



Gamma Ray

LWD MEMORY LOG

Scale:

1:240

True Vertical Depth

Depth Reference:

Driller's Depth

Status:

Final Print

API No: 05-123-50927-00

Job ID: 110956224

Permanent Datum (P.D.): Mean Sea Level

Log Measured From: Rig Floor

Company: Noble Energy

Well: Rampart A33-750

Field: Wattenberg

County: Weld Country: United States

State: Colorado

Surface Location:

Latitude: 40° 27' 57.762" N

Longitude: 104° 33' 39.585" W

Other Services:

Directional

SEC: 21 TWN: 6N RGE: 64W

Elevation: 0.00 ft

Above P.D.: 4757.00 ft

Elev. KB: 4757.00 ft

Elev. DF: 4727.00 ft

Dates

From: 2021-08-08
To: 2021-08-12
Spud: 2021-07-28

Drilled (ft)
Top: 1959.00
Bottom: 17110.00

Logged (ft)
Top: 1959.00
Bottom: 17097.00
Azi Reference North: 66.79
Total Magnetic Field Strength: (nT) 51905
Mag to Reference North Correction: (deg) 7.00

Magnetic Field Reference

Borehole Record

Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	30.00	1959.00	9.625	36.00	30.00	1949.00
8.500	1959.00	17110.00				

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
Oil Based Mud	1959.00	17110.00	8.500	15151.00	1.87 50.52	89.38 178.64

Acquisition System

Software Version

Other

Cadence
Plot Studio
RT 6.1
6.1.9289.2

Rig: H&P 517
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	1959.00	17097.00	1959.00	17110.00	2021-08-08 16:43	2021-08-12 09:07	78.36

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Alix Cain	2021-08-08	2021-08-11	Jeremiah Samson	2021-08-08	2021-08-13	Michael Gurnsey	2021-08-08	2021-08-13

Tien Bui	2021-08-08	2021-08-13	Tyler Bench	2021-08-08	2021-08-11	Dallata Dinh	2021-08-12	2021-08-13
Rizwan Khan	2021-08-12	2021-08-13						

Witness

Name	Run
Dave Nielson	1

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+ (%)
2021-08-07 17:47	1	1959.00	Oil Based Mud	9.2	10	N/A	20.0	79.5/20.5	Active Pit	25500	0.00
2021-08-08 16:00	1	1959.00	Oil Based Mud	9.3	11	N/A	2.0	81/19	Active Pit	28475	0.00
2021-08-09 05:00	1	5871.00	Oil Based Mud	9.1	11	N/A	2.0	80/20	Active Pit	28000	0.00
2021-08-09 16:00	1	7730.00	Oil Based Mud	9.5	12	N/A	3.0	80.9/19.1	Active Pit	24781	0.00
2021-08-10 16:00	1	9048.00	Oil Based Mud	10.8	15	N/A	3.0	79.7/20.3	Active Pit	23810	0.00
2021-08-11 05:00	1	11403.00	Oil Based Mud	11.1	14	N/A	3.0	71.85/28.15	Active Pit	23324	0.00
2021-08-11 16:00	1	13816.00	Oil Based Mud	11.2	16	N/A	3.0	81.1/18.9	Active Pit	24295	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	15322209	Near Bit VSS	5.93	6.75	7.000	4.330
1	AutoTrak Curve Steering Unit	15322209	Near Bit Inclination	5.93	6.75	7.000	4.330
1	AutoTrak Curve MWD	14256861	Gamma (single)	2.82	12.92	7.000	3.250
1	AutoTrak Curve MWD	14256861	Directional (mag)	12.27	22.37	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	Baker Hughes LWD Run 1 utilized 6 ¾ inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1959 to 17110 feet MD (1959 to 6885 feet TVD).
2	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.
3	The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.

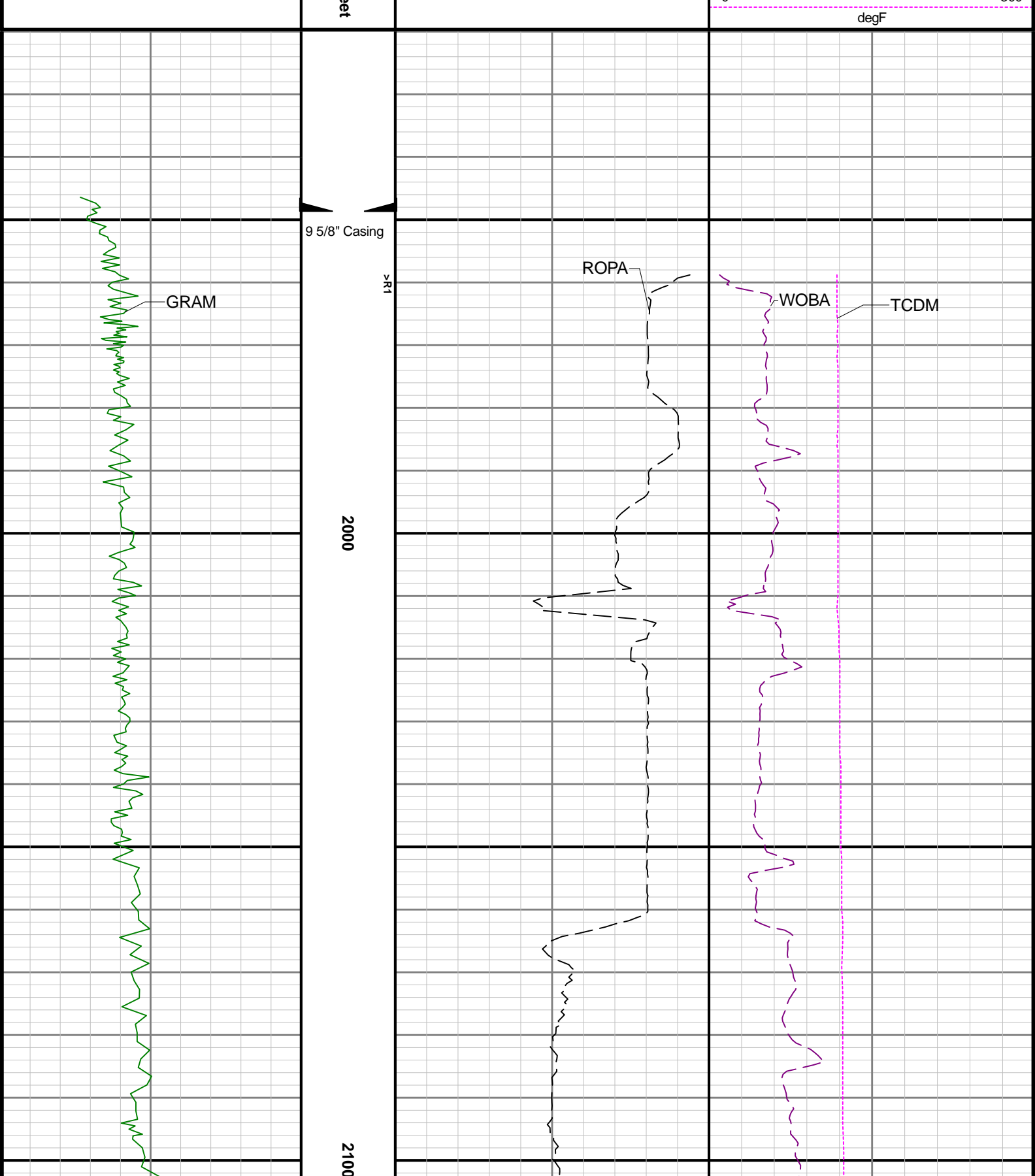
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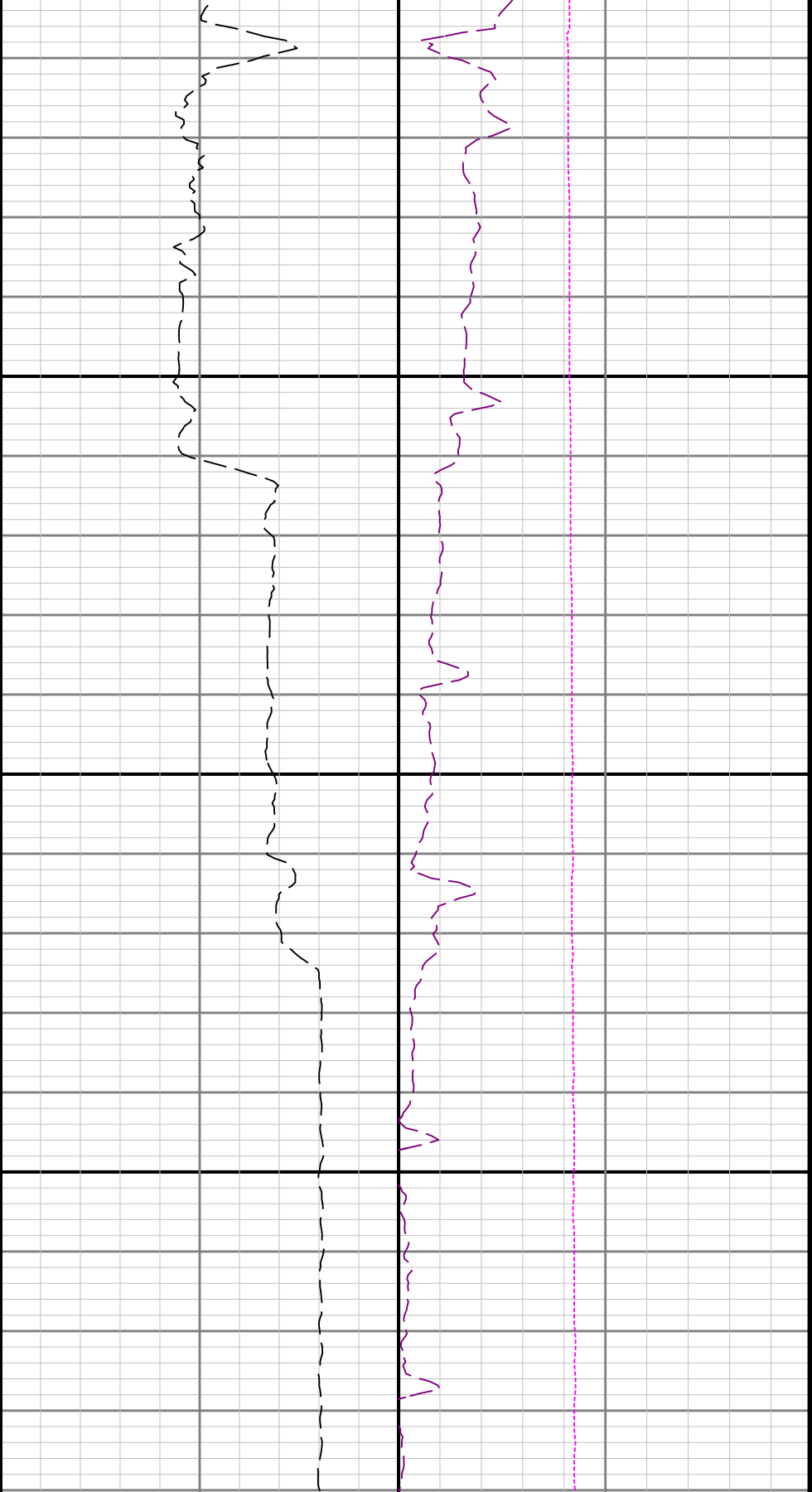
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
1	6650.00	8.500	1	The interval from 6650 to 6674 feet MD (6373 to 6395 feet TVD) was not logged due to a temporary failure of third party depth tracking system.

Curve Mnemonics

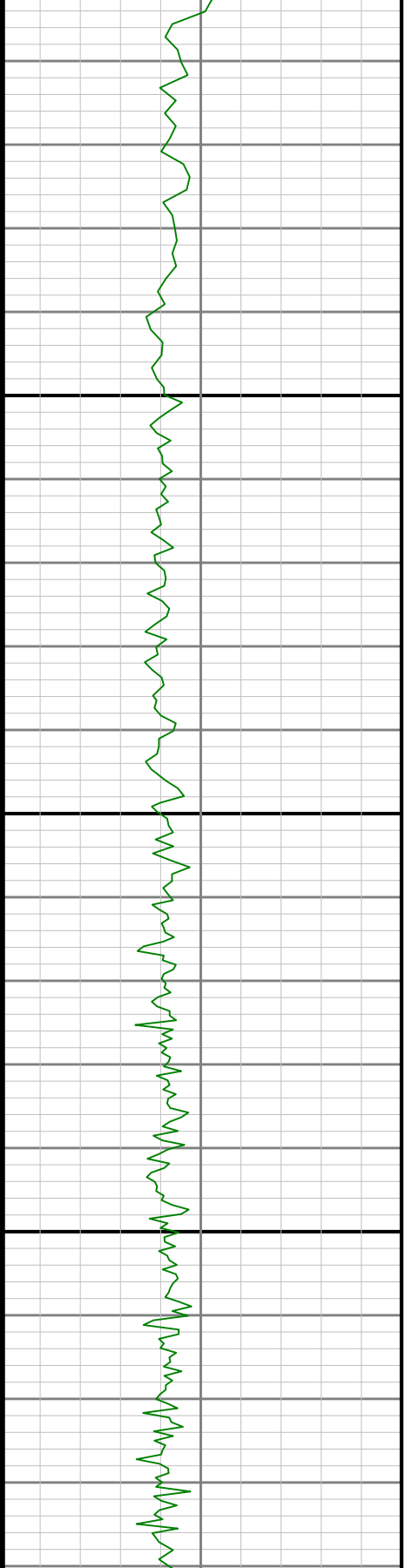
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
WOBA	Weight on Bit - Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent - Memory 0.5 ft Average	API
TCDM	Directional Real-Time Survey Temperature	degF

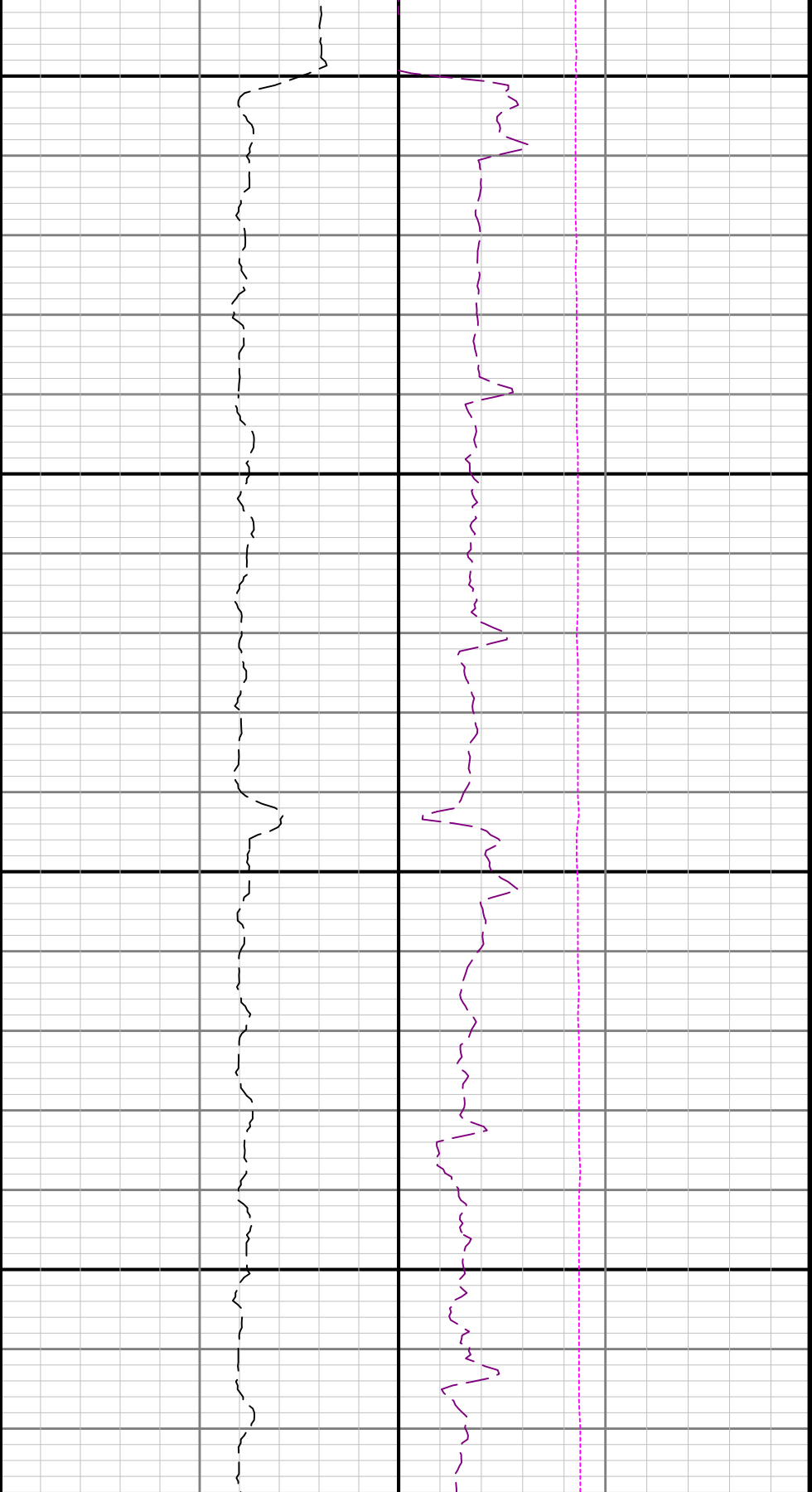
Gamma Ray - Apparent 0.5 ft Average GRAM	TVD 1:240 ft	Depth Averaged ROP 3 ft Average ROPA	Weight On Bit, Average 1 ft Average WOBA
0 300		1000 0	0 50
API		ft/h	klb
			Downhole Temperature TCDM





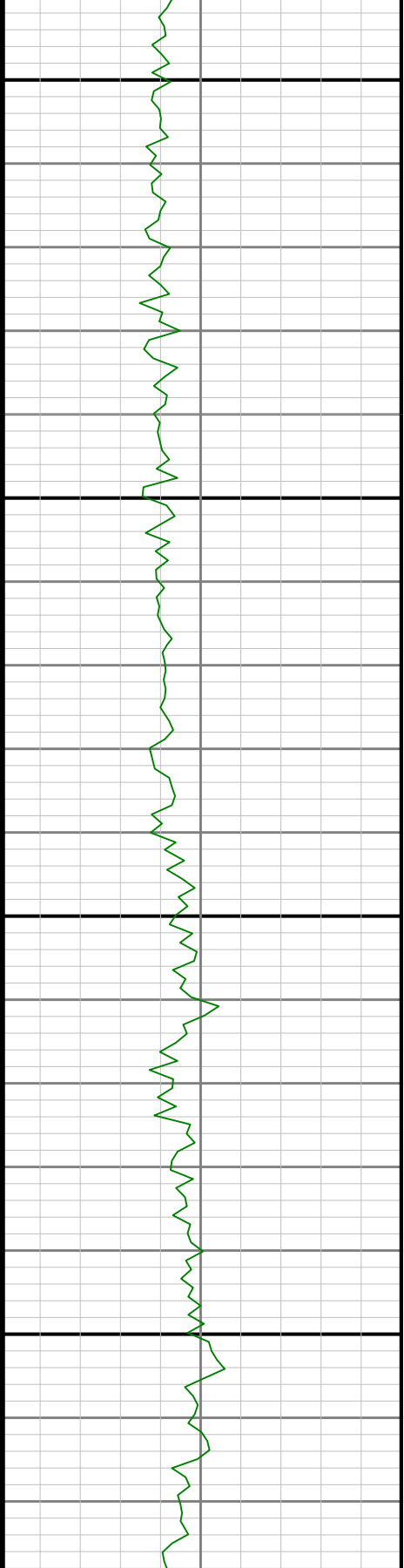
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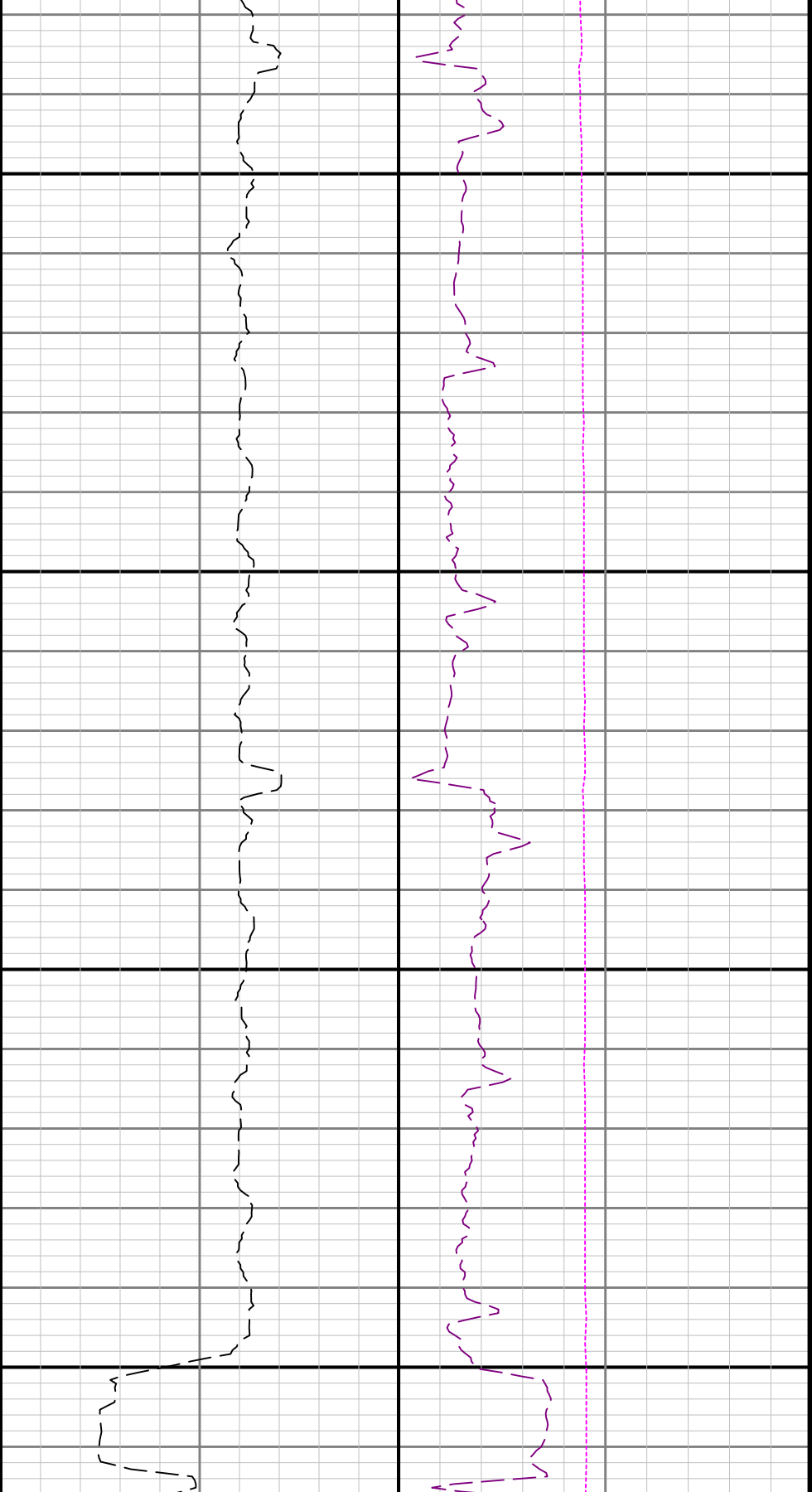




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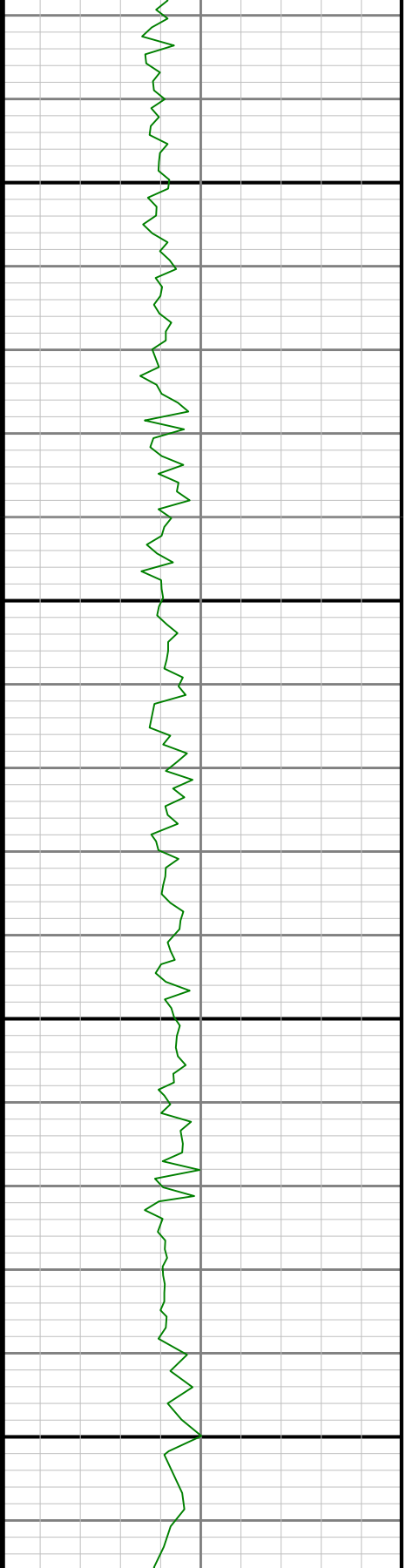
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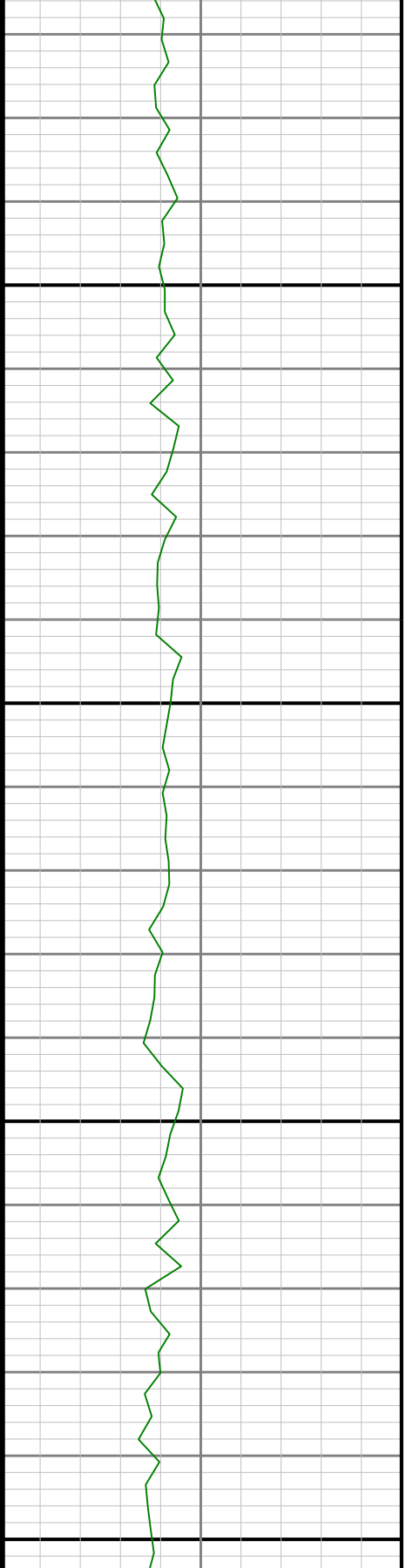
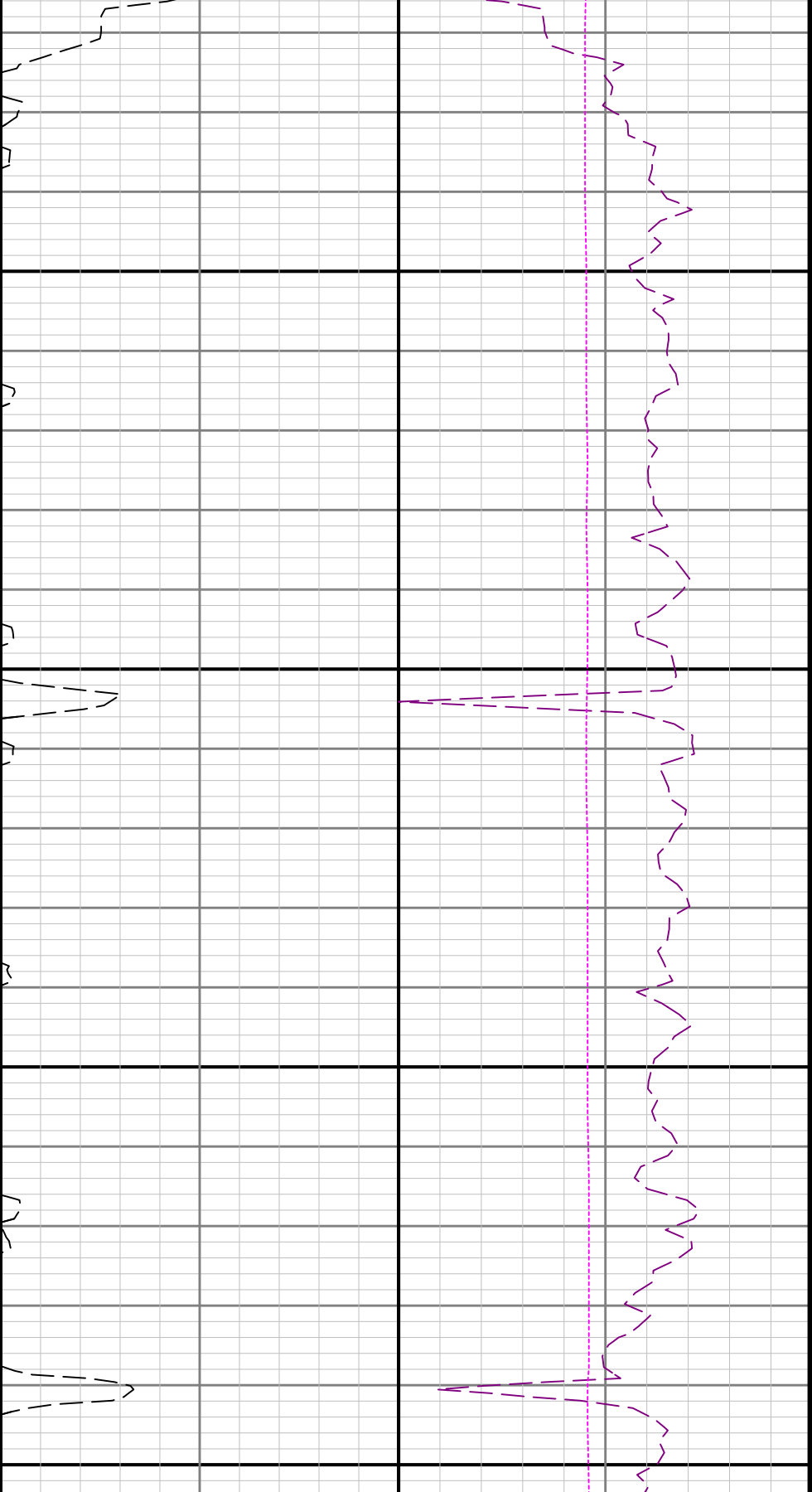


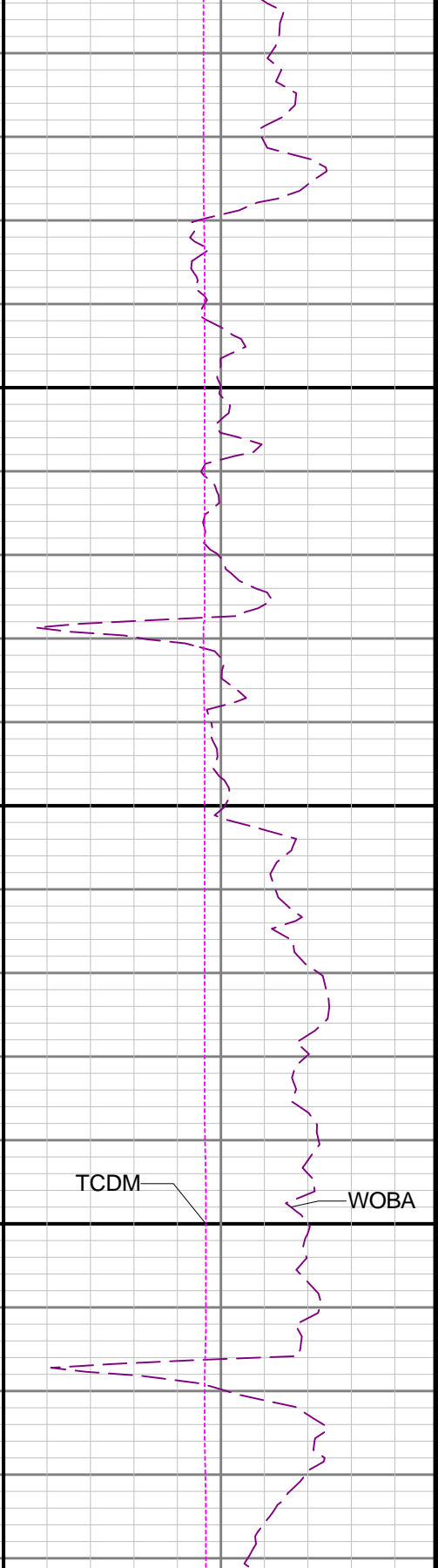
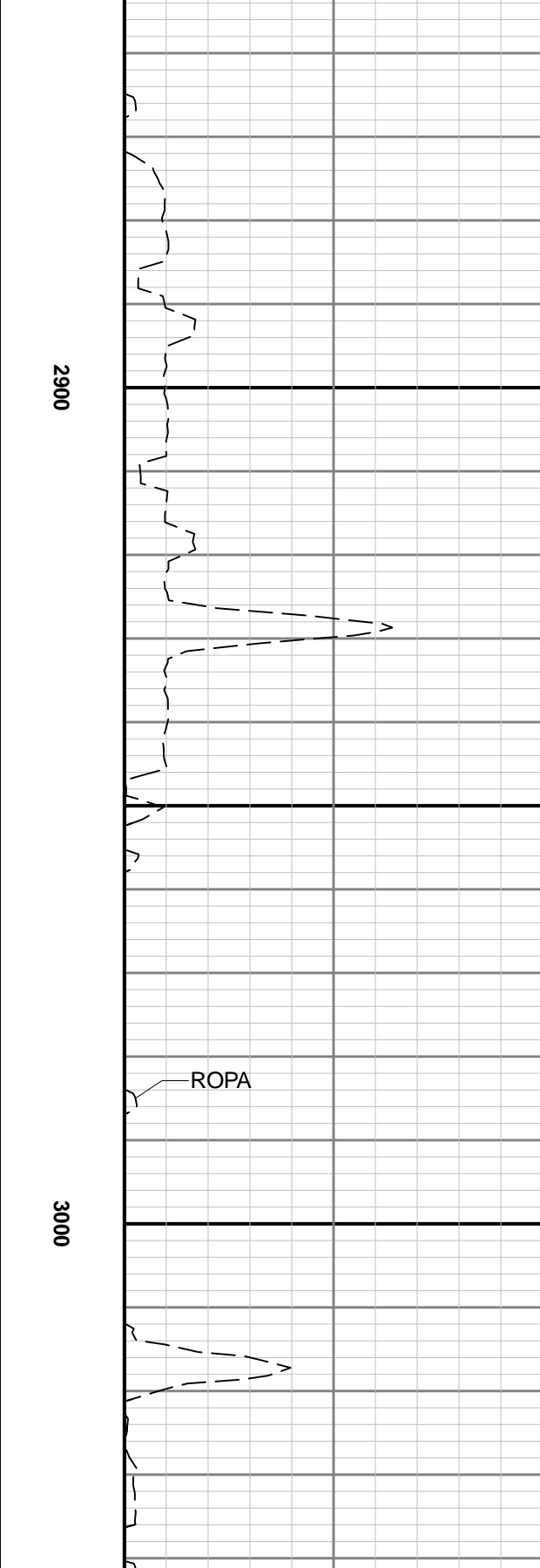
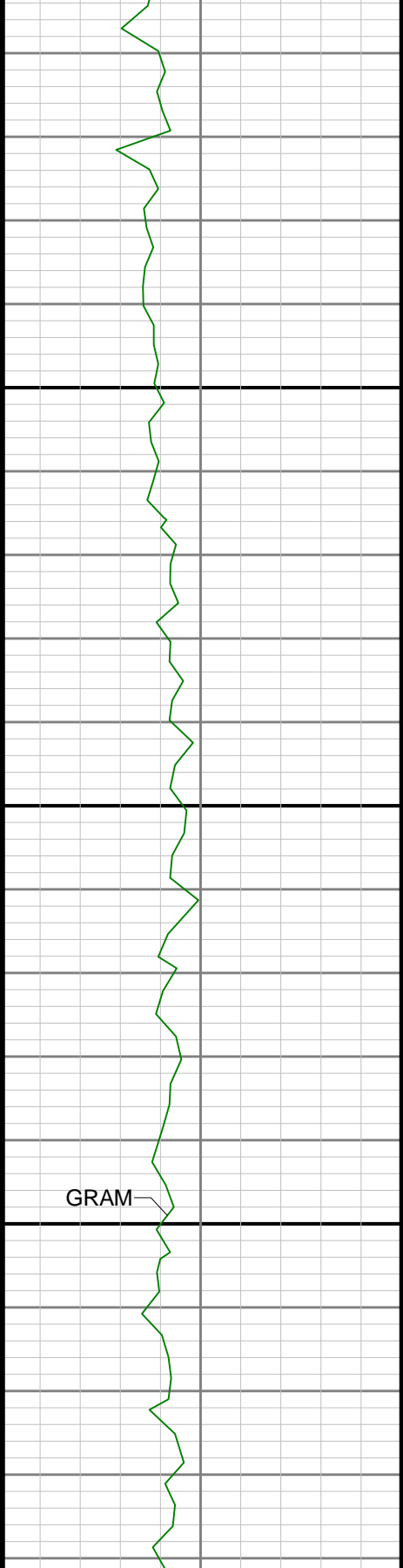


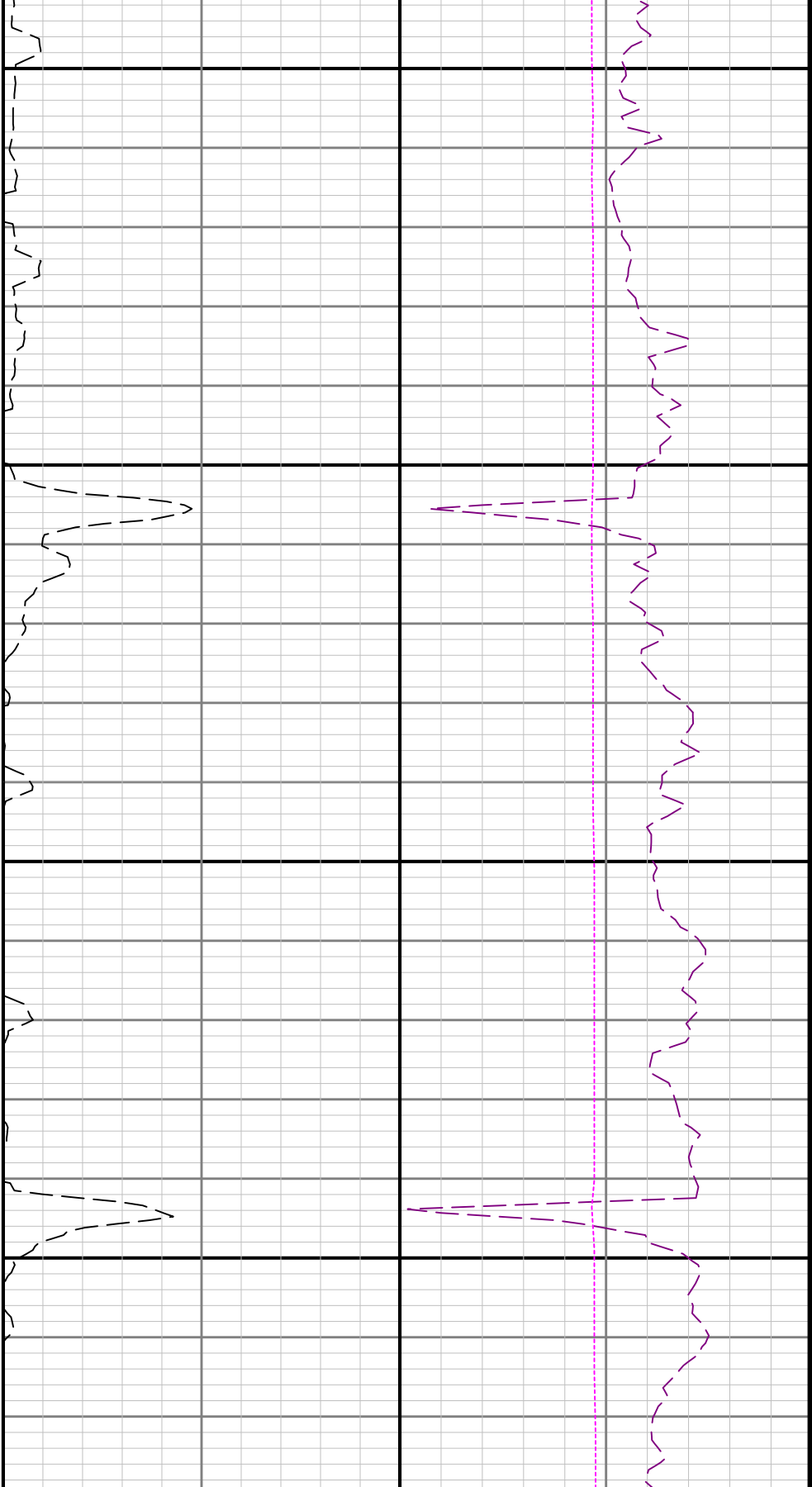
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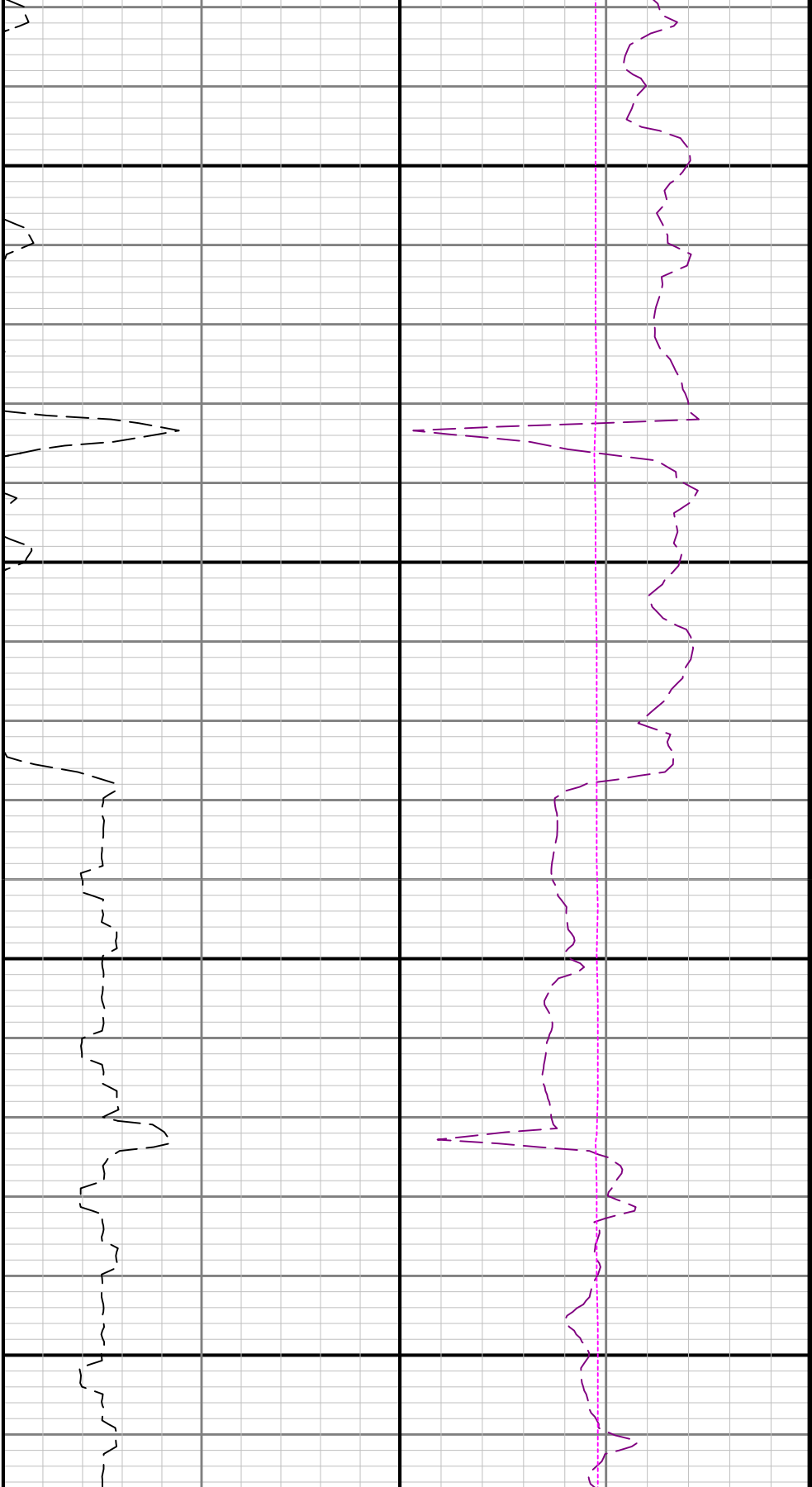






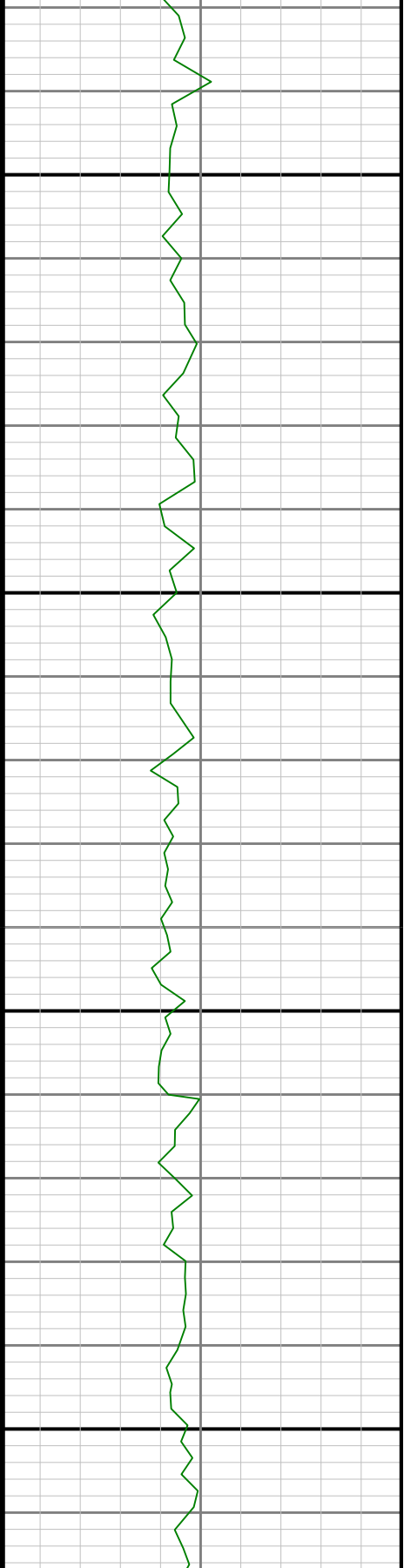
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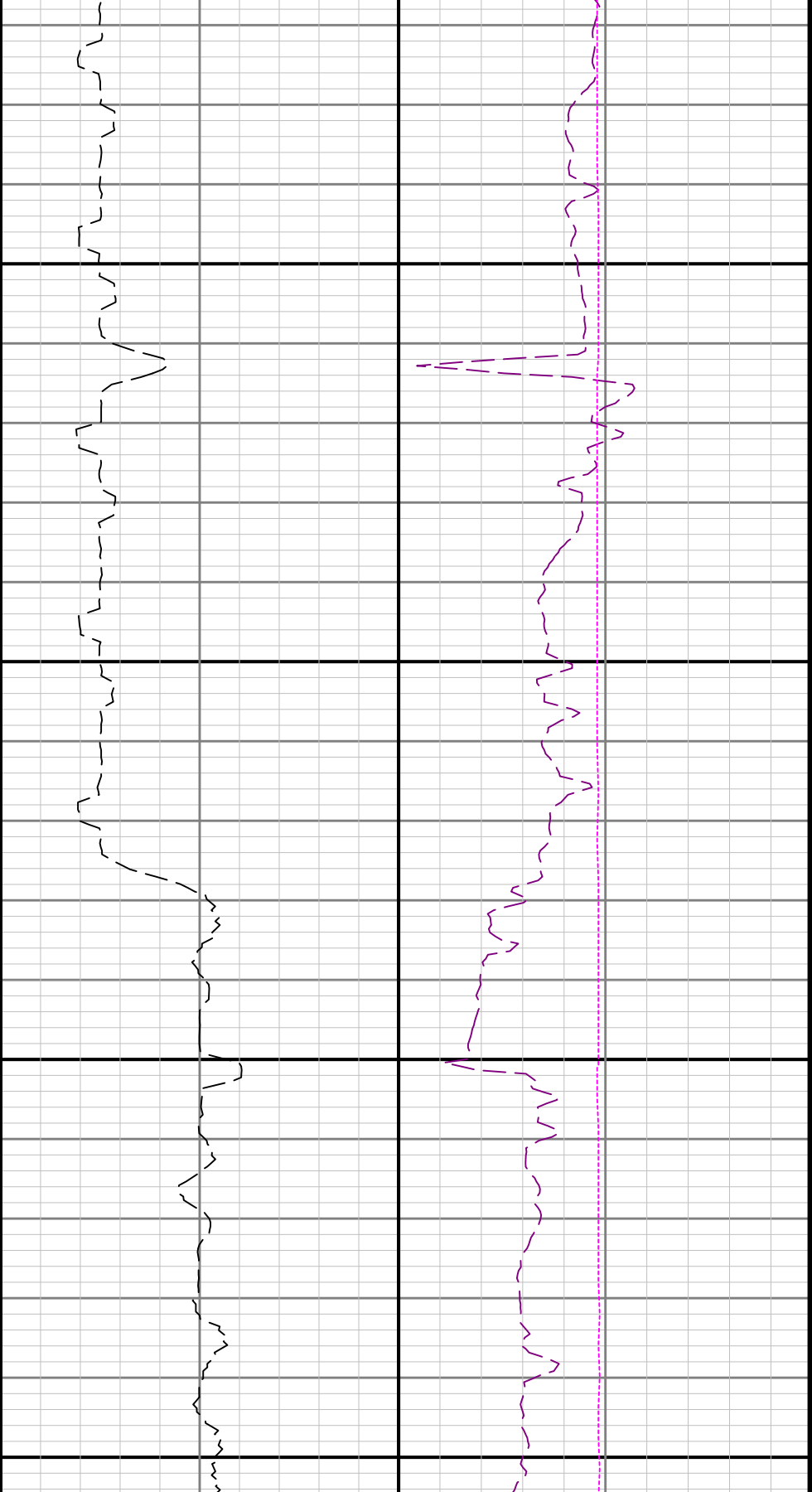
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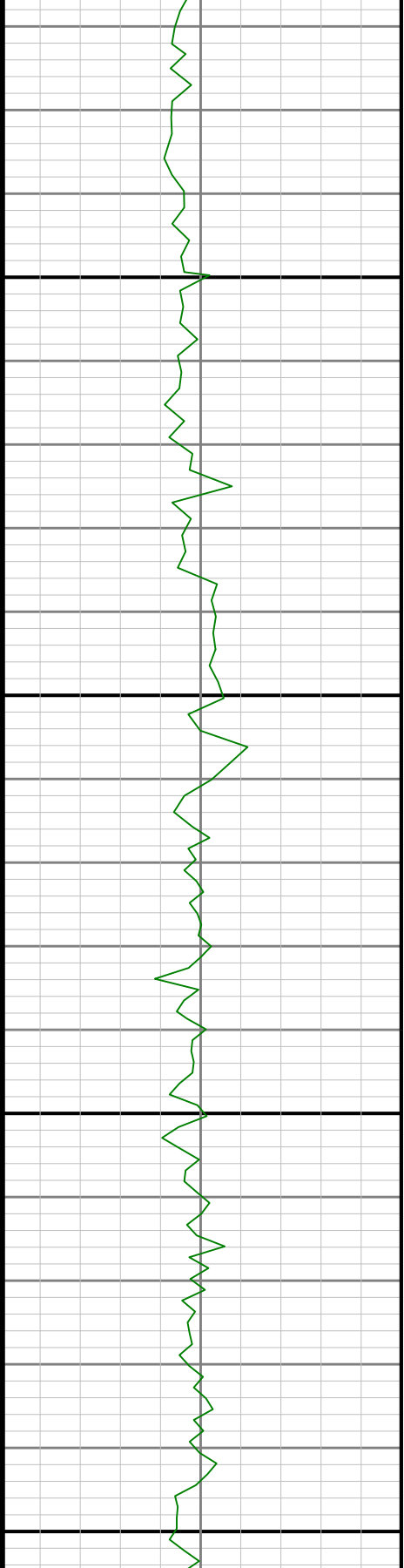
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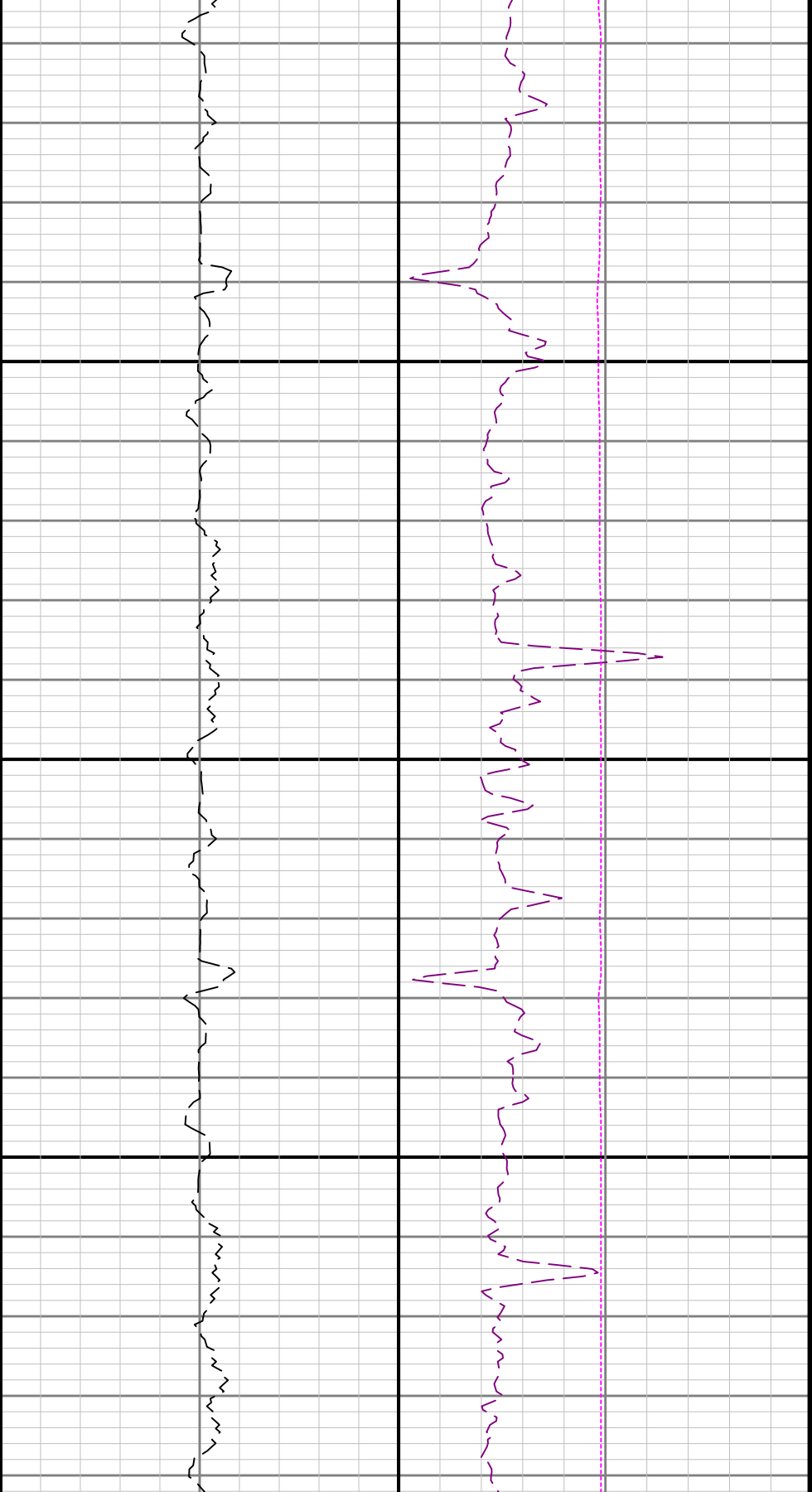




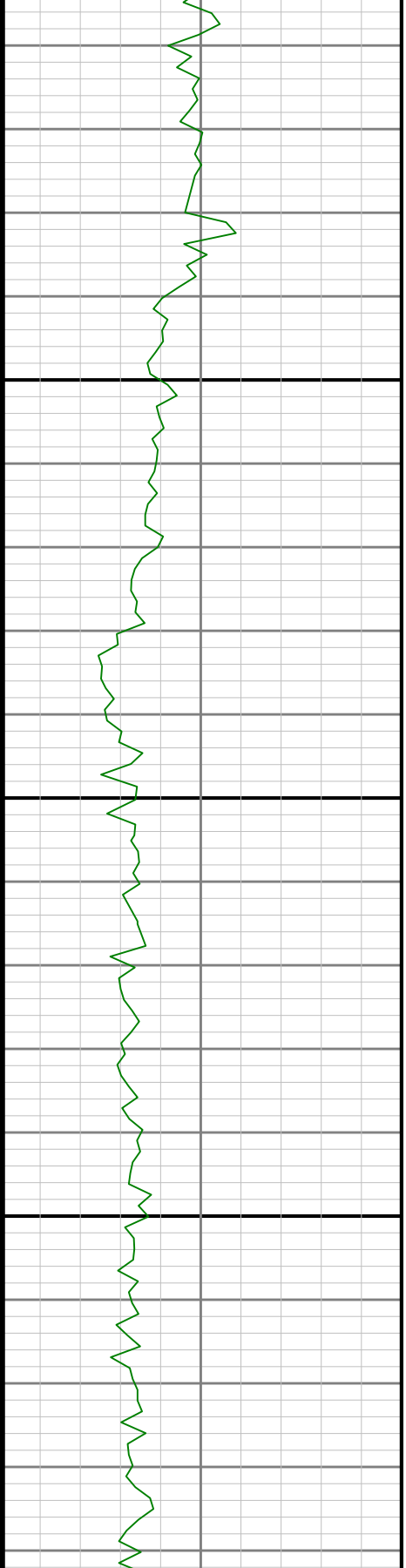
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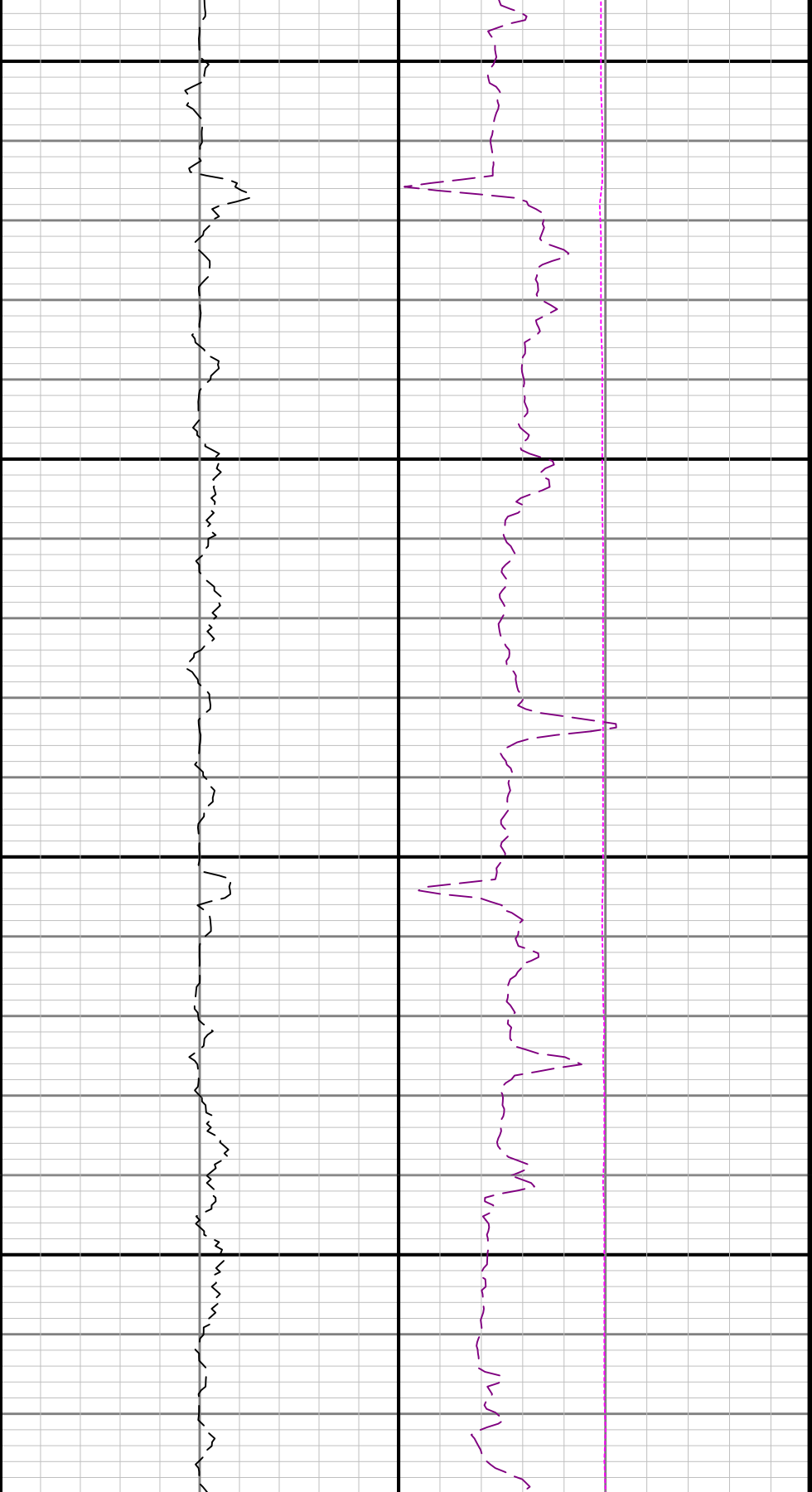
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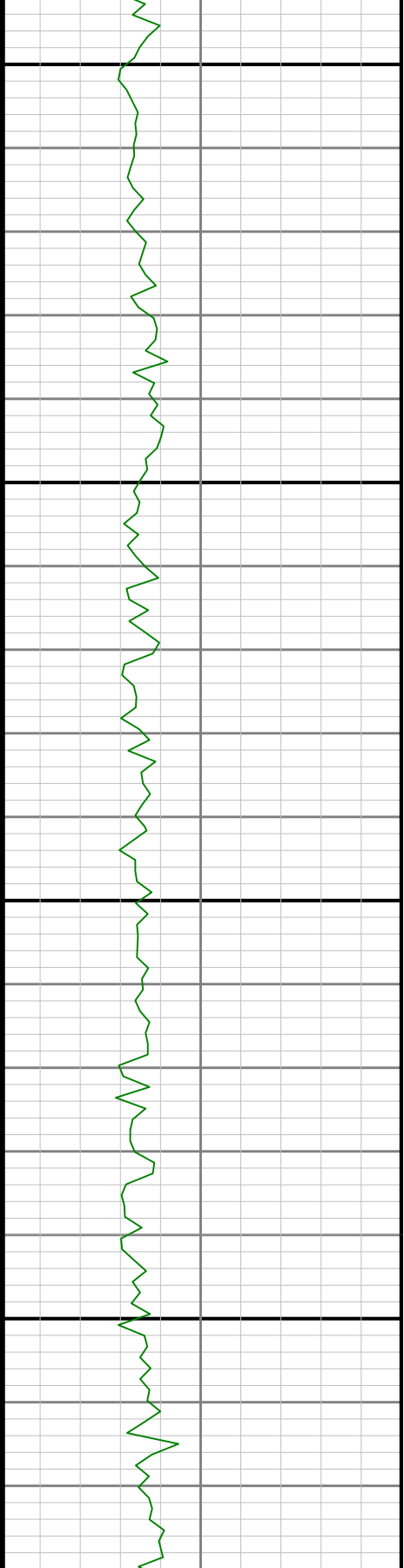
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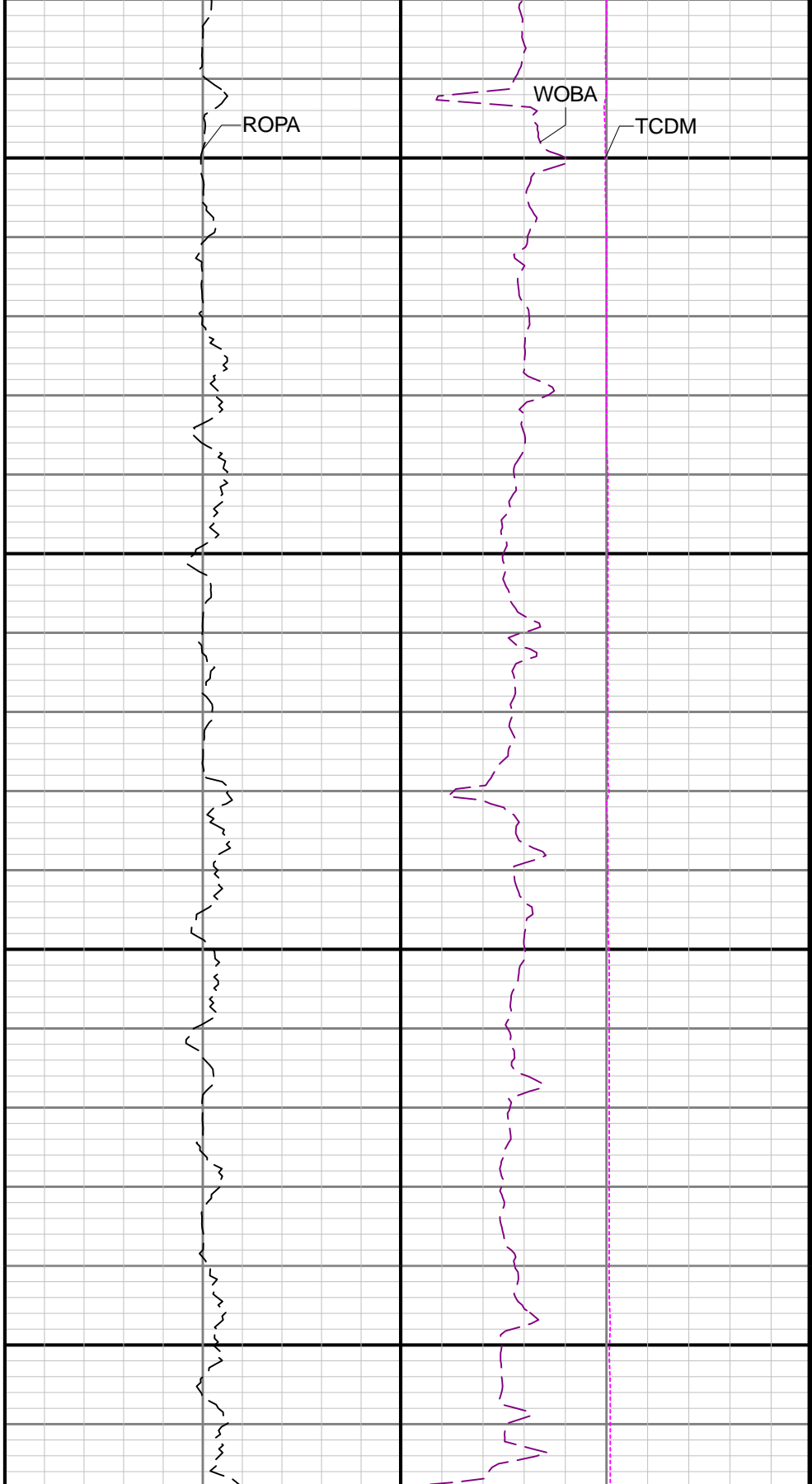
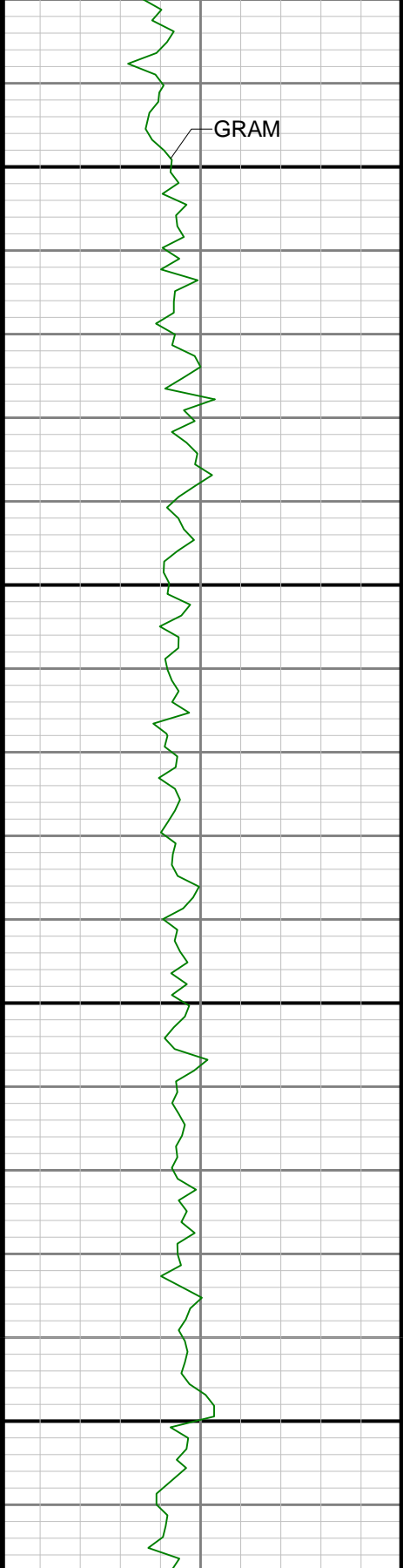


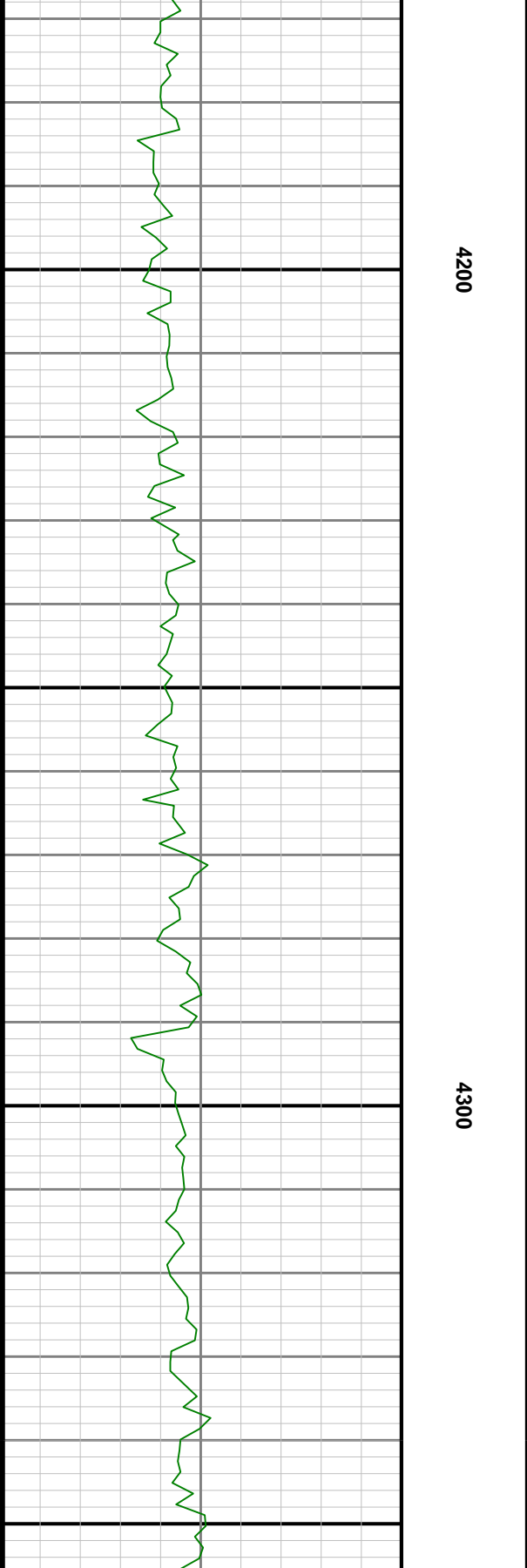
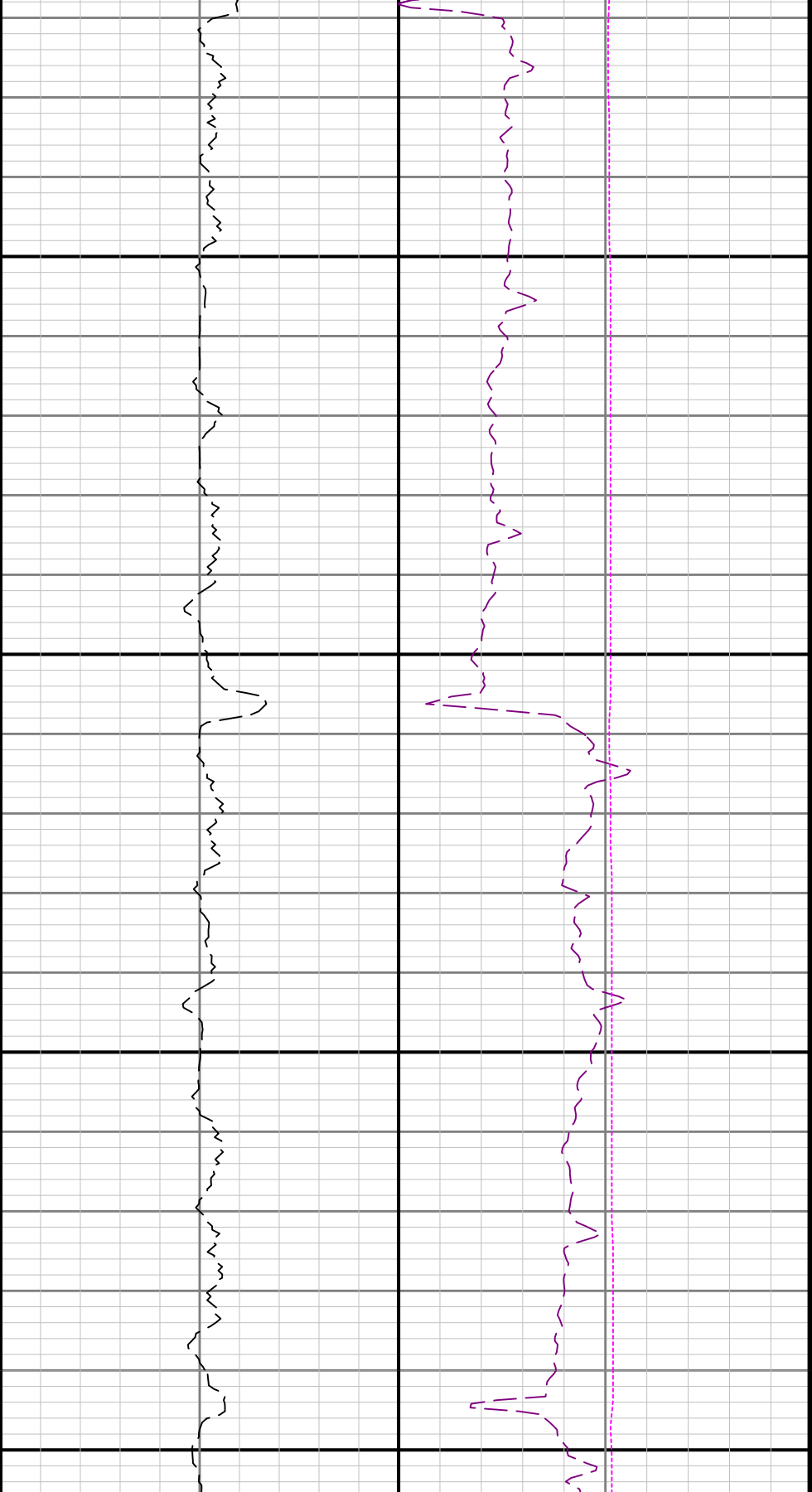


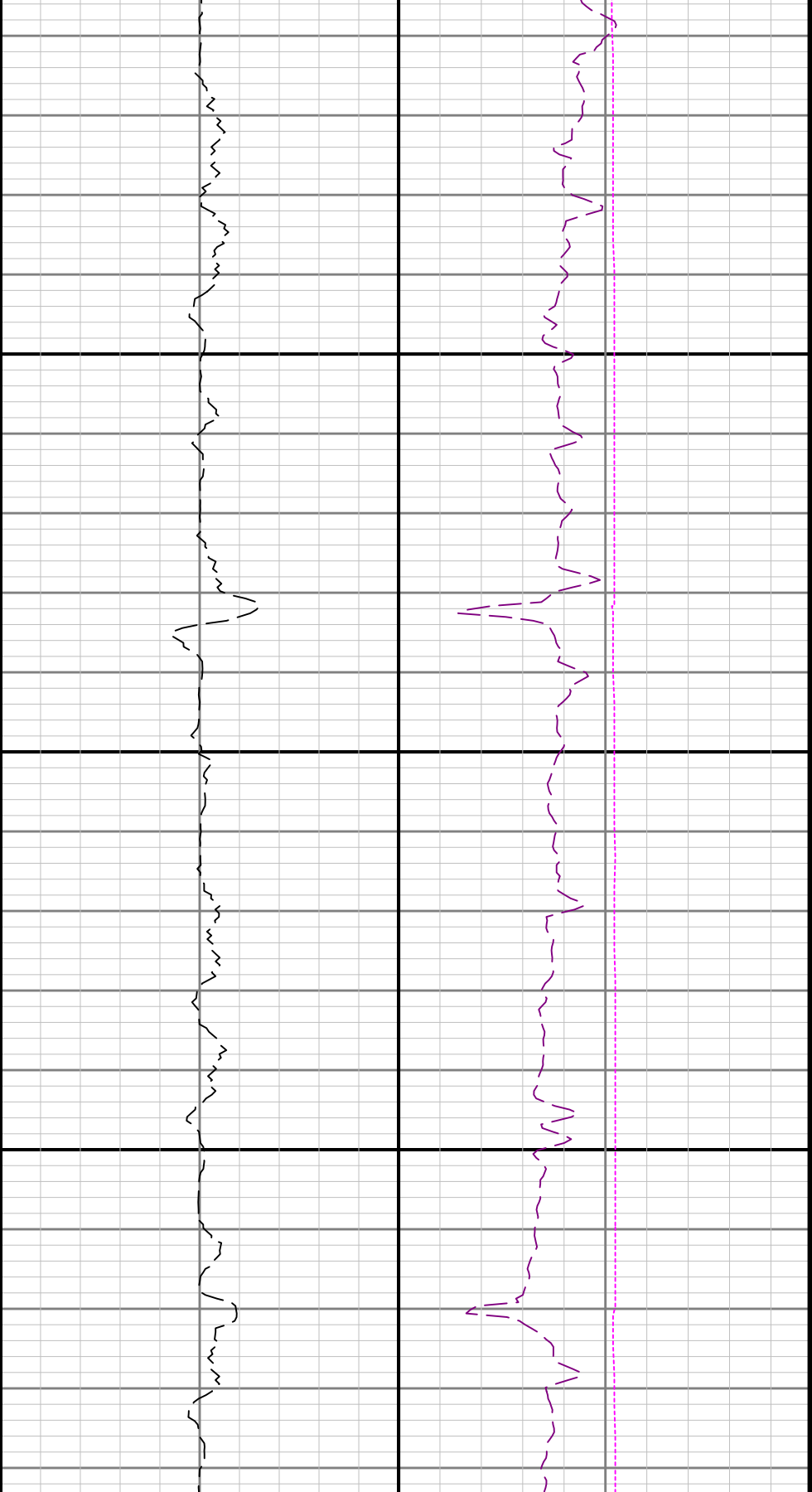
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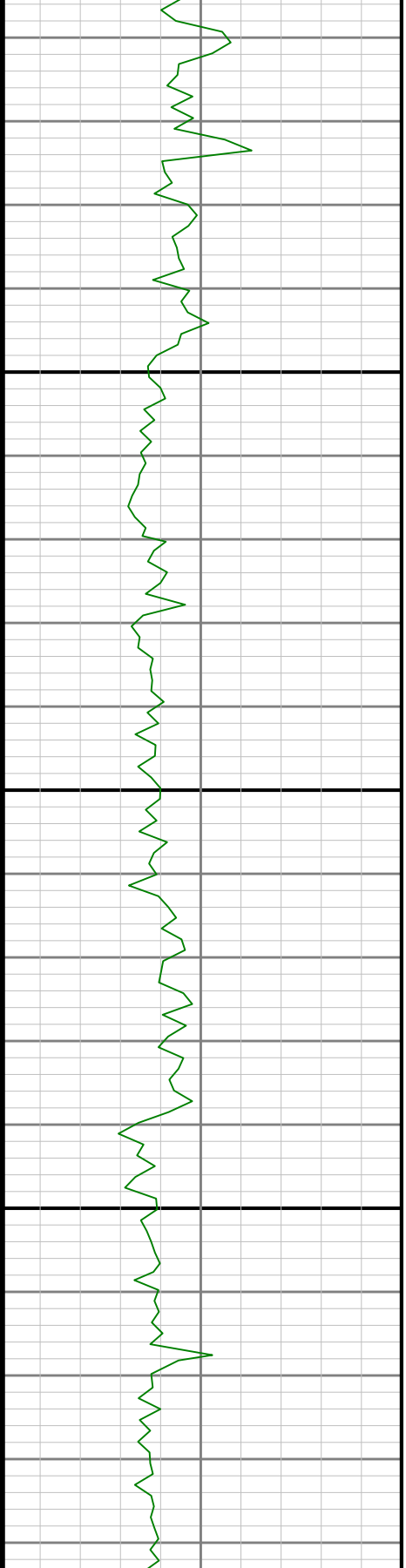


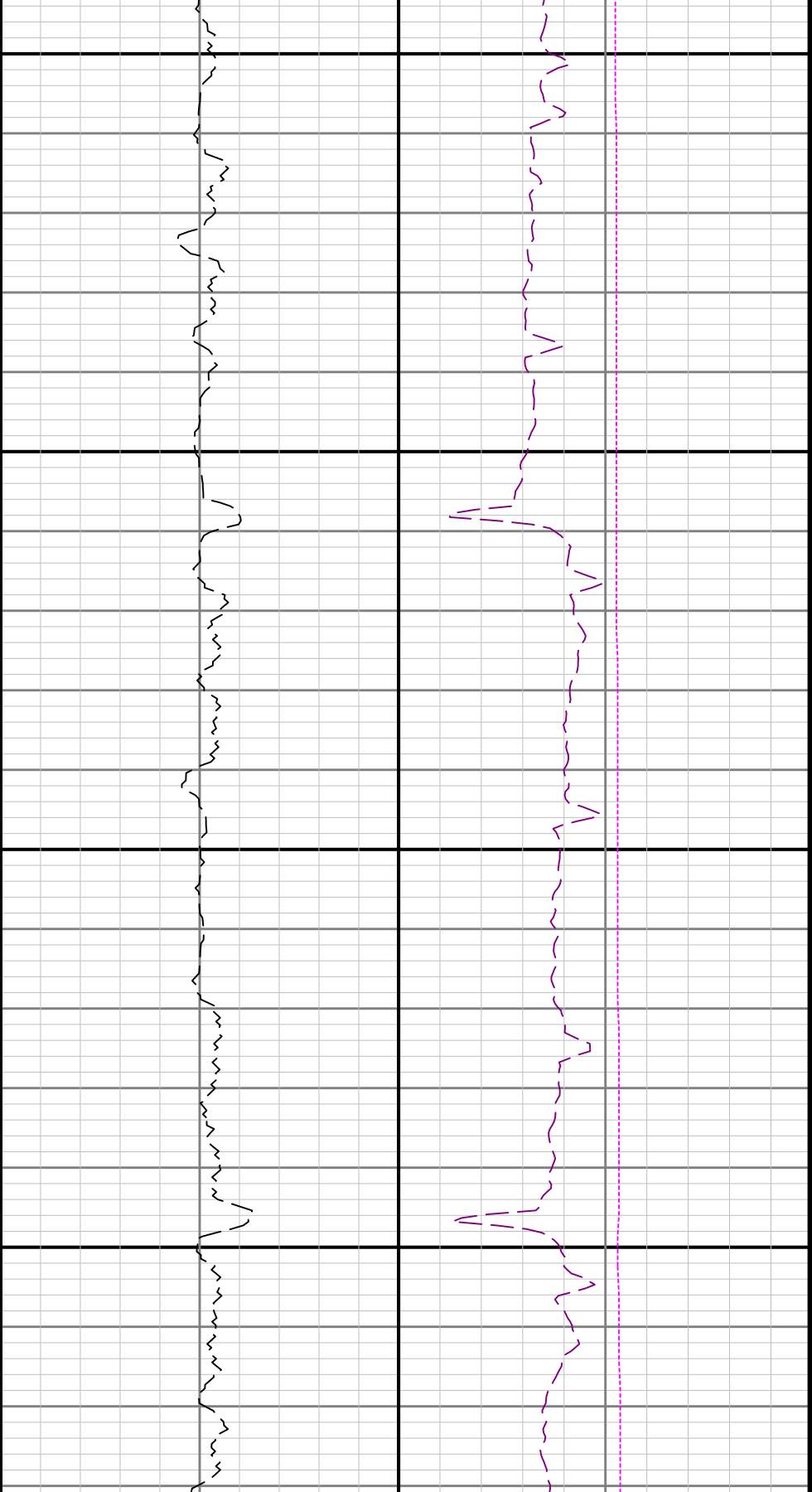




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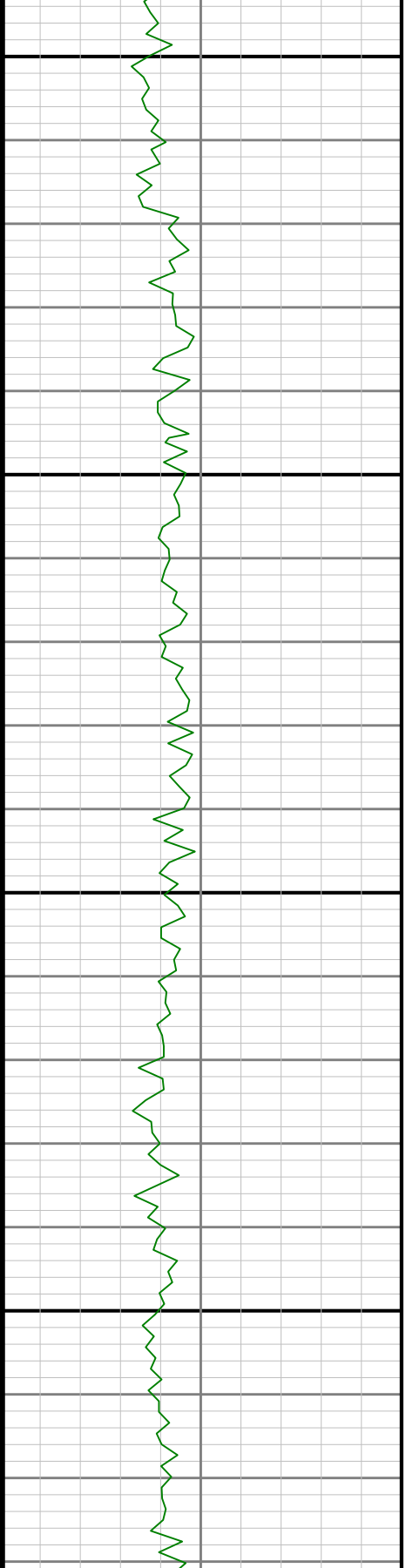
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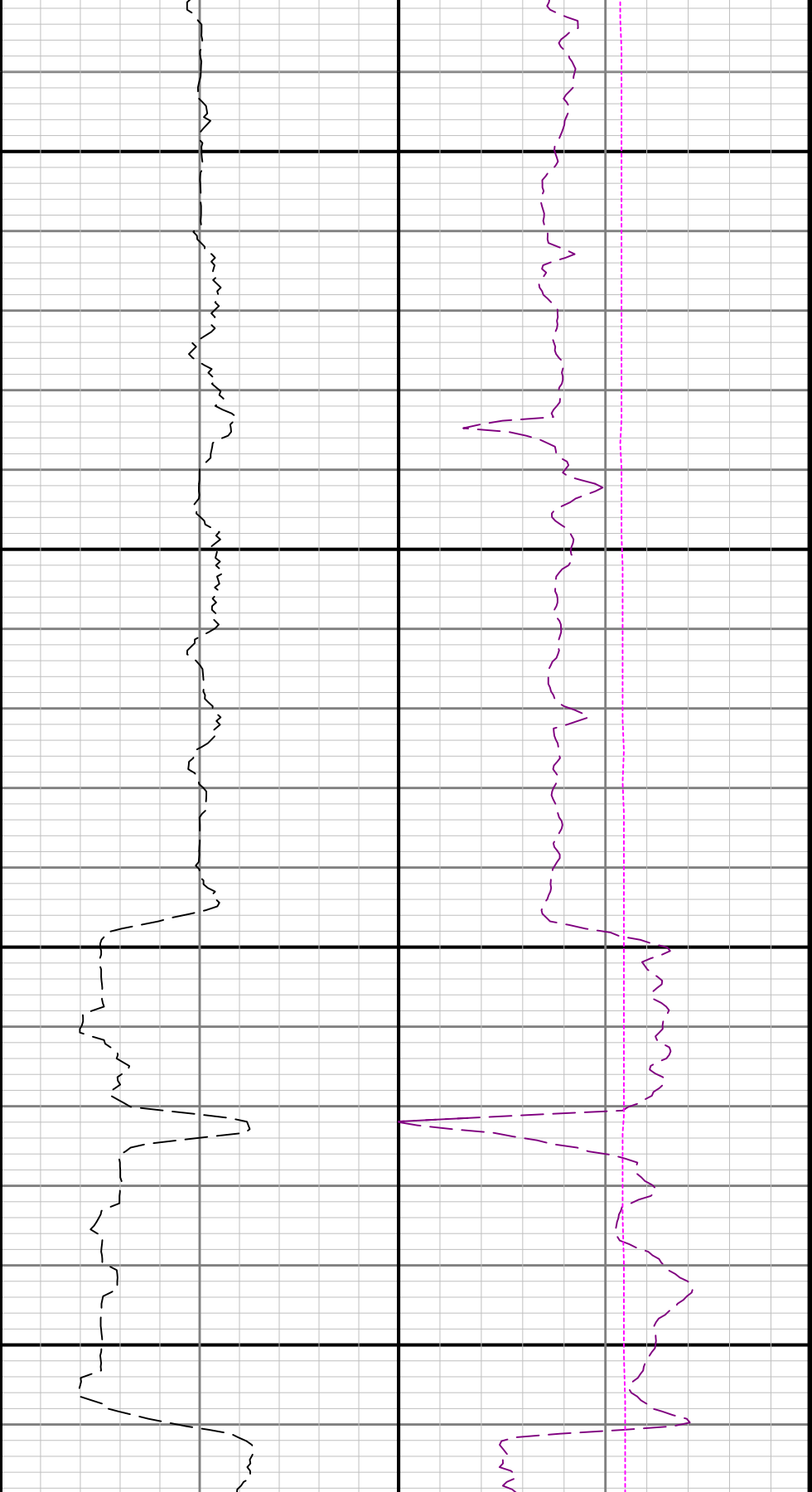




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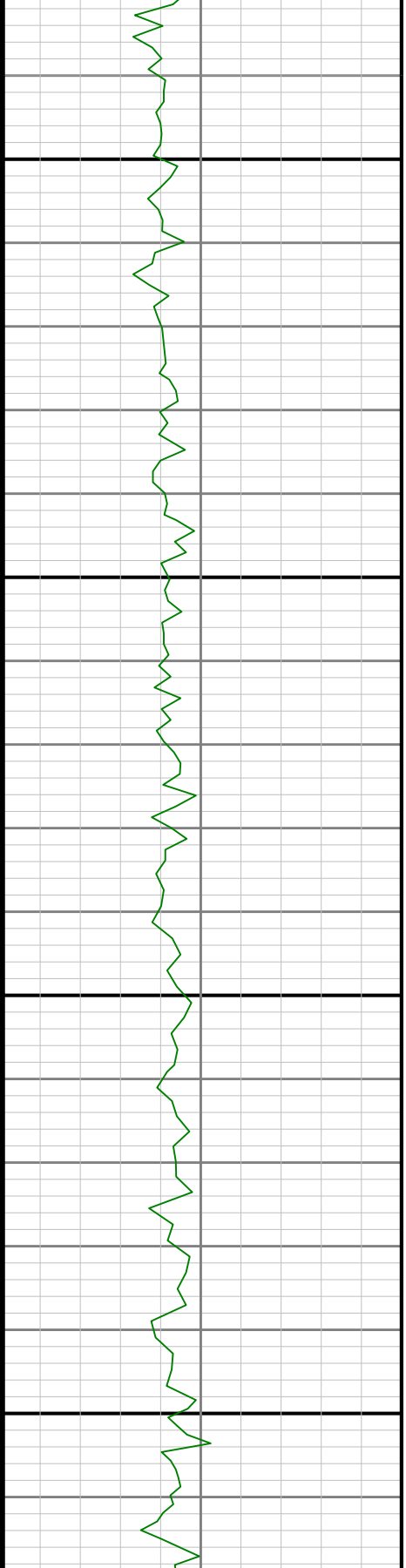
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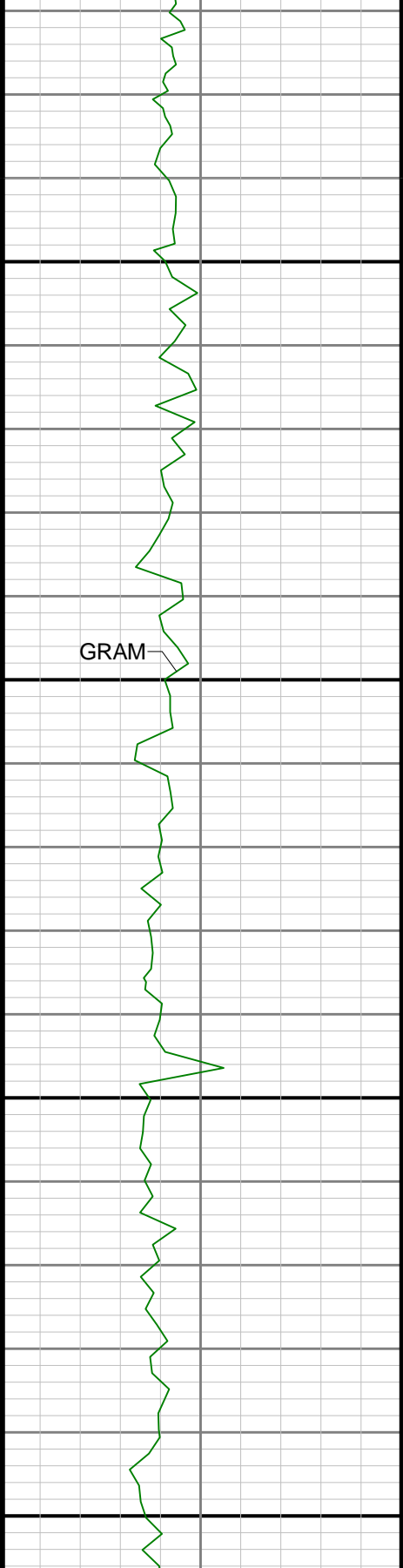




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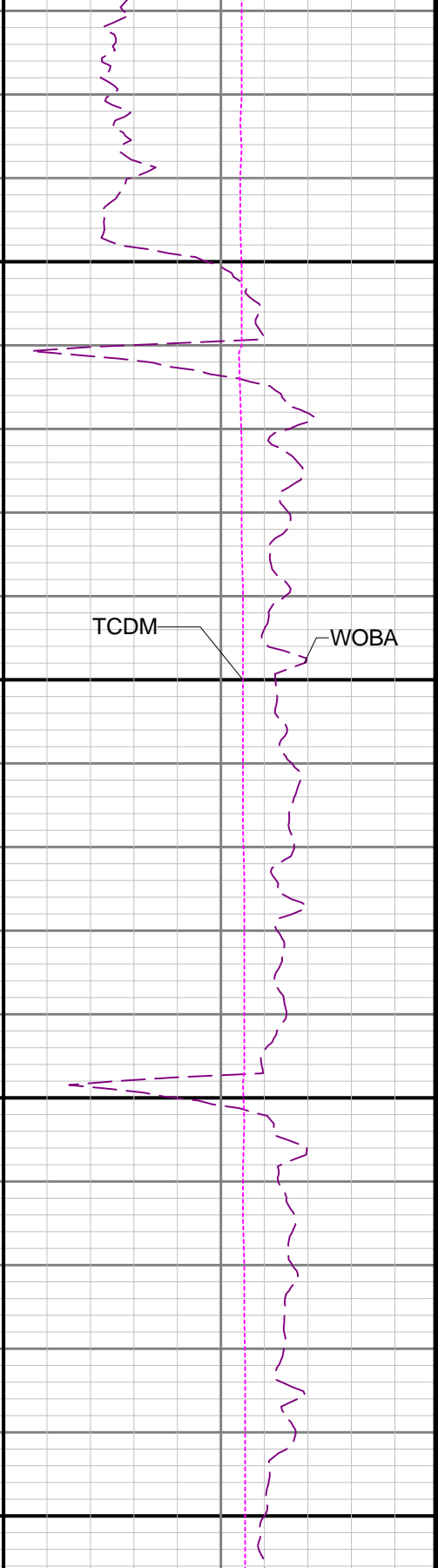
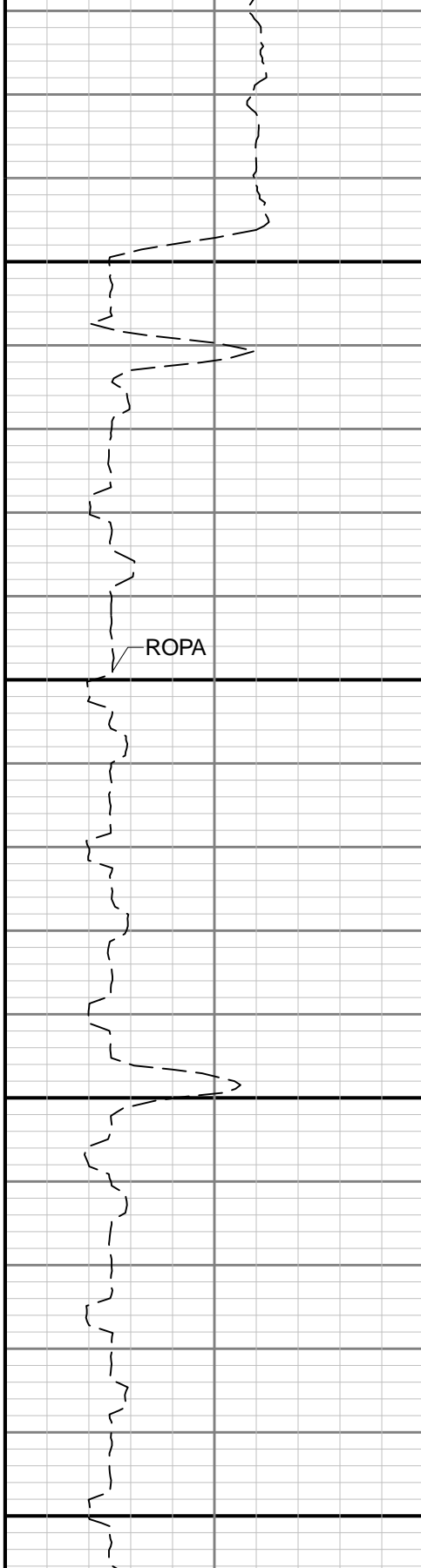
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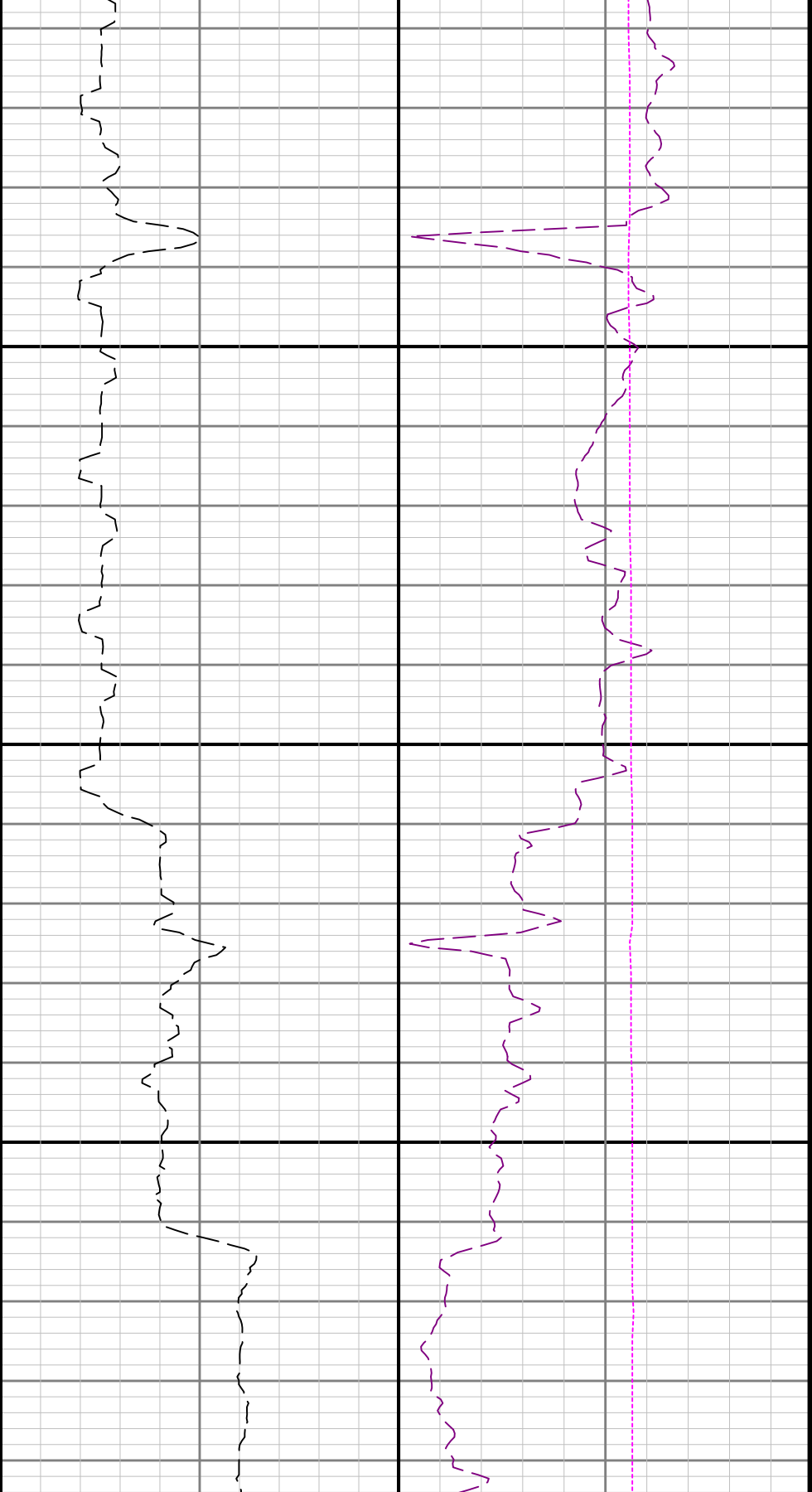




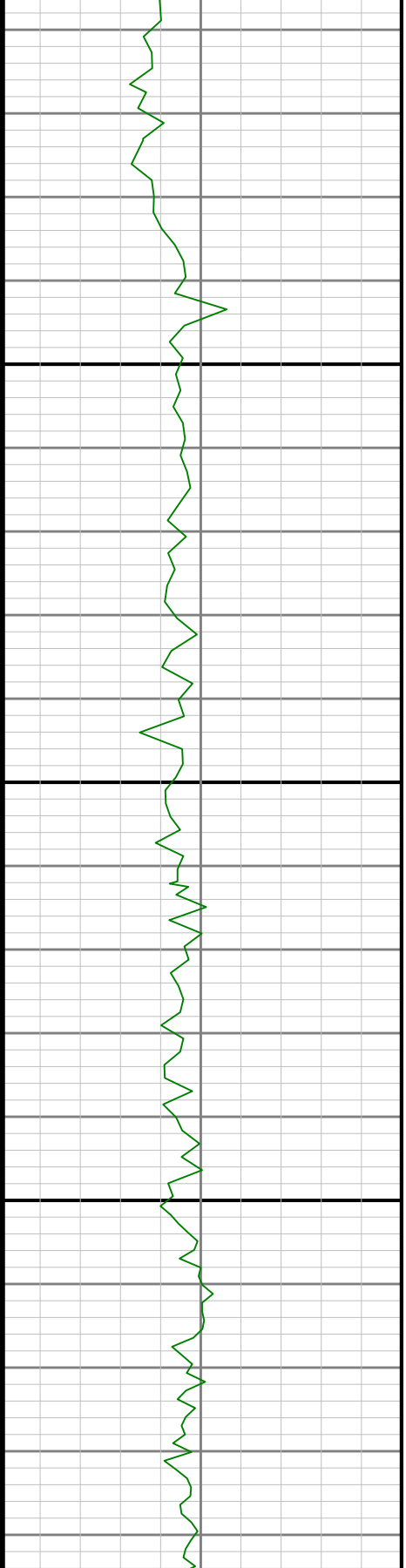
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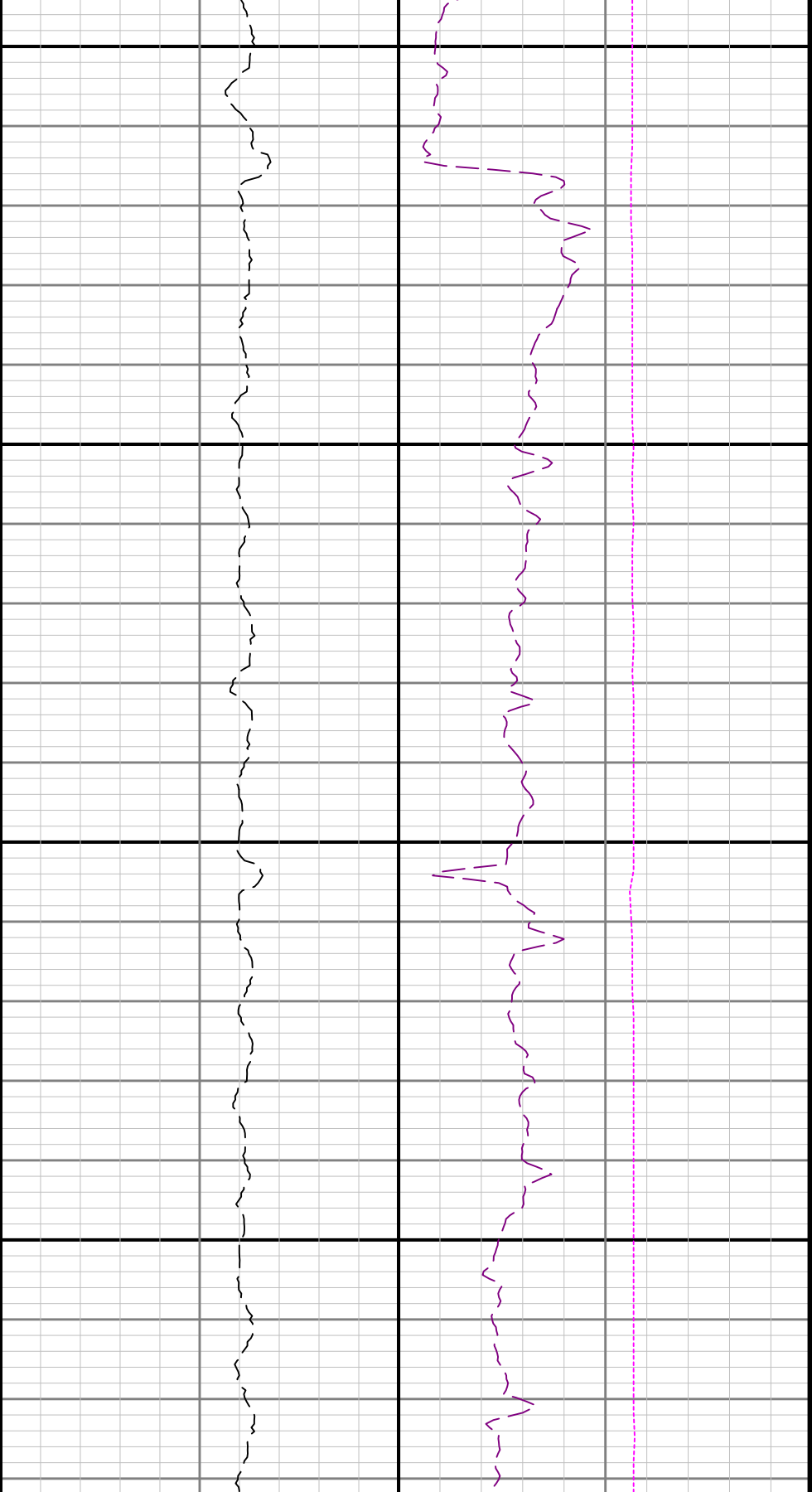
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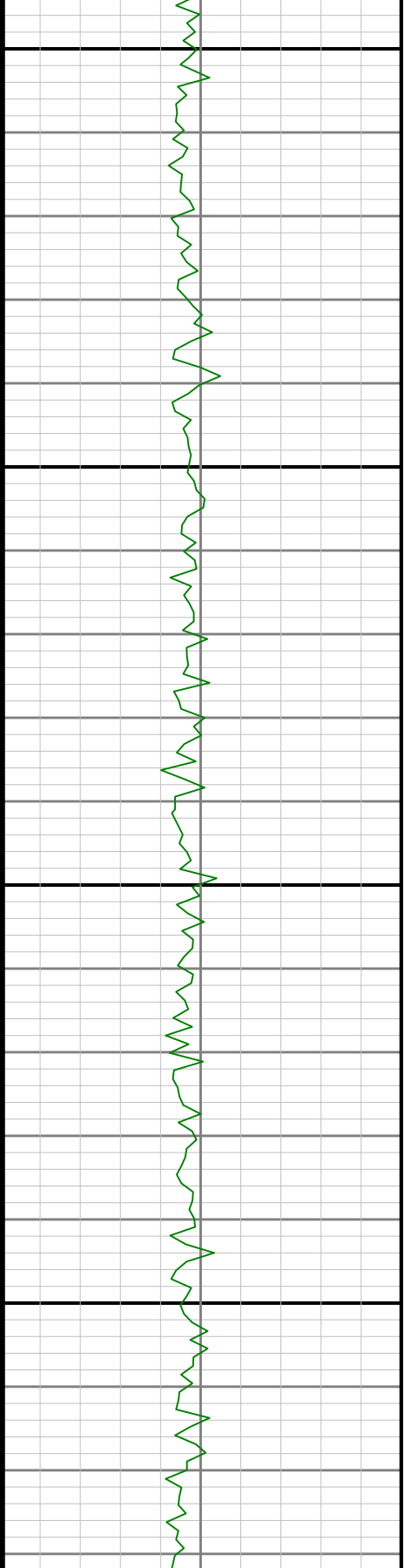
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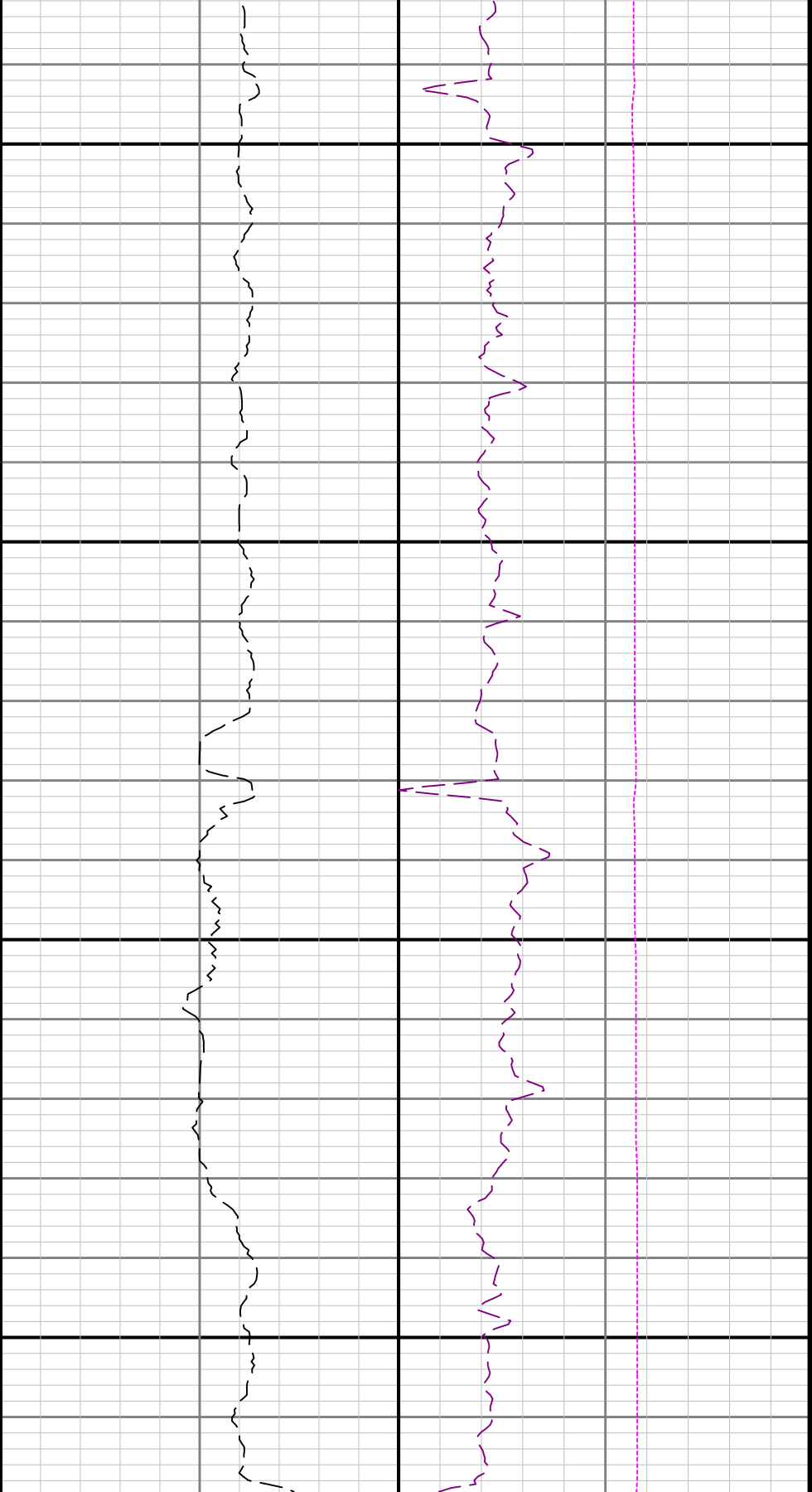




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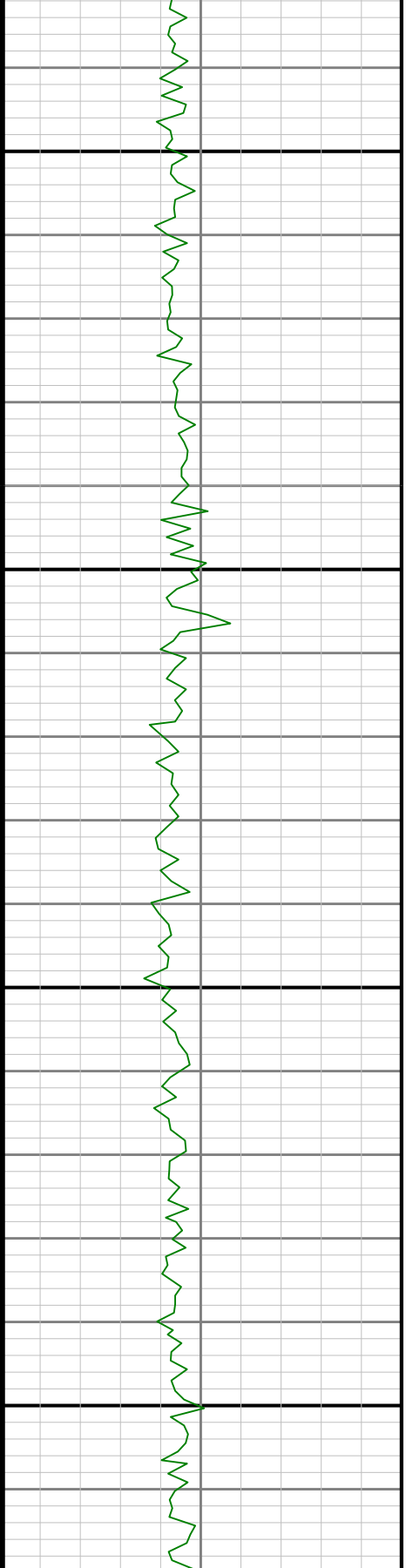
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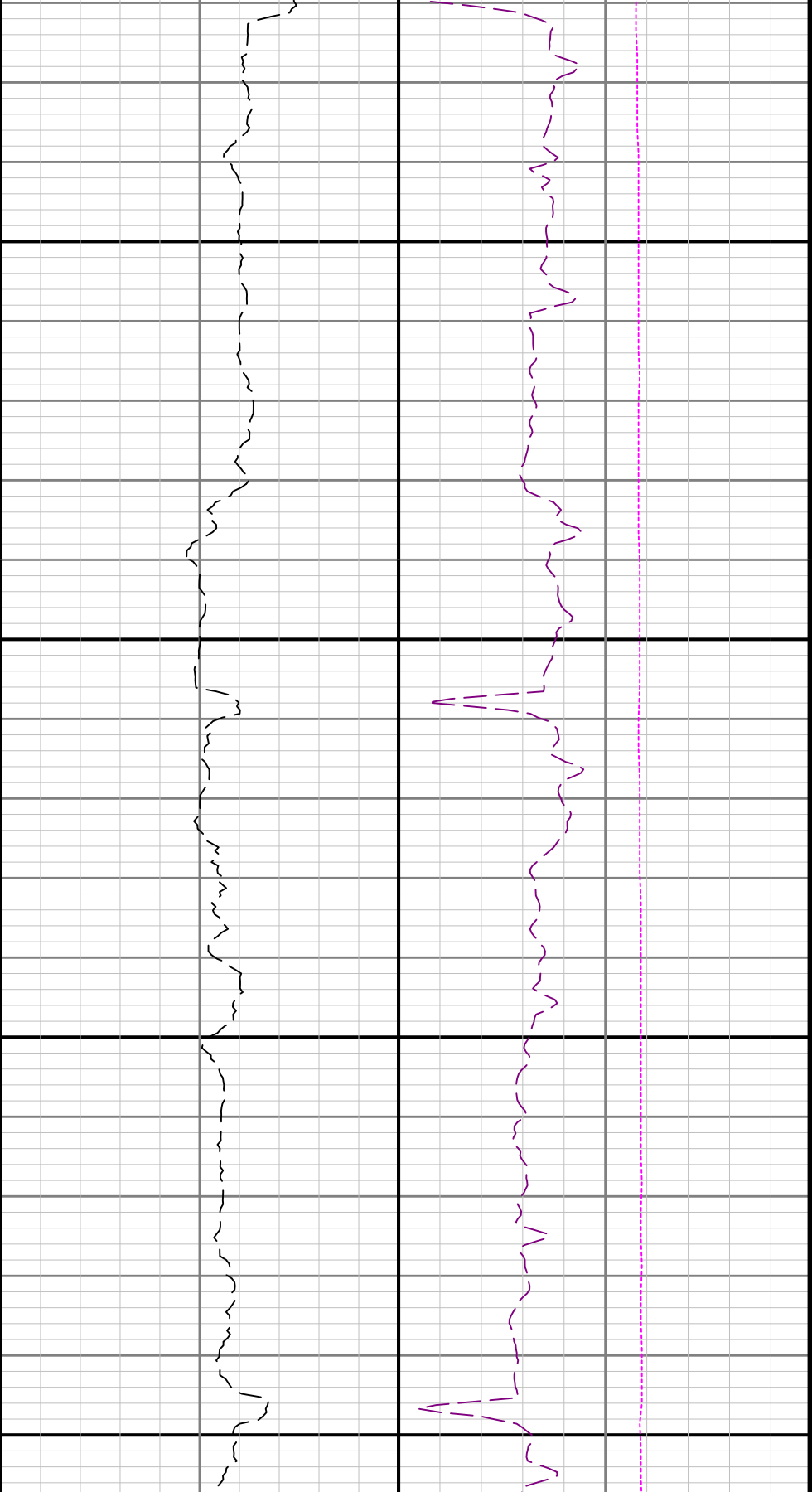




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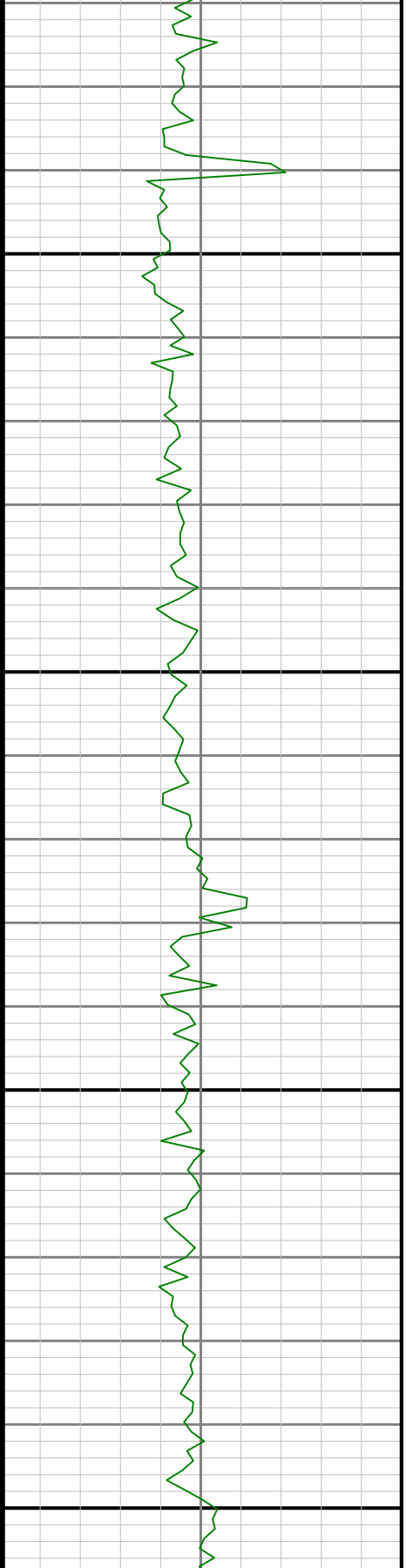
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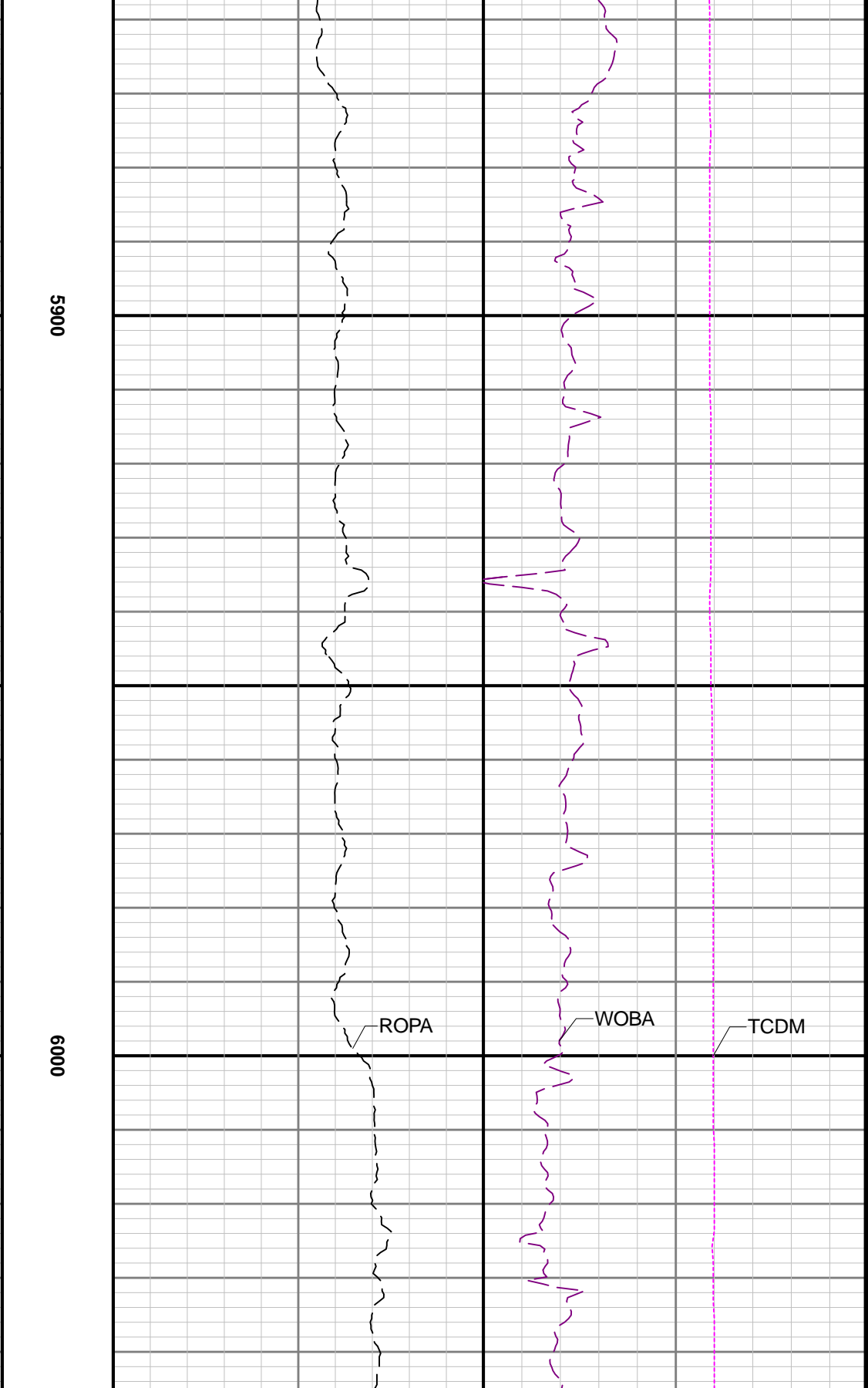


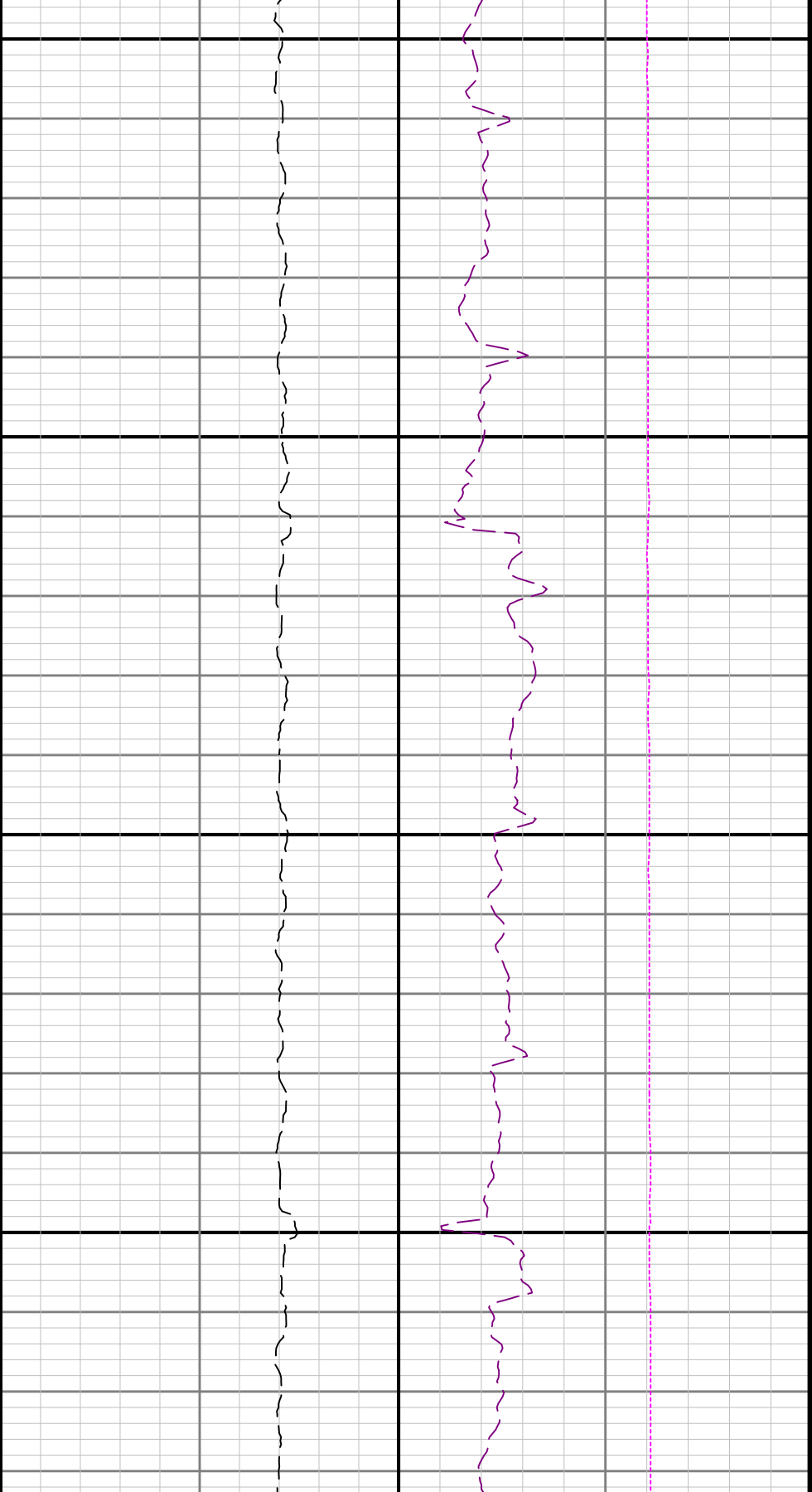


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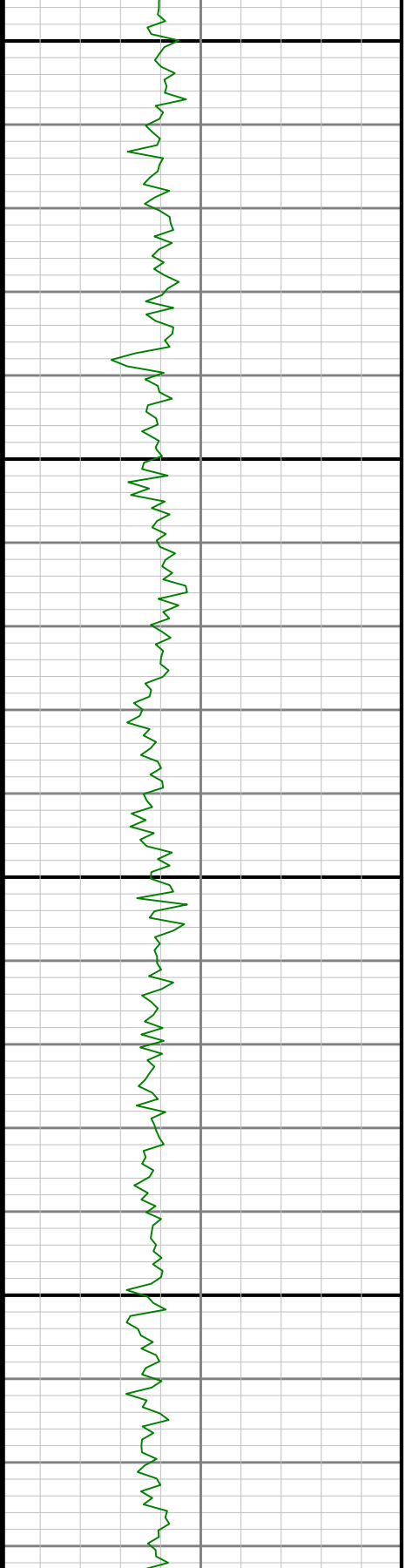


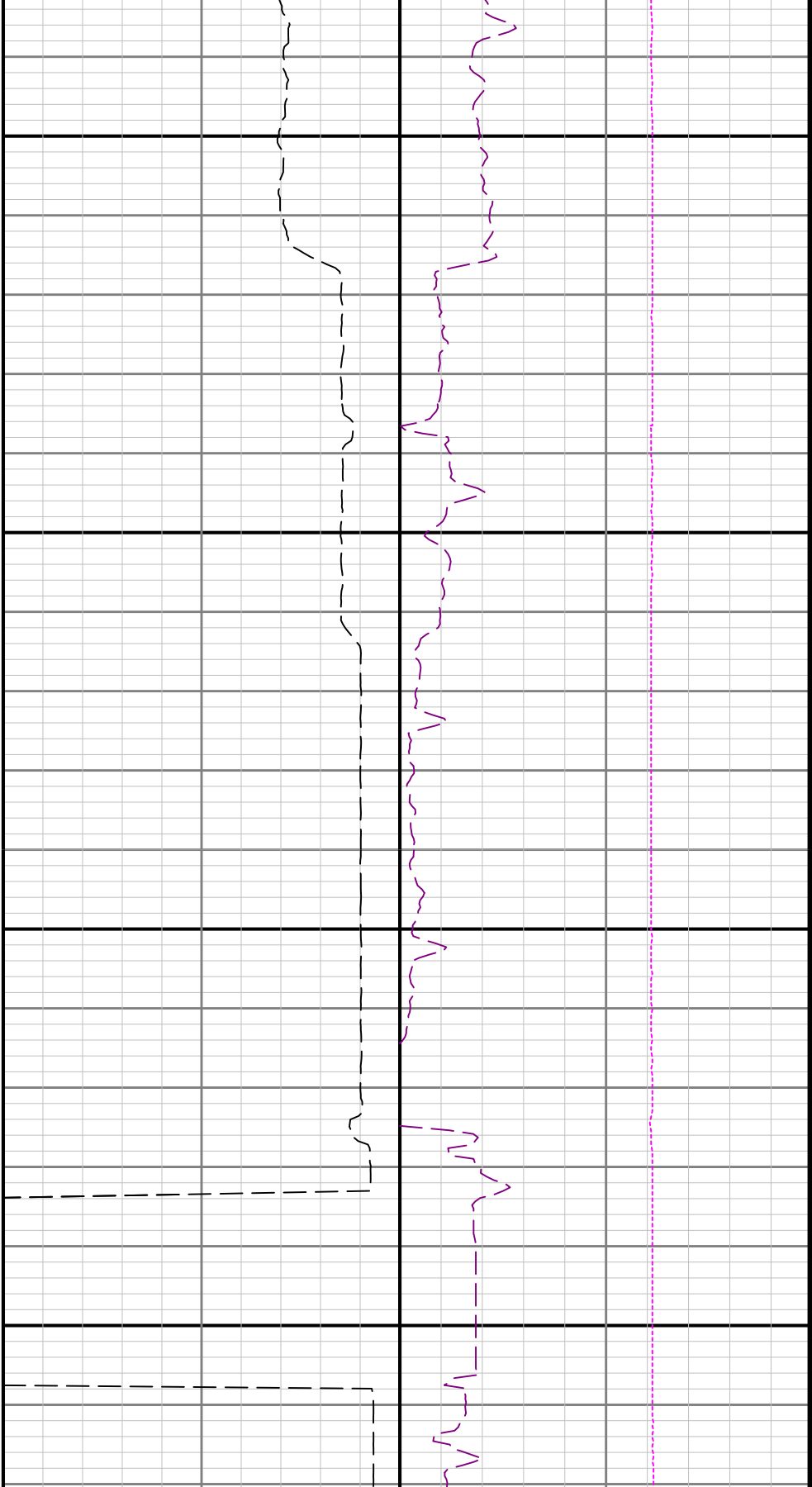




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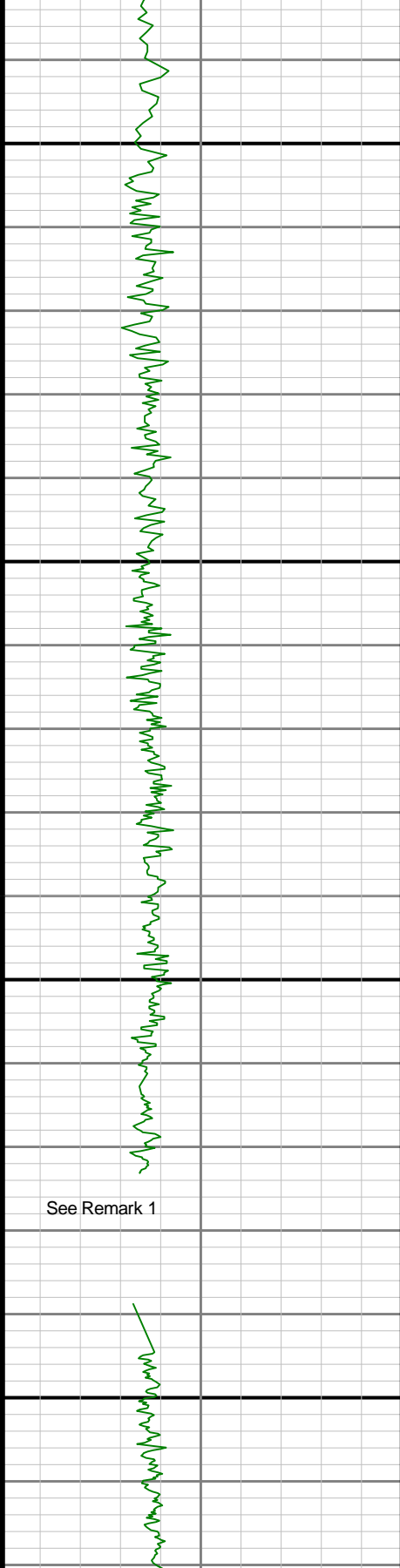
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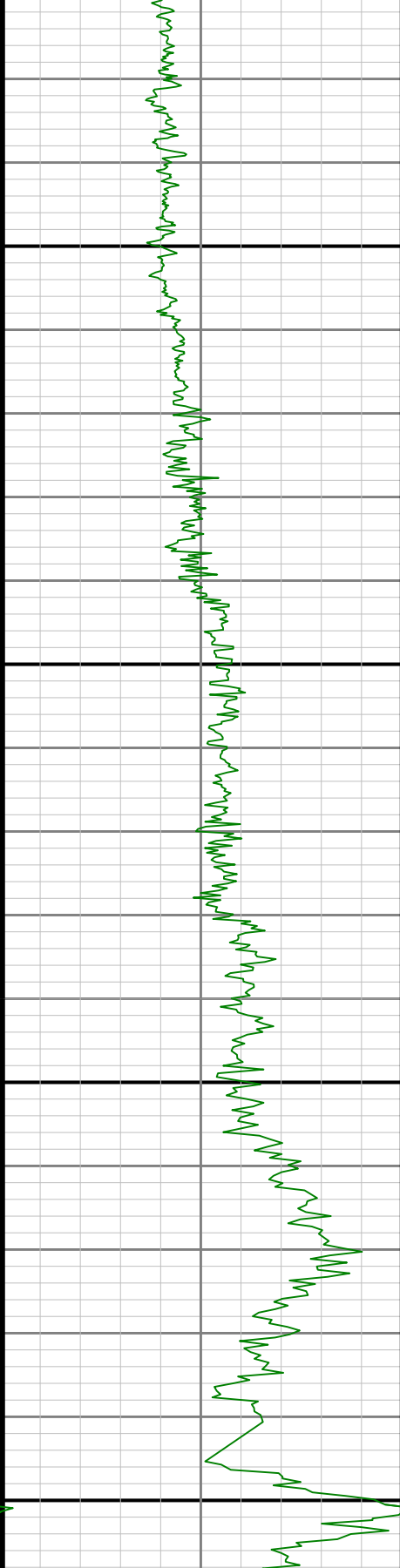


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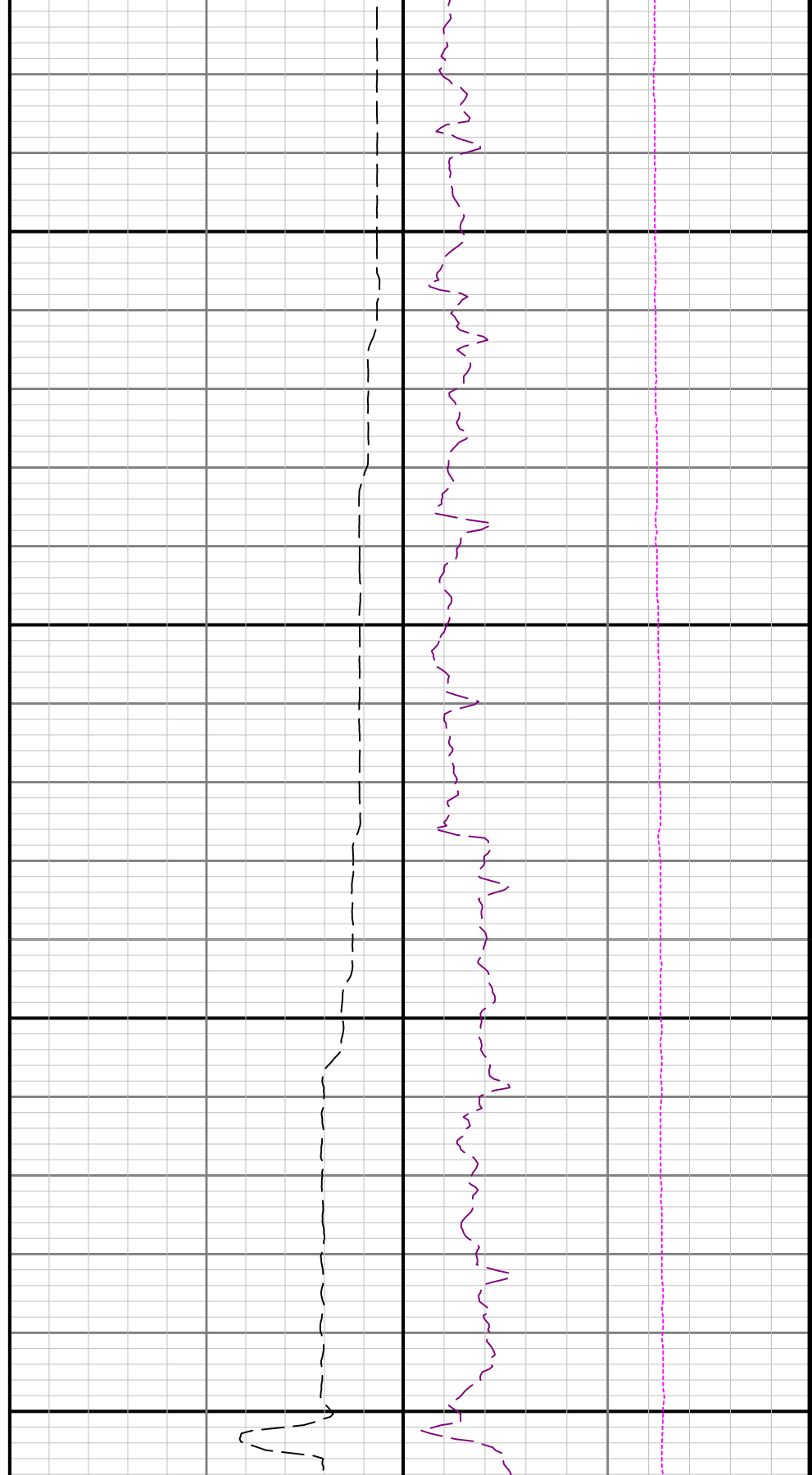


See Remark 1

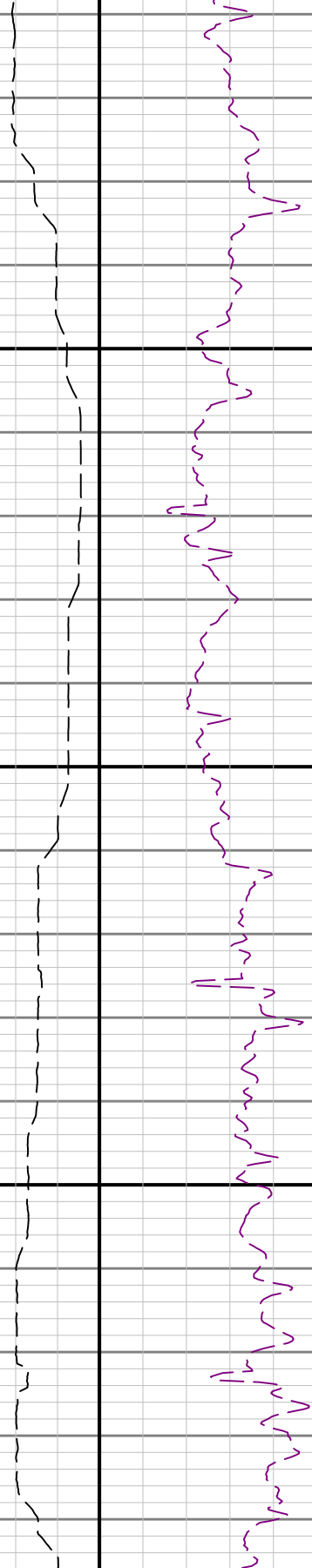
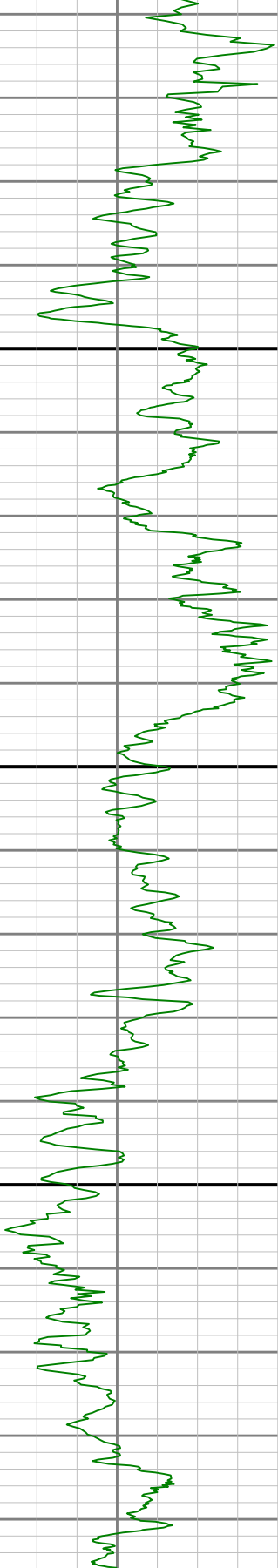


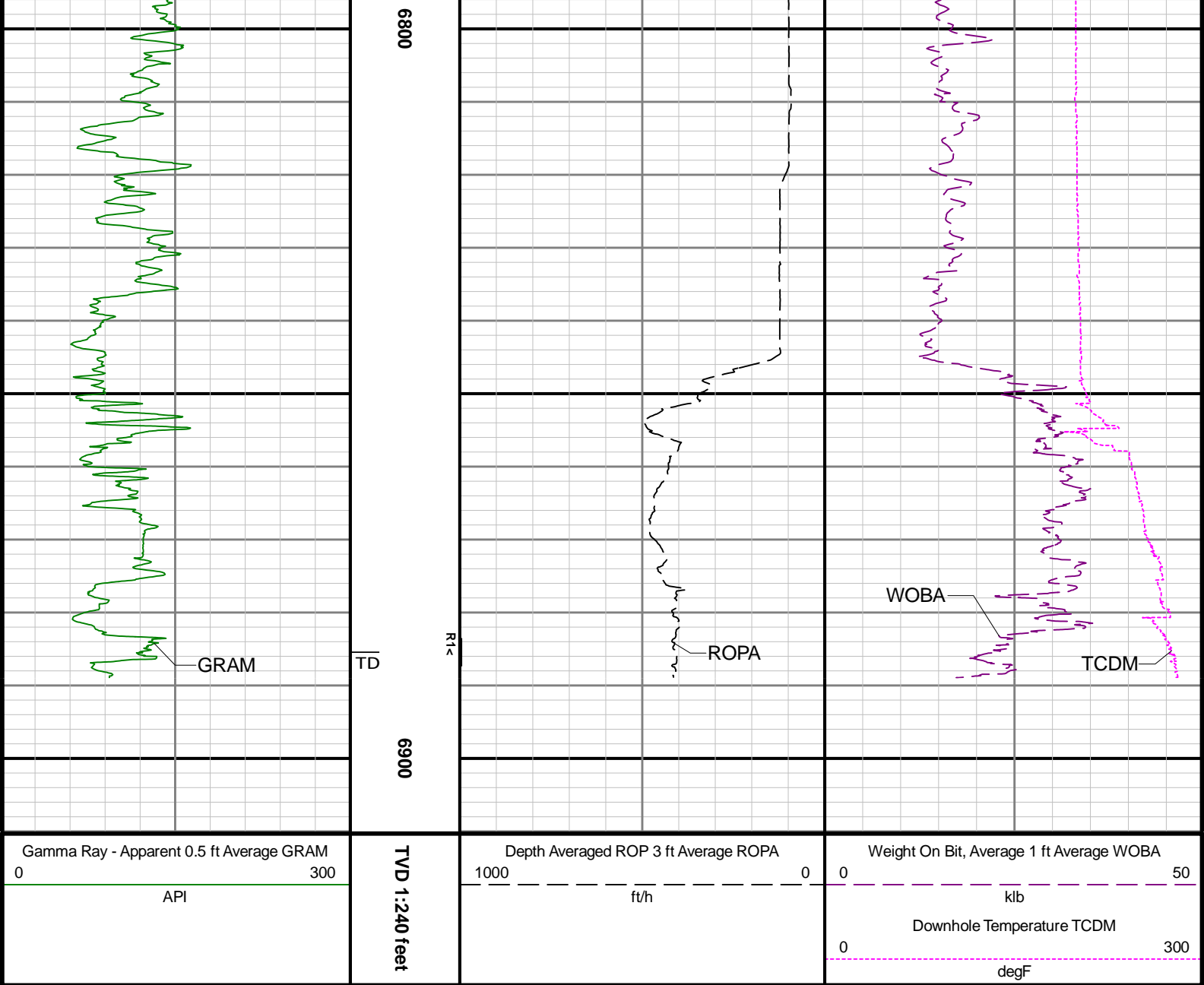
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6700





Directional Survey Summary

Latitude: 40° 27' 57.762" N		Longitude: 104° 33' 39.585" W	
North Reference: Grid		Drill Depth Zero: Rig Floor	
Vertical Datum is: Mean Sea Level		Vertical Datum to DDZ: (ft) 4757.00	
Vertical Section North: (ft) 0.00		Vertical Section East: (ft) 0.00	
Vertical Section Azimuth: (deg) 170.84			
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) 51905	
Local Magnetic Dip Angle: (deg) 66.79		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)
Tie-In	0.00	0.00	0.00	N/A	0.00	0.00	0.00	-4757.00	0.00	0.00	0.00	0.00	0.00
	78.00	0.45	36.15	N/A	0.25	0.18	78.00	-4679.00	-0.22	78.00	0.58	0.58	46.35
	171.00	0.72	64.72	N/A	0.79	0.92	170.99	-4586.01	-0.63	93.00	0.42	0.29	30.72

		262.00	0.64	61.69	N/A	1.28	1.89	261.99	-4495.01	-0.96	91.00	0.10	-0.09	-3.33
		325.00	0.74	55.88	N/A	1.67	2.54	324.98	-4432.02	-1.25	63.00	0.19	0.16	-9.22
		420.00	0.55	30.37	N/A	2.41	3.27	419.98	-4337.02	-1.86	95.00	0.36	-0.20	-26.85
		514.00	0.46	65.81	N/A	2.95	3.85	513.97	-4243.03	-2.30	94.00	0.34	-0.10	37.70
		609.00	0.29	98.20	N/A	3.08	4.43	608.97	-4148.03	-2.33	95.00	0.28	-0.18	34.09
		703.00	0.37	268.01	N/A	3.03	4.36	702.97	-4054.03	-2.30	94.00	0.70	0.09	180.65
		798.00	0.33	217.35	N/A	2.80	3.89	797.97	-3959.03	-2.15	95.00	0.32	-0.04	-53.33
		892.00	0.38	212.16	N/A	2.32	3.56	891.97	-3865.03	-1.73	94.00	0.06	0.05	-5.52
		987.00	0.40	285.00	N/A	2.14	3.07	986.97	-3770.03	-1.63	95.00	0.49	0.02	76.67
		1082.00	0.57	276.66	N/A	2.28	2.28	1081.96	-3675.04	-1.89	95.00	0.19	0.18	-8.78
		1176.00	0.38	272.00	N/A	2.35	1.51	1175.96	-3581.04	-2.08	94.00	0.21	-0.20	-4.96
		1271.00	0.48	310.19	N/A	2.62	0.89	1270.96	-3486.04	-2.44	95.00	0.31	0.11	40.20
		1365.00	0.58	309.53	N/A	3.17	0.22	1364.95	-3392.05	-3.10	94.00	0.11	0.11	-0.70
		1460.00	0.54	343.65	N/A	3.91	-0.28	1459.95	-3297.05	-3.90	95.00	0.35	-0.04	35.92
		1554.00	0.80	351.37	N/A	4.98	-0.50	1553.94	-3203.06	-5.00	94.00	0.29	0.28	8.21
		1649.00	1.23	12.23	N/A	6.63	-0.38	1648.93	-3108.07	-6.61	95.00	0.59	0.45	21.96
		1743.00	1.47	30.84	N/A	8.66	0.45	1742.90	-3014.10	-8.47	94.00	0.53	0.26	19.80
		1838.00	1.72	45.04	N/A	10.71	2.08	1837.87	-2919.13	-10.24	95.00	0.49	0.26	14.95
		1928.00	1.87	50.52	N/A	12.60	4.17	1927.82	-2829.18	-11.77	90.00	0.25	0.17	6.09
		1993.00	1.04	59.81	117.6	13.57	5.50	1992.80	-2764.20	-12.52	65.00	1.32	-1.28	14.29
		2087.00	1.40	113.86	123.0	13.53	7.29	2086.78	-2670.22	-12.20	94.00	1.23	0.38	57.50
		2182.00	3.66	111.52	125.7	11.95	11.17	2181.68	-2575.32	-10.02	95.00	2.38	2.38	-2.46
		2277.00	6.16	111.50	128.4	8.97	18.74	2276.33	-2480.67	-5.87	95.00	2.63	2.63	-0.02
		2371.00	10.18	111.77	128.4	4.04	31.15	2369.35	-2387.65	0.97	94.00	4.28	4.28	0.29
		2466.00	14.42	111.14	131.1	-3.34	49.99	2462.15	-2294.85	11.26	95.00	4.47	4.46	-0.66
		2560.00	18.25	110.92	133.8	-12.82	74.66	2552.34	-2204.66	24.55	94.00	4.07	4.07	-0.23
		2655.00	21.05	109.62	133.8	-23.87	104.63	2641.80	-2115.20	40.22	95.00	2.98	2.95	-1.37
		2750.00	20.33	108.67	136.5	-34.88	136.34	2730.67	-2026.33	56.14	95.00	0.84	-0.76	-1.00
		2844.00	21.05	108.12	136.5	-45.36	167.85	2818.61	-1938.39	71.50	94.00	0.79	0.77	-0.59
		2939.00	21.15	107.15	139.2	-55.72	200.44	2907.24	-1849.76	86.91	95.00	0.38	0.11	-1.02
		3033.00	20.20	108.53	139.2	-65.87	232.04	2995.19	-1761.81	101.97	94.00	1.14	-1.01	1.47
		3128.00	21.15	106.42	139.2	-75.93	264.03	3084.07	-1672.93	116.99	95.00	1.27	1.00	-2.22
		3223.00	20.79	109.13	141.9	-86.30	296.40	3172.78	-1584.22	132.39	95.00	1.09	-0.38	2.85
		3318.00	18.95	109.05	141.9	-96.86	326.91	3262.12	-1494.88	147.67	95.00	1.94	-1.94	-0.08
		3412.00	18.81	108.48	144.6	-106.65	355.71	3351.06	-1405.94	161.91	94.00	0.25	-0.15	-0.61
		3601.00	20.76	107.55	144.6	-126.41	416.55	3528.90	-1228.10	191.11	189.00	1.05	1.03	-0.49
		3696.00	21.07	107.38	144.6	-136.59	448.90	3617.64	-1139.36	206.31	95.00	0.33	0.33	-0.18
		3790.00	21.18	107.61	144.6	-146.77	481.21	3705.32	-1051.68	221.50	94.00	0.15	0.12	0.24
		3885.00	21.24	107.70	147.3	-157.19	513.96	3793.88	-963.12	237.01	95.00	0.07	0.06	0.09
		3980.00	21.50	107.16	147.3	-167.56	546.99	3882.35	-874.65	252.50	95.00	0.34	0.27	-0.57
		4075.00	21.40	107.37	147.3	-177.87	580.16	3970.77	-786.23	267.96	95.00	0.13	-0.11	0.22
		4169.00	21.31	107.47	150.0	-188.12	612.82	4058.32	-698.68	283.28	94.00	0.10	-0.10	0.11
		4264.00	21.29	107.44	152.7	-198.47	645.74	4146.83	-610.17	298.74	95.00	0.02	-0.02	-0.03
		4358.00	21.46	107.43	152.7	-208.74	678.43	4234.36	-522.64	314.08	94.00	0.18	0.18	-0.01
		4453.00	21.40	107.15	155.4	-219.05	711.57	4322.80	-434.20	329.54	95.00	0.12	-0.06	-0.29
		4547.00	21.58	107.25	155.4	-229.24	744.47	4410.26	-346.74	344.83	94.00	0.20	0.19	0.11
		4642.00	21.31	107.77	155.4	-239.69	777.59	4498.68	-258.32	360.41	95.00	0.35	-0.28	0.55
		4736.00	21.11	107.23	158.1	-249.91	810.02	4586.32	-170.68	375.67	94.00	0.30	-0.21	-0.57
		4925.00	21.44	106.87	160.8	-270.02	875.59	4762.44	5.44	405.96	189.00	0.19	0.17	-0.19
		5020.00	21.15	107.51	163.5	-280.21	908.55	4850.95	93.95	421.27	95.00	0.39	-0.31	0.67
		5114.00	20.79	108.47	163.5	-290.60	940.54	4938.72	181.72	436.62	94.00	0.53	-0.38	1.02
		5208.00	22.09	108.62	166.2	-301.53	973.12	5026.22	269.22	452.60	94.00	1.38	1.38	0.16
		5303.00	21.92	108.46	168.9	-312.85	1006.86	5114.30	357.30	469.14	95.00	0.19	-0.18	-0.17
		5398.00	18.99	111.46	168.9	-324.12	1038.08	5203.30	446.30	485.24	95.00	3.27	-3.08	3.16
		5493.00	18.64	112.92	168.9	-335.69	1066.45	5293.22	536.22	501.18	95.00	0.62	-0.37	1.54
		5587.00	19.50	111.11	168.9	-347.19	1094.92	5382.06	625.06	517.06	94.00	1.11	0.91	-1.93
		5682.00	20.81	110.00	168.9	-358.67	1125.57	5471.25	714.25	533.28	95.00	1.44	1.38	-1.17
		5777.00	21.58	106.87	171.6	-369.51	1158.15	5559.82	802.82	549.17	95.00	1.44	0.81	-3.29
		5871.00	20.91	106.32	171.6	-379.24	1190.79	5647.43	890.43	563.97	94.00	0.74	-0.71	-0.59
		5966.00	21.35	103.79	174.3	-388.13	1223.85	5736.05	979.05	578.01	95.00	1.07	0.46	-2.66
		6060.00	20.74	104.30	177.0	-396.32	1256.60	5823.78	1066.78	591.31	94.00	0.68	-0.65	0.54
		6155.00	20.20	105.04	177.0	-404.73	1288.74	5912.78	1155.78	604.73	95.00	0.63	-0.57	0.78

	6249.00	19.56	107.59	179.7	-413.70	1319.41	6001.18	1244.18	618.46	94.00	1.15	-0.68	2.71
	6344.00	21.14	107.07	179.7	-423.53	1350.95	6090.25	1333.25	633.19	95.00	1.67	1.66	-0.55
	6439.00	21.51	107.42	182.5	-433.78	1383.95	6178.74	1421.74	648.56	95.00	0.41	0.39	0.37
	6533.00	21.62	107.16	182.5	-444.04	1416.93	6266.16	1509.16	663.95	94.00	0.16	0.12	-0.28
	6628.00	24.44	120.58	182.5	-459.22	1450.61	6353.64	1596.64	684.29	95.00	6.26	2.97	14.13
	6722.00	30.02	134.58	182.5	-485.66	1484.16	6437.28	1680.28	715.74	94.00	9.00	5.94	14.89
	6817.00	37.77	140.65	187.9	-524.91	1519.59	6516.10	1759.10	760.13	95.00	8.89	8.16	6.39
	6911.00	44.12	147.88	190.6	-574.97	1555.30	6587.10	1830.10	815.23	94.00	8.42	6.76	7.69
	7006.00	47.55	159.49	190.6	-635.92	1585.22	6653.40	1896.40	880.17	95.00	9.47	3.61	12.22
	7100.00	54.76	167.32	193.3	-706.01	1605.85	6712.37	1955.37	952.65	94.00	10.04	7.67	8.33
	7195.00	62.16	171.14	196.0	-785.50	1620.86	6762.04	2005.04	1033.51	95.00	8.51	7.79	4.02
	7289.00	68.96	174.38	198.7	-870.33	1631.57	6800.92	2043.92	1118.97	94.00	7.88	7.23	3.45
	7384.00	76.96	177.41	198.7	-960.85	1638.01	6828.74	2071.74	1209.35	95.00	8.96	8.42	3.19
	7479.00	85.07	180.37	201.4	-1054.58	1639.80	6843.57	2086.57	1302.17	95.00	9.07	8.54	3.12
	7573.00	89.54	179.82	204.1	-1148.45	1639.65	6847.99	2090.99	1394.82	94.00	4.79	4.76	-0.59
	7668.00	88.83	179.83	206.8	-1243.44	1639.94	6849.34	2092.34	1488.65	95.00	0.75	-0.75	0.01
	7762.00	89.88	180.21	206.8	-1337.43	1639.91	6850.40	2093.40	1581.44	94.00	1.19	1.12	0.40
	7857.00	89.29	179.43	198.7	-1432.43	1640.20	6851.09	2094.09	1675.27	95.00	1.03	-0.62	-0.82
	7952.00	89.69	180.27	209.5	-1527.42	1640.45	6851.93	2094.93	1769.09	95.00	0.98	0.42	0.88
	8046.00	89.63	179.97	212.2	-1621.42	1640.26	6852.49	2095.49	1861.86	94.00	0.33	-0.06	-0.32
	8141.00	89.94	180.15	212.2	-1716.42	1640.16	6852.85	2095.85	1955.63	95.00	0.38	0.33	0.19
	8236.00	89.78	180.56	214.9	-1811.42	1639.57	6853.08	2096.08	2049.32	95.00	0.46	-0.17	0.43
	8331.00	89.91	180.37	217.6	-1906.41	1638.80	6853.34	2096.34	2142.98	95.00	0.24	0.14	-0.20
	8425.00	89.82	180.05	220.3	-2000.41	1638.45	6853.56	2096.56	2235.73	94.00	0.35	-0.10	-0.34
	8519.00	89.78	178.85	220.3	-2094.41	1639.35	6853.89	2096.89	2328.67	94.00	1.28	-0.04	-1.28
	8613.00	89.75	176.15	223.0	-2188.31	1643.45	6854.27	2097.27	2422.02	94.00	2.87	-0.03	-2.87
	8708.00	90.28	179.58	225.7	-2283.23	1646.99	6854.25	2097.25	2516.30	95.00	3.65	0.56	3.61
	8803.00	89.69	178.51	228.4	-2378.21	1648.58	6854.27	2097.27	2610.32	95.00	1.29	-0.62	-1.13
	8897.00	89.88	179.44	231.1	-2472.19	1650.26	6854.62	2097.62	2703.38	94.00	1.01	0.20	0.99
	8992.00	89.72	179.31	204.1	-2567.19	1651.29	6854.96	2097.96	2797.32	95.00	0.22	-0.17	-0.14
	9086.00	89.88	178.44	198.7	-2661.17	1653.14	6855.28	2098.28	2890.40	94.00	0.94	0.17	-0.93
	9181.00	89.63	179.21	206.8	-2756.15	1655.09	6855.69	2098.69	2984.48	95.00	0.85	-0.26	0.81
	9275.00	89.45	178.78	212.2	-2850.13	1656.74	6856.45	2099.45	3077.52	94.00	0.50	-0.19	-0.46
	9370.00	89.91	179.59	217.6	-2945.12	1658.09	6856.98	2099.98	3171.51	95.00	0.98	0.48	0.85
	9465.00	89.94	178.63	220.3	-3040.10	1659.56	6857.10	2100.10	3265.52	95.00	1.01	0.03	-1.01
	9559.00	90.74	179.24	223.0	-3134.08	1661.31	6856.54	2099.54	3358.59	94.00	1.07	0.85	0.65
	9654.00	89.54	179.33	225.7	-3229.08	1662.50	6856.31	2099.31	3452.55	95.00	1.27	-1.26	0.09
	9749.00	89.23	179.16	228.4	-3324.06	1663.75	6857.33	2100.33	3546.53	95.00	0.37	-0.33	-0.18
	9843.00	90.15	179.63	231.1	-3418.05	1664.74	6857.84	2100.84	3639.48	94.00	1.10	0.98	0.50
	9938.00	90.06	179.87	233.8	-3513.05	1665.15	6857.66	2100.66	3733.33	95.00	0.27	-0.09	0.25
	10032.00	90.00	179.95	236.5	-3607.05	1665.30	6857.62	2100.62	3826.16	94.00	0.11	-0.06	0.09
	10127.00	90.43	179.90	N/A	-3702.05	1665.43	6857.26	2100.26	3919.96	95.00	0.46	0.45	-0.05
	10221.00	89.88	179.28	239.2	-3796.05	1666.10	6857.00	2100.00	4012.87	94.00	0.88	-0.59	-0.66
	10316.00	88.89	179.06	239.2	-3891.03	1667.48	6858.02	2101.02	4106.86	95.00	1.07	-1.04	-0.23
	10411.00	88.98	179.85	241.9	-3986.01	1668.38	6859.79	2102.79	4200.77	95.00	0.84	0.09	0.83
	10505.00	90.03	179.64	244.6	-4080.00	1668.80	6860.60	2103.60	4293.63	94.00	1.14	1.12	-0.22
	10600.00	89.35	179.77	244.6	-4175.00	1669.29	6861.12	2104.12	4387.50	95.00	0.73	-0.72	0.14
	10695.00	89.32	179.80	247.3	-4269.99	1669.64	6862.22	2105.22	4481.33	95.00	0.04	-0.03	0.03
	10789.00	89.14	179.90	247.3	-4363.98	1669.89	6863.48	2106.48	4574.17	94.00	0.22	-0.19	0.11
	10884.00	89.51	180.66	250.0	-4458.98	1669.42	6864.60	2107.60	4667.87	95.00	0.89	0.39	0.80
	10979.00	89.82	179.27	250.0	-4553.97	1669.48	6865.16	2108.16	4761.67	95.00	1.50	0.33	-1.46
	11073.00	88.55	180.73	250.0	-4647.96	1669.48	6866.49	2109.49	4854.45	94.00	2.06	-1.35	1.55
	11167.00	88.98	179.86	252.7	-4741.93	1669.00	6868.52	2111.52	4947.15	94.00	1.03	0.46	-0.93
	11262.00	89.82	180.29	252.7	-4836.93	1668.87	6869.51	2112.51	5040.92	95.00	0.99	0.88	0.45
	11357.00	89.78	179.91	255.4	-4931.93	1668.71	6869.85	2112.85	5134.68	95.00	0.40	-0.04	-0.40
	11451.00	89.82	180.02	255.4	-5025.93	1668.77	6870.17	2113.17	5227.49	94.00	0.12	0.04	0.12
	11546.00	89.78	179.89	255.4	-5120.93	1668.84	6870.51	2113.51	5321.29	95.00	0.14	-0.04	-0.14
	11640.00	89.78	179.80	258.1	-5214.92	1669.10	6870.87	2113.87	5414.13	94.00	0.10	0.00	-0.10
	11735.00	89.82	179.65	258.1	-5309.92	1669.55	6871.20	2114.20	5507.99	95.00	0.16	0.04	-0.16
	11830.00	89.75	179.62	258.1	-5404.92	1670.16	6871.56	2114.56	5601.87	95.00	0.08	-0.07	-0.03
	11924.00	89.88	179.45	258.1	-5498.92	1670.92	6871.86	2114.86	5694.79	94.00	0.23	0.14	-0.18
	12019.00	89.85	179.65	260.8	-5593.91	1671.67	6872.08	2115.08	5788.69	95.00	0.21	-0.03	0.21
	12113.00	89.94	179.07	260.8	-5687.91	1672.72	6872.25	2115.25	5881.66	94.00	0.62	0.10	-0.62

	12207.00	90.03	179.70	260.8	-5781.90	1673.72	6872.28	2115.28	5974.61	94.00	0.68	0.10	0.67
	12302.00	90.18	179.37	260.8	-5876.90	1674.50	6872.11	2115.11	6068.52	95.00	0.38	0.16	-0.35
	12397.00	90.15	179.23	263.5	-5971.89	1675.66	6871.83	2114.83	6162.49	95.00	0.15	-0.03	-0.15
	12491.00	89.29	179.25	263.5	-6065.88	1676.90	6872.29	2115.29	6255.47	94.00	0.92	-0.91	0.02
	12586.00	89.32	178.94	263.5	-6160.86	1678.40	6873.44	2116.44	6349.48	95.00	0.33	0.03	-0.33
	12681.00	88.80	178.75	260.8	-6255.83	1680.32	6875.00	2118.00	6443.54	95.00	0.58	-0.55	-0.20
	12775.00	88.55	178.37	263.5	-6349.77	1682.68	6877.18	2120.18	6536.67	94.00	0.48	-0.27	-0.40
	12869.00	89.94	178.87	266.2	-6443.73	1684.94	6878.41	2121.41	6629.79	94.00	1.57	1.48	0.53
	12964.00	89.91	179.12	266.2	-6538.72	1686.61	6878.54	2121.54	6723.83	95.00	0.27	-0.03	0.26
	13059.00	90.18	178.76	269.0	-6633.70	1688.37	6878.46	2121.46	6817.88	95.00	0.47	0.28	-0.38
	13154.00	90.03	178.68	260.8	-6728.68	1690.49	6878.29	2121.29	6911.99	95.00	0.18	-0.16	-0.08
	13248.00	89.91	178.44	260.8	-6822.65	1692.85	6878.34	2121.34	7005.13	94.00	0.29	-0.13	-0.26
	13343.00	89.54	178.84	266.2	-6917.62	1695.11	6878.79	2121.79	7099.25	95.00	0.57	-0.39	0.42
	13437.00	89.66	178.43	269.0	-7011.59	1697.34	6879.45	2122.45	7192.38	94.00	0.45	0.13	-0.44
	13532.00	90.55	178.83	269.0	-7106.56	1699.62	6879.28	2122.28	7286.50	95.00	1.03	0.94	0.42
	13627.00	89.29	178.30	271.7	-7201.53	1701.99	6879.41	2122.41	7380.64	95.00	1.44	-1.33	-0.56
	13721.00	90.18	178.24	271.7	-7295.49	1704.83	6879.84	2122.84	7473.85	94.00	0.95	0.95	-0.06
	13816.00	89.51	178.39	271.7	-7390.45	1707.63	6880.10	2123.10	7568.04	95.00	0.72	-0.71	0.16
	13910.00	89.38	179.15	258.1	-7484.42	1709.64	6881.01	2124.01	7661.14	94.00	0.82	-0.14	0.81
	14005.00	89.63	178.89	263.5	-7579.40	1711.27	6881.83	2124.83	7755.17	95.00	0.38	0.26	-0.27
	14099.00	89.57	179.98	266.2	-7673.39	1712.20	6882.49	2125.49	7848.11	94.00	1.16	-0.06	1.16
	14194.00	89.82	179.65	266.2	-7768.39	1712.50	6882.99	2125.99	7941.94	95.00	0.44	0.26	-0.35
	14288.00	89.57	180.02	269.0	-7862.39	1712.77	6883.50	2126.50	8034.78	94.00	0.48	-0.27	0.39
	14383.00	89.97	179.60	269.0	-7957.39	1713.09	6883.88	2126.88	8128.62	95.00	0.61	0.42	-0.44
	14478.00	89.54	179.25	271.7	-8052.38	1714.04	6884.28	2127.28	8222.56	95.00	0.58	-0.45	-0.37
	14572.00	89.75	179.61	271.7	-8146.37	1714.98	6884.87	2127.87	8315.50	94.00	0.44	0.22	0.38
	14667.00	89.60	179.35	271.7	-8241.37	1715.84	6885.40	2128.40	8409.42	95.00	0.32	-0.16	-0.27
	14761.00	89.97	179.00	274.4	-8335.36	1717.19	6885.76	2128.76	8502.43	94.00	0.54	0.39	-0.37
	14856.00	90.03	178.90	274.4	-8430.34	1718.93	6885.76	2128.76	8596.48	95.00	0.12	0.06	-0.11
	14951.00	89.45	178.33	277.1	-8525.31	1721.23	6886.19	2129.19	8690.60	95.00	0.86	-0.61	-0.60
	15046.00	89.97	180.22	274.4	-8620.30	1722.43	6886.67	2129.67	8784.57	95.00	2.06	0.55	1.99
	15140.00	89.48	180.10	277.1	-8714.30	1722.17	6887.12	2130.12	8877.32	94.00	0.54	-0.52	-0.13
	15329.00	89.51	179.23	277.1	-8903.28	1723.27	6888.79	2131.79	9064.08	189.00	0.46	0.02	-0.46
	15423.00	90.65	179.49	277.1	-8997.28	1724.32	6888.65	2131.65	9157.04	94.00	1.24	1.21	0.28
	15518.00	90.40	179.70	279.8	-9092.27	1724.99	6887.78	2130.78	9250.93	95.00	0.34	-0.26	0.22
	15612.00	90.09	179.55	279.8	-9186.27	1725.61	6887.38	2130.38	9343.82	94.00	0.37	-0.33	-0.16
	15707.00	90.28	179.70	279.8	-9281.27	1726.23	6887.08	2130.08	9437.71	95.00	0.25	0.20	0.16
	15801.00	90.34	179.59	279.8	-9375.26	1726.81	6886.57	2129.57	9530.60	94.00	0.13	0.06	-0.12
	15896.00	90.34	179.98	279.8	-9470.26	1727.17	6886.00	2129.00	9624.44	95.00	0.41	-0.00	0.41
	15990.00	90.22	179.64	279.8	-9564.26	1727.48	6885.54	2128.54	9717.29	94.00	0.38	-0.13	-0.36
	16085.00	90.55	179.63	279.8	-9659.25	1728.09	6884.91	2127.91	9811.17	95.00	0.35	0.35	-0.01
	16179.00	90.03	179.03	282.5	-9753.24	1729.19	6884.43	2127.43	9904.14	94.00	0.84	-0.55	-0.64
	16274.00	90.37	179.34	282.5	-9848.23	1730.54	6884.10	2127.10	9998.13	95.00	0.48	0.36	0.33
	16368.00	90.28	179.41	282.5	-9942.23	1731.56	6883.56	2126.56	10091.09	94.00	0.12	-0.10	0.07
	16463.00	90.77	179.09	282.5	-10037.21	1732.81	6882.69	2125.69	10185.07	95.00	0.62	0.52	-0.34
	16558.00	89.45	178.74	282.5	-10132.20	1734.61	6882.51	2125.51	10279.12	95.00	1.44	-1.39	-0.37
	16652.00	89.75	179.12	282.5	-10226.18	1736.36	6883.17	2126.17	10372.18	94.00	0.52	0.32	0.40
	16747.00	89.69	179.13	282.5	-10321.16	1737.81	6883.63	2126.63	10466.19	95.00	0.06	-0.06	0.01
	16841.00	89.75	179.46	282.5	-10415.16	1738.97	6884.09	2127.09	10559.17	94.00	0.36	0.06	0.35
	16936.00	89.78	179.16	282.5	-10510.15	1740.11	6884.48	2127.48	10653.13	95.00	0.32	0.03	-0.32
	17031.00	89.54	178.95	285.2	-10605.13	1741.68	6885.05	2128.05	10747.15	95.00	0.34	-0.25	-0.22
	17086.00	89.38	178.64	282.5	-10660.12	1742.84	6885.56	2128.56	10801.62	55.00	0.63	-0.29	-0.56
Projection	17110.00	89.38	178.64	N/A	-10684.11	1743.41	6885.82	2128.82	10825.40	24.00	0.00	-0.02	-0.00