0.24	0.22	-0.07
	13520.00	90.06	181.94	255.4	-7440.62	440.21	6869.27	2043.27	7451.57	95.00	0.88	-0.06	0.87
	13614.00	89.88	179.97	258.1	-7534.60	438.64	6869.31	2043.31	7545.44	94.00	2.10	-0.19	-2.10
	13803.00	89.75	181.49	255.4	-7723.58	436.23	6869.93	2043.93	7734.21	189.00	0.81	-0.07	0.80
	13898.00	89.82	180.28	258.1	-7818.56	434.77	6870.28	2044.28	7829.09	95.00	1.28	0.07	-1.27
	13992.00	90.68	181.37	258.1	-7912.55	433.41	6869.87	2043.87	7922.96	94.00	1.48	0.91	1.16
	14087.00	90.34	181.35	260.8	-8007.52	431.16	6869.03	2043.03	8017.79	95.00	0.36	-0.36	-0.02
	14182.00	89.85	179.49	260.8	-8102.51	430.46	6868.87	2042.87	8112.70	95.00	2.02	-0.52	-1.96
	14276.00	90.06	181.42	260.8	-8196.51	429.72	6868.94	2042.94	8206.61	94.00	2.07	0.22	2.05
	14371.00	90.80	183.91	260.8	-8291.39	425.30	6868.23	2042.23	8301.28	95.00	2.73	0.78	2.62
	14465.00	90.95	183.48	263.5	-8385.19	419.24	6866.79	2040.79	8394.80	94.00	0.48	0.16	-0.46
	14560.00	90.62	181.74	263.5	-8480.07	414.92	6865.49	2039.49	8489.47	95.00	1.86	-0.35	-1.83
	14654.00	90.92	182.00	263.5	-8574.02	411.85	6864.23	2038.23	8583.24	94.00	0.42	0.32	0.28
	14748.00	89.97	181.71	260.8	-8667.96	408.81	6863.50	2037.50	8677.02	94.00	1.06	-1.01	-0.31
	14843.00	89.97	181.57	260.8	-8762.92	406.09	6863.55	2037.55	8771.83	95.00	0.15	-0.00	-0.15
	14937.00	90.18	180.09	260.8	-8856.91	404.73	6863.43	2037.43	8865.70	94.00	1.59	0.22	-1.57
	15032.00	90.25	182.76	260.8	-8951.87	402.36	6863.07	2037.07	8960.52	95.00	2.81	0.07	2.81
	15126.00	90.00	182.89	260.8	-9045.76	397.73	6862.86	2036.86	9054.18	94.00	0.30	-0.27	0.14
	15221.00	90.31	182.01	260.8	-9140.67	393.67	6862.61	2036.61	9148.89	95.00	0.98	0.33	-0.93
	15315.00	89.42	178.01	260.8	-9234.65	393.65	6862.83	2036.83	9242.81	94.00	4.36	-0.95	-4.26
	15410.00	90.22	177.90	260.8	-9329.59	397.04	6863.13	2037.13	9337.81	95.00	0.85	0.84	-0.12
	15504.00	90.37	178.28	260.8	-9423.53	400.18	6862.64	2036.64	9431.81	94.00	0.43	0.16	0.40
	15599.00	90.25	180.50	260.8	-9518.52	401.19	6862.13	2036.13	9526.77	95.00	2.34	-0.13	2.34
	15693.00	90.09	177.93	260.8	-9612.50	402.48	6861.85	2035.85	9620.74	94.00	2.74	-0.17	-2.73
	15788.00	90.34	178.33	263.5	-9707.45	405.58	6861.49	2035.49	9715.74	95.00	0.50	0.26	0.42
	15882.00	90.43	178.79	266.2	-9801.42	407.94	6860.86	2034.86	9809.73	94.00	0.50	0.10	0.49
	16071.00	90.55	178.05	266.2	-9990.34	413.15	6859.25	2033.25	9998.72	189.00	0.40	0.06	-0.39
	16166.00	90.83	178.95	266.2	-10085.30	415.64	6858.10	2032.10	10093.70	95.00	0.99	0.29	0.95
	16260.00	90.58	177.93	269.0	-10179.26	418.19	6856.94	2030.94	10187.69	94.00	1.12	-0.27	-1.09
	16354.00	89.97	178.89	269.0	-10273.22	420.80	6856.49	2030.49	10281.69	94.00	1.21	-0.65	1.02
	16449.00	90.31	176.72	271.7	-10368.14	424.44	6856.26	2030.26	10376.68	95.00	2.31	0.36	-2.28
	16543.00	90.40	178.11	271.7	-10462.04	428.68	6855.68	2029.68	10470.67	94.00	1.48	0.10	1.48
	16638.00	90.00	180.92	271.7	-10557.03	429.48	6855.35	2029.35	10565.63	95.00	2.99	-0.42	2.96
	16733.00	89.72	179.78	274.4	-10652.02	428.90	6855.58	2029.58	10660.54	95.00	1.24	-0.29	-1.20
	16827.00	90.98	179.58	271.7	-10746.02	429.43	6855.01	2029.01	10754.50	94.00	1.36	1.34	-0.21
	17017.00	90.40	180.14	269.0	-10936.00	429.89	6852.72	2026.72	10944.38	190.00	0.42	-0.31	0.29
	17206.00	90.58	180.93	269.0	-11124.99	428.13	6851.10	2025.10	11133.18	189.00	0.43	0.10	0.42
	17300.00	90.74	179.83	269.0	-11218.98	427.51	6850.02	2024.02	11227.08	94.00	1.18	0.17	-1.17
	17395.00	90.40	179.84	269.0	-11313.97	427.78	6849.07	2023.07	11322.03	95.00	0.36	-0.36	0.01
	17489.00	90.74	179.85	271.7	-11407.97	428.03	6848.14	2022.14	11415.97	94.00	0.36	0.36	0.01
Projection	17558.00	90.74	179.85	N/A	-11476.96	428.21	6847.25	2021.25	11484.93	69.00	0.00	0.00	-0.00