



Gamma Ray

LWD MEMORY LOG

Scale: Company: Noble Energy

1:240 Well: Rampart A32-721

True Vertical Depth Field: Wattenberg

Depth Reference: County: Weld Country: United States

Driller's Depth State: Colorado

Status: Surface Location: 40° 27' 55.630" N Other Services:

Final Print Latitude: 104° 34' 10.887" W Directional

API No: 05-123-50933-00 Longitude: 104° 34' 10.887" W

Job ID: 111017860 SEC: 20 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.: 4737.00 ft Elev. DF: 4737.00 ft

Dates Interval Magnetic Field Reference

From: 2021-09-15	Drilled (ft)	Logged (ft)	Azi Reference North:	Grid	Dip Angle: (deg)	66.78
To: 2021-09-17	Top: 1924.00	Top: 1924.00	Total Magnetic Field Strength: (nT)			51897
Spud: 2021-09-15	Bottom: 16848.00	Bottom: 16835.00	Mag to Reference North Correction: (deg)			7.00

Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	30.00	1924.00	9.625	36.00	30.00	1914.00
8.500	1924.00	16848.00				

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Azi (Start)	Inc Azi (End)
Oil Based Mud	1924.00	16848.00	8.500	14924.20	0.91 33.19	90.00 179.56

Acquisition System

Software Version

Other

Cadence	RT 6.1	Rig: H&P 517
Plot Studio	6.1.9289.2	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
						Top (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
1	1	8.500	PDC	3.00	Rotary Steerable	1924.00	16835.00	1924.00	16848.00	2021-09-15 09:50	2021-09-17 14:15	48.95

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
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	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Adam Schlenz	2021-09-15	2021-09-17	Carlos Lopez	2021-09-15	2021-09-17	N/A	N/A	N/A
Michael Gurnsey	2021-09-15	2021-09-17	Ronald Marquez	2021-09-16	2021-09-17			

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+ (%)
2021-09-15 08:20	1	1924.00	Oil Based Mud	9.6	14	N/A	17.6	71/17	Active Pit	27211	0.00
2021-09-16 18:40	1	10902.00	Oil Based Mud	10.1	16	N/A	17.6	78.9/21.1	Active Pit	28500	0.00
2021-09-17 15:38	1	16848.00	Oil Based Mud	10.2	16	N/A	18.0	78.8/21.2	Active Pit	28475	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	15208060	Near Bit Inclination	5.93	6.76	7.000	4.330
1	AutoTrak Curve Steering Unit	15208060	Near Bit VSS	5.93	6.76	7.000	4.330
1	AutoTrak Curve MWD	14219765	Gamma (single)	2.77	12.93	7.000	3.250
1	AutoTrak Curve MWD	14219765	Directional (mag)	12.27	22.43	7.000	3.250

Service and Tool Mnemonics

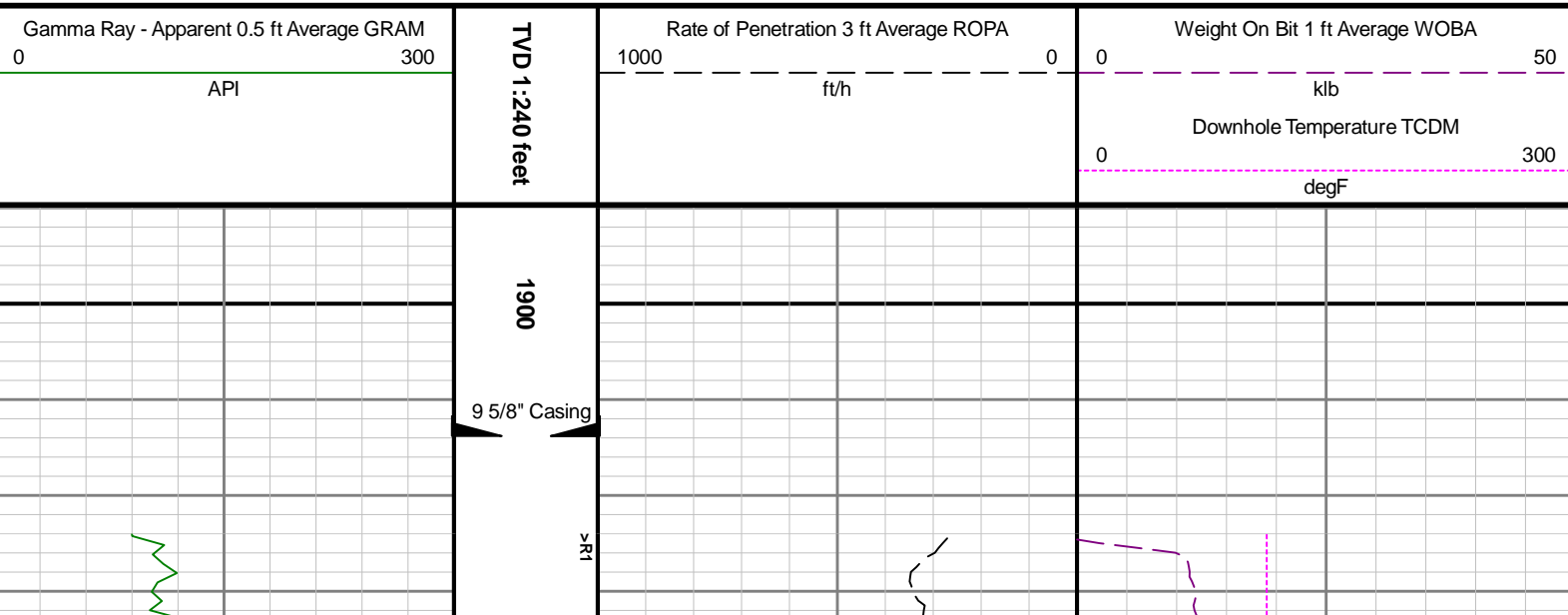
Mnemonic	Name	Description
ATC SU	AutoTrak Curve SU	Auto Trak Curve Steering Unit
ATC MWD	AutoTrak Curve MWD	Auto Trak Curve MWD
ATC LCPM	AutoTrak Curve LCPM	Auto Trak Curve LCPM

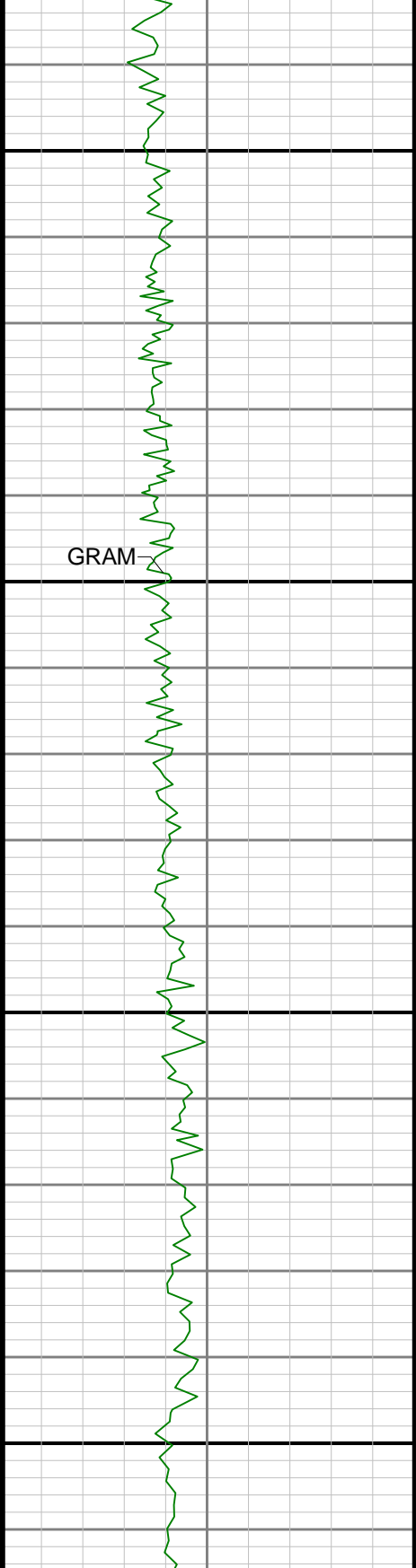
Comments

- 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 3/4 inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1924 to 16848 feet MD (1923 to 6789 feet TVD).

Remarks

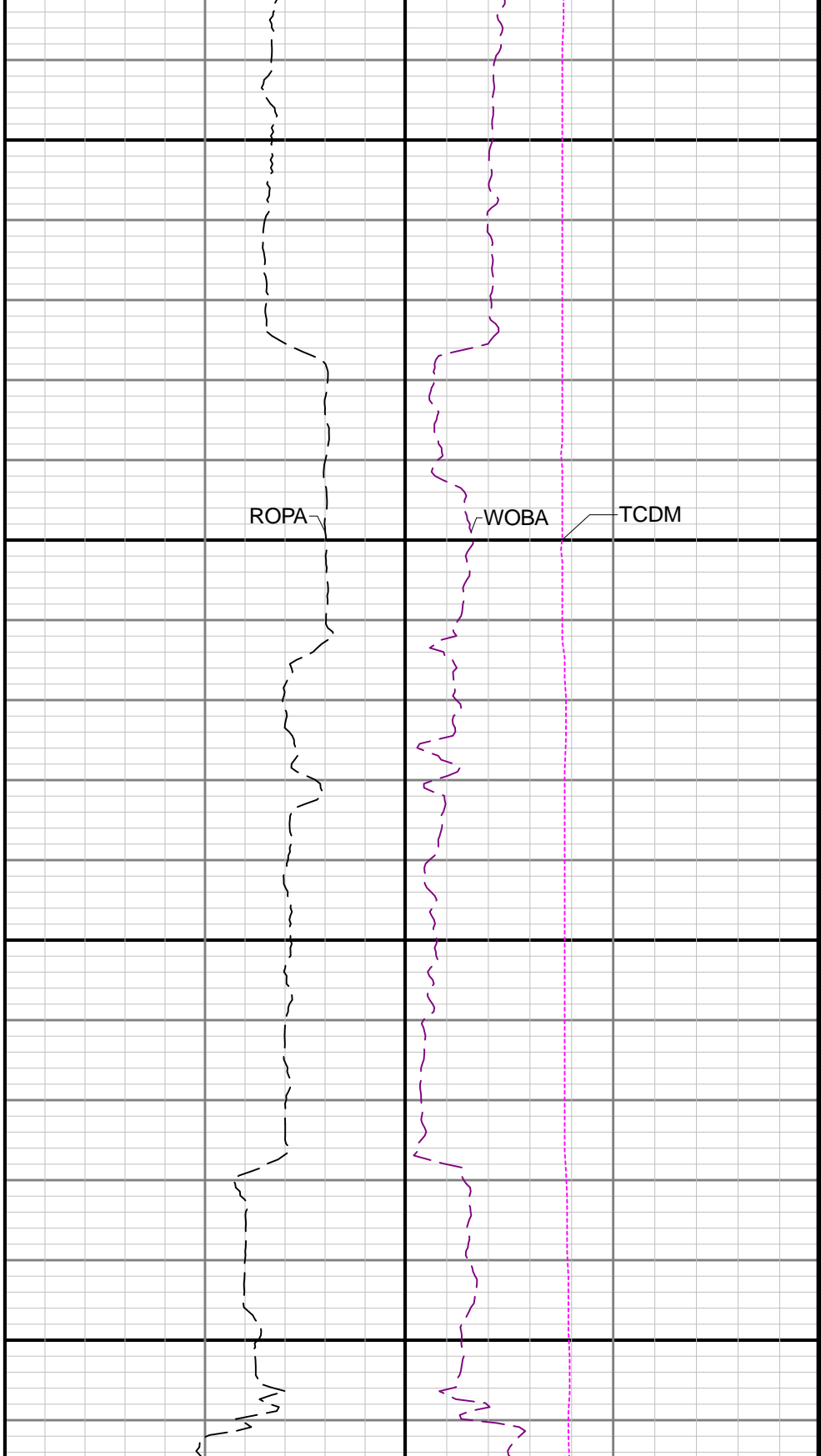
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
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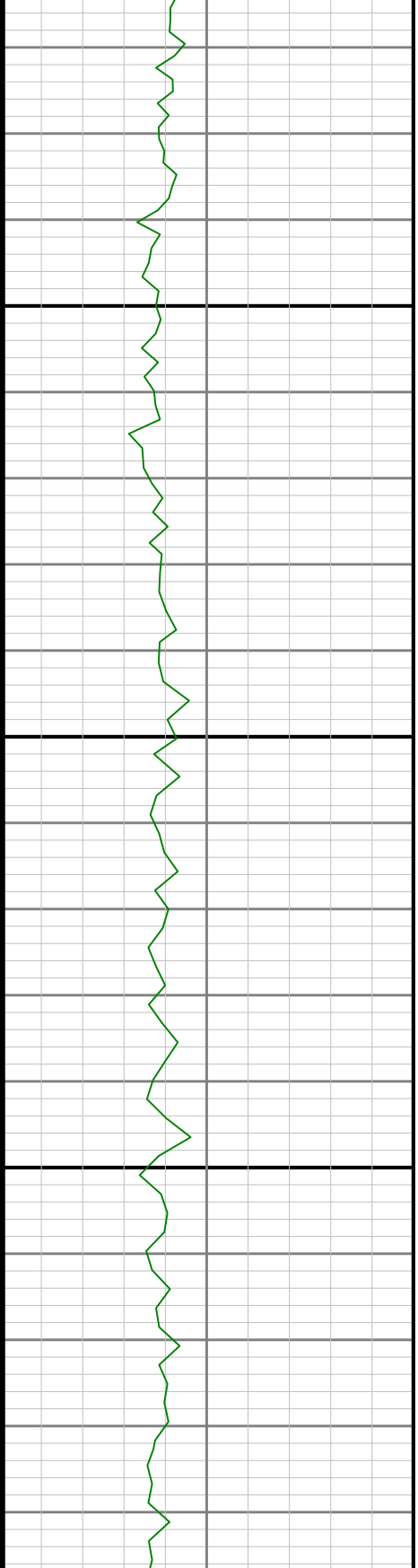
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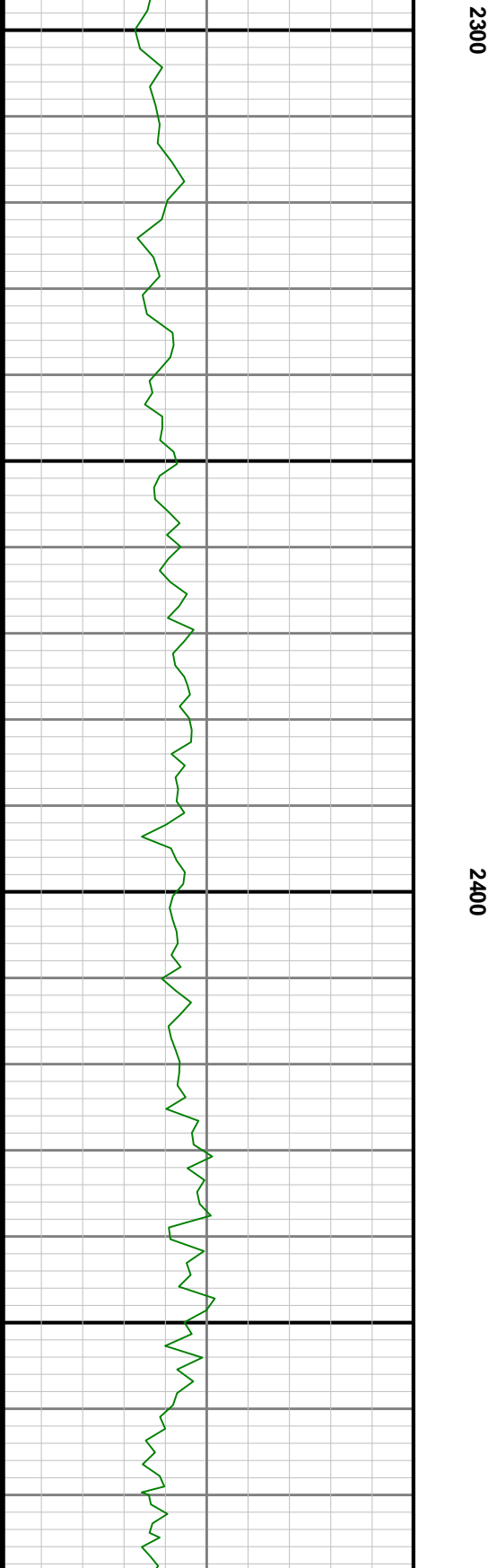
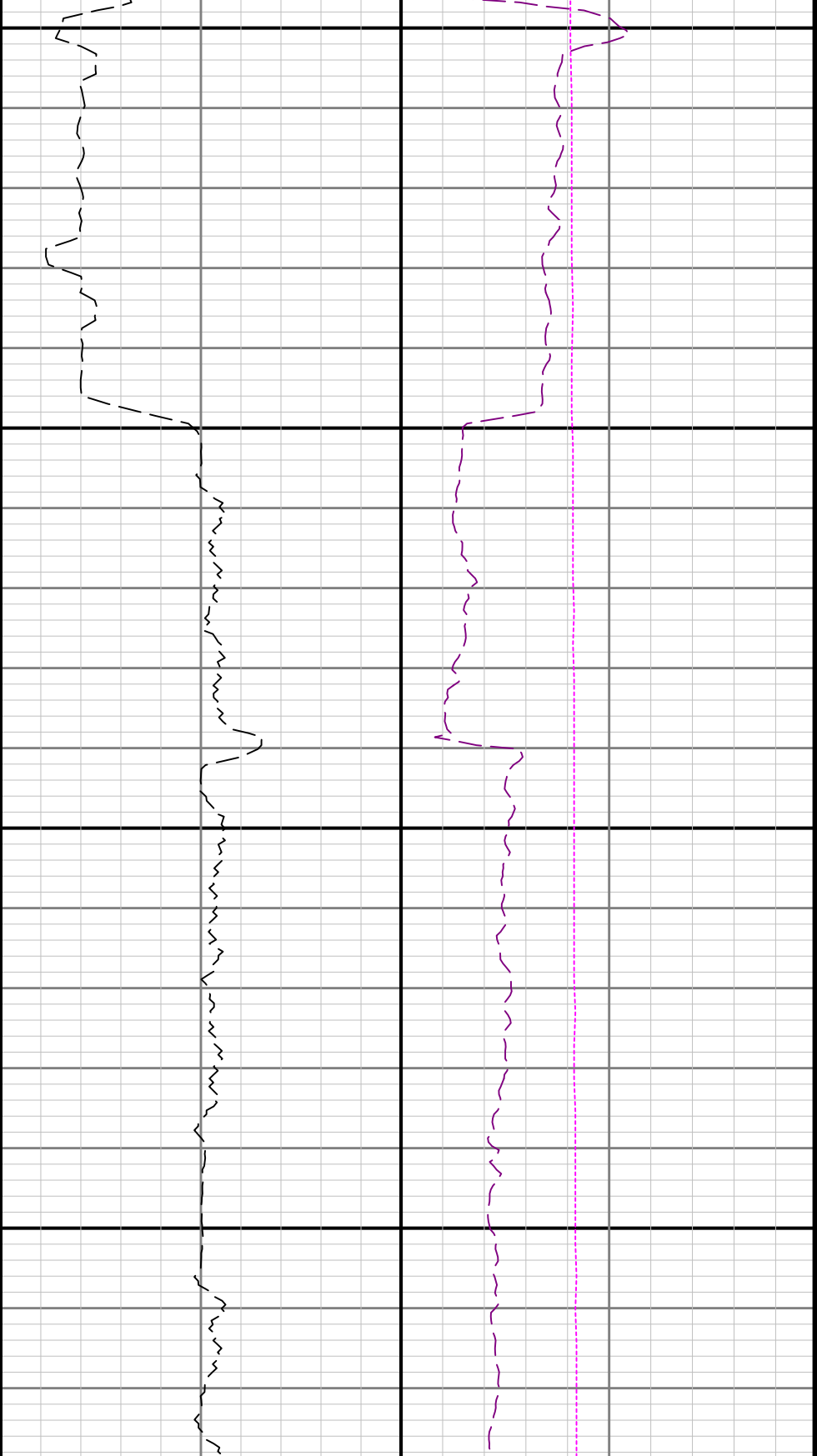
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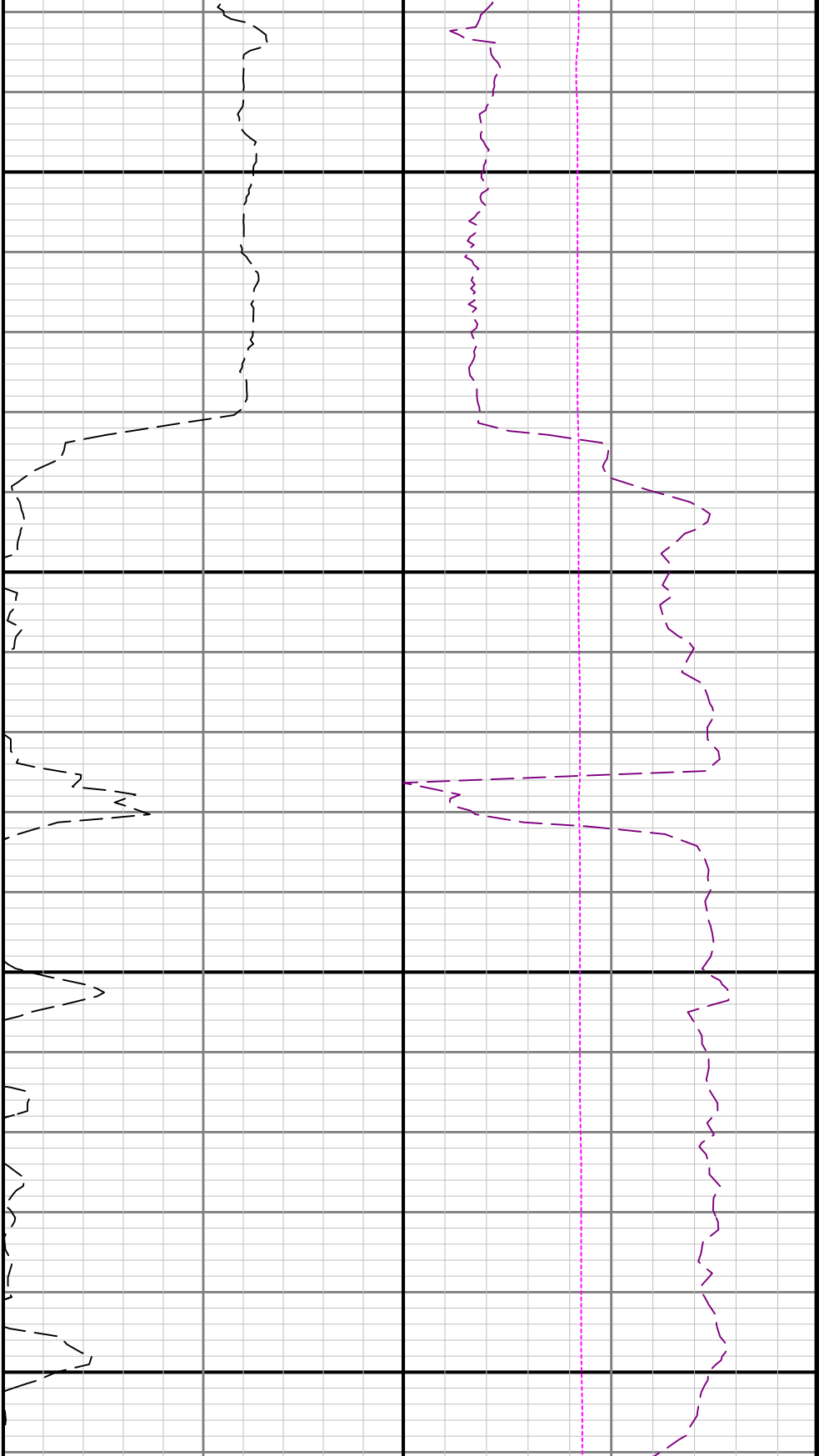




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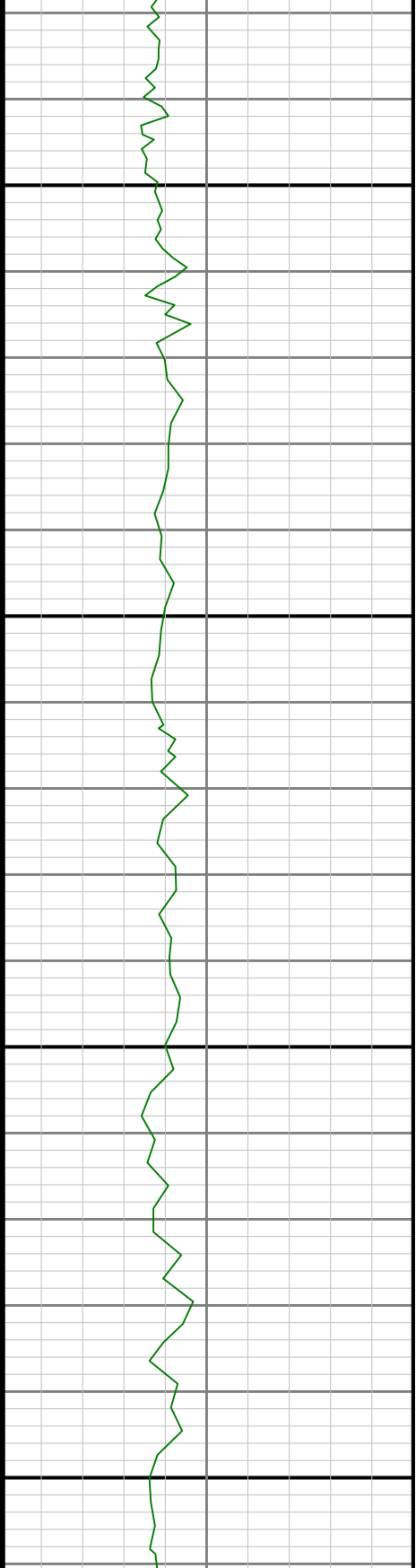


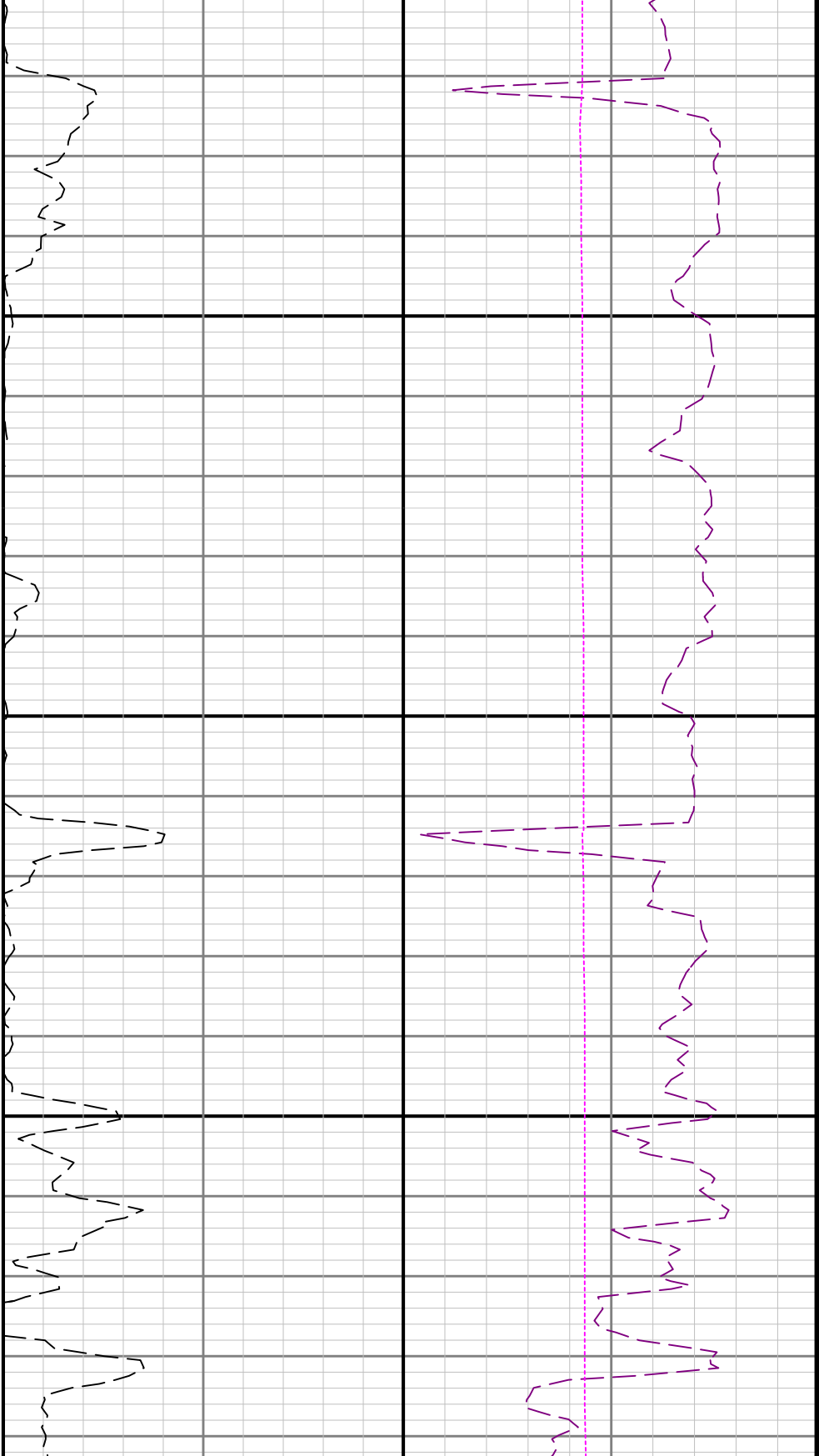




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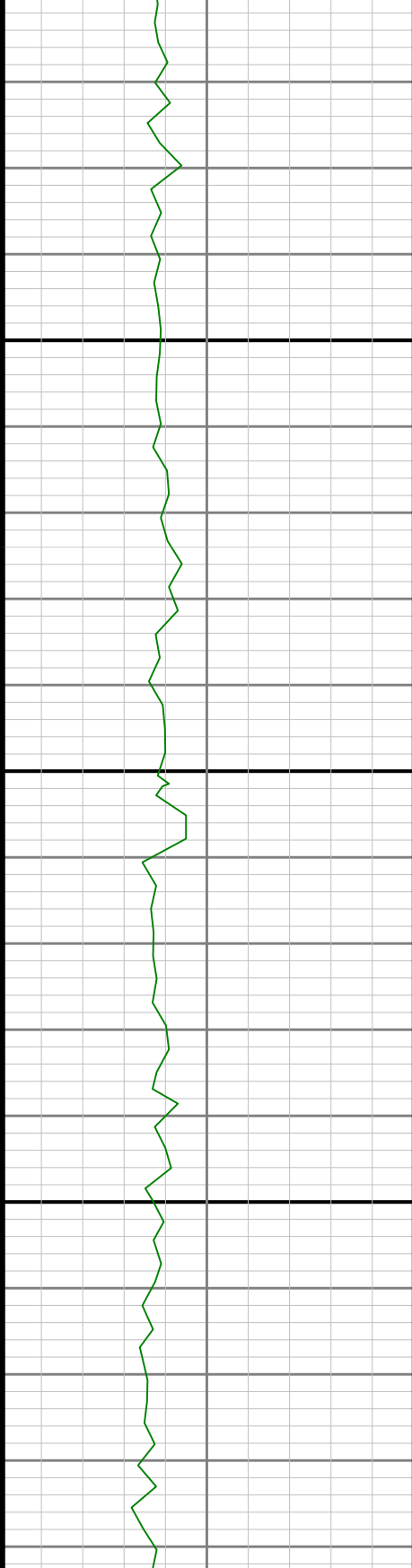
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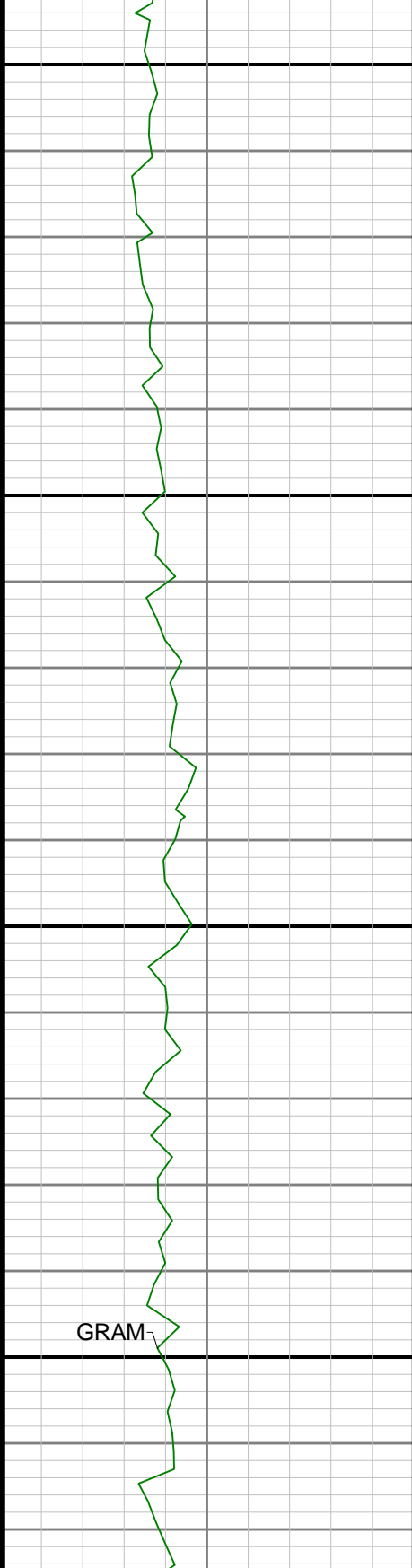




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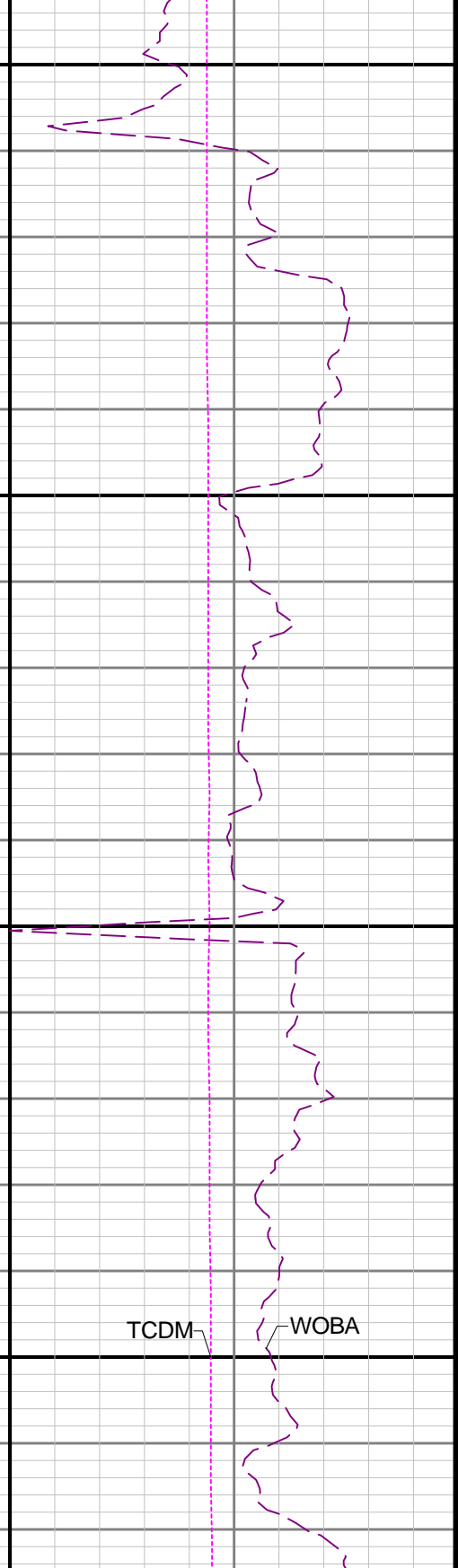
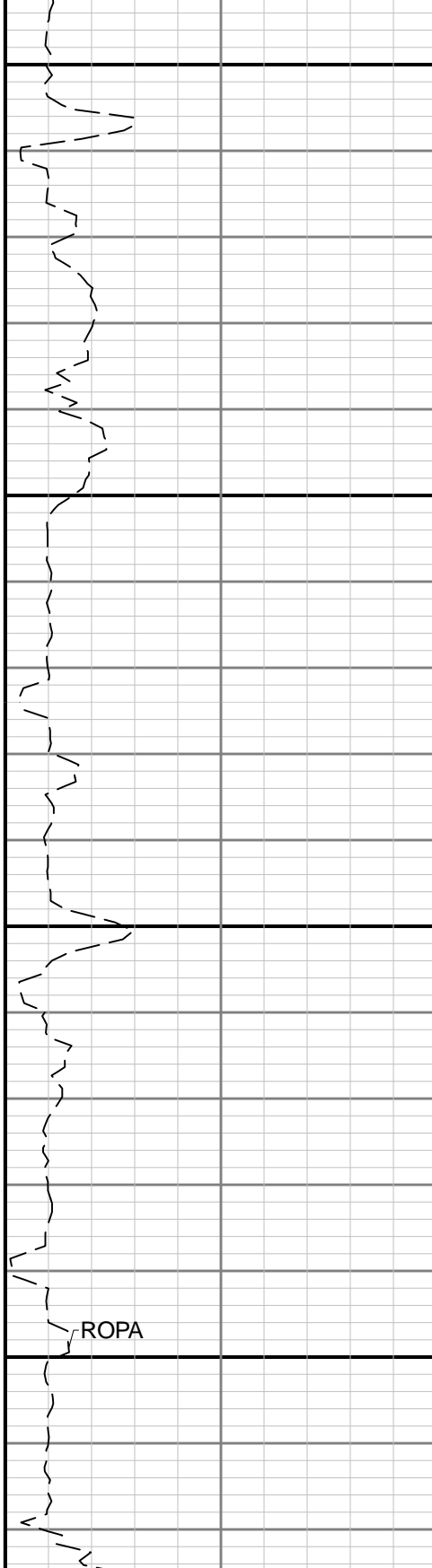
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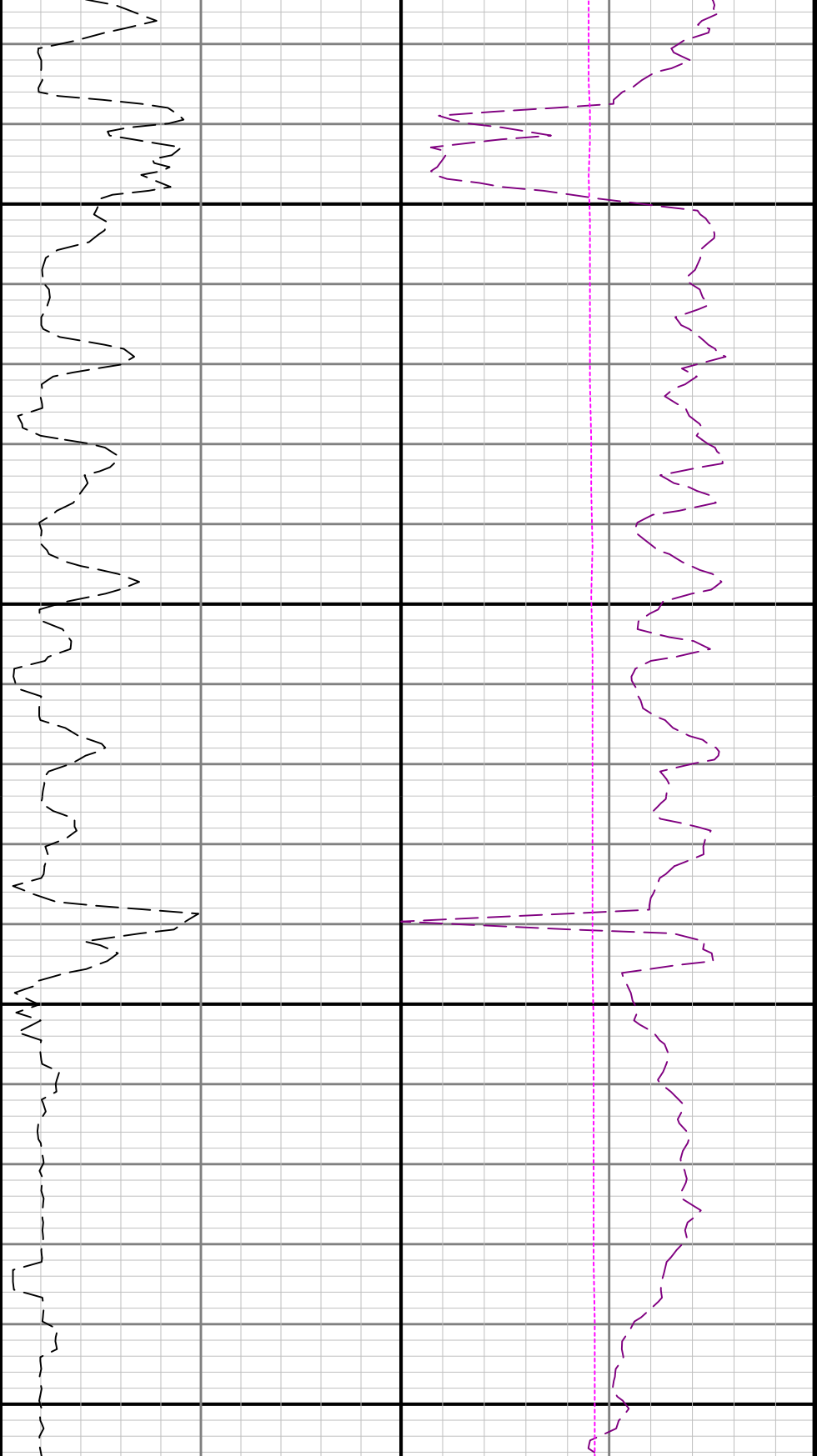




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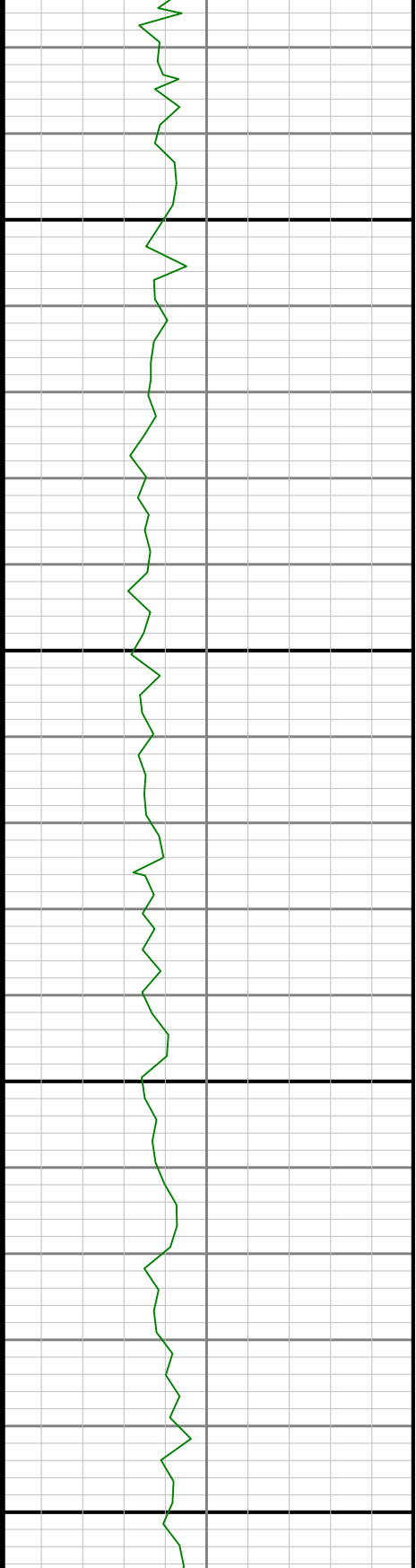
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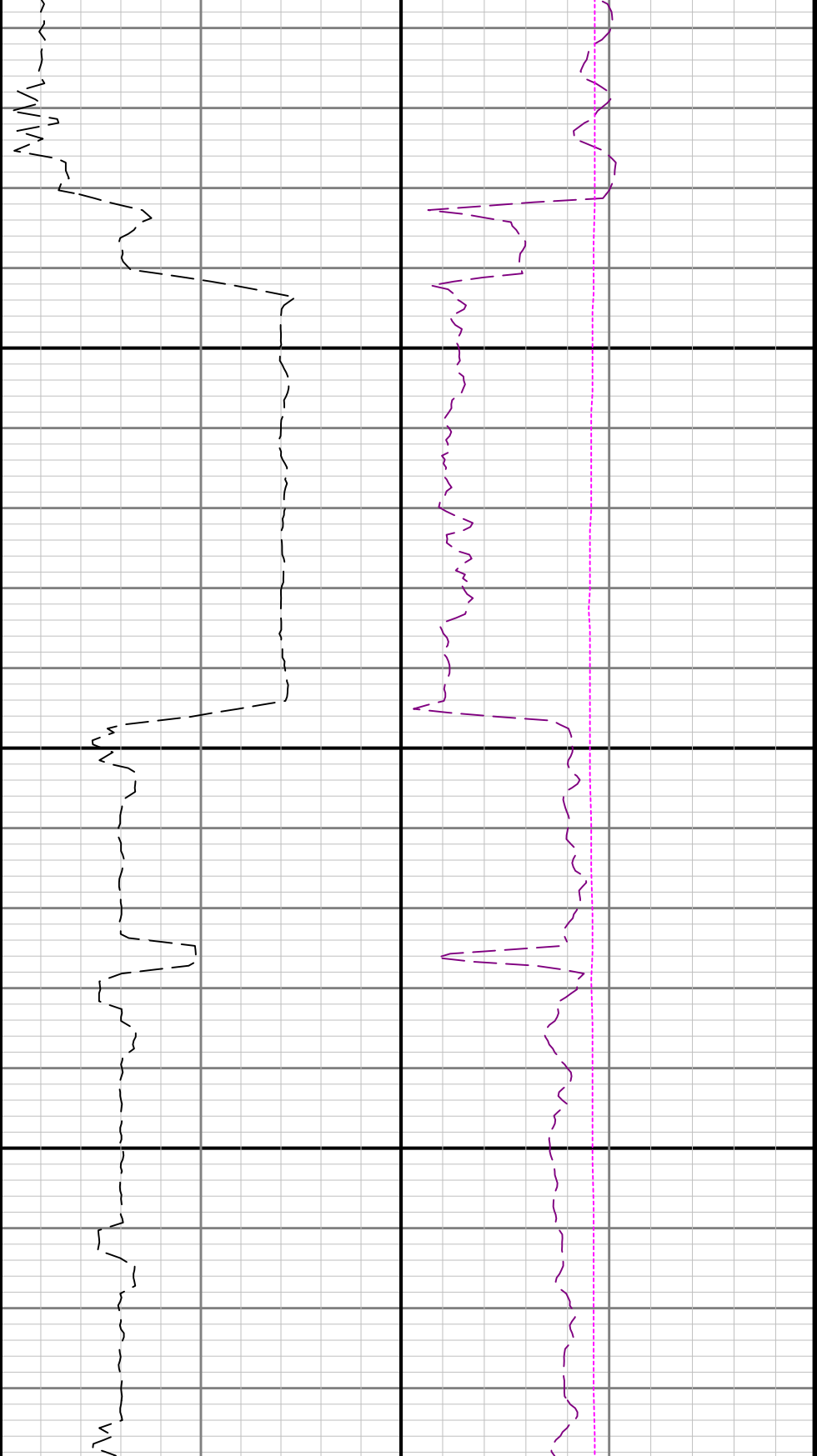




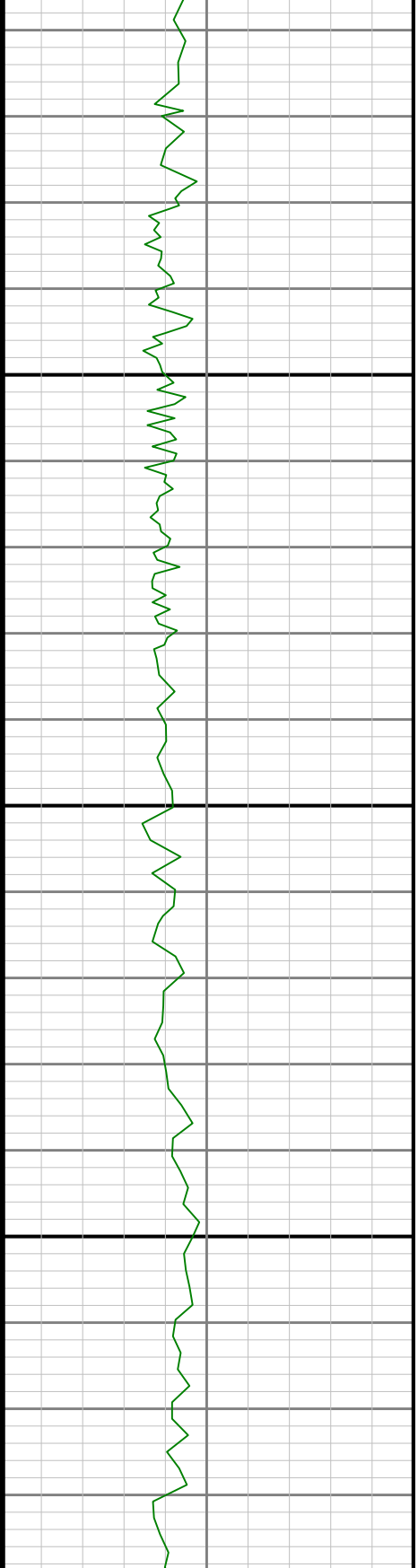
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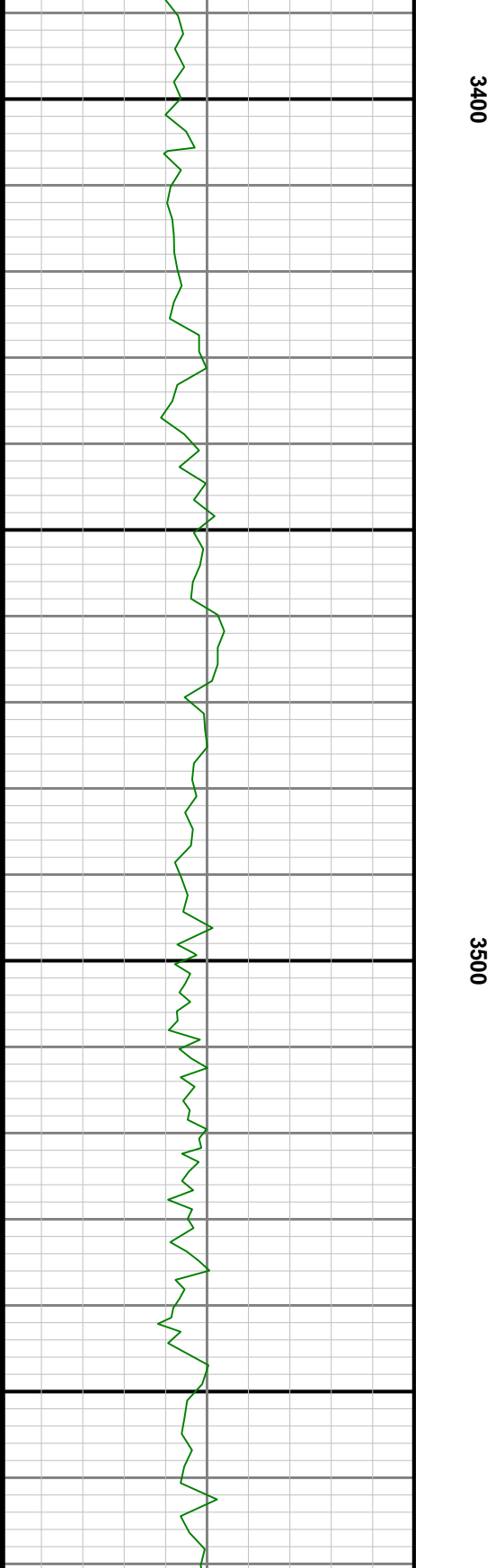
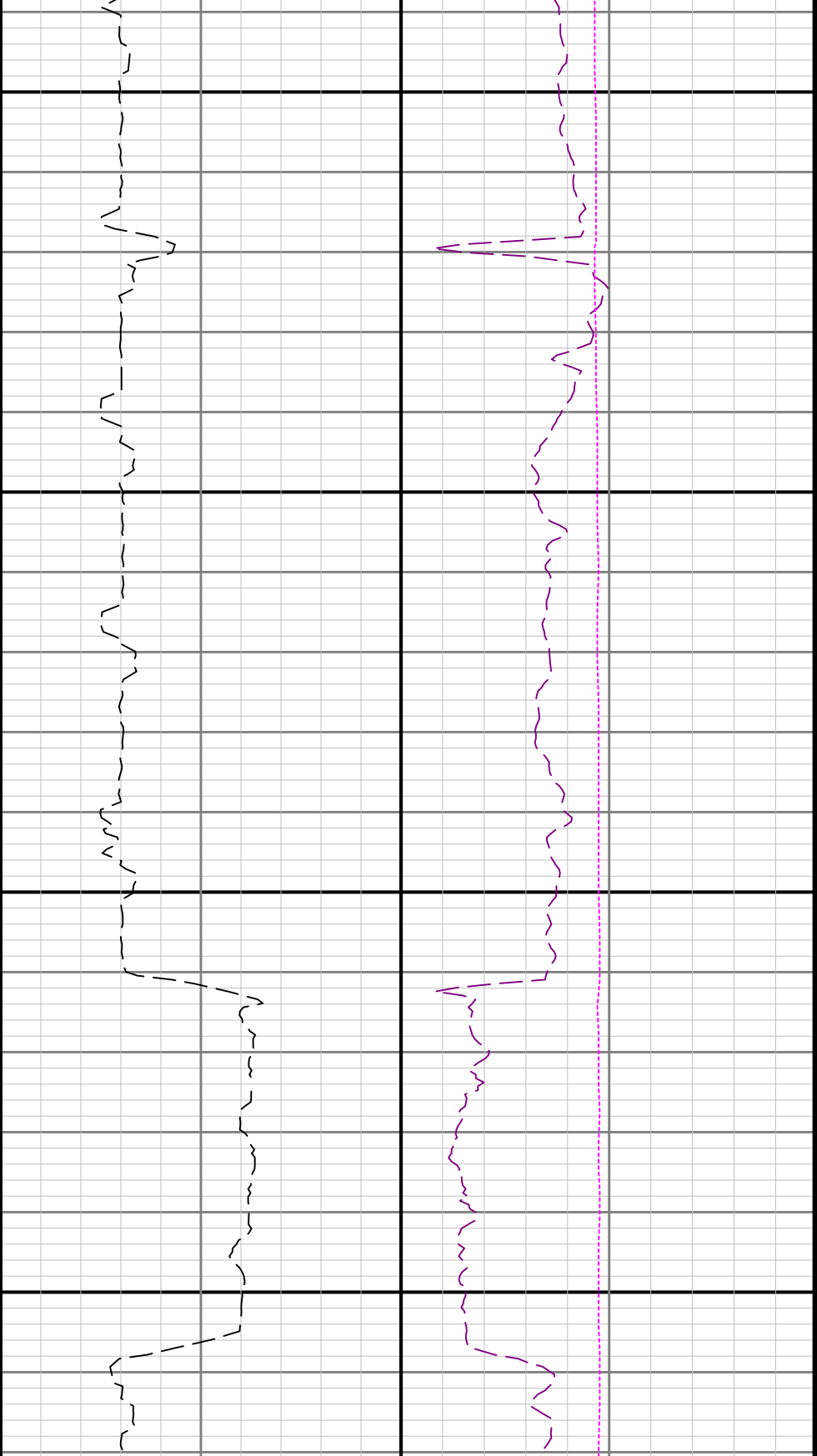
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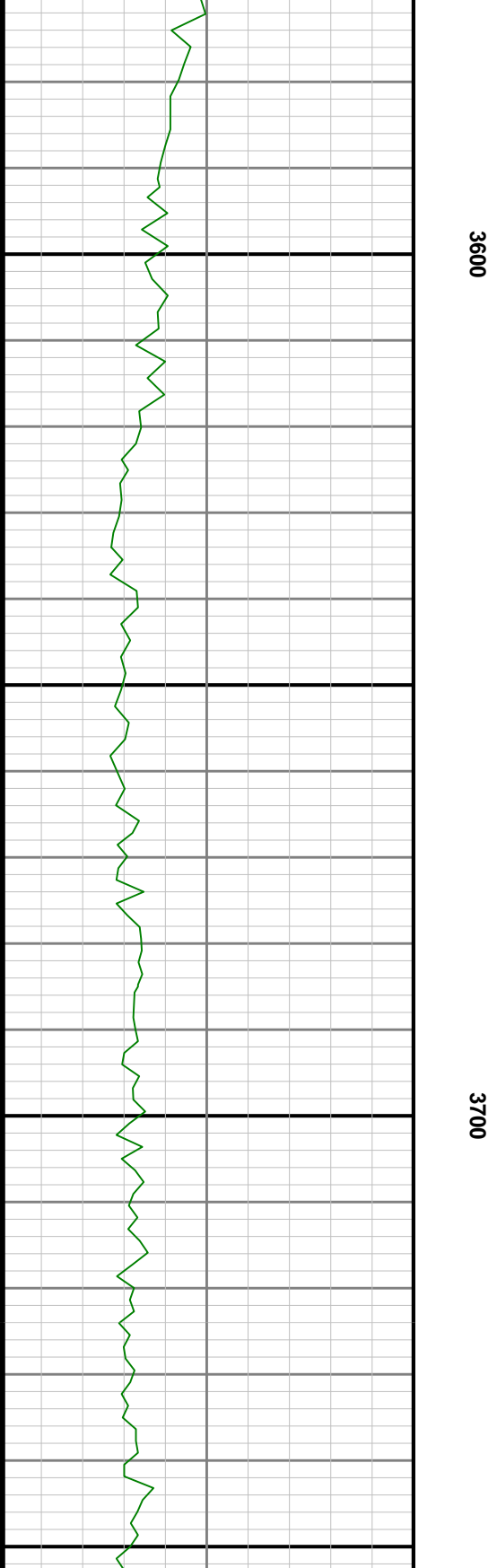
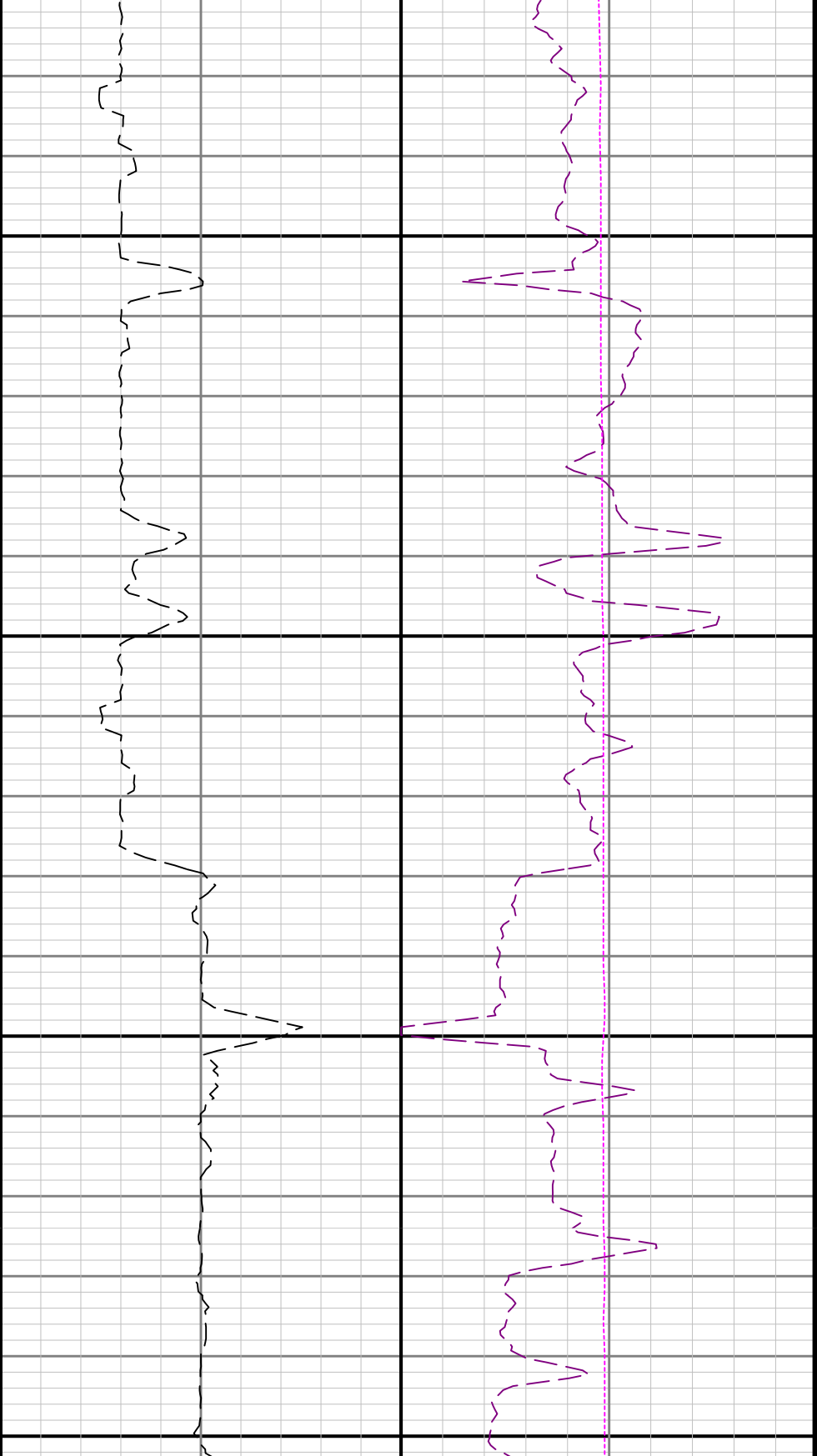


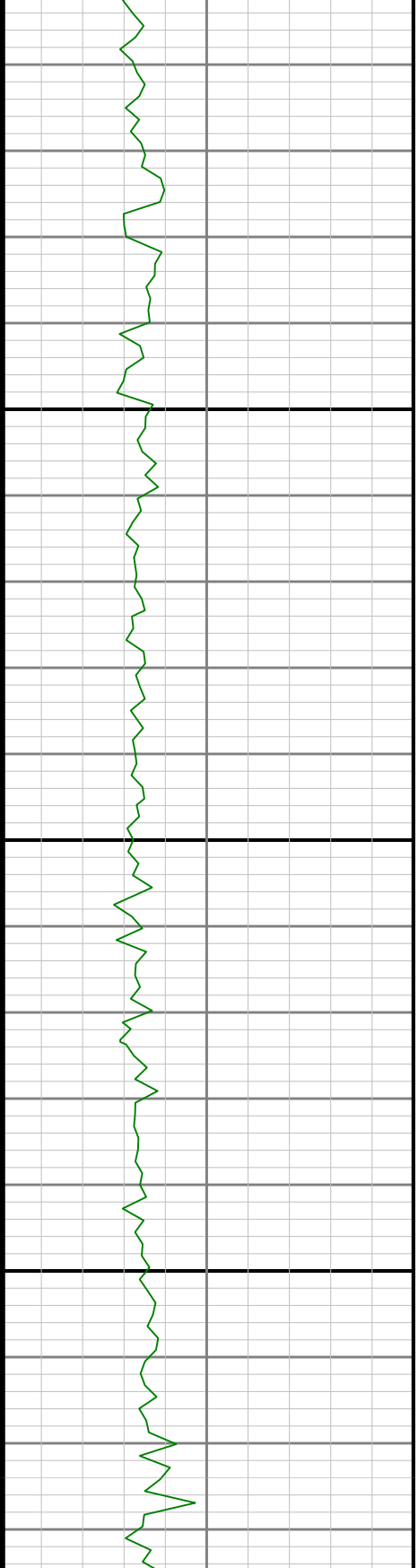
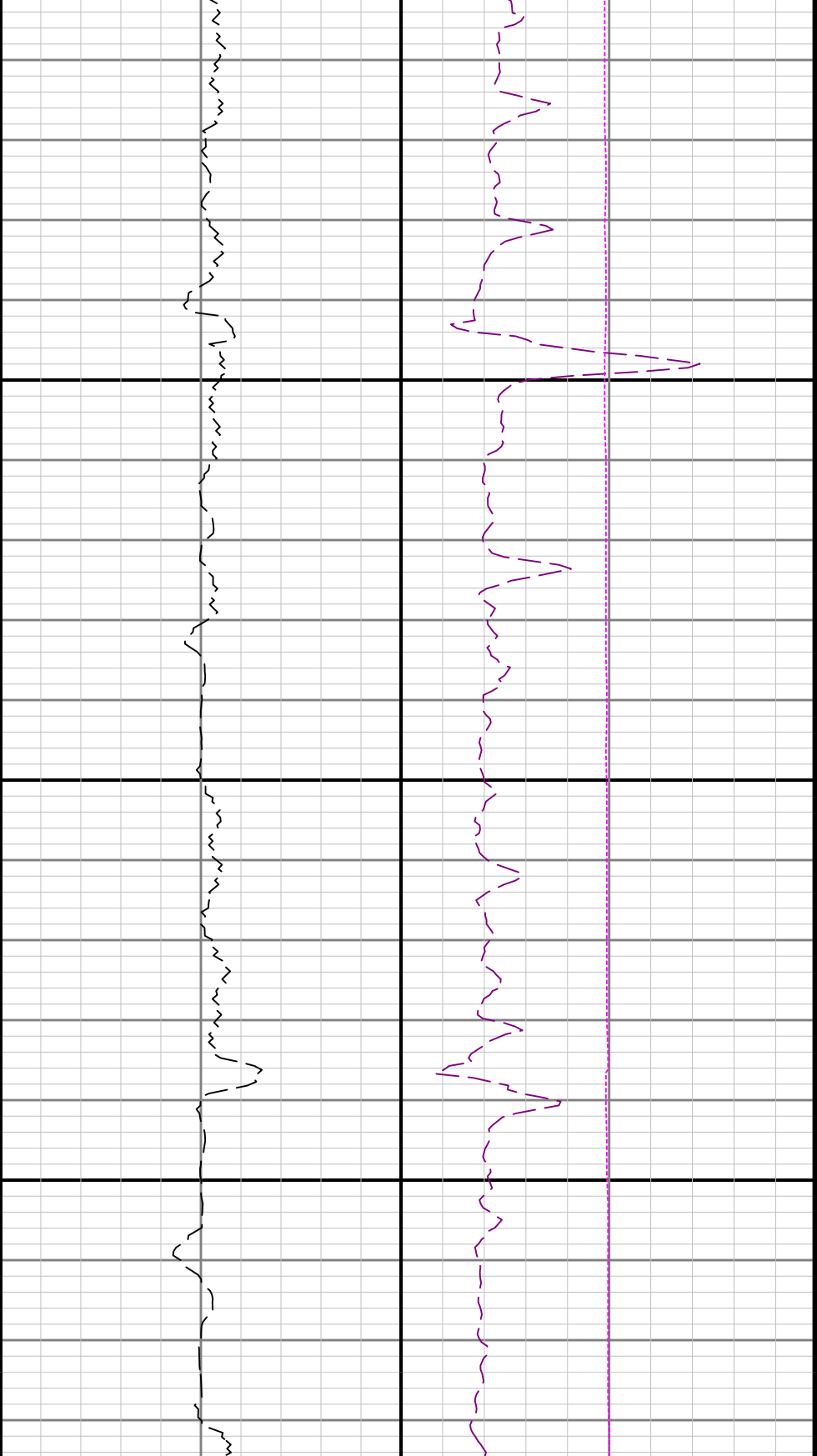


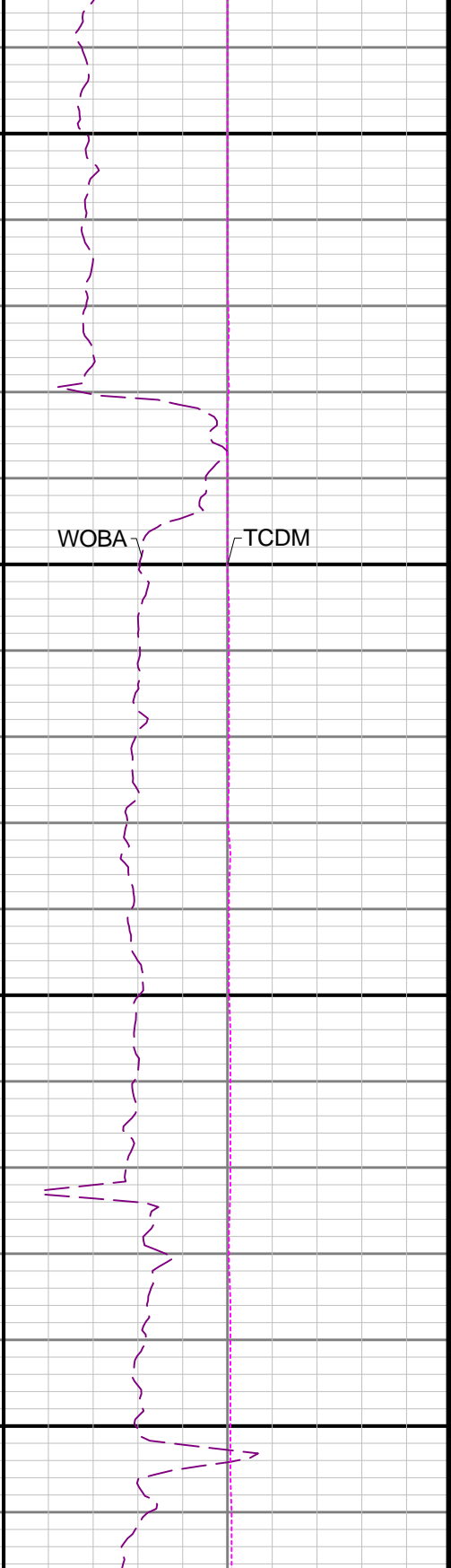
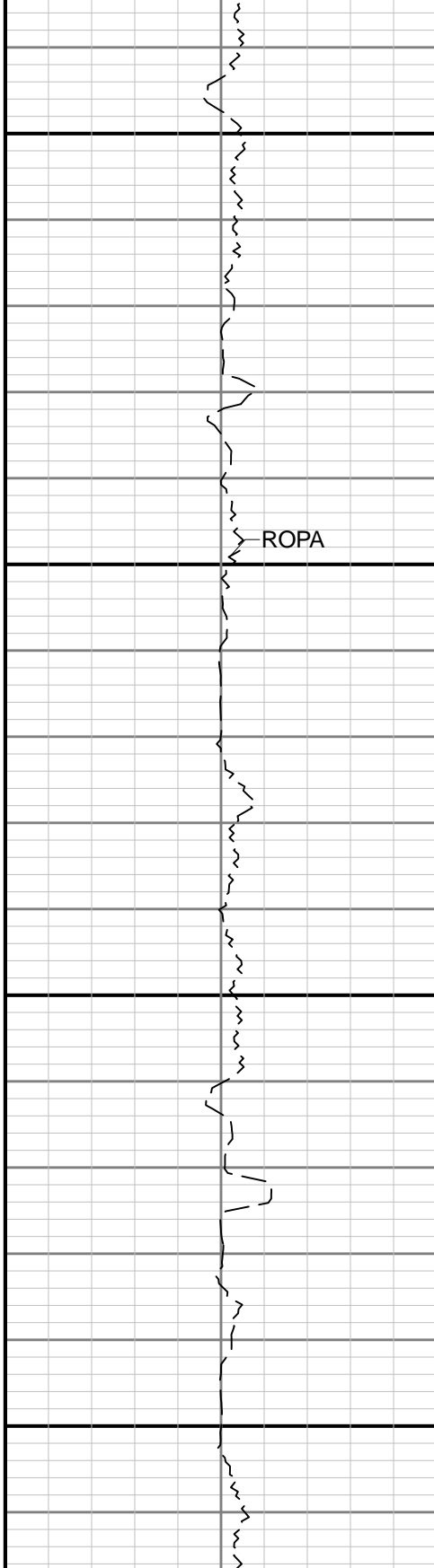
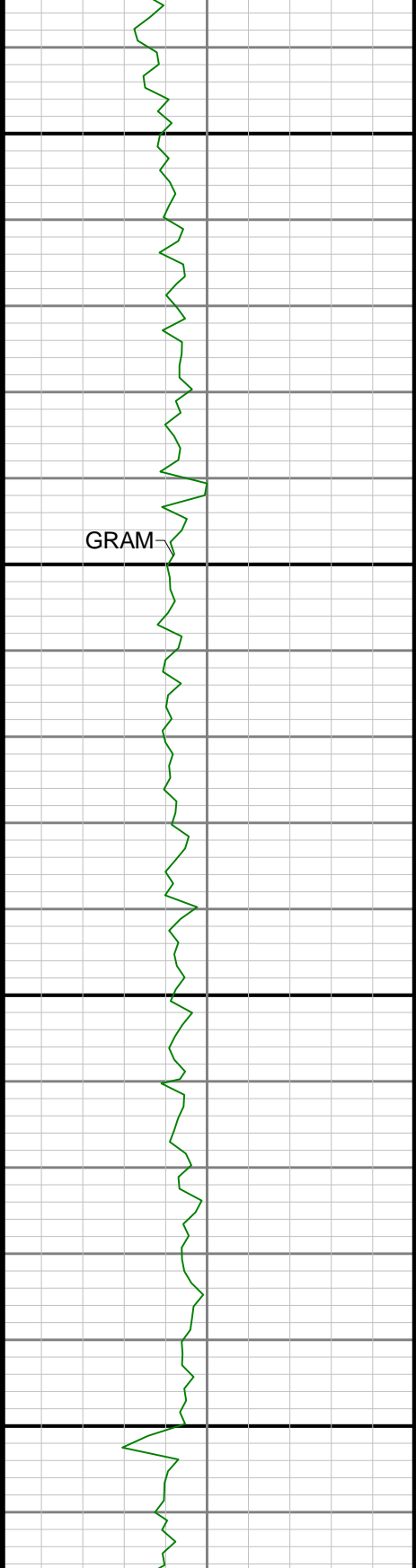
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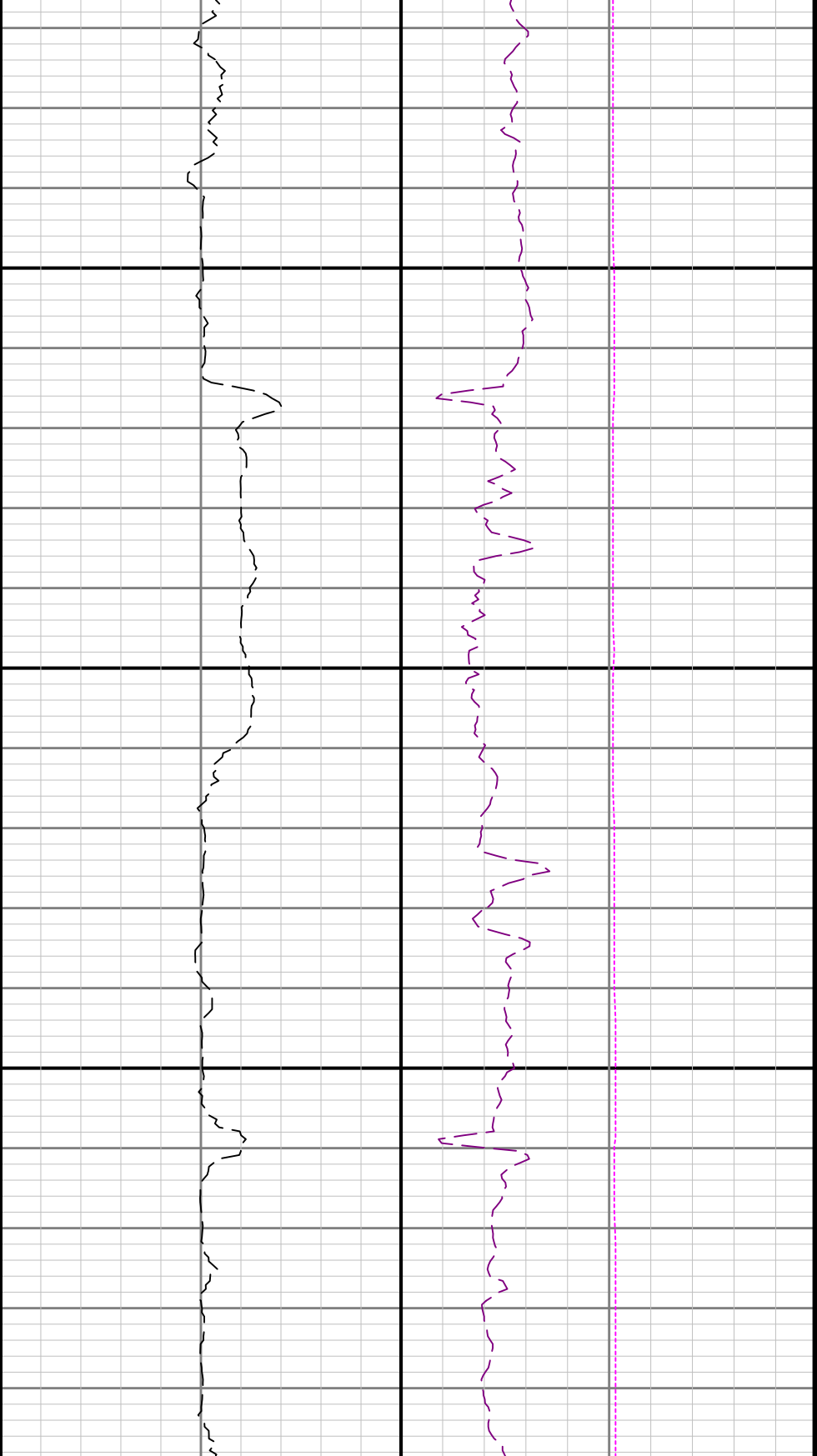






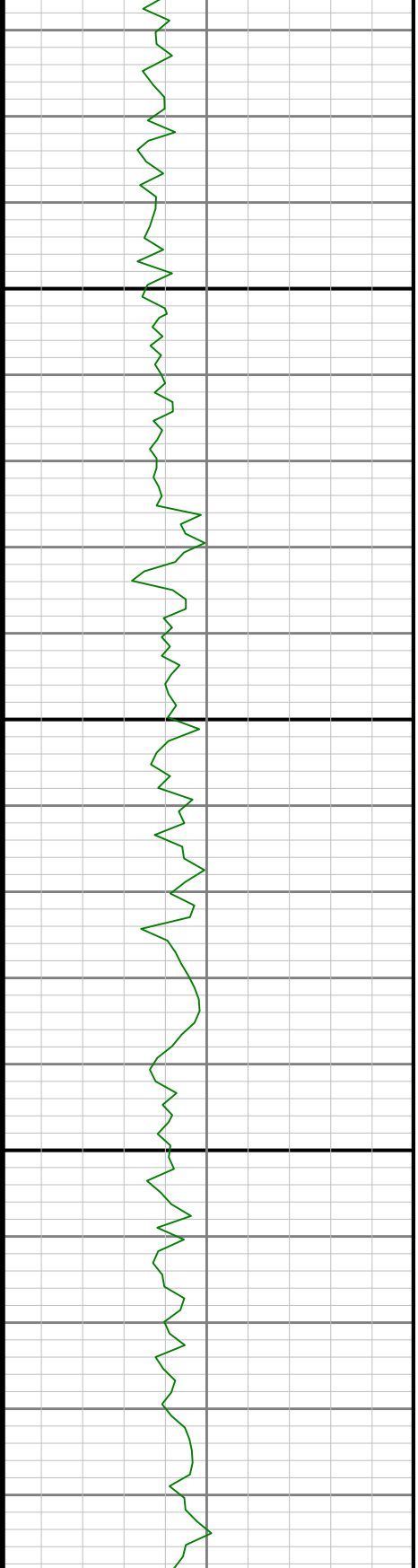


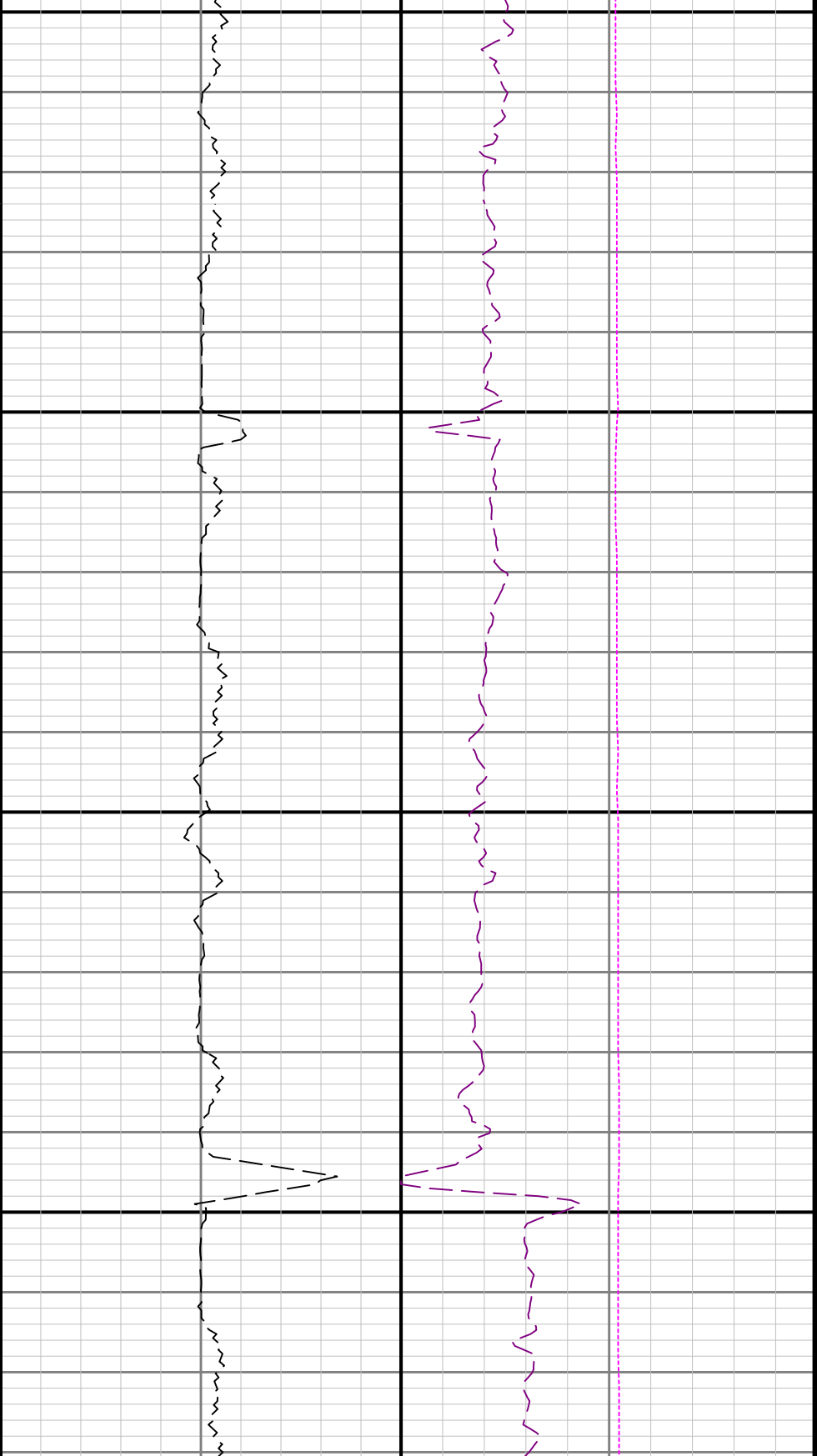




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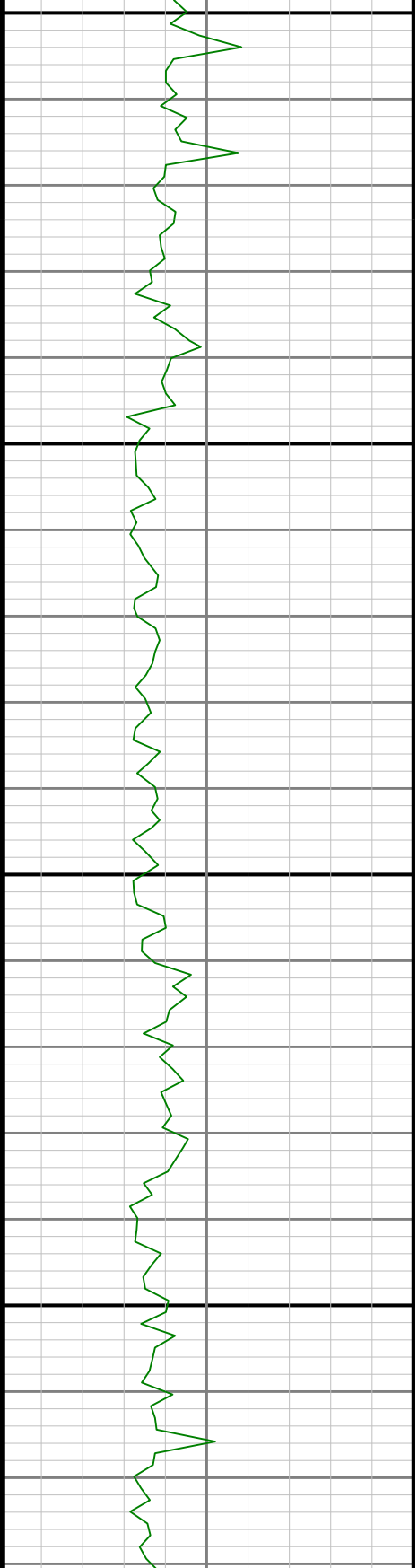
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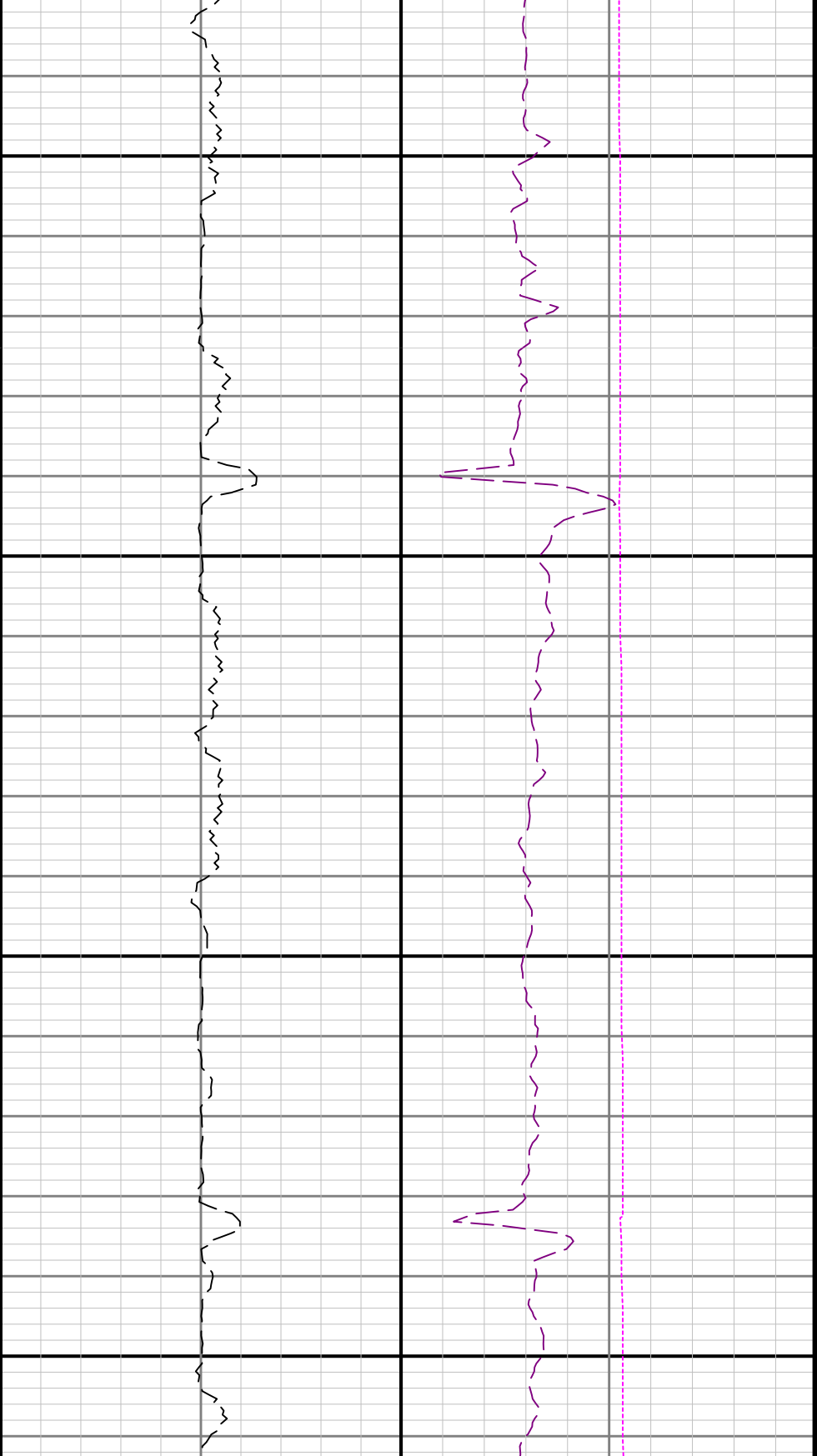




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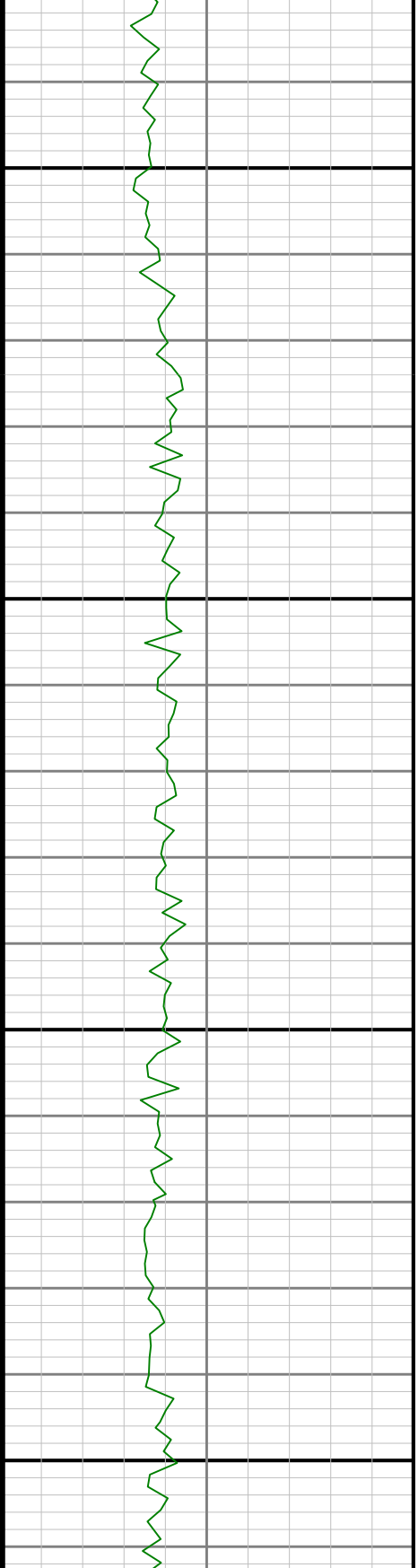
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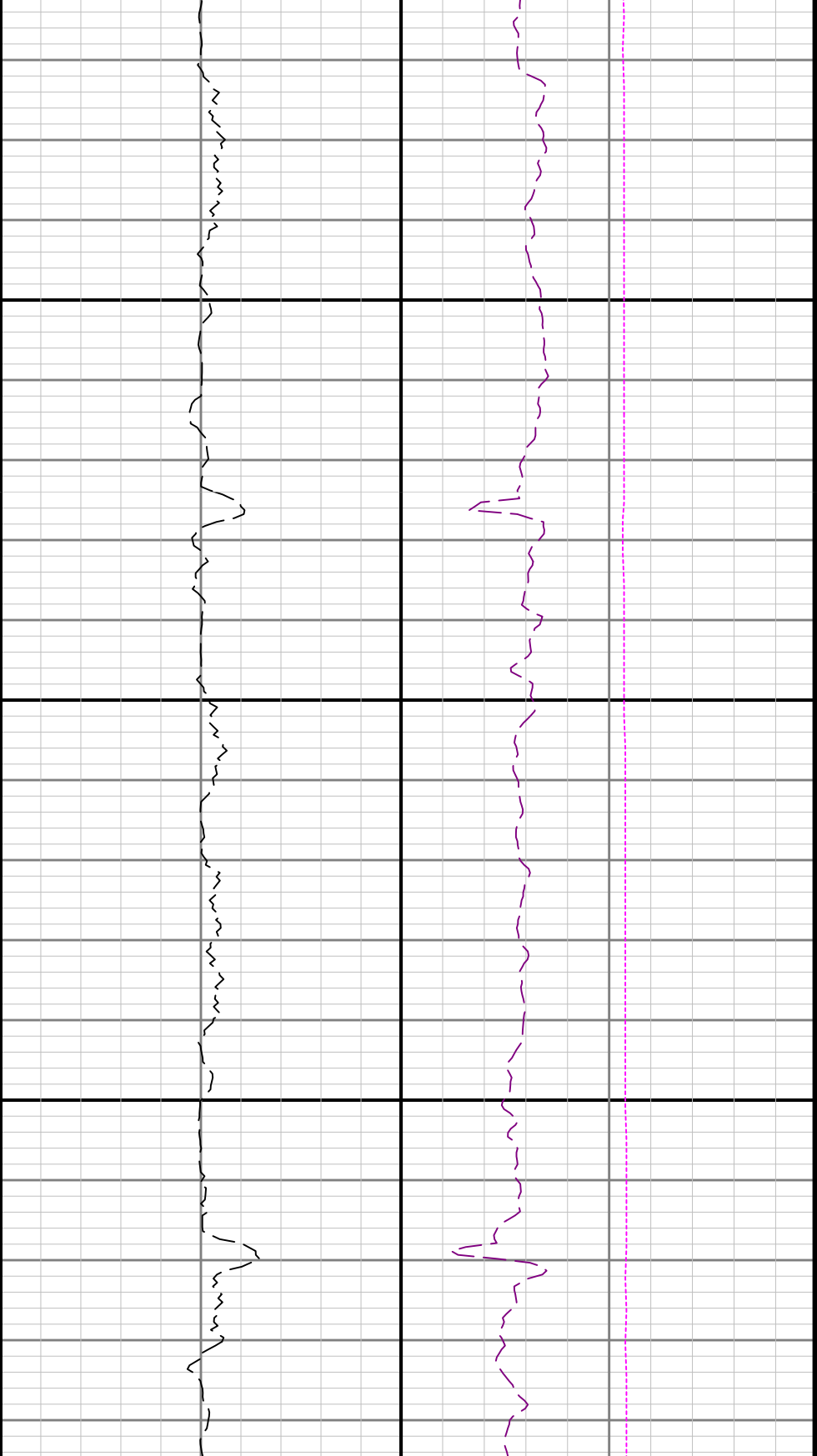




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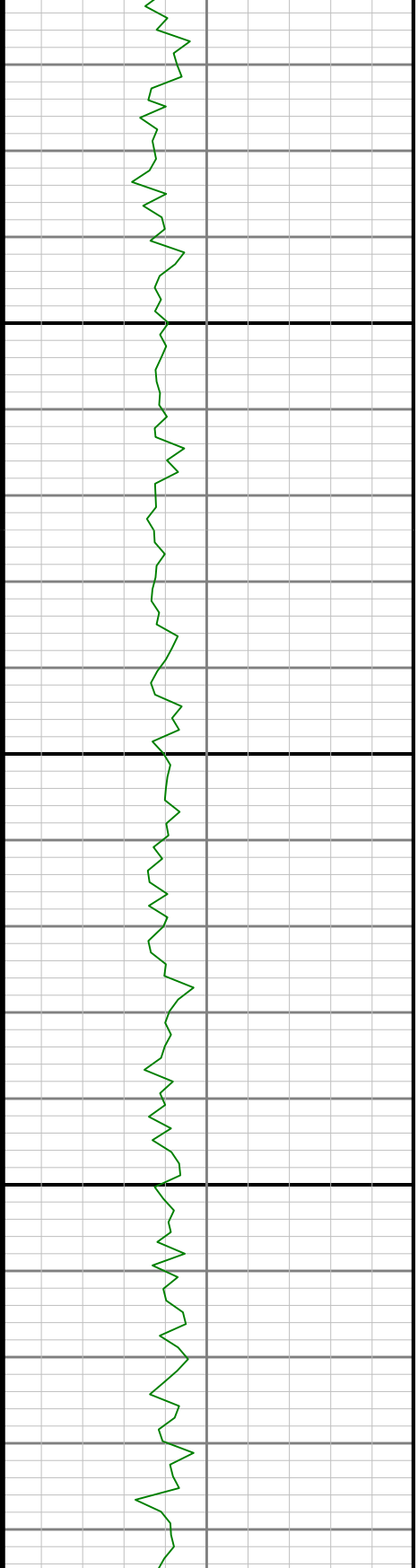
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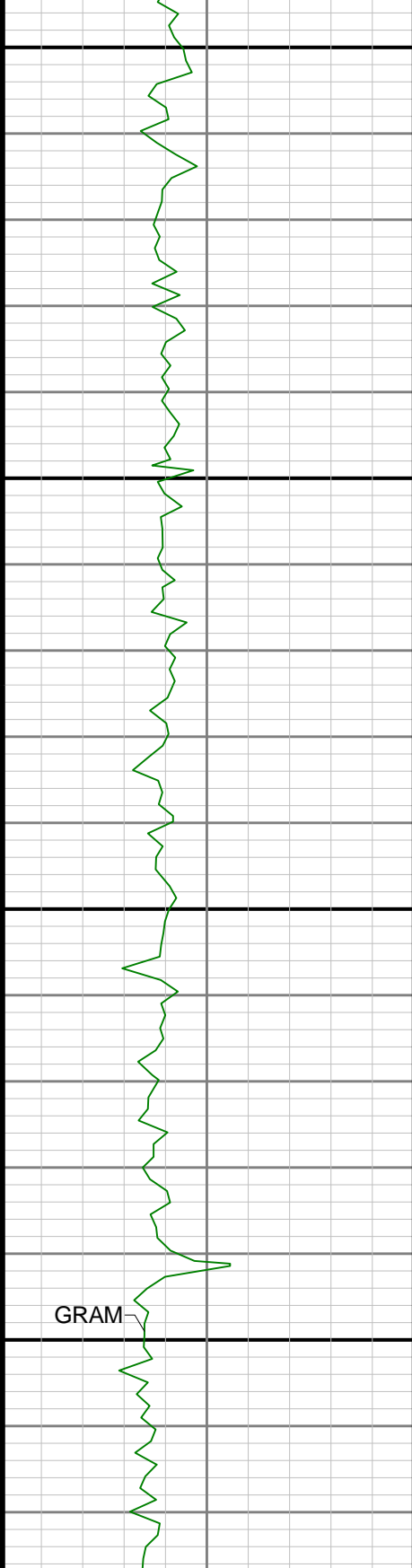




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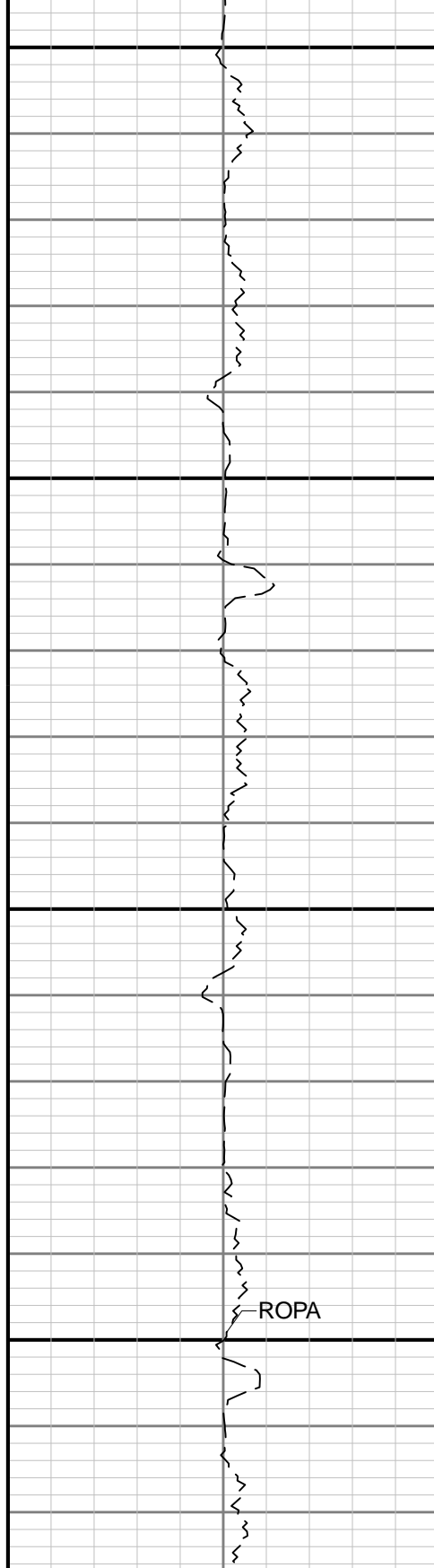
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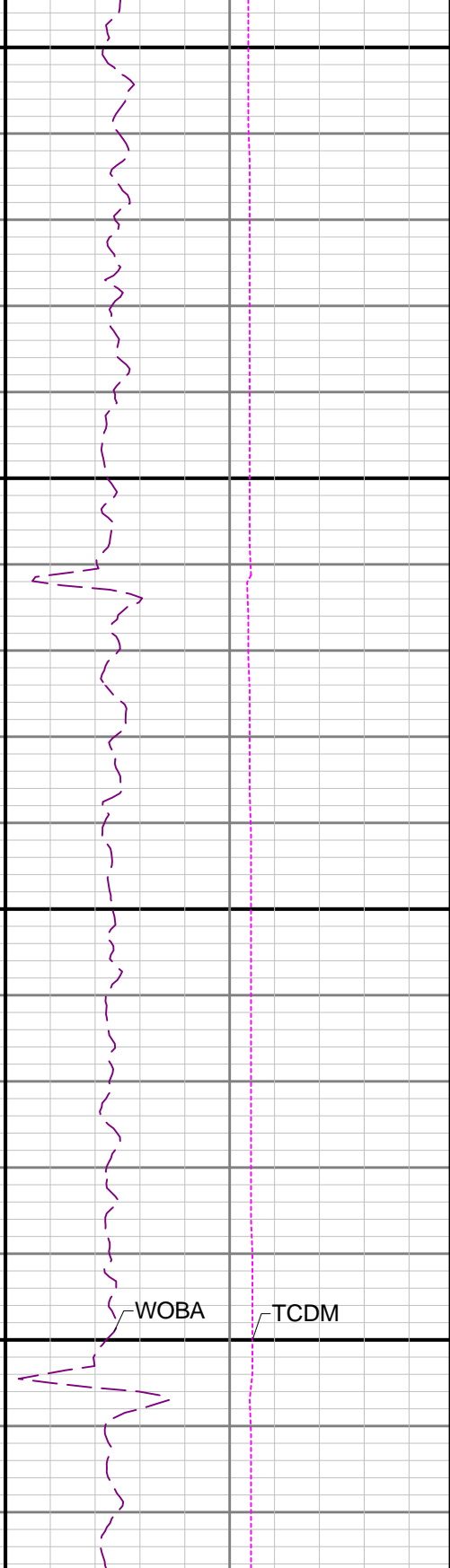


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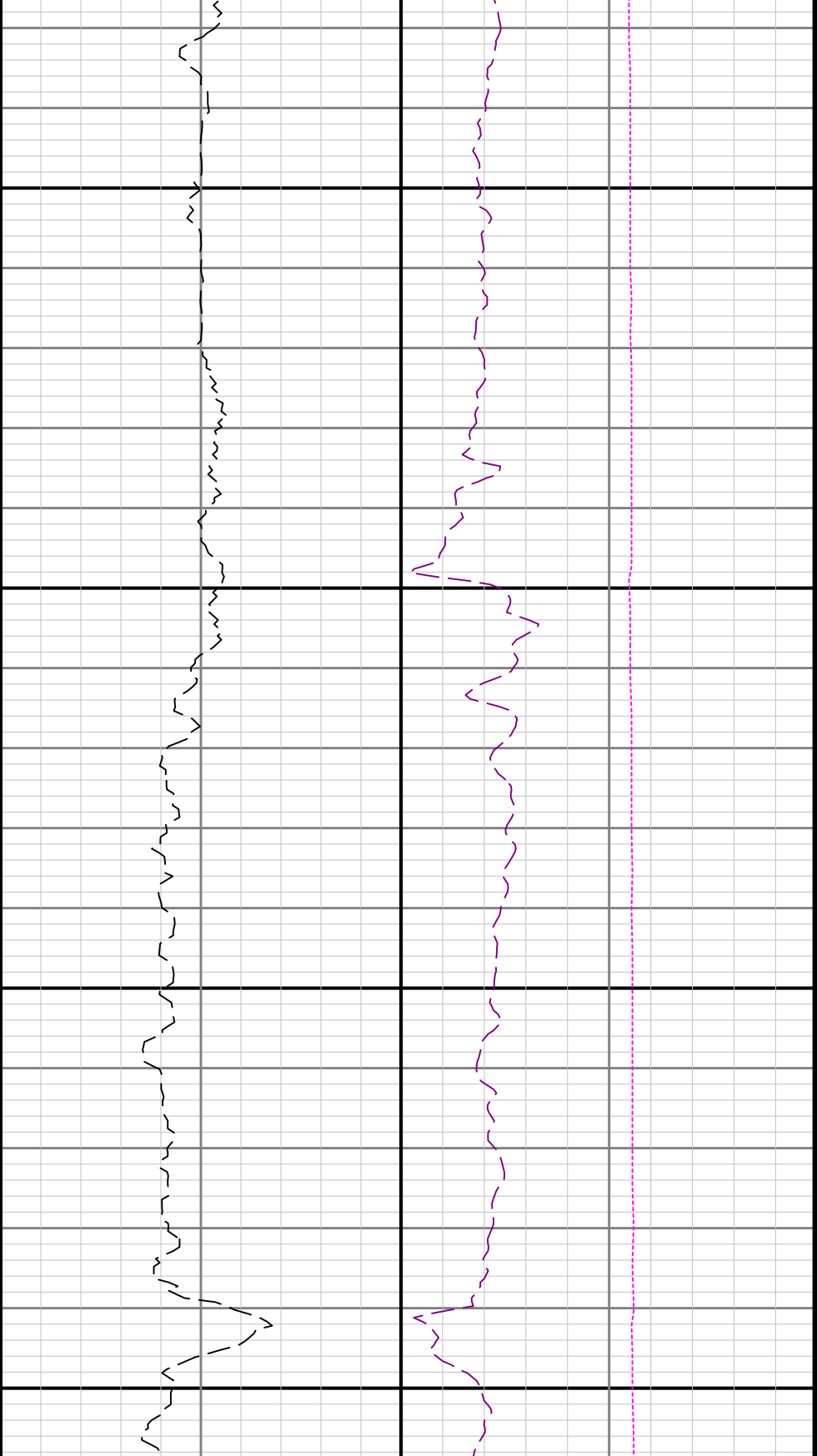


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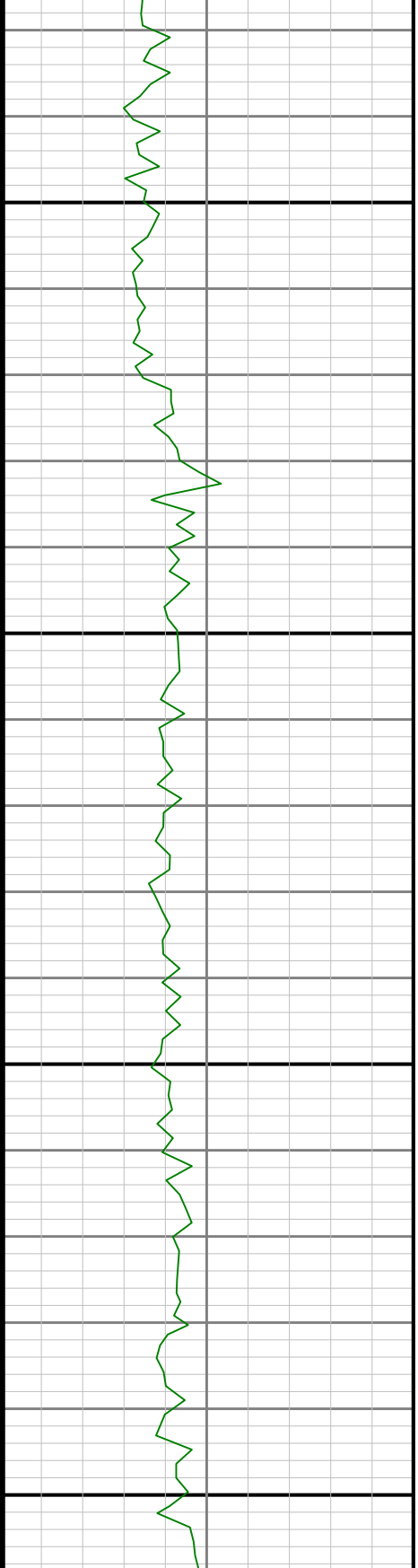
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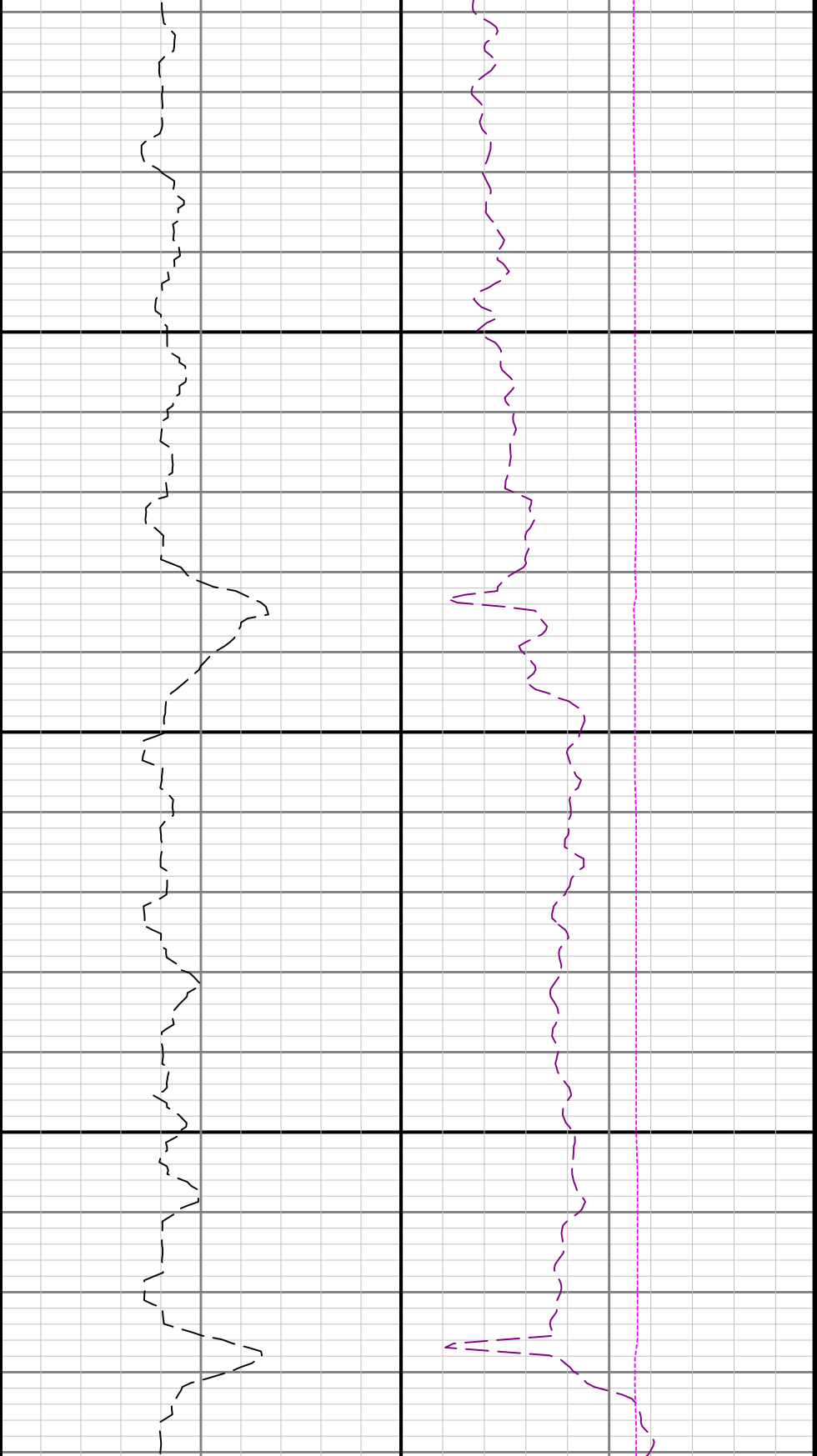
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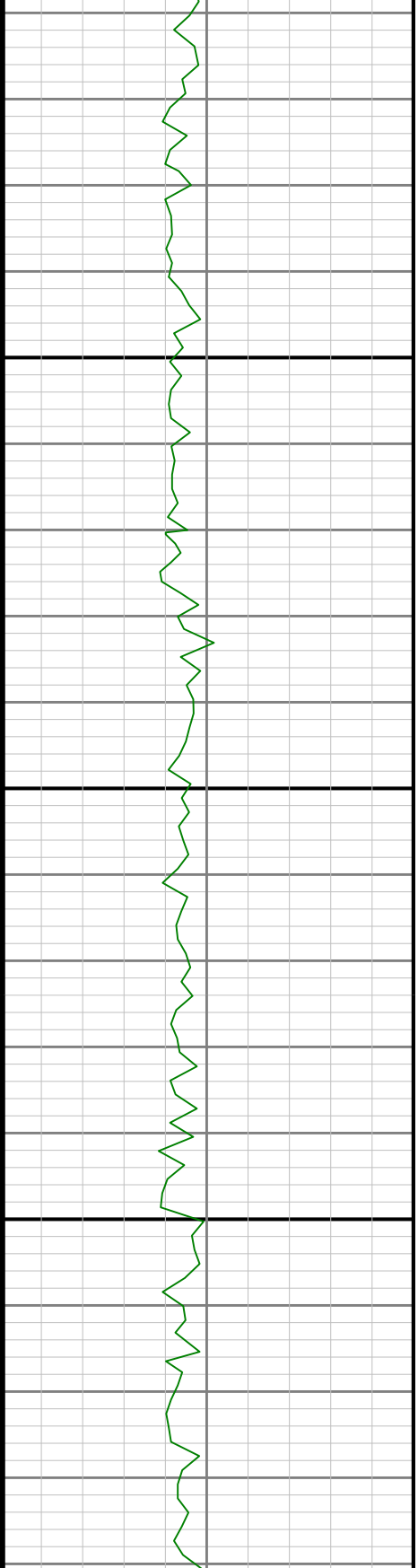
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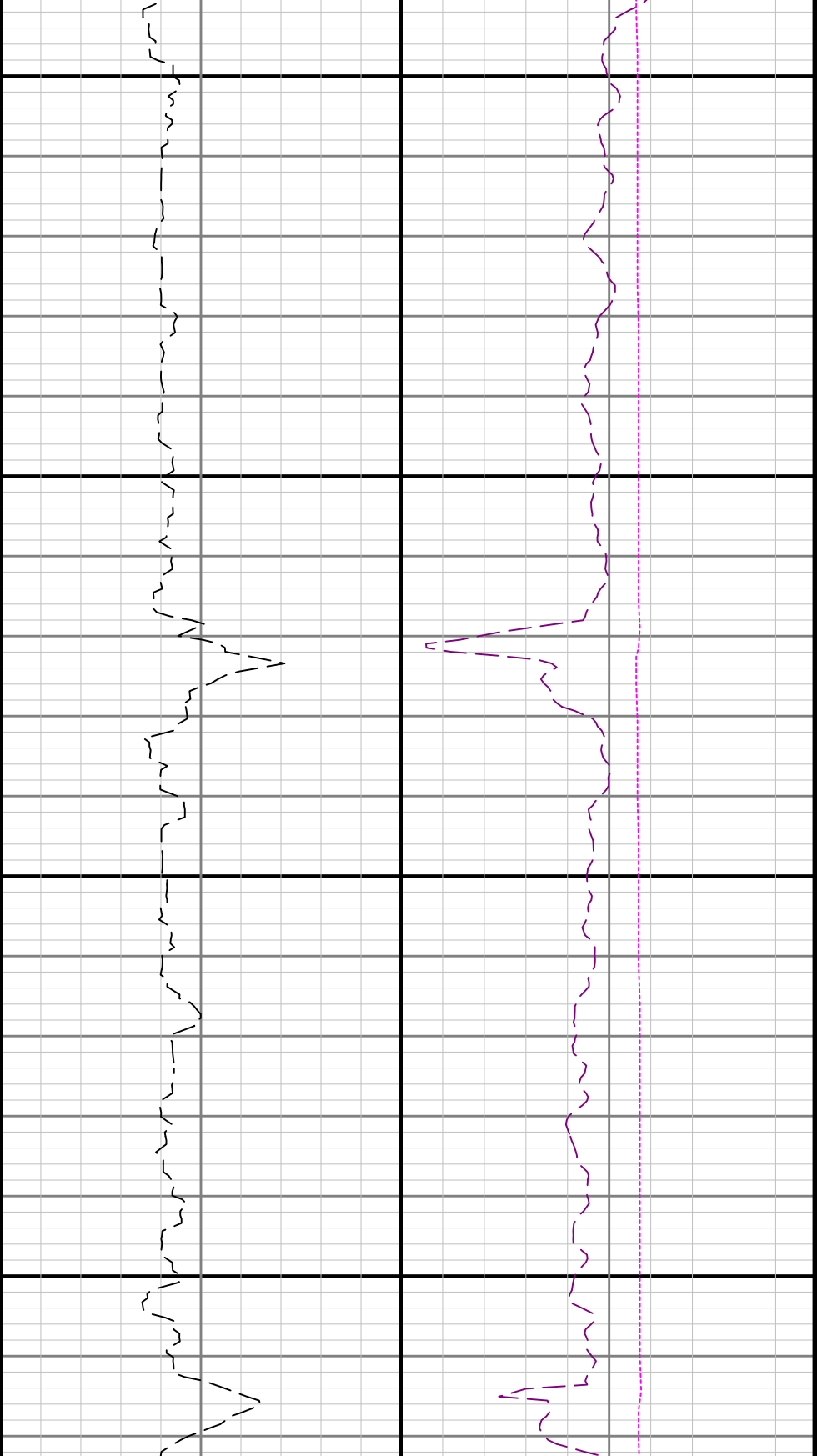
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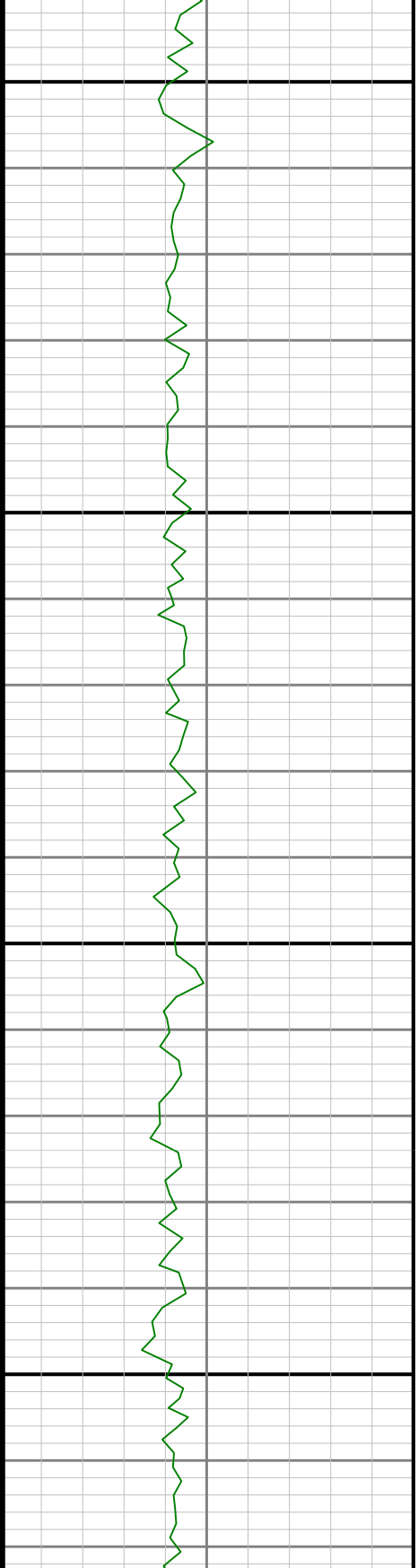
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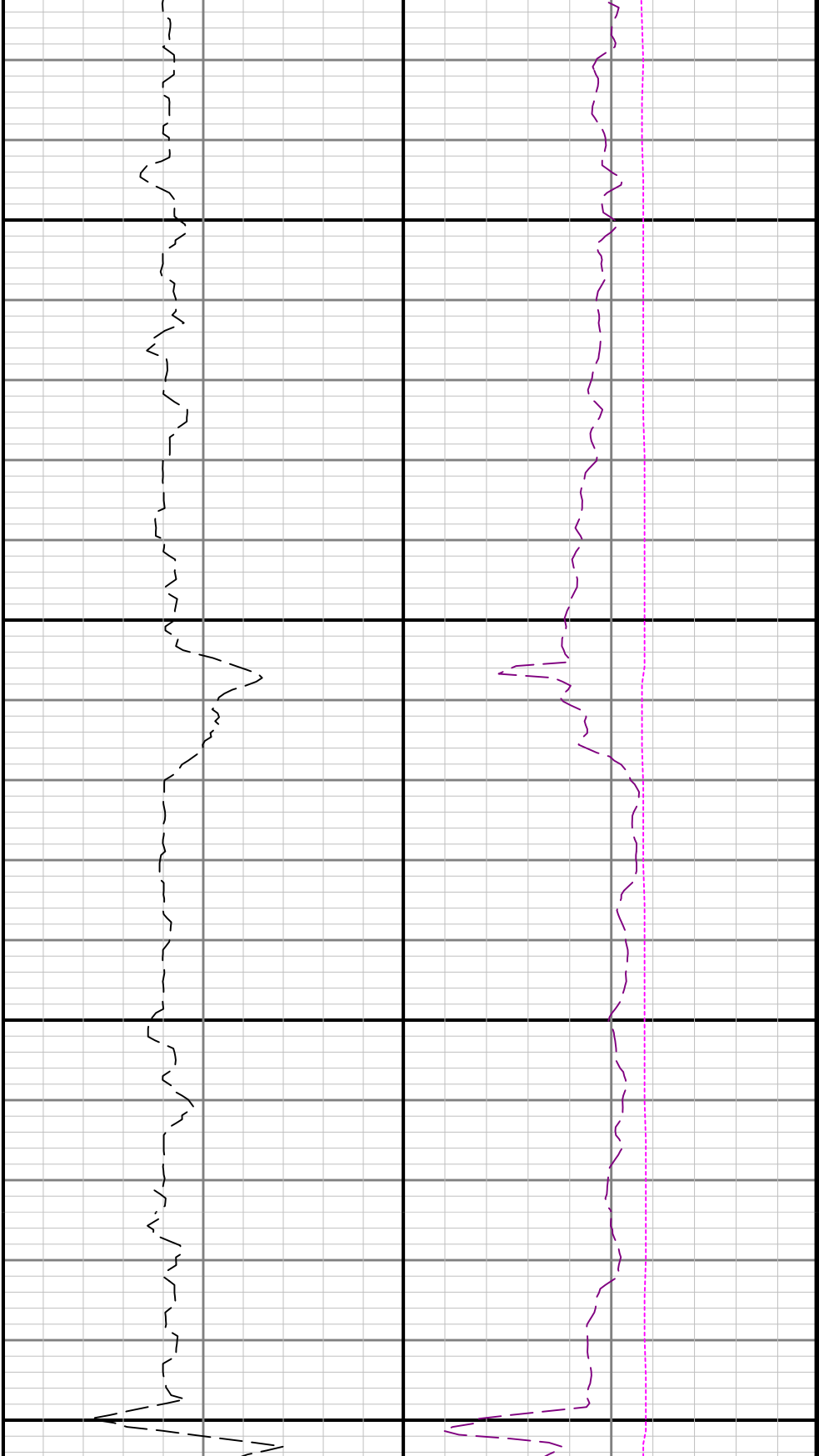




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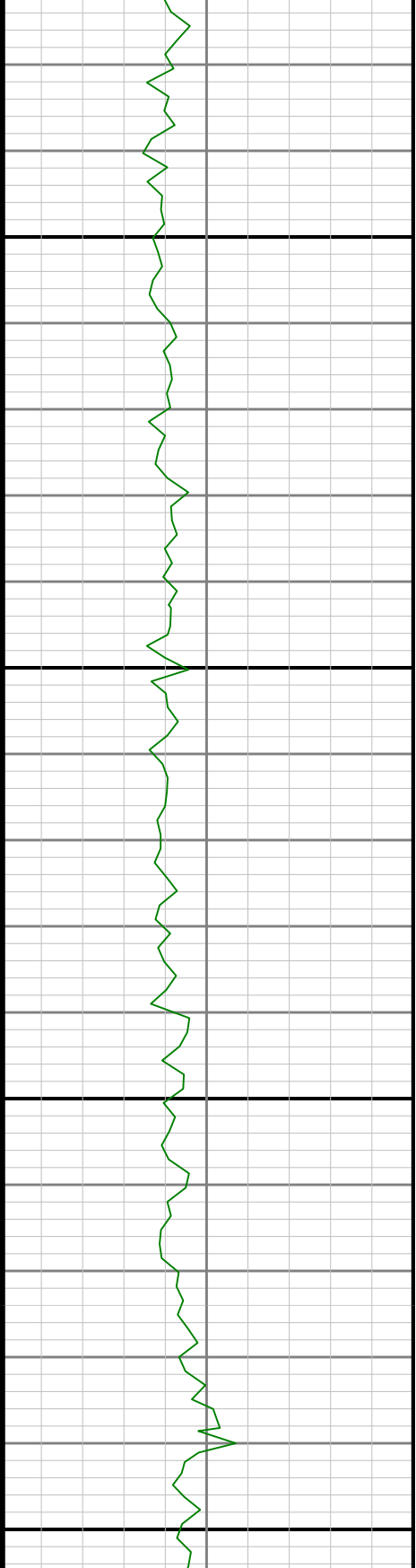
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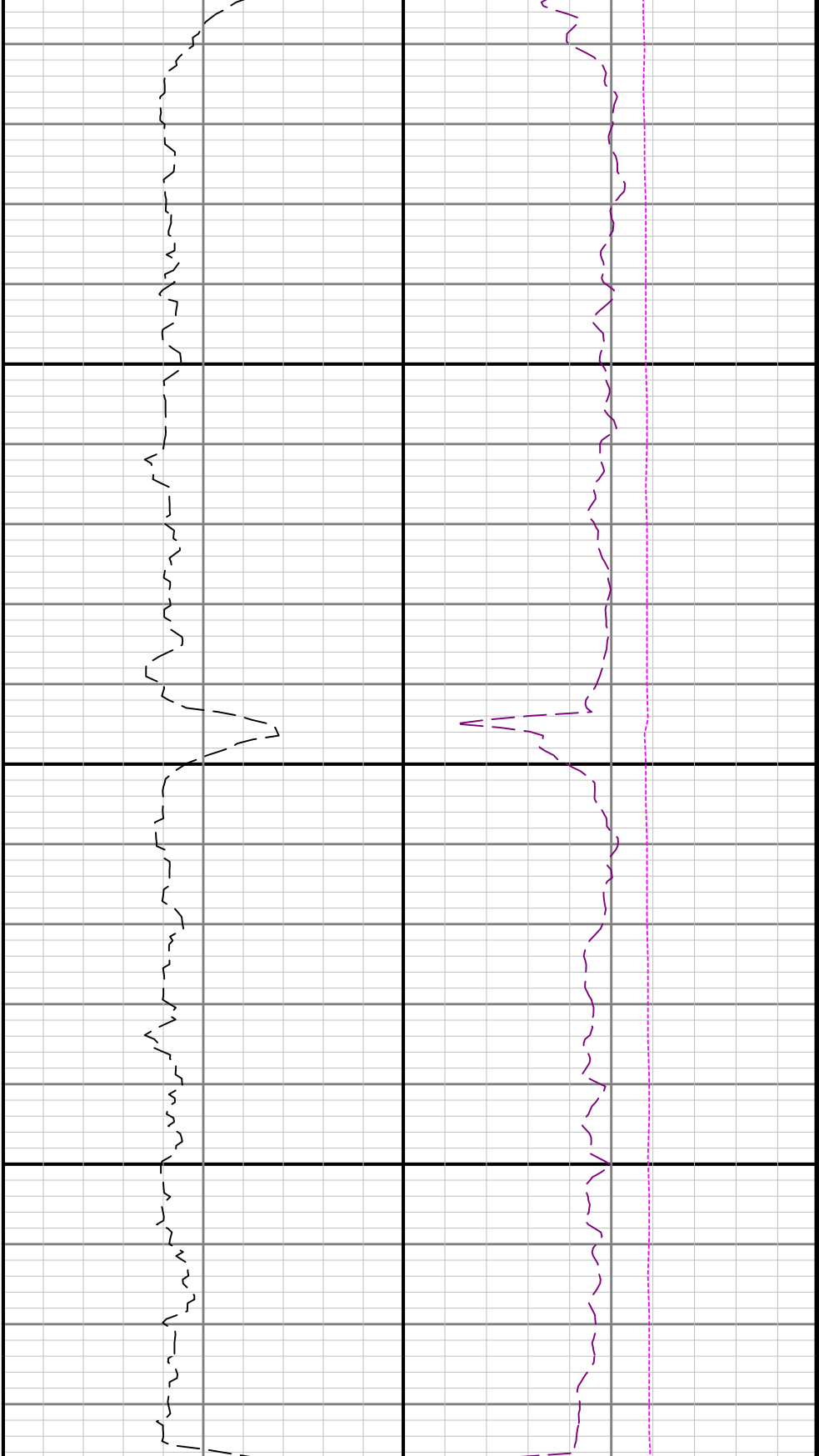




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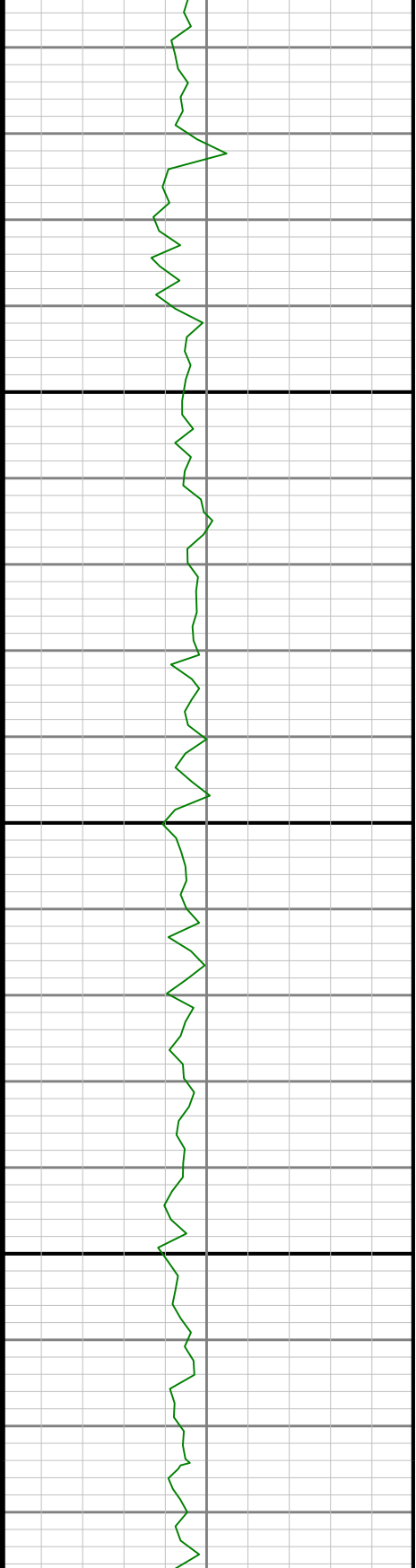
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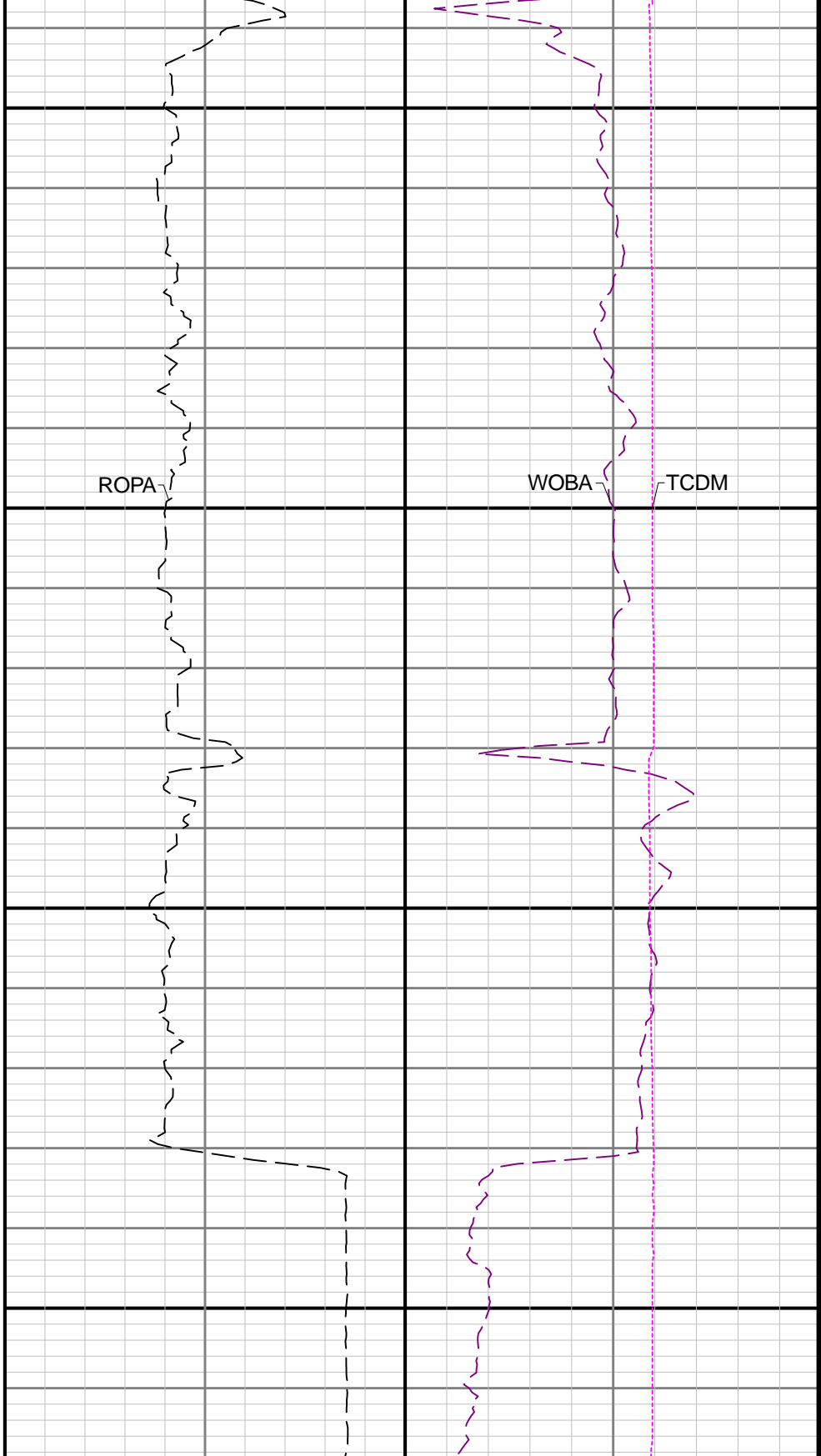
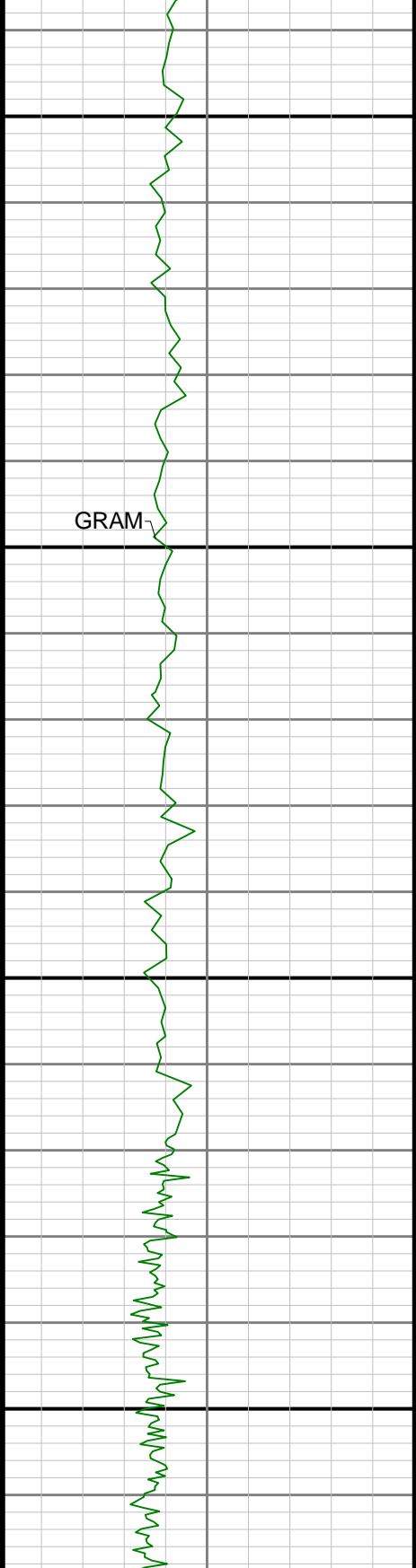


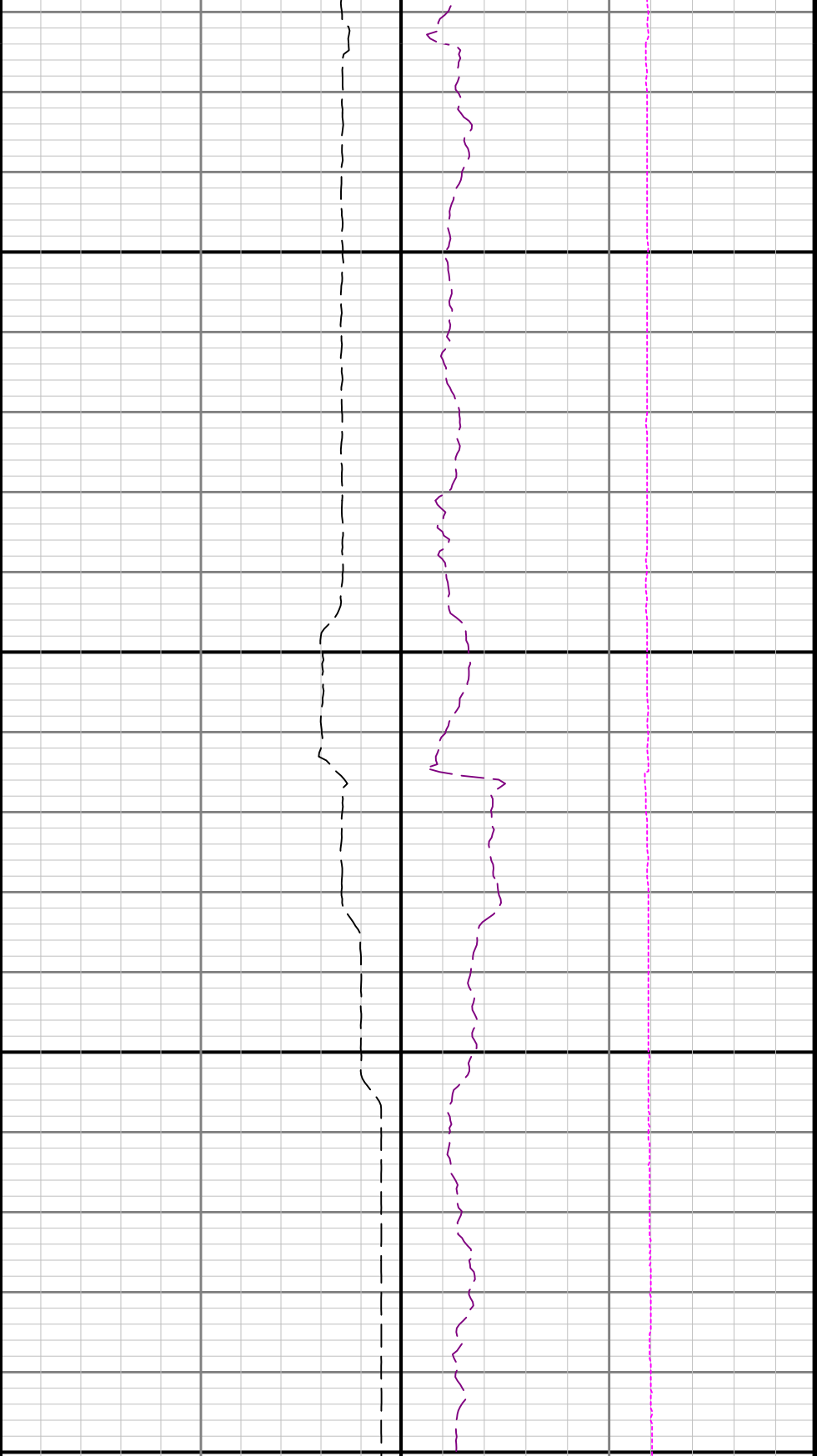


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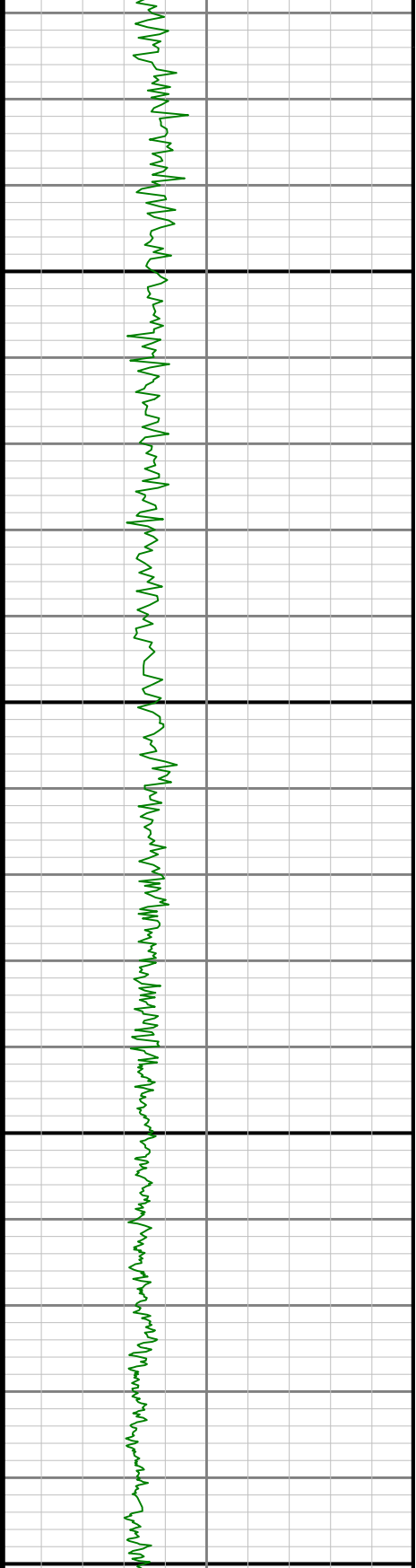


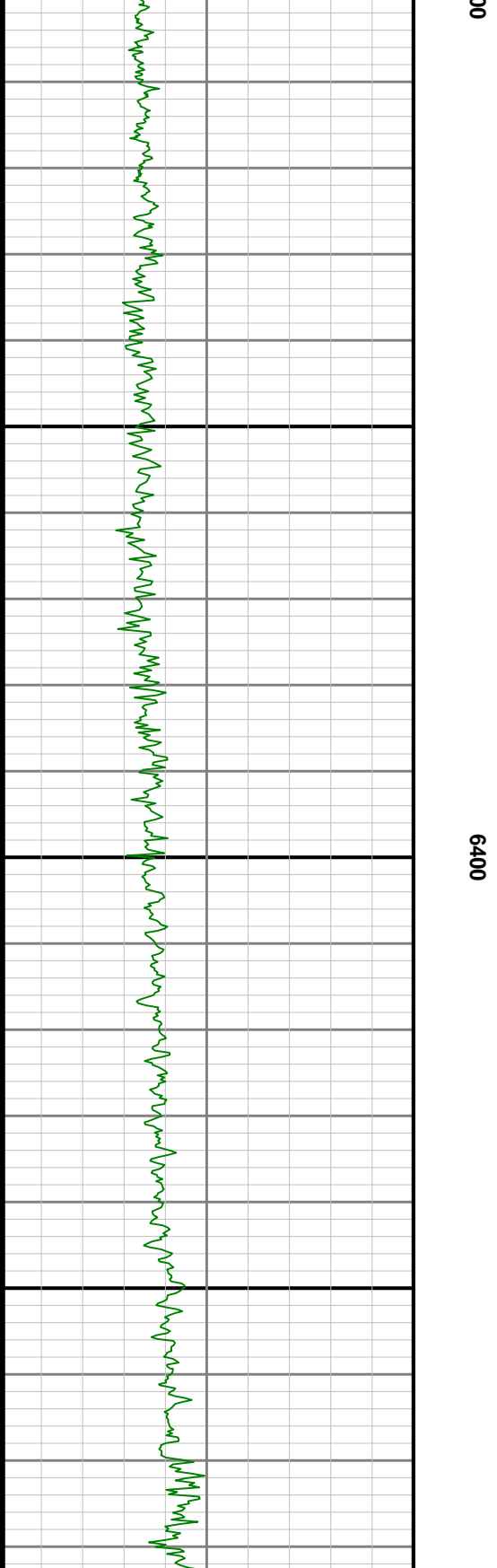
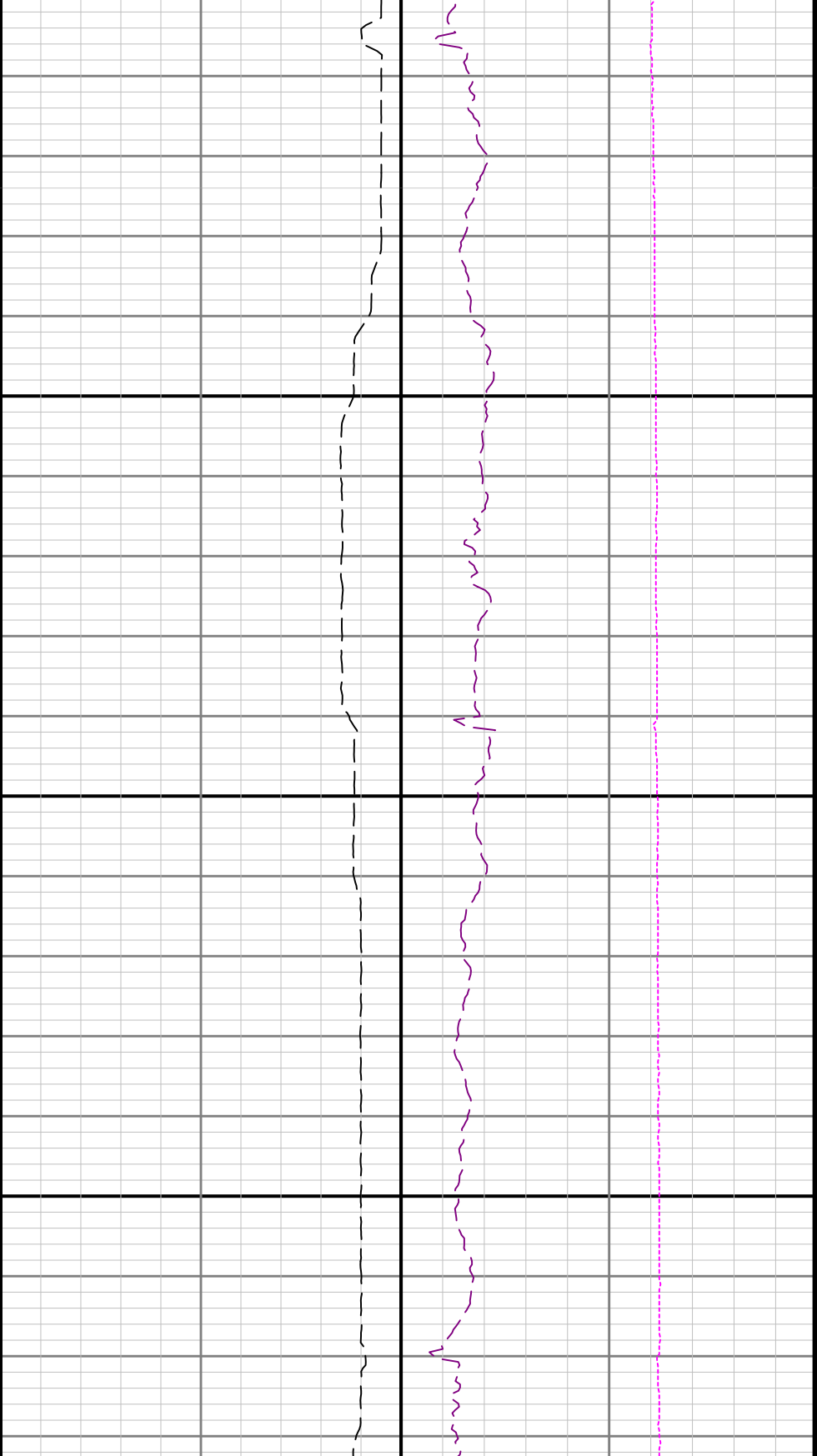


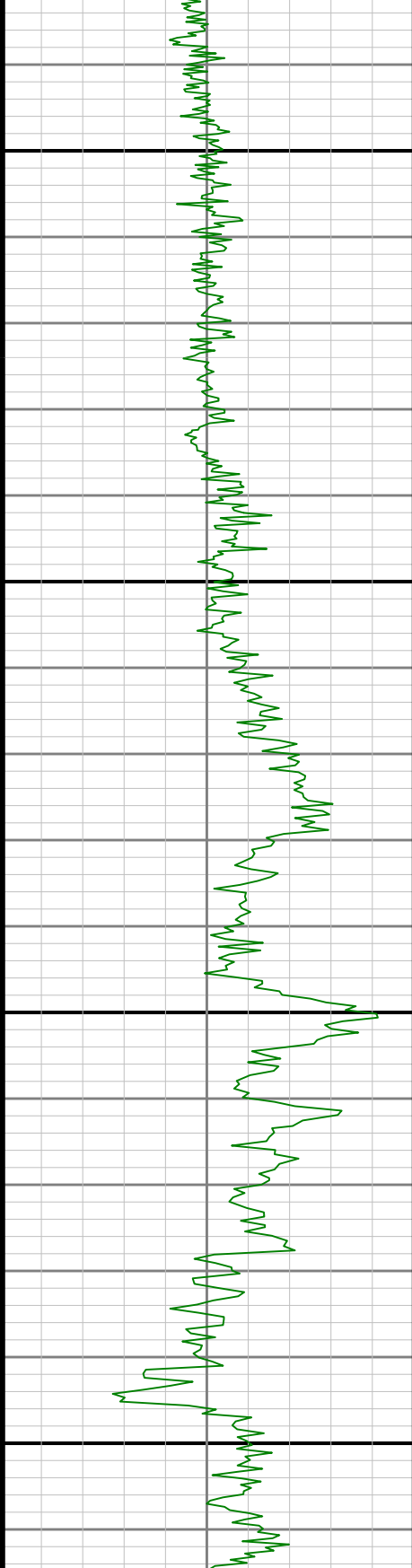


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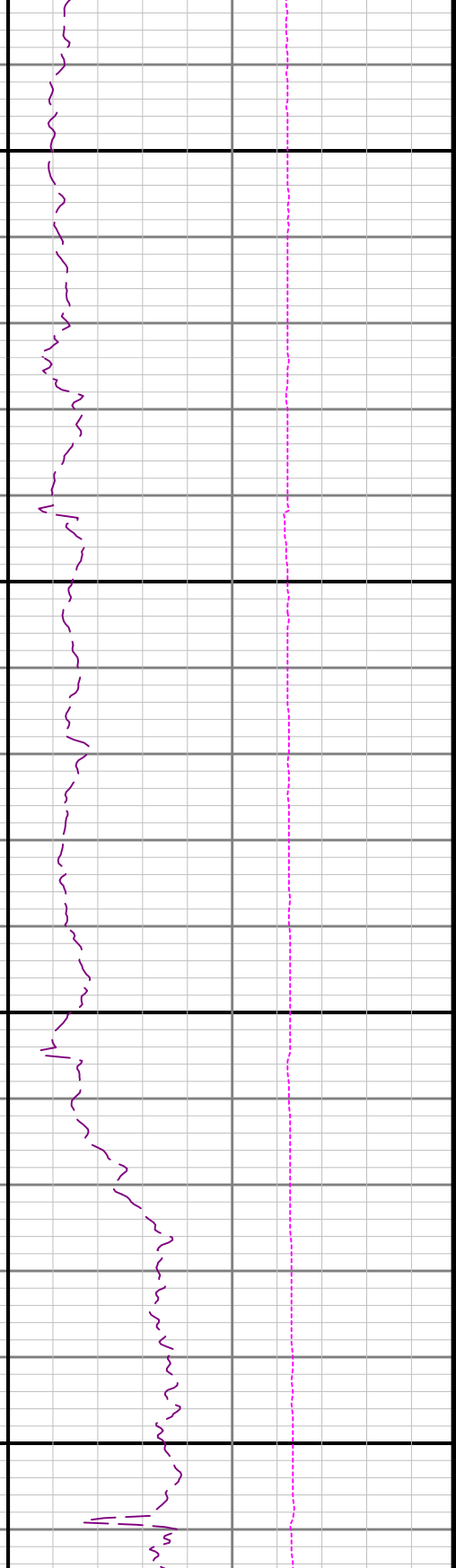
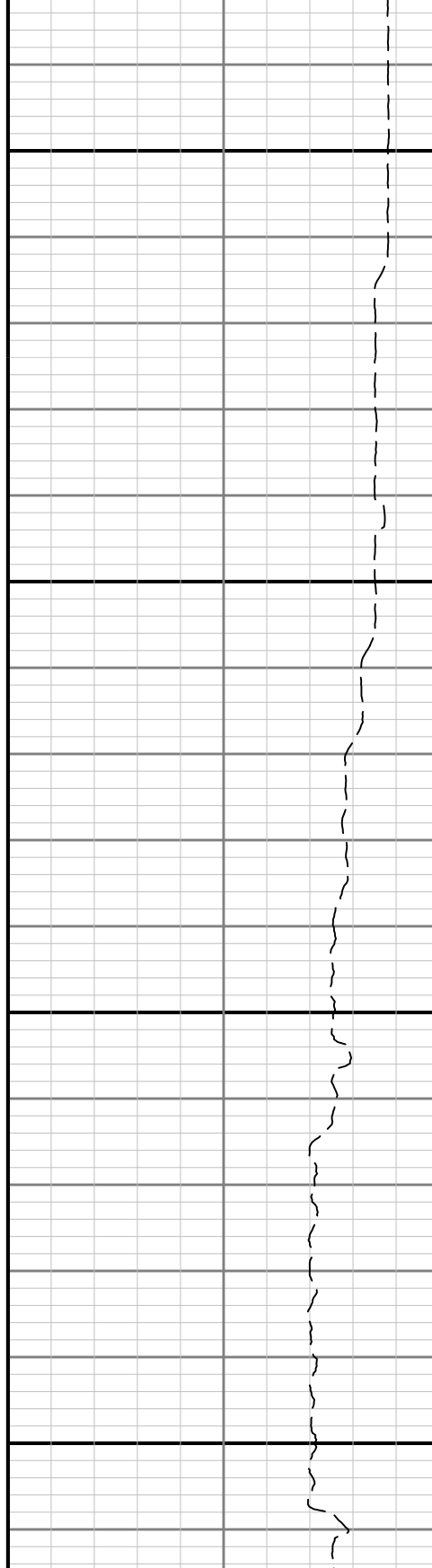


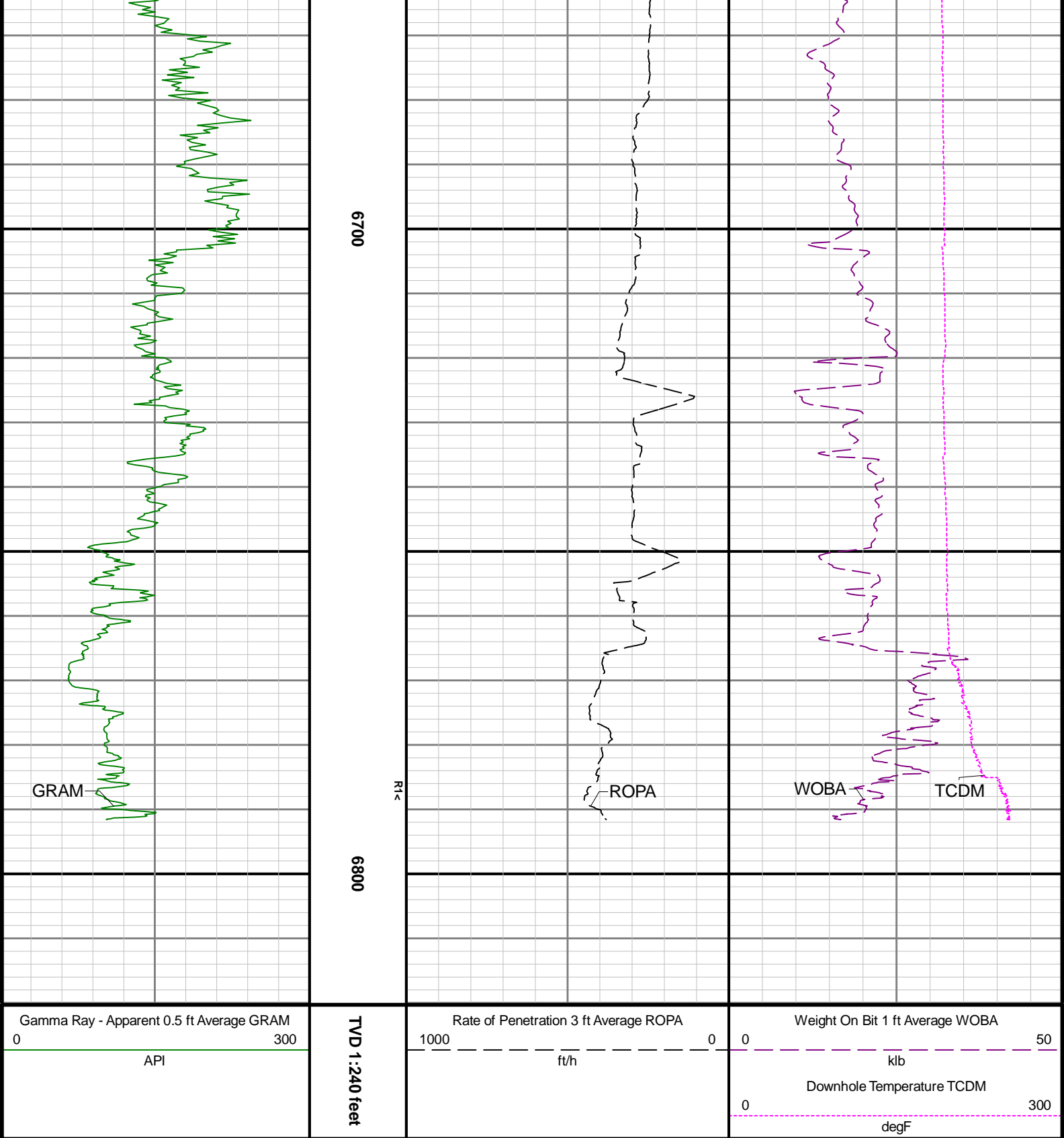




0099

6500





Latitude:		40° 27' 55.630" N					Longitude:		104° 34' 10.887" W				
North Reference:		Grid					Drill Depth Zero:		Rig Floor				
Vertical Datum is:		Mean Sea Level					Vertical Datum to DDZ: (ft)		4737.00				
Vertical Section North: (ft)		0.00					Vertical Section East: (ft)		0.00				
Vertical Section Azimuth: (deg)		175.75											
Grid Convergence: (deg)		-0.60					Magnetic Declination: (deg)		7.60				
Total Correction: (deg)		7.00					TVD Calculation Method:		Minimum Curvature				
Magnetic Correction:		Off					Local Magnetic Field: (nT)		51897				
Local Magnetic Dip Angle: (deg)		66.78					Local Gravity Field: (m/s2)		9.800				
Tie-In / Projection	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature (degF)	North (ft)	East (ft)	True Vertical Depth (ft)	TVD Subsea (ft)	Vertical Section (ft)	Course Length (ft)	Dog Leg Severity (deg/100ft)	Build Rate (deg/100ft)	Turn Rate (deg/100ft)
	80.00	0.27	7.48	N/A	0.19	0.02	80.00	-4657.00	-0.18	0.00	0.34	0.34	9.35
	173.00	0.35	270.63	N/A	0.41	-0.23	173.00	-4564.00	-0.42	93.00	0.50	0.09	-104.14
	264.00	0.21	6.70	N/A	0.58	-0.49	264.00	-4473.00	-0.61	91.00	0.47	-0.15	105.57
	359.00	0.14	335.86	N/A	0.85	-0.52	359.00	-4378.00	-0.89	95.00	0.12	-0.07	-32.46
	453.00	0.19	187.08	N/A	0.80	-0.58	453.00	-4284.00	-0.85	94.00	0.34	0.05	-158.28
	547.00	0.17	300.92	N/A	0.72	-0.72	547.00	-4190.00	-0.77	94.00	0.32	-0.02	121.11
	642.00	0.18	144.33	N/A	0.67	-0.76	642.00	-4095.00	-0.73	95.00	0.36	0.01	-164.83
	736.00	0.10	98.47	N/A	0.54	-0.59	736.00	-4001.00	-0.58	94.00	0.14	-0.09	-48.79
	831.00	0.23	21.91	N/A	0.71	-0.44	831.00	-3906.00	-0.74	95.00	0.24	0.14	-80.59
	925.00	0.22	356.37	N/A	1.06	-0.38	925.00	-3812.00	-1.09	94.00	0.11	-0.01	-27.17
	1020.00	0.24	34.11	N/A	1.41	-0.28	1020.00	-3717.00	-1.42	95.00	0.16	0.02	39.73
	1114.00	0.30	177.06	N/A	1.32	-0.15	1113.99	-3623.01	-1.33	94.00	0.55	0.06	152.07
	1209.00	0.17	170.68	N/A	0.94	-0.12	1208.99	-3528.01	-0.94	95.00	0.14	-0.14	-6.72
	1303.00	0.17	210.03	N/A	0.68	-0.16	1302.99	-3434.01	-0.69	94.00	0.12	0.00	41.86
	1398.00	0.22	128.37	N/A	0.44	-0.09	1397.99	-3339.01	-0.45	95.00	0.27	0.05	-85.96
	1493.00	0.25	185.29	N/A	0.12	0.03	1492.99	-3244.01	-0.12	95.00	0.24	0.03	59.92
	1587.00	0.28	164.75	N/A	-0.30	0.07	1586.99	-3150.01	0.31	94.00	0.11	0.03	-21.85
	1681.00	0.23	233.22	N/A	-0.64	-0.02	1680.99	-3056.01	0.63	94.00	0.31	-0.05	72.84
	1776.00	0.43	298.79	N/A	-0.58	-0.48	1775.99	-2961.01	0.54	95.00	0.42	0.21	69.02
	1871.00	0.64	320.23	N/A	0.00	-1.13	1870.99	-2866.01	-0.08	95.00	0.30	0.22	22.57
Tie-In	1905.00	0.70	332.93	N/A	0.33	-1.35	1904.98	-2832.02	-0.43	34.00	0.47	0.18	37.35
	1991.00	0.91	33.19	112.2	1.37	-1.22	1990.98	-2746.02	-1.46	86.00	0.96	0.24	70.07
	2085.00	3.30	109.27	117.6	1.10	1.75	2084.92	-2652.08	-0.97	94.00	3.41	2.54	80.94
	2180.00	6.33	110.08	120.3	-1.60	9.25	2179.57	-2557.43	2.28	95.00	3.19	3.19	0.85
	2274.00	6.62	108.86	123.0	-5.13	19.24	2272.97	-2464.03	6.54	94.00	0.34	0.31	-1.30
	2369.00	6.98	110.61	123.0	-8.93	29.83	2367.30	-2369.70	11.12	95.00	0.44	0.38	1.84
	2463.00	7.42	110.24	128.4	-13.04	40.87	2460.56	-2276.44	16.03	94.00	0.47	0.47	-0.39
	2558.00	8.90	112.82	125.7	-18.01	53.40	2554.60	-2182.40	21.92	95.00	1.60	1.56	2.72
	2652.00	8.38	108.62	131.1	-23.02	66.59	2647.53	-2089.47	27.89	94.00	0.87	-0.55	-4.47
	2747.00	8.23	112.33	128.4	-27.81	79.44	2741.53	-1995.47	33.63	95.00	0.59	-0.16	3.91
	2842.00	9.25	112.89	131.1	-33.37	92.77	2835.43	-1901.57	40.15	95.00	1.08	1.07	0.59
	2936.00	8.66	109.77	133.8	-38.70	106.39	2928.28	-1808.72	46.48	94.00	0.81	-0.63	-3.32
	3031.00	8.93	111.97	136.5	-43.88	119.96	3022.17	-1714.83	52.65	95.00	0.45	0.28	2.32
	3125.00	9.24	107.18	139.2	-48.84	133.93	3114.99	-1622.01	58.63	94.00	0.87	0.33	-5.10
	3220.00	7.47	113.91	139.2	-53.59	146.86	3208.98	-1528.02	64.33	95.00	2.13	-1.86	7.08
	3315.00	9.04	110.30	136.5	-58.69	159.51	3302.99	-1434.01	70.35	95.00	1.74	1.65	-3.80
	3409.00	8.87	110.10	141.9	-63.74	173.24	3395.85	-1341.15	76.40	94.00	0.18	-0.18	-0.21
	3504.00	8.92	107.43	144.6	-68.46	187.15	3489.71	-1247.29	82.14	95.00	0.44	0.05	-2.81
	3599.00	9.43	105.74	144.6	-72.78	201.67	3583.49	-1153.51	87.52	95.00	0.61	0.54	-1.78
	3693.00	9.56	105.35	144.6	-76.93	216.60	3676.20	-1060.80	92.77	94.00	0.15	0.14	-0.41
	3788.00	9.65	105.36	147.3	-81.13	231.89	3769.87	-967.13	98.09	95.00	0.09	0.09	0.01
	3882.00	9.58	106.40	147.3	-85.43	246.99	3862.55	-874.45	103.50	94.00	0.20	-0.07	1.11
	3977.00	9.45	105.32	150.0	-89.72	262.10	3956.24	-780.76	108.90	95.00	0.23	-0.14	-1.14
	4072.00	9.59	104.88	150.0	-93.81	277.27	4049.93	-687.07	114.10	95.00	0.17	0.15	-0.46
	4166.00	9.57	105.01	152.7	-97.85	292.38	4142.62	-594.38	119.25	94.00	0.03	-0.02	0.14
	4261.00	10.05	105.76	152.7	-102.14	307.99	4236.23	-500.77	124.69	95.00	0.52	0.51	0.79
	4356.00	9.94	106.65	152.7	-106.74	323.82	4329.79	-407.21	130.45	95.00	0.20	-0.12	0.94
	4451.00	9.91	104.88	155.4	-111.19	339.58	4423.37	-313.63	136.05	95.00	0.32	-0.03	-1.88
	4546.00	9.88	103.11	158.1	-115.64	355.37	4516.95	-220.09	141.65	95.00	0.43	0.08	-2.81
	4641.00	9.85	101.34	160.8	-120.09	371.16	4610.53	-126.55	147.25	95.00	0.54	0.13	-3.74
	4736.00	9.82	99.57	163.5	-124.54	386.95	4704.11	-33.01	152.85	95.00	0.65	0.18	-4.67
	4831.00	9.79	97.80	166.2	-128.99	402.74	4797.69	76.53	158.45	95.00	0.76	0.23	-5.60
	4926.00	9.76	96.03	168.9	-133.44	418.53	4891.27	163.01	164.05	95.00	0.87	0.28	-6.53
	5021.00	9.73	94.26	171.6	-137.89	434.32	4984.85	249.49	169.65	95.00	0.98	0.33	-7.46
	5116.00	9.70	92.49	174.3	-142.34	450.11	5078.43	335.97	175.25	95.00	1.09	0.38	-8.39
	5211.00	9.67	90.72	177.0	-146.79	465.90	5172.01	422.45	180.85	95.00	1.20	0.43	-9.32
	5306.00	9.64	88.95	179.7	-151.24	481.69	5265.59	508.93	186.45	95.00	1.31	0.48	-10.25
	5401.00	9.61	87.18	182.4	-155.69	497.48	5359.17	595.41	192.05	95.00	1.42	0.53	-11.18
	5496.00	9.58	85.41	185.1	-160.14	513.27	5452.75	681.89	197.65	95.00	1.53	0.58	-12.11
	5591.00	9.55	83.64	187.8	-164.59	529.06	5546.33	768.37	203.25	95.00	1.64	0.63	-13.04
	5686.00	9.52	81.87	190.5	-169.04	544.85	5639.91	854.85	208.85	95.00	1.75	0.68	-13.97
	5781.00	9.49	79.48	193.2	-173.49	560.64	5733.49	941.33	214.45	95.00	1.86	0.73	-14.90
	5876.00	9.46	77.71	195.9	-177.94	576.43	5827.07	1027.81	220.05	95.00	1.97	0.78	-15.83
	5971.00	9.43	75.94	198.6	-182.39	592.22	5920.65	1114.29	225.65	95.00	2.08	0.83	-16.76
	6066.00	9.40	74.17	201.3	-186.84	608.01	6014.23	1200.77	231.25	95.00	2.19	0.88	-17.69
	6161.00	9.37	72.40	204.0	-191.29	623.80	6107.81	1287.25	236.85	95.00	2.30	0.93	-18.62
	6256.00	9.34	70.63	206.7	-195.74	639.59	6201.39	1373.73	242.45	95.00	2.41	0.98	-19.55
	6351.00	9.31	68.86	209.4	-200.19	655.38	6294.97	1460.21	248.05	95.00	2.52	1.03	-20.48
	6446.00	9.28	67.09	212.1	-204.64	671.17	6388.55	1546.69	253.65	95.00	2.63	1.08	-21.41
	6541.00												

		4431.00	9.91	104.53	153.4	-111.15	355.35	4423.37	513.53	133.53	53.55	0.32	0.53	1.55
		4545.00	9.92	105.34	158.1	-115.41	355.20	4515.97	-221.03	141.42	94.00	0.08	0.01	0.49
		4640.00	9.96	105.90	158.1	-119.83	370.99	4609.54	-127.46	146.99	95.00	0.11	0.04	0.59
		4735.00	9.89	105.83	160.8	-124.30	386.74	4703.12	-33.88	152.62	95.00	0.07	-0.07	-0.07
		4829.00	10.00	106.56	160.8	-128.83	402.33	4795.71	58.71	158.29	94.00	0.18	0.12	0.78
		4924.00	9.83	106.65	160.8	-133.51	418.01	4889.29	152.29	164.12	95.00	0.18	-0.18	0.09
		5018.00	10.11	105.42	163.5	-138.00	433.65	4981.87	244.87	169.76	94.00	0.37	0.30	-1.31
		5113.00	9.87	106.32	166.2	-142.50	449.50	5075.43	338.43	175.42	95.00	0.30	-0.25	0.95
		5207.00	9.77	106.51	166.2	-147.03	464.88	5168.05	431.05	181.08	94.00	0.11	-0.11	0.20
		5302.00	9.85	106.45	168.9	-151.63	480.40	5261.66	524.66	186.81	95.00	0.08	0.08	-0.06
		5397.00	9.97	106.56	168.9	-156.27	496.08	5355.24	618.24	192.60	95.00	0.13	0.13	0.12
		5492.00	10.00	106.58	171.6	-160.97	511.87	5448.81	711.81	198.46	95.00	0.03	0.03	0.02
		5586.00	9.77	105.79	171.6	-165.47	527.36	5541.41	804.41	204.09	94.00	0.28	-0.24	-0.84
		5681.00	9.74	106.90	171.6	-170.00	542.81	5635.04	898.04	209.76	95.00	0.20	-0.03	1.17
		5775.00	9.80	106.47	174.3	-174.58	558.09	5727.67	990.67	215.46	94.00	0.10	0.06	-0.46
		5870.00	9.71	106.10	174.3	-179.09	573.54	5821.30	1084.30	221.10	95.00	0.12	-0.09	-0.39
		5964.00	9.83	105.78	177.0	-183.47	588.88	5913.94	1176.94	226.61	94.00	0.14	0.13	-0.34
		6059.00	9.68	107.33	177.0	-188.06	604.30	6007.56	1270.56	232.32	95.00	0.32	-0.16	1.63
		6153.00	9.95	110.57	177.0	-193.26	619.45	6100.19	1363.19	238.64	94.00	0.65	0.29	3.45
		6248.00	13.94	143.21	177.0	-205.33	634.01	6193.21	1456.21	251.75	95.00	8.10	4.20	34.36
		6342.00	20.04	155.24	185.2	-229.05	647.55	6283.10	1546.10	276.41	94.00	7.46	6.49	12.80
		6437.00	27.92	162.40	182.5	-265.10	661.12	6369.85	1632.85	313.36	95.00	8.83	8.29	7.54
		6532.00	34.33	168.58	185.2	-312.62	673.17	6451.15	1714.15	361.64	95.00	7.53	6.75	6.51
		6627.00	42.48	169.03	185.2	-370.46	684.59	6525.53	1788.53	420.18	95.00	8.58	8.58	0.47
		6721.00	50.06	174.13	187.9	-437.59	694.34	6590.49	1853.49	487.84	94.00	8.96	8.06	5.43
		6816.00	56.65	174.40	190.6	-513.39	701.94	6647.16	1910.16	564.00	95.00	6.94	6.94	0.28
		6910.00	64.58	174.17	190.6	-594.83	710.10	6693.24	1956.24	645.81	94.00	8.44	8.44	-0.24
		7005.00	71.81	175.95	190.6	-682.64	717.65	6728.51	1991.51	733.95	95.00	7.81	7.61	1.87
		7099.00	79.00	176.82	193.3	-773.37	723.37	6752.18	2015.18	824.85	94.00	7.70	7.65	0.93
		7194.00	86.89	176.71	196.0	-867.42	728.69	6763.84	2026.84	919.04	95.00	8.31	8.31	-0.12
		7288.00	89.26	176.18	198.7	-961.18	734.52	6767.00	2030.00	1012.97	94.00	2.58	2.52	-0.56
		7383.00	89.78	178.54	204.1	-1056.07	738.89	6767.79	2030.79	1107.93	95.00	2.54	0.55	2.48
		7478.00	89.60	179.41	204.1	-1151.05	740.59	6768.31	2031.31	1202.77	95.00	0.94	-0.19	0.92
		7572.00	89.57	179.38	206.8	-1245.05	741.58	6768.99	2031.99	1296.58	94.00	0.05	-0.03	-0.03
		7666.00	89.60	179.59	204.1	-1339.04	742.43	6769.67	2032.67	1390.38	94.00	0.23	0.03	0.22
		7761.00	89.69	179.68	206.8	-1434.04	743.03	6770.26	2033.26	1485.16	95.00	0.13	0.09	0.09
		7855.00	89.75	179.16	206.8	-1528.03	743.98	6770.72	2033.72	1578.96	94.00	0.56	0.06	-0.55
		7950.00	89.38	178.50	209.5	-1623.01	745.92	6771.44	2034.44	1673.82	95.00	0.80	-0.39	-0.69
		8044.00	89.72	180.01	206.8	-1716.99	747.15	6772.18	2035.18	1767.64	94.00	1.65	0.36	1.61
		8139.00	89.11	179.24	209.5	-1811.98	747.77	6773.15	2036.15	1862.42	95.00	1.03	-0.64	-0.81
		8234.00	89.63	179.32	212.2	-1906.97	748.96	6774.19	2037.19	1957.23	95.00	0.55	0.55	0.08
		8328.00	89.69	179.36	212.2	-2000.96	750.04	6774.75	2037.75	2051.05	94.00	0.08	0.06	0.04
		8423.00	89.51	180.33	214.9	-2095.96	750.30	6775.41	2038.41	2145.80	95.00	1.04	-0.19	1.02
		8517.00	89.08	179.61	217.6	-2189.95	750.35	6776.57	2039.57	2239.54	94.00	0.89	-0.46	-0.77
		8612.00	89.54	179.21	214.9	-2284.94	751.33	6777.71	2040.71	2334.34	95.00	0.64	0.48	-0.42
		8706.00	89.57	179.21	214.9	-2378.93	752.62	6778.44	2041.44	2428.16	94.00	0.03	0.03	0.00
		8801.00	88.98	179.08	214.9	-2473.91	754.04	6779.64	2042.64	2522.99	95.00	0.64	-0.62	-0.14
		8896.00	89.51	180.15	217.6	-2568.90	754.68	6780.90	2043.90	2617.76	95.00	1.26	0.56	1.13
		8991.00	89.54	180.40	220.3	-2663.89	754.22	6781.68	2044.68	2712.46	95.00	0.27	0.03	0.26
		9085.00	89.72	180.69	223.0	-2757.89	753.33	6782.29	2045.29	2806.13	94.00	0.36	0.19	0.31
		9180.00	89.48	181.16	223.0	-2852.87	751.80	6782.95	2045.95	2900.74	95.00	0.56	-0.25	0.49
		9274.00	89.38	180.58	225.7	-2946.85	750.37	6783.89	2046.89	2994.36	94.00	0.63	-0.11	-0.62
		9369.00	89.54	180.51	228.4	-3041.85	749.47	6784.78	2047.78	3089.02	95.00	0.18	0.17	-0.07
		9463.00	90.15	180.57	225.7	-3135.84	748.58	6785.04	2048.04	3182.69	94.00	0.65	0.65	0.06
		9558.00	90.22	180.64	225.7	-3230.84	747.58	6784.73	2047.73	3277.35	95.00	0.10	0.07	0.07
		9652.00	89.82	180.53	231.1	-3324.83	746.62	6784.70	2047.70	3371.02	94.00	0.44	-0.43	-0.12
		9747.00	90.03	180.72	228.4	-3419.82	745.58	6784.82	2047.82	3465.67	95.00	0.30	0.22	0.20
		9841.00	90.40	181.34	233.8	-3513.81	743.89	6784.47	2047.47	3559.27	94.00	0.77	0.39	0.66
		9936.00	90.25	180.25	231.1	-3608.80	742.57	6783.93	2046.93	3653.90	95.00	1.16	-0.16	-1.15
		10031.00	89.66	180.67	233.8	-3703.79	741.81	6784.01	2047.01	3748.58	95.00	0.76	-0.62	0.44
		10125.00	90.46	180.87	233.8	-3797.78	740.55	6783.91	2046.91	3842.22	94.00	0.88	0.85	0.21

	10220.00	90.28	180.77	236.5	-3892.77	739.19	6783.29	2046.29	3936.85	95.00	0.22	-0.19	-0.11
	10314.00	90.18	180.54	233.8	-3986.76	738.11	6782.92	2045.92	4030.50	94.00	0.27	-0.11	-0.24
	10409.00	89.75	180.50	231.1	-4081.76	737.25	6782.98	2045.98	4125.17	95.00	0.45	-0.45	-0.04
	10503.00	89.91	180.19	233.8	-4175.76	736.68	6783.25	2046.25	4218.87	94.00	0.37	0.17	-0.33
	10598.00	90.00	180.37	236.5	-4270.76	736.22	6783.33	2046.33	4313.57	95.00	0.21	0.09	0.19
	10692.00	90.09	180.70	236.5	-4364.75	735.34	6783.25	2046.25	4407.24	94.00	0.36	0.10	0.35
	10787.00	89.97	181.30	239.2	-4459.74	733.68	6783.21	2046.21	4501.85	95.00	0.64	-0.13	0.63
	10881.00	89.51	180.67	236.5	-4553.72	732.07	6783.63	2046.63	4595.45	94.00	0.83	-0.49	-0.67
	10976.00	89.51	180.51	236.5	-4648.71	731.09	6784.44	2047.44	4690.11	95.00	0.17	0.00	-0.17
	11070.00	89.91	180.99	239.2	-4742.70	729.86	6784.92	2047.92	4783.75	94.00	0.66	0.43	0.51
	11165.00	89.54	180.45	239.2	-4837.69	728.67	6785.38	2048.38	4878.39	95.00	0.69	-0.39	-0.57
	11259.00	89.63	180.96	241.9	-4931.68	727.51	6786.06	2049.06	4972.04	94.00	0.55	0.10	0.54
	11354.00	89.97	179.77	241.9	-5026.68	726.90	6786.39	2049.39	5066.73	95.00	1.30	0.36	-1.25
	11448.00	89.72	179.95	241.9	-5120.68	727.13	6786.64	2049.64	5160.48	94.00	0.33	-0.27	0.19
	11543.00	89.78	179.70	244.6	-5215.68	727.42	6787.06	2050.06	5255.24	95.00	0.27	0.06	-0.26
	11637.00	89.75	179.93	244.6	-5309.68	727.73	6787.44	2050.44	5349.01	94.00	0.25	-0.03	0.24
	11732.00	90.15	179.78	244.6	-5404.68	727.97	6787.53	2050.53	5443.76	95.00	0.45	0.42	-0.16
	11826.00	89.78	179.90	247.3	-5498.68	728.23	6787.58	2050.58	5537.52	94.00	0.41	-0.39	0.13
	11921.00	89.85	180.25	247.3	-5593.67	728.11	6787.89	2050.89	5632.25	95.00	0.38	0.07	0.37
	12015.00	89.48	179.09	247.3	-5687.67	728.65	6788.44	2051.44	5726.03	94.00	1.30	-0.39	-1.23
	12110.00	89.88	180.11	247.3	-5782.66	729.31	6788.97	2051.97	5820.81	95.00	1.15	0.42	1.07
	12205.00	89.54	179.93	247.3	-5877.66	729.28	6789.45	2052.45	5915.55	95.00	0.40	-0.36	-0.19
	12299.00	89.78	180.05	250.0	-5971.66	729.29	6790.01	2053.01	6009.29	94.00	0.29	0.26	0.13
	12394.00	89.97	179.63	247.3	-6066.66	729.56	6790.22	2053.22	6104.04	95.00	0.49	0.20	-0.44
	12489.00	89.75	180.06	250.0	-6161.66	729.82	6790.45	2053.45	6198.80	95.00	0.51	-0.23	0.45
	12583.00	89.54	179.22	250.0	-6255.65	730.41	6791.03	2054.03	6292.58	94.00	0.92	-0.22	-0.89
	12678.00	89.91	180.34	250.0	-6350.65	730.77	6791.49	2054.49	6387.34	95.00	1.24	0.39	1.18
	12772.00	89.97	179.73	250.0	-6444.65	730.71	6791.58	2054.58	6481.08	94.00	0.65	0.06	-0.65
	12867.00	90.00	180.01	250.0	-6539.65	730.93	6791.61	2054.61	6575.84	95.00	0.30	0.03	0.29
	12962.00	90.28	180.15	250.0	-6634.65	730.80	6791.38	2054.38	6670.56	95.00	0.33	0.29	0.15
	13056.00	90.52	180.09	250.0	-6728.65	730.60	6790.72	2053.72	6764.29	94.00	0.26	0.26	-0.06
	13151.00	90.71	180.08	250.0	-6823.64	730.46	6789.70	2052.70	6859.01	95.00	0.20	0.20	-0.01
	13245.00	90.52	180.30	252.7	-6917.64	730.15	6788.69	2051.69	6952.72	94.00	0.31	-0.20	0.23
	13340.00	90.55	179.97	252.7	-7012.63	729.92	6787.81	2050.81	7047.44	95.00	0.35	0.03	-0.35
	13434.00	90.18	180.23	252.7	-7106.63	729.76	6787.21	2050.21	7141.17	94.00	0.48	-0.39	0.28
	13529.00	90.22	180.06	252.7	-7201.63	729.52	6786.88	2049.88	7235.89	95.00	0.18	0.04	-0.18
	13623.00	90.65	180.25	255.4	-7295.62	729.27	6786.16	2049.16	7329.61	94.00	0.50	0.46	0.20
	13718.00	90.80	178.92	255.4	-7390.61	729.95	6784.96	2047.96	7424.39	95.00	1.41	0.16	-1.40
	13812.00	90.34	179.10	255.4	-7484.59	731.58	6784.02	2047.02	7518.23	94.00	0.53	-0.49	0.19
	13907.00	90.18	176.85	255.4	-7579.53	734.93	6783.59	2046.59	7613.15	95.00	2.37	-0.17	-2.37
	14001.00	90.80	177.15	255.4	-7673.39	739.85	6782.79	2045.79	7707.12	94.00	0.73	0.66	0.32
	14096.00	89.72	176.94	255.4	-7768.27	744.75	6782.36	2045.36	7802.10	95.00	1.16	-1.14	-0.22
	14191.00	89.75	176.84	255.4	-7863.12	749.90	6782.80	2045.80	7897.08	95.00	0.11	0.03	-0.11
	14285.00	90.06	177.04	258.1	-7956.99	754.92	6782.95	2045.95	7991.06	94.00	0.39	0.33	0.21
	14380.00	89.75	178.66	252.7	-8051.92	758.49	6783.11	2046.11	8085.99	95.00	1.74	-0.33	1.71
	14474.00	89.63	179.15	255.4	-8145.90	760.28	6783.62	2046.62	8179.84	94.00	0.54	-0.13	0.52
	14569.00	90.00	178.63	258.1	-8240.88	762.12	6783.93	2046.93	8274.70	95.00	0.67	0.39	-0.55
	14663.00	89.97	178.84	258.1	-8334.86	764.20	6783.95	2046.95	8368.57	94.00	0.23	-0.03	0.22
	14758.00	89.54	178.74	258.1	-8429.84	766.20	6784.36	2047.36	8463.44	95.00	0.46	-0.45	-0.11
	14852.00	89.78	179.05	258.1	-8523.82	768.02	6784.92	2047.92	8557.30	94.00	0.42	0.26	0.33
Projection	16848.00	90.00	179.56	N/A	-10519.67	775.99	6788.62	2051.62	10548.25	25.00	0.00	0.01	0.03