



LWD MEMORY LOG

Gamma Ray

Scale: Company: Noble Energy

1:240 TVD Well: Hullabaloo Y21-756

Depth Reference: Field: Weld County

Driller's Depth County: Weld State: Colorado Country: United States

Status: Surface Location: Other Services:

Final Print Latitude: Longitude: Directional

API No: 05-123-45240-00 SEC: 16 TWN: 2N RGE: 64W Elev. KB: 4912.00 ft Elev. DF: 4942.00 ft Elev. GL: 4912.00 ft

Permanent Datum (P.D.): Ground Level Elevation: 4912.00 ft Above P.D. 30.00 ft

Dates Interval Logged Magnetic Field Reference Date From: 2017-10-08 Top: (ft) 2060.00 Azi Reference North: Grid Dip Angle: (deg) 66.66 Date To: 2017-10-10 Bottom: (ft) 17112.00 Total Magnetic Field Strength: (nT) 52267 Spud Date: 2017-10-07 Mag to Reference North Correction: (deg) 7.45 E

Borehole Record Casing Record

Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)
13.500	30.00	2060.00	9.625	36.00	30.00	2050.00
8.500	2060.00	17112.00				

Mud Record Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc   Az (Start)	Inc   Az (End)
Oil Based Mud	2060.00	17112.00	8.500	15052.00	0.10   72.83	90.15   181.40

Acquisition System Software Version Other

Baker Hughes Cadence RT4.1 Rig: H&P 517 Contractor: Helmerich & Payne Drilling Co PlotStudio 4.1.7763.3 District: RMA Unit: D&E


"These interpretations and analyses ("Interpretations") are opinions provided by Baker Hughes Oilfield Operations, Inc ("Baker Hughes"), based upon industry practice, empirical relationships, assumptions and measurements, (many of which may be provided by the customer). The Interpretations are not infallible and may be subject to different opinions. Vjwu."Dcmgt"JwiJgu"fqgu"pqv"ycttcpv"vjgkt"ceewtce{."eqttgevpguu."qt"eqornvgvpguu."qt"vjcv"vjg"ewuvqogtøu"cpflqt"cp{"vjktf"rctv{øu"tgnkcpæg"qp"uwej"Kpvgtrtgvcvkqpu"yknn"ceeqornkuJ"cp{"rctvkewnct"tguwnvu0"Vjg"ewuvqogt"cuuwogu"hwnn"responsibility for the use of the Interpretations and for decisions based thereon and the customer agrees to release, defend and indemnify Baker Hughes, its parent, subsidiaries and affiliated or related entities, and subcontractors, together with its and their officers, directors, employees, agents and invitees against, any and all claims, losses, damages, or expenses sustained by the customer or any third party arising out of reliance upon or use of the Interpretations, without regard to the cause(s) thereof, including without limitation any form of negligence on the part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and qdnkicvkqpu"ujcnn"dg"iqxgtpgf"d{"Dcmgt"JwiJgu"Kpeqtrqtcevfgøu"Yqtnfykfg"Vgtou"cpf"Eqpfkvkqpu0\$""

Log Run Summary

Run	Bit	Bit	Bit	Bit	Assembly	Logged Interval	Bit Depth Interval	Date / Time	Circ.
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WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	OnTrak - Gamma Ray - Apparent - Memory 0.5 ft Average	API
TCDM	Downhole Temperature	degF



Company

Well

Interval

Created

Noble Energy

Hullabaloo Y21-756

Date From: 2017-10-08 01:39:41

Date To: 2017-10-10 05:46:15

Date Created: 2017-10-11 02:58:53

Top: 2060.00

Bottom: 17112.00

Gamma Ray - Apparent 0.5 ft Average GRAM

0300

API

TVD 1:240 feet

Depth Averaged ROP 3 ft Average ROPA

10000

ft/h

Weight On Bit, Average 1 ft Average WOBA

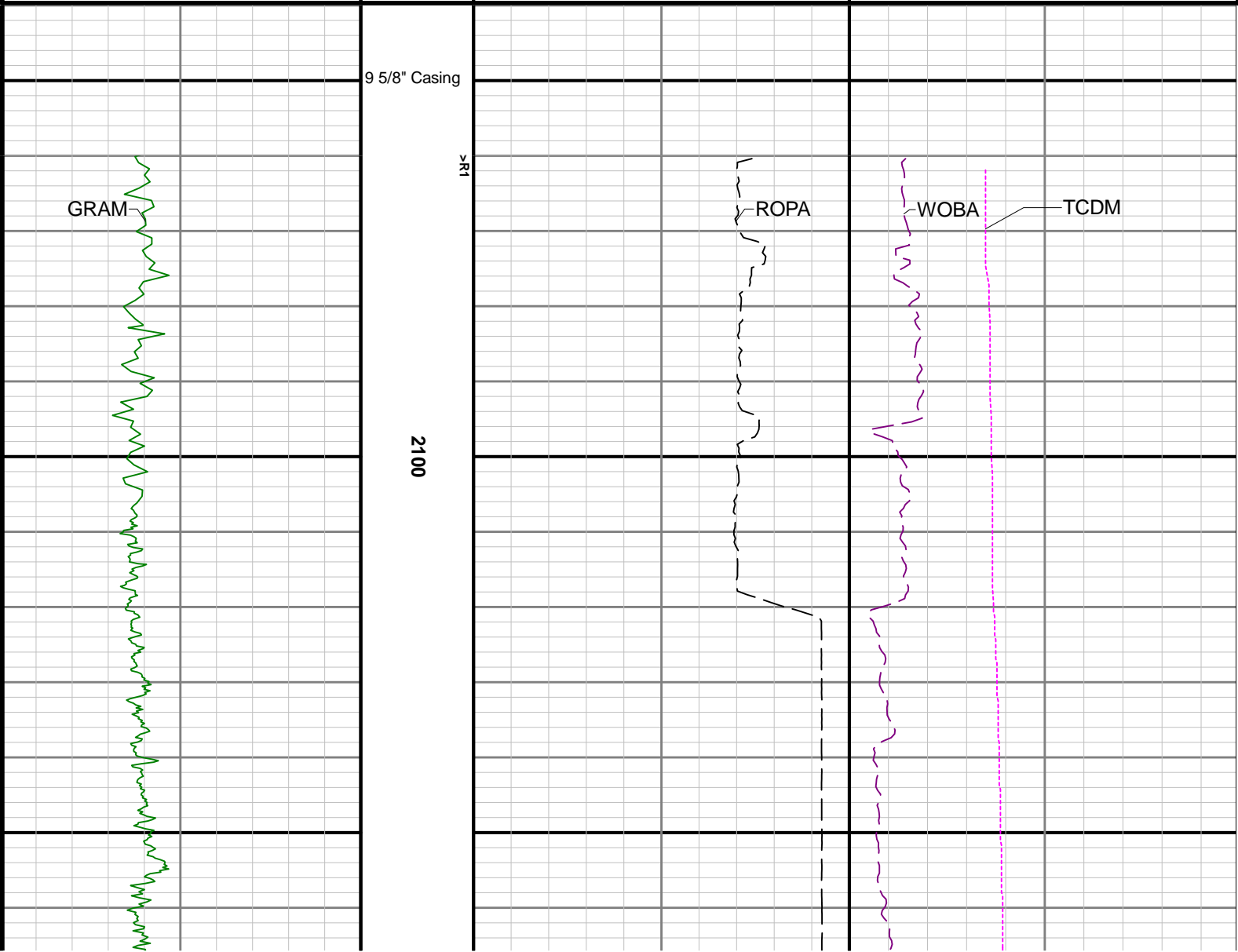
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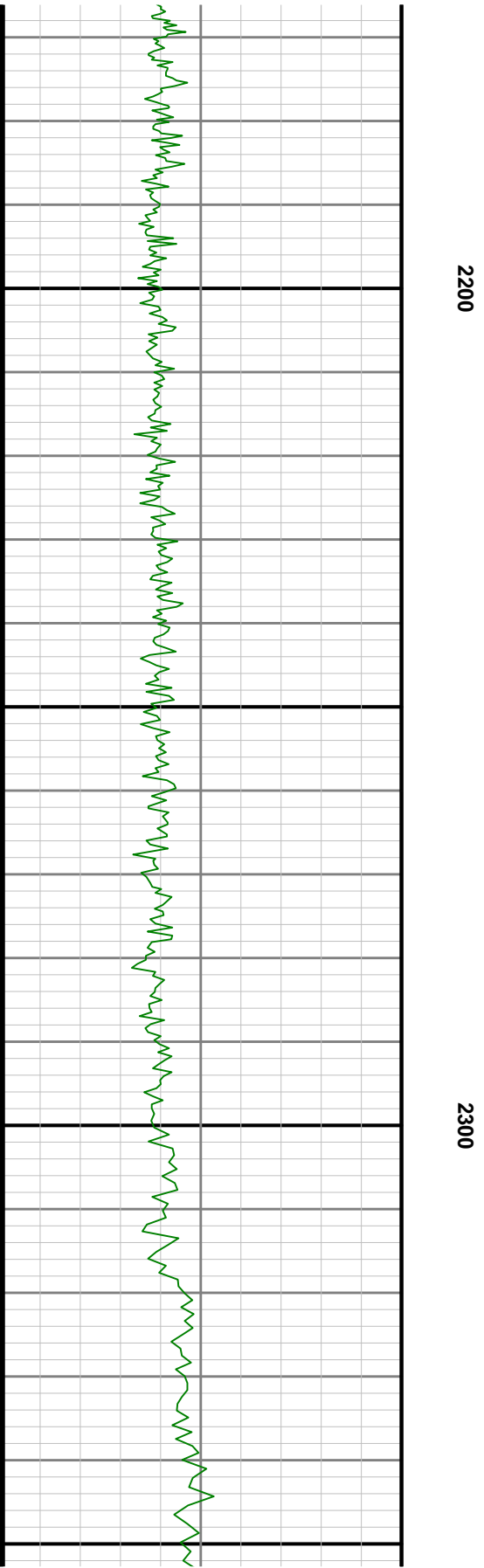
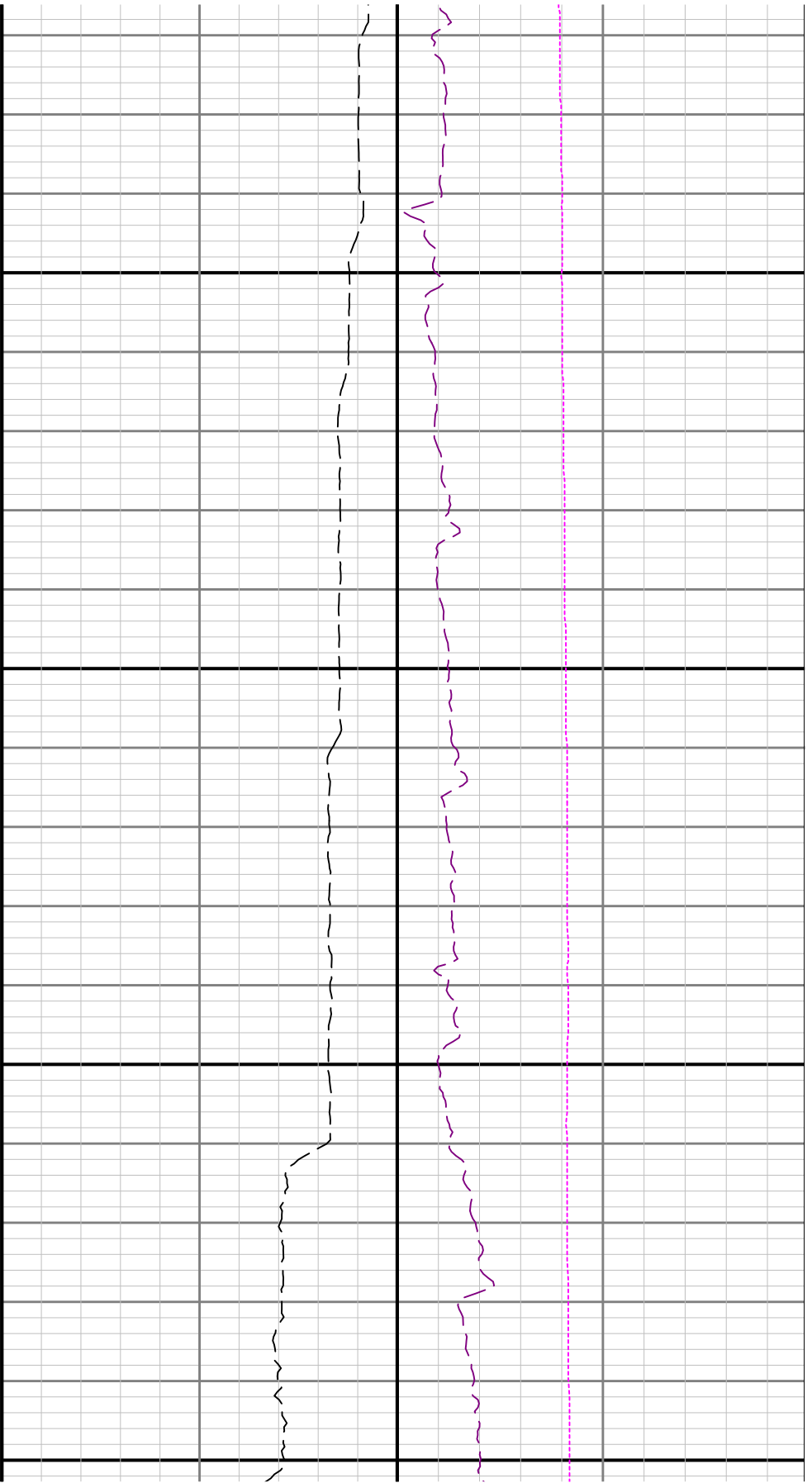
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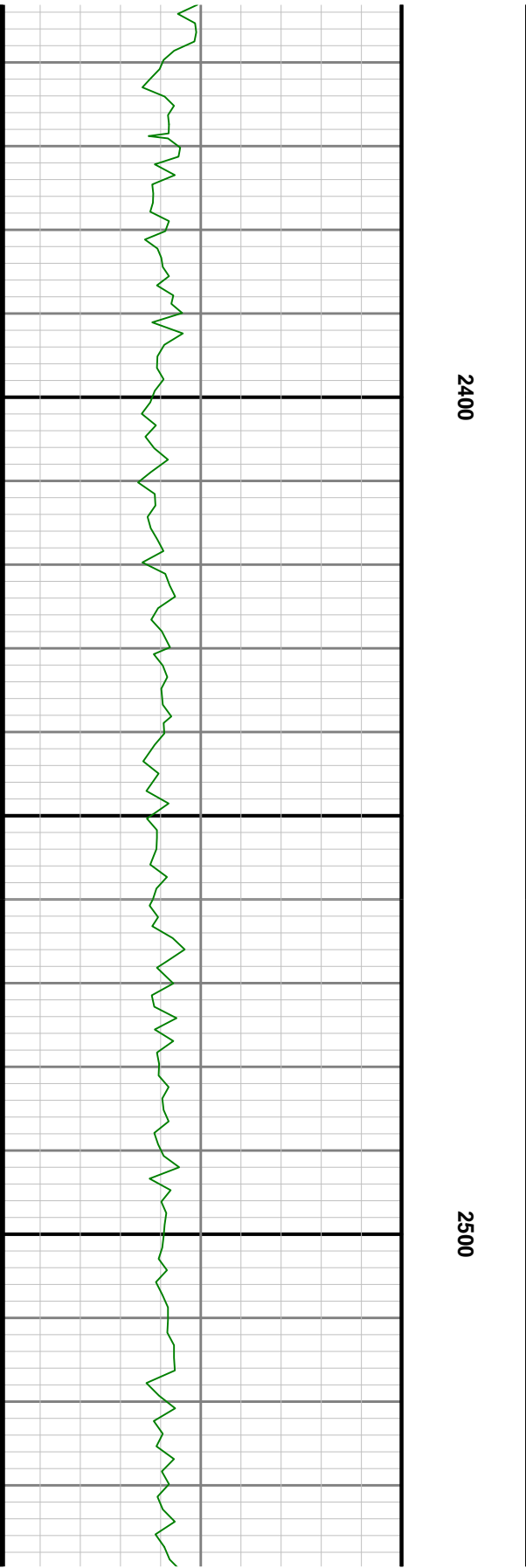
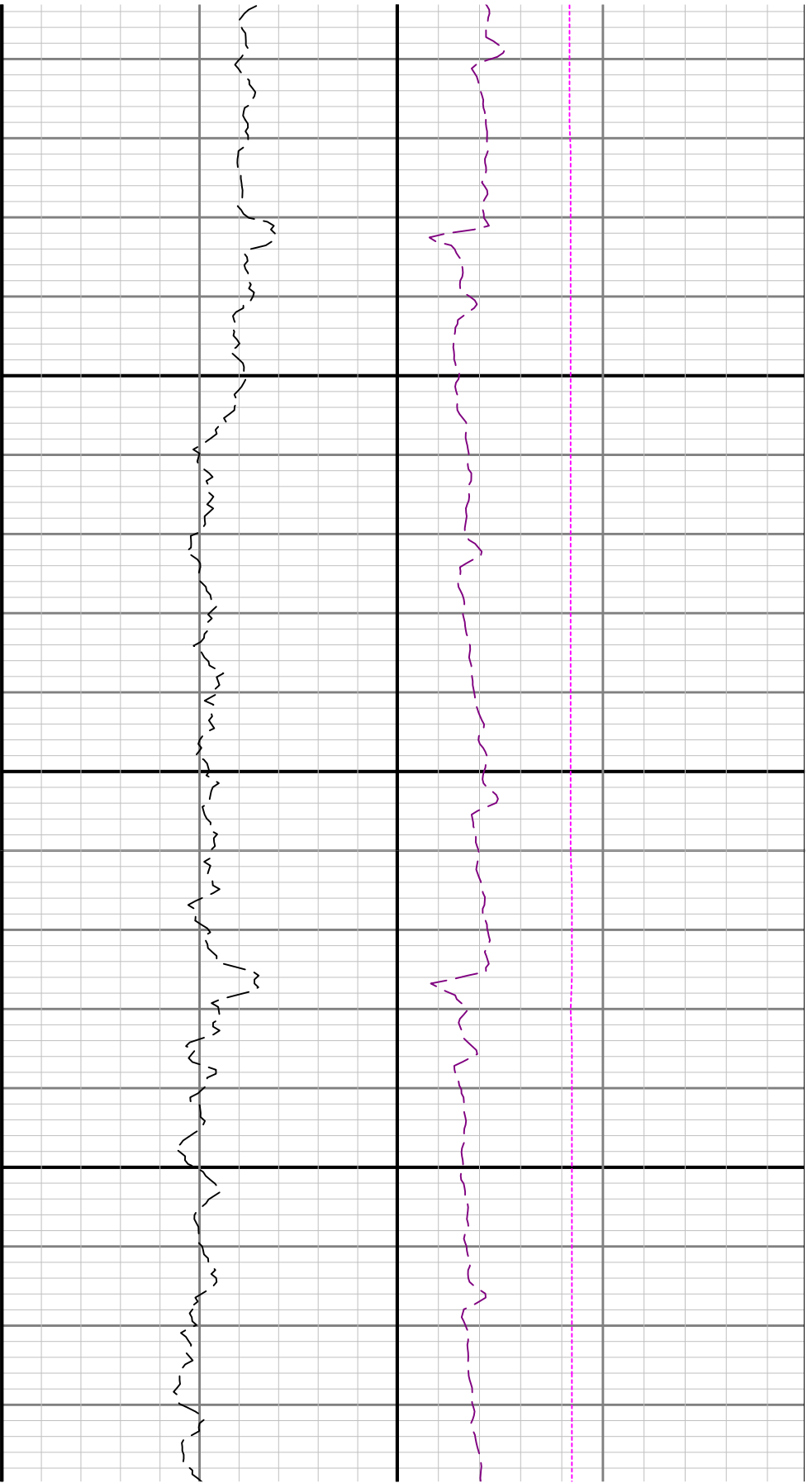
Downhole Temperature TCDM

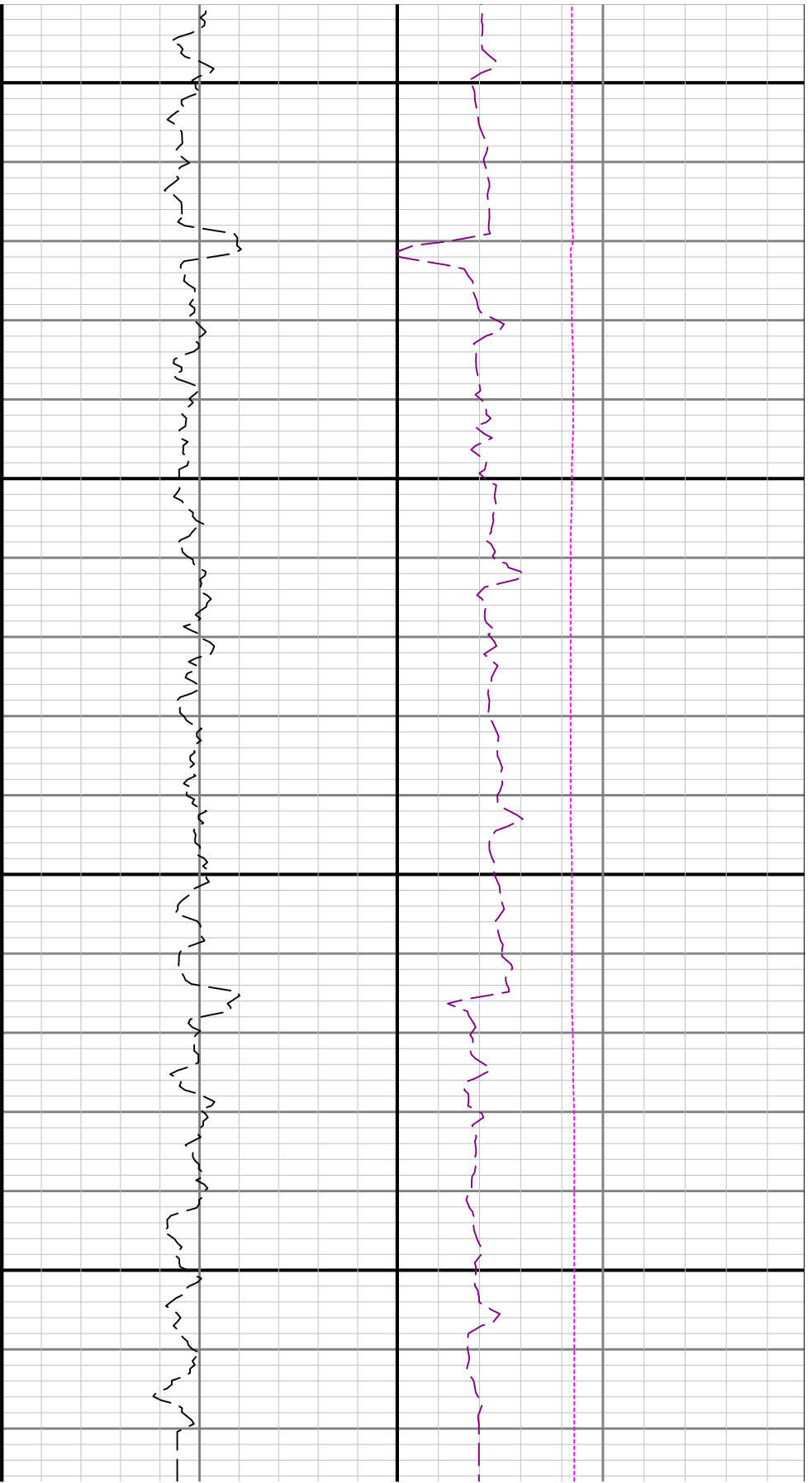
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degF



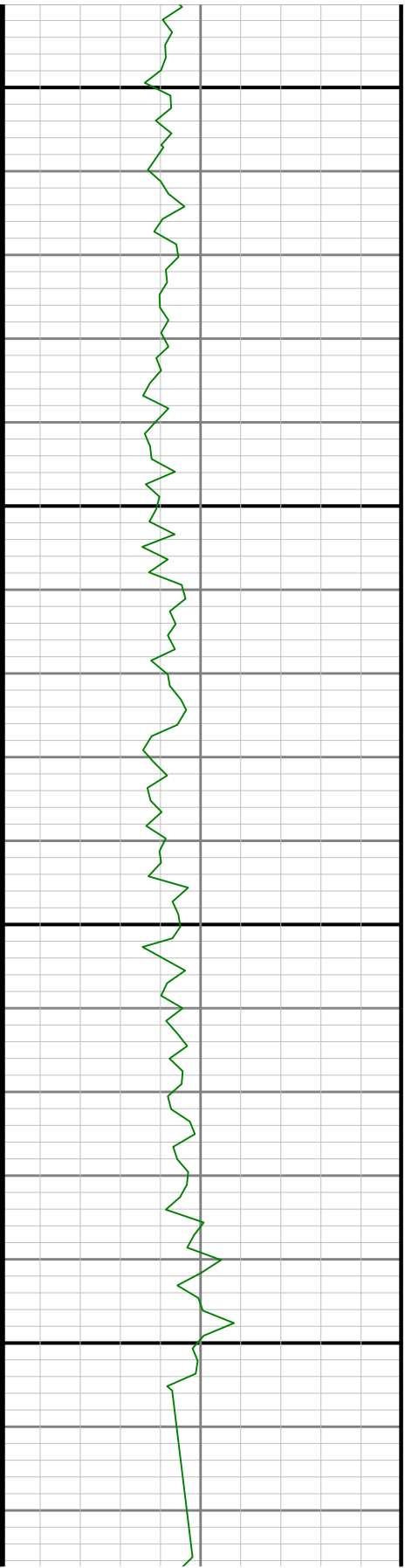


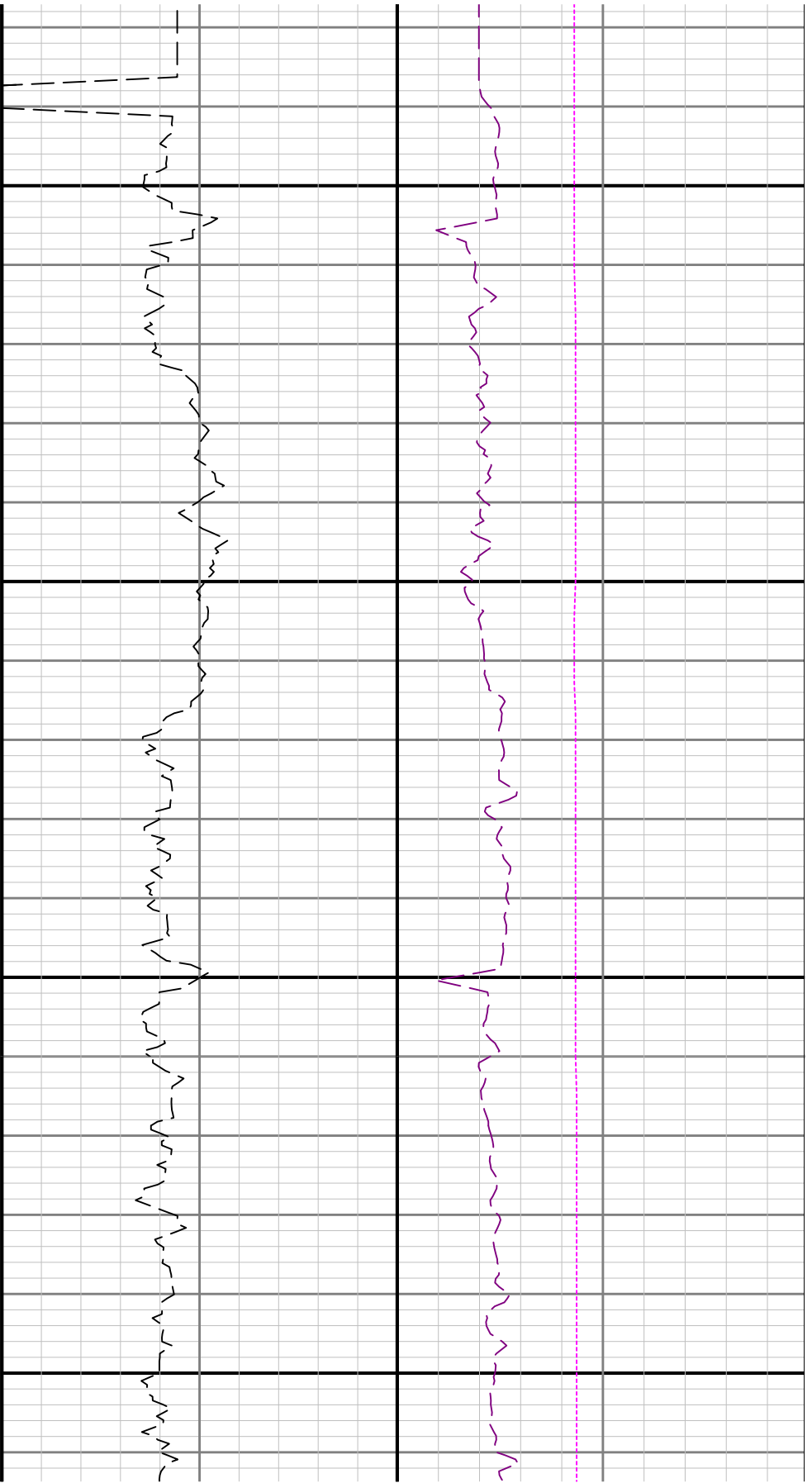




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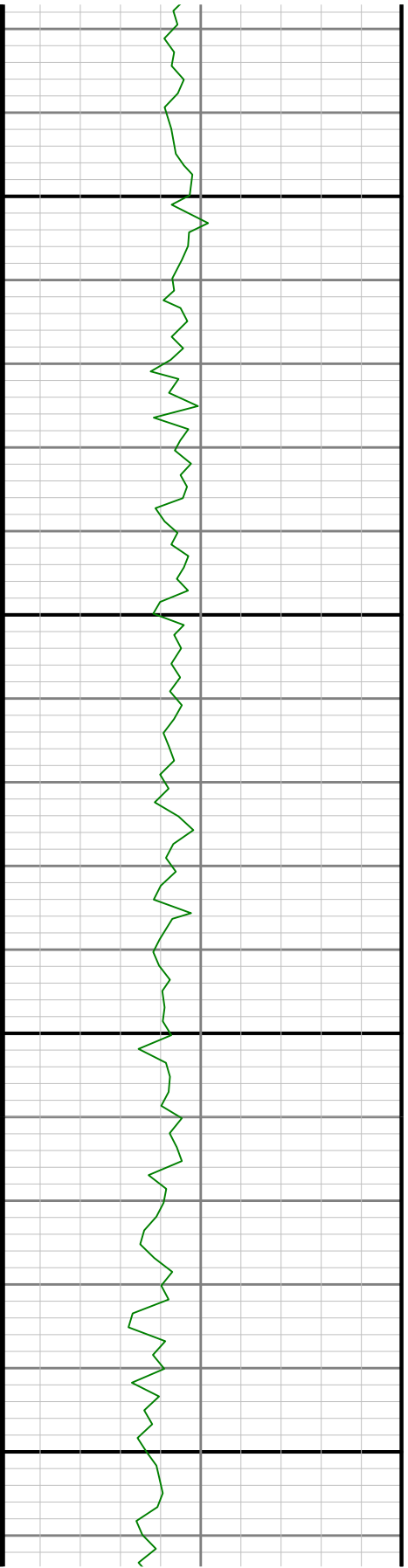
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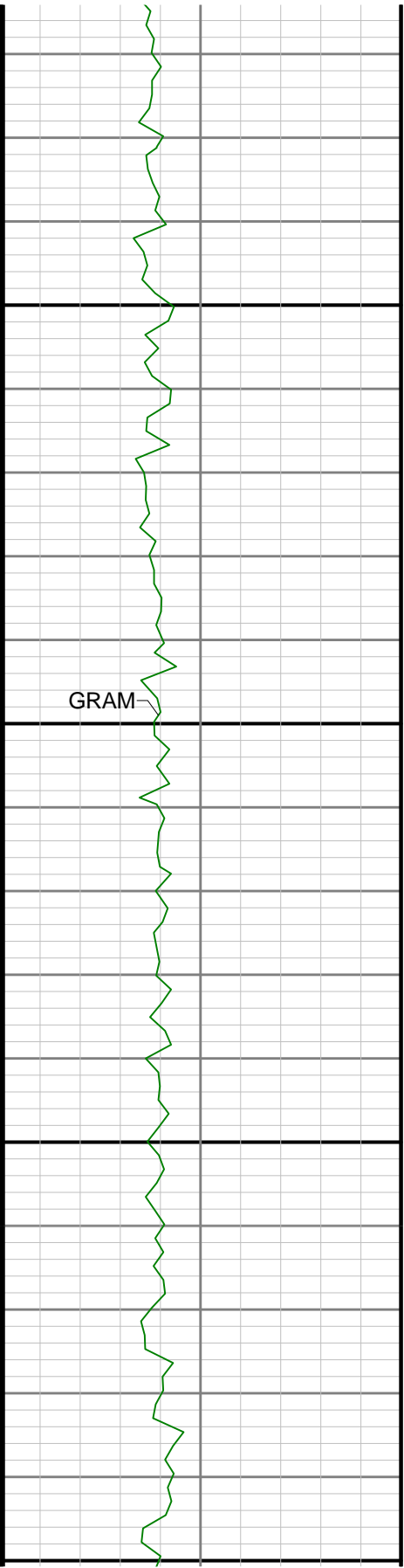




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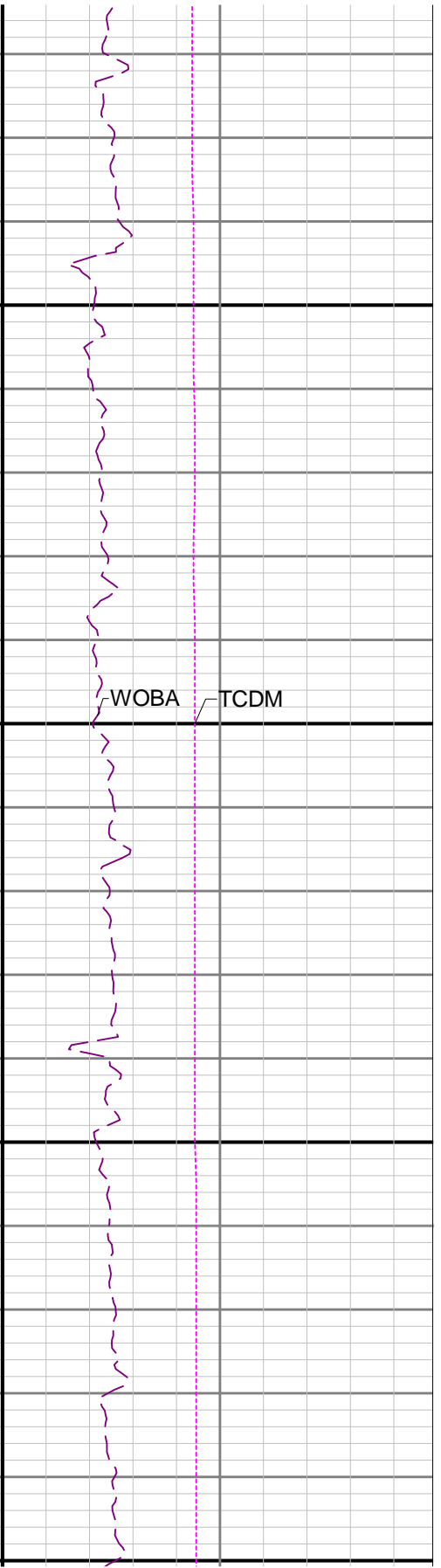
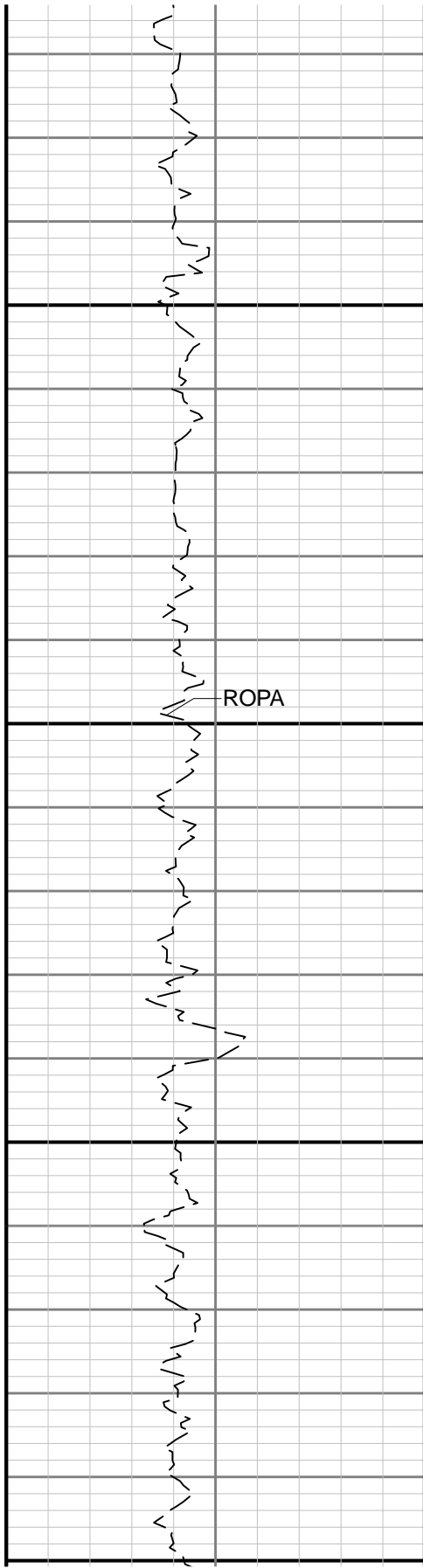
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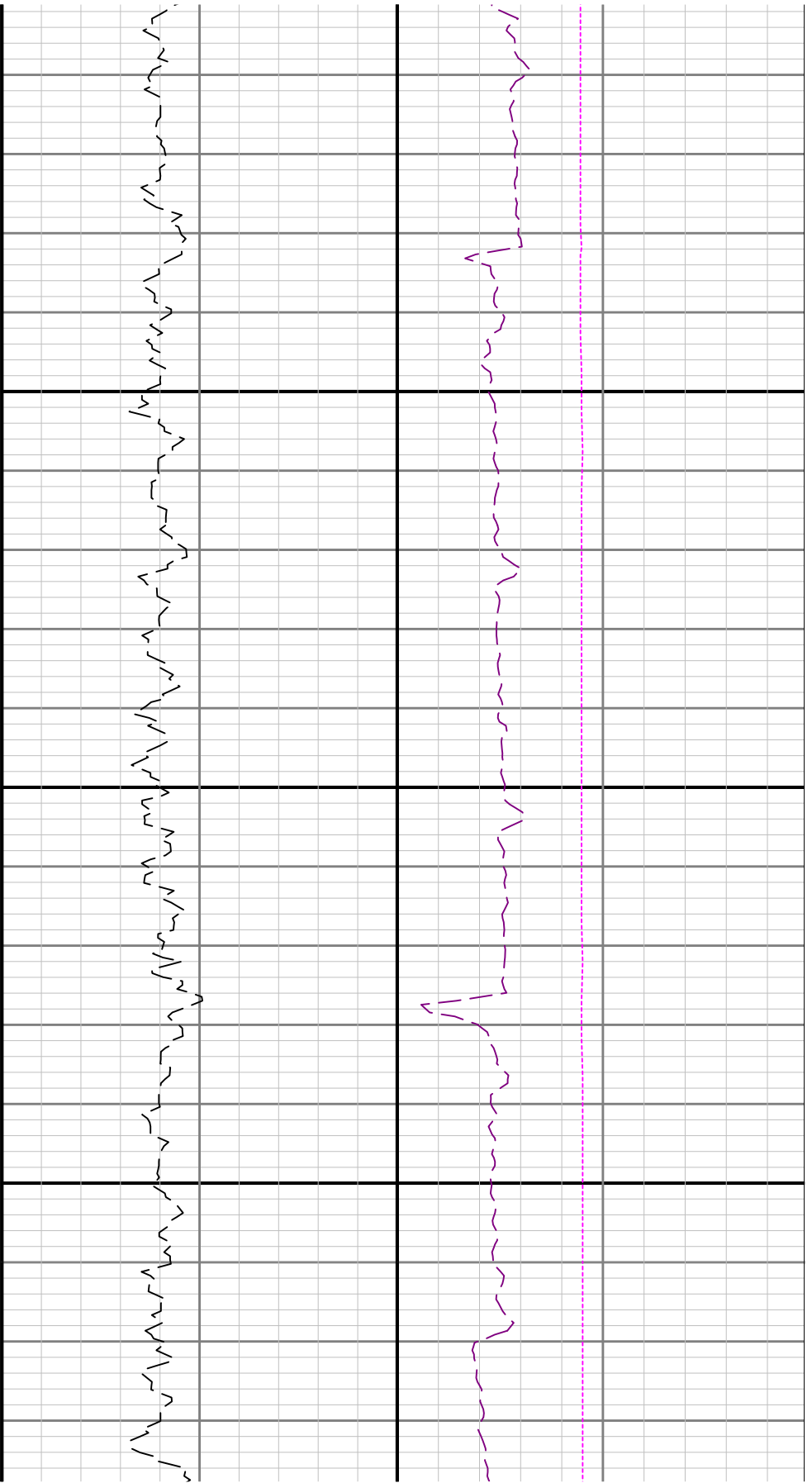


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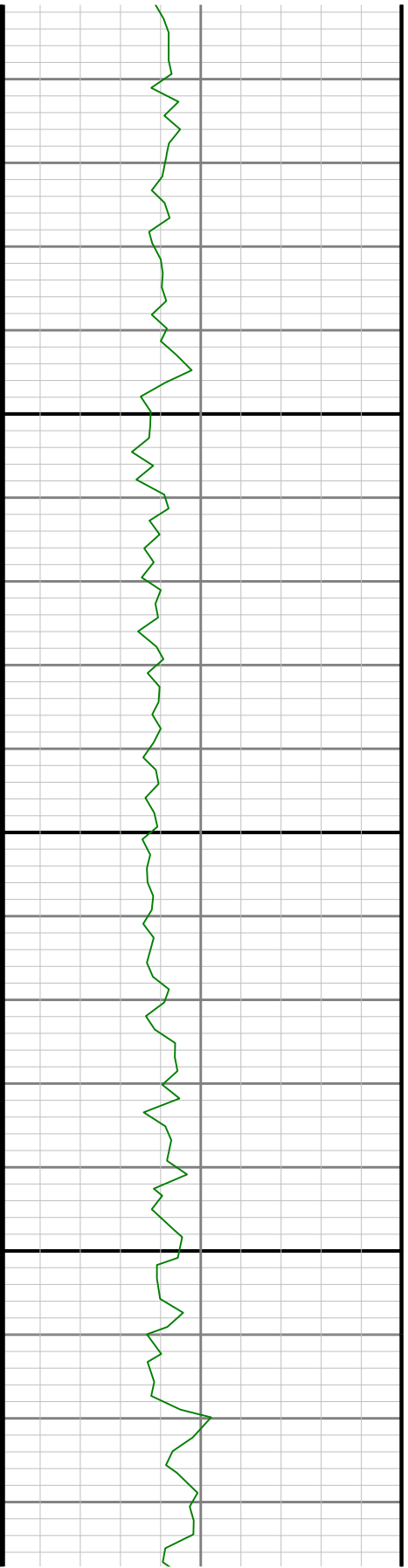


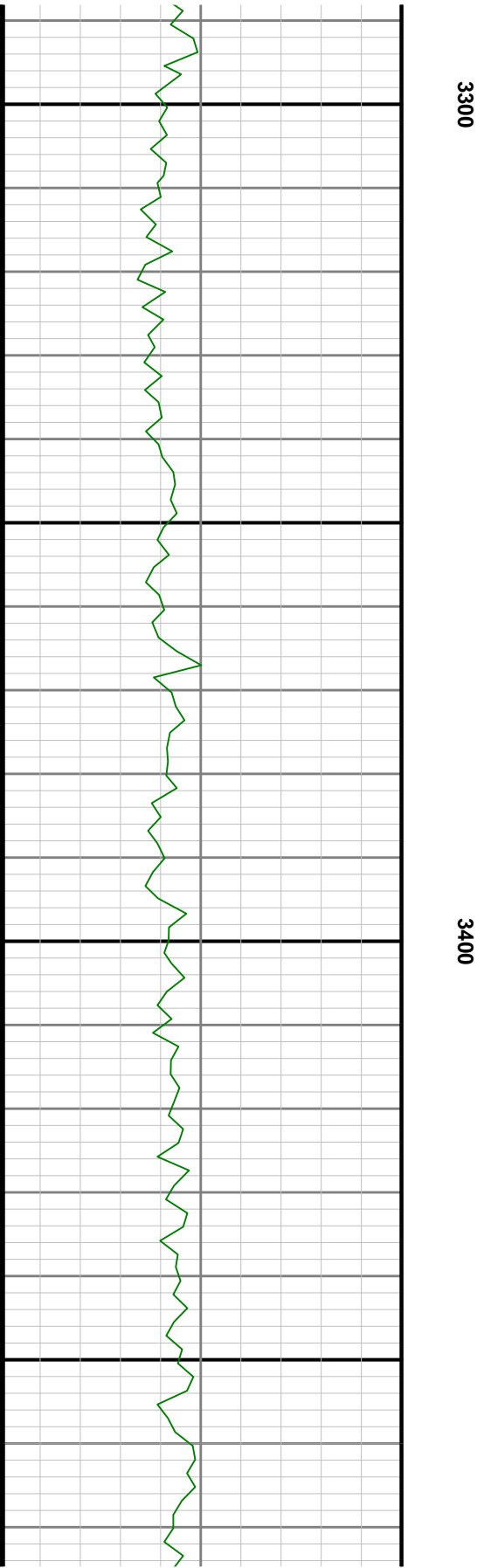
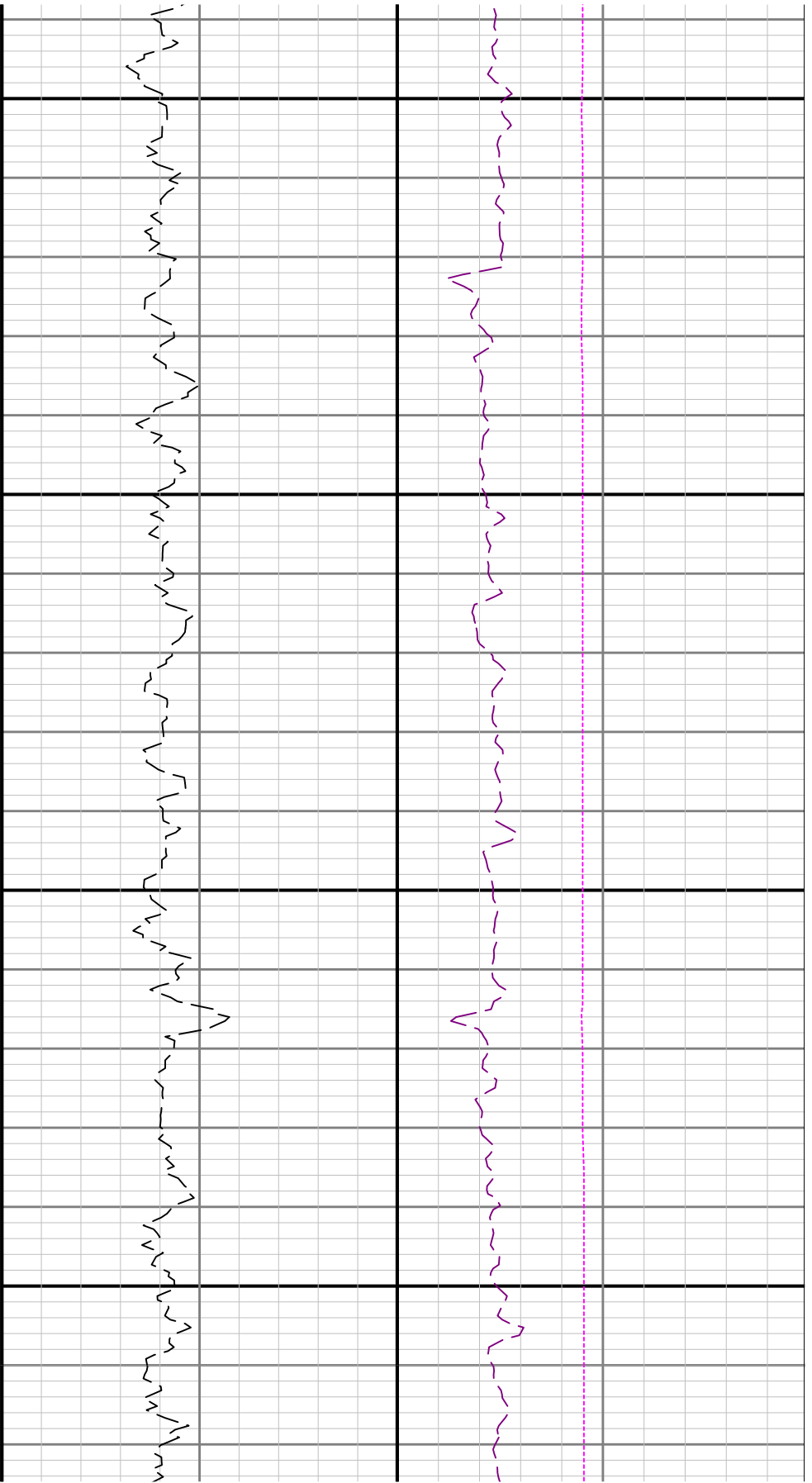


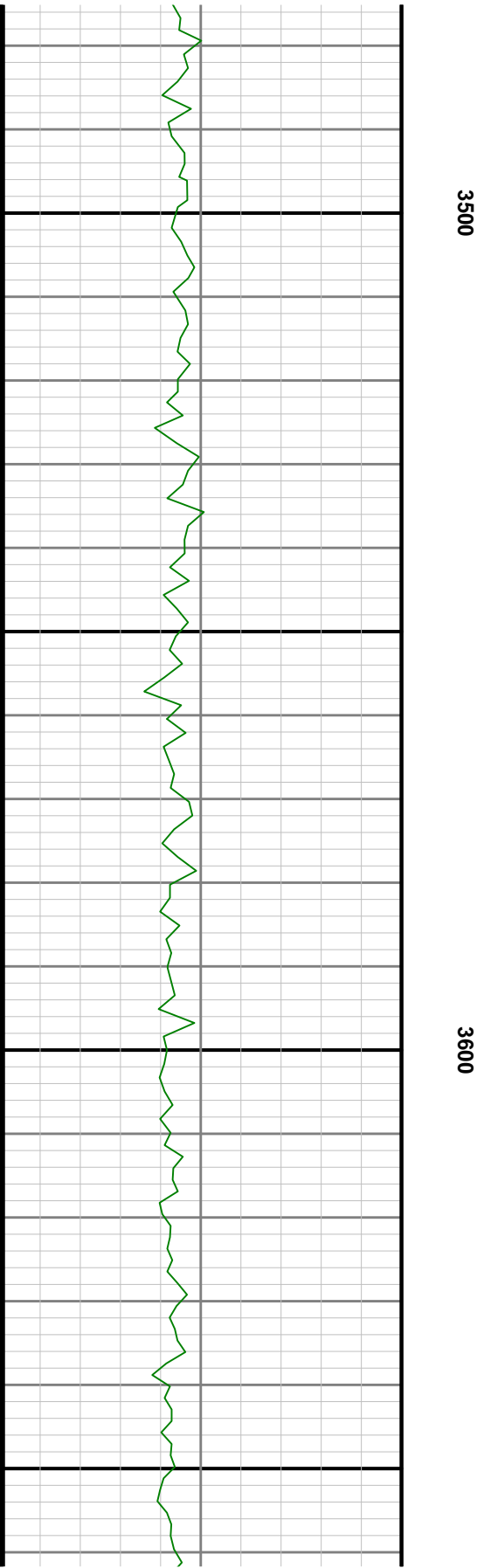
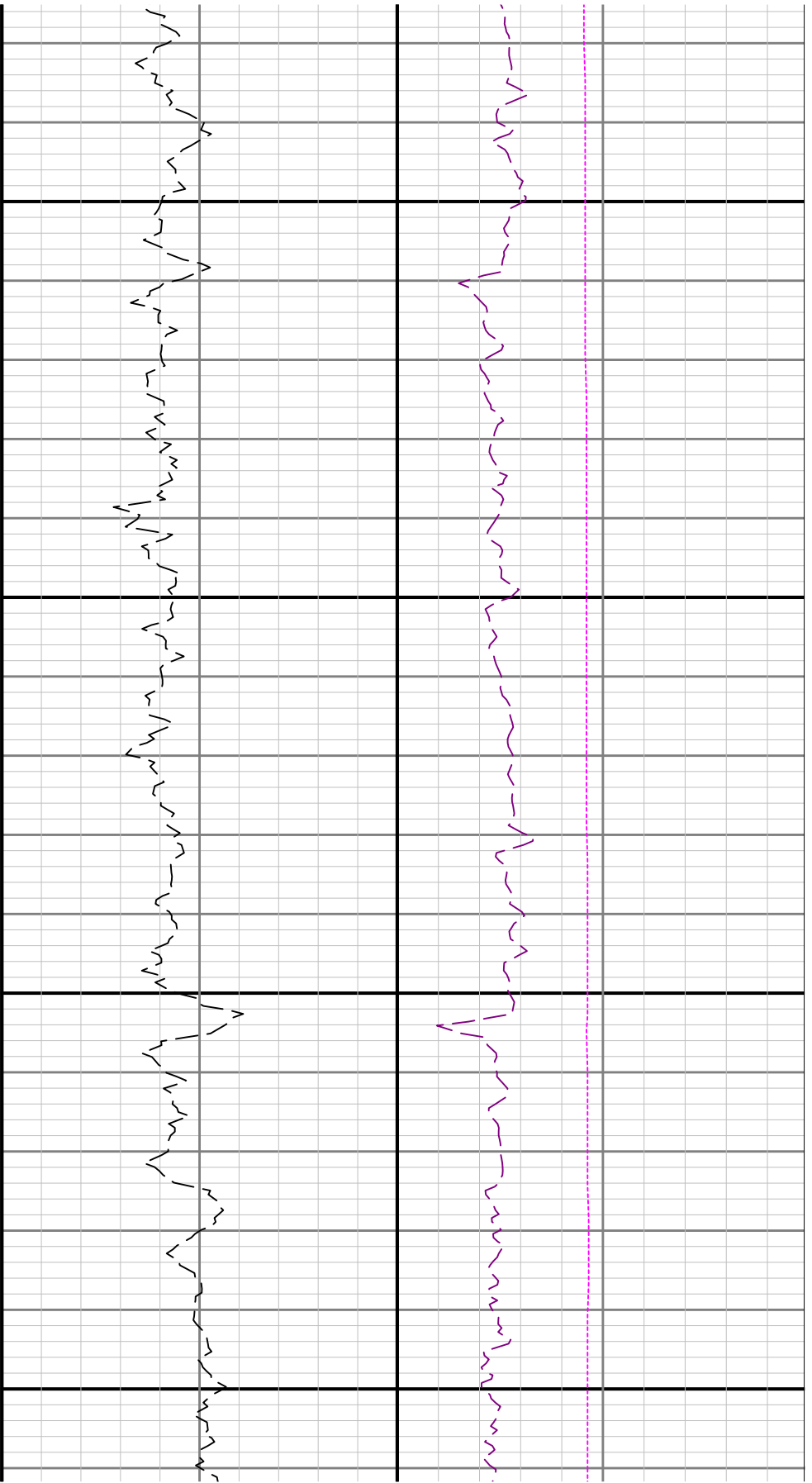


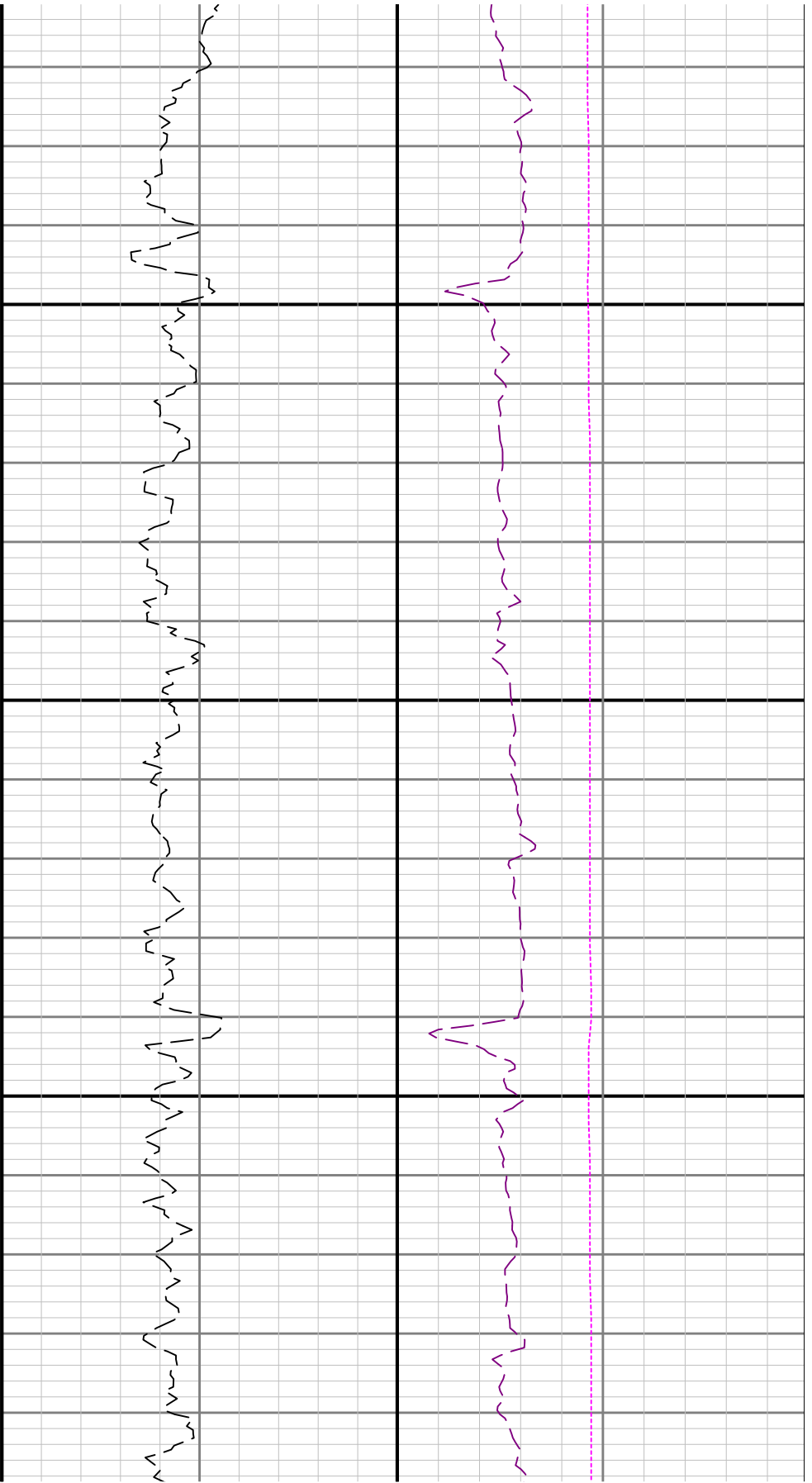
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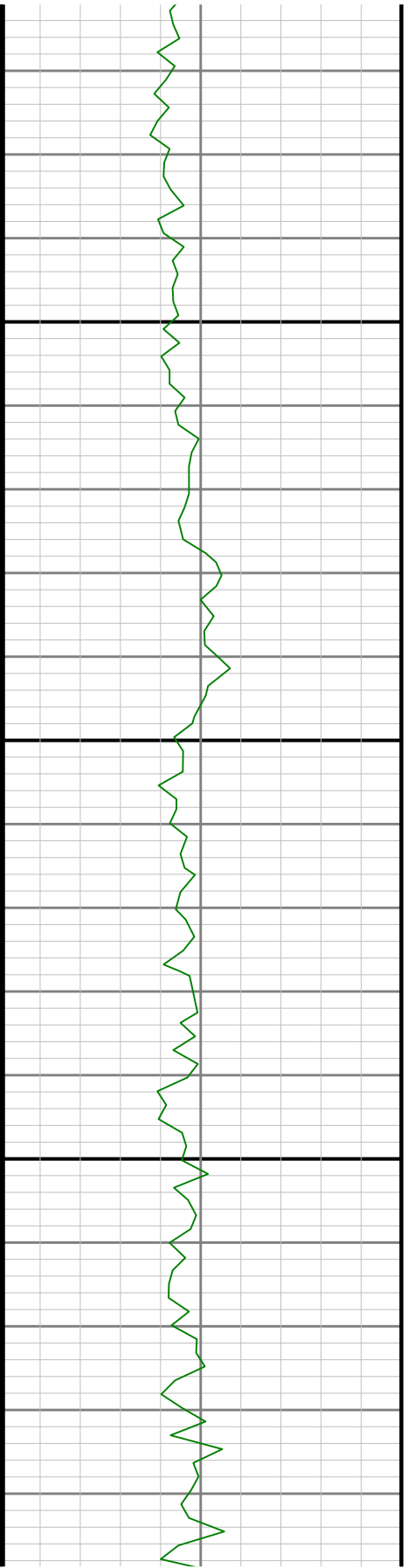


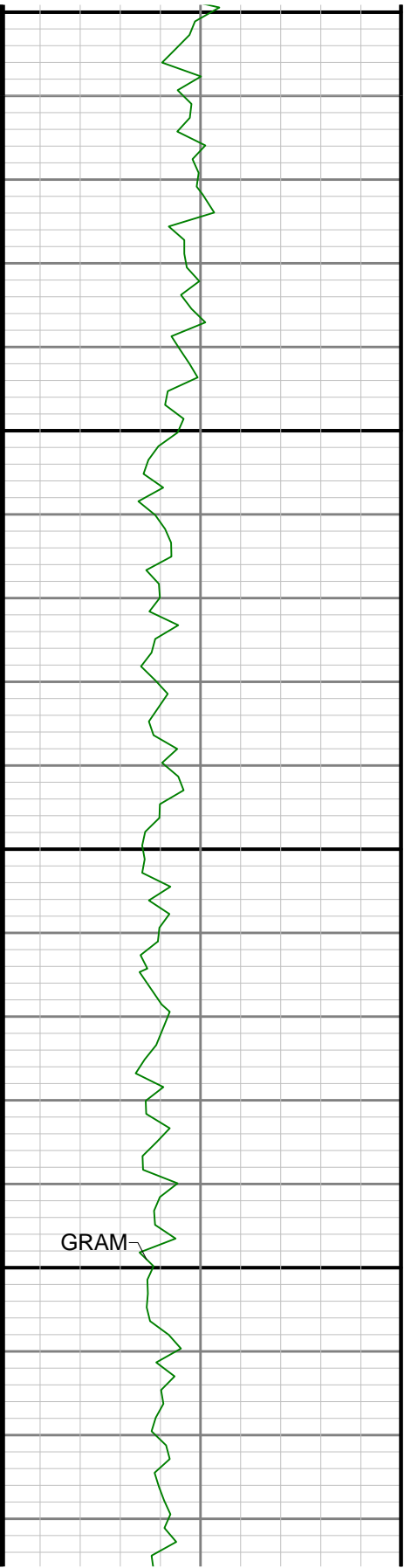




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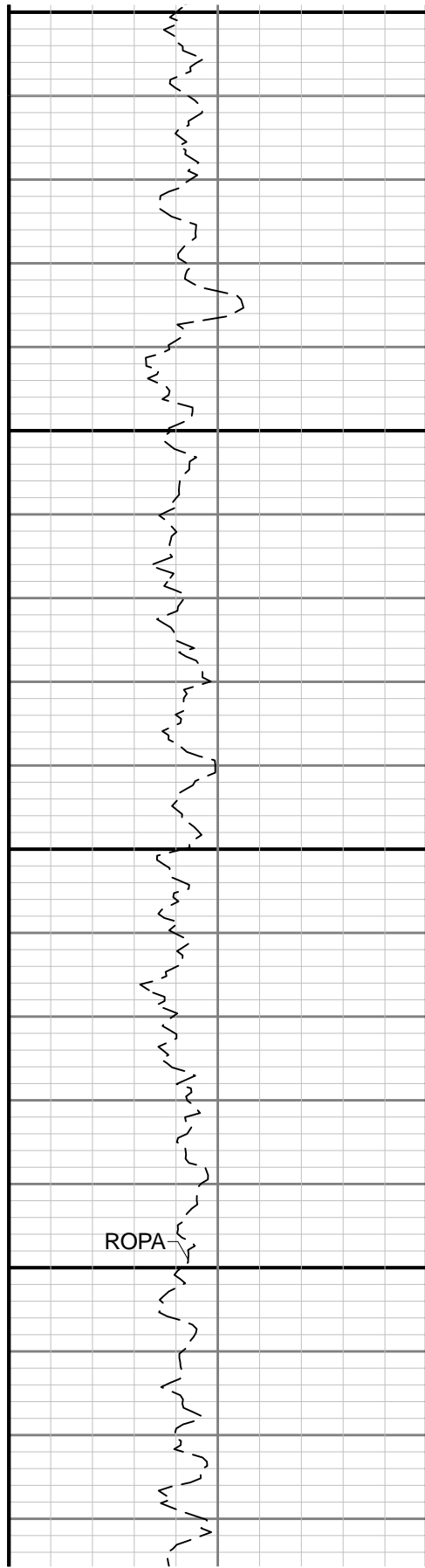
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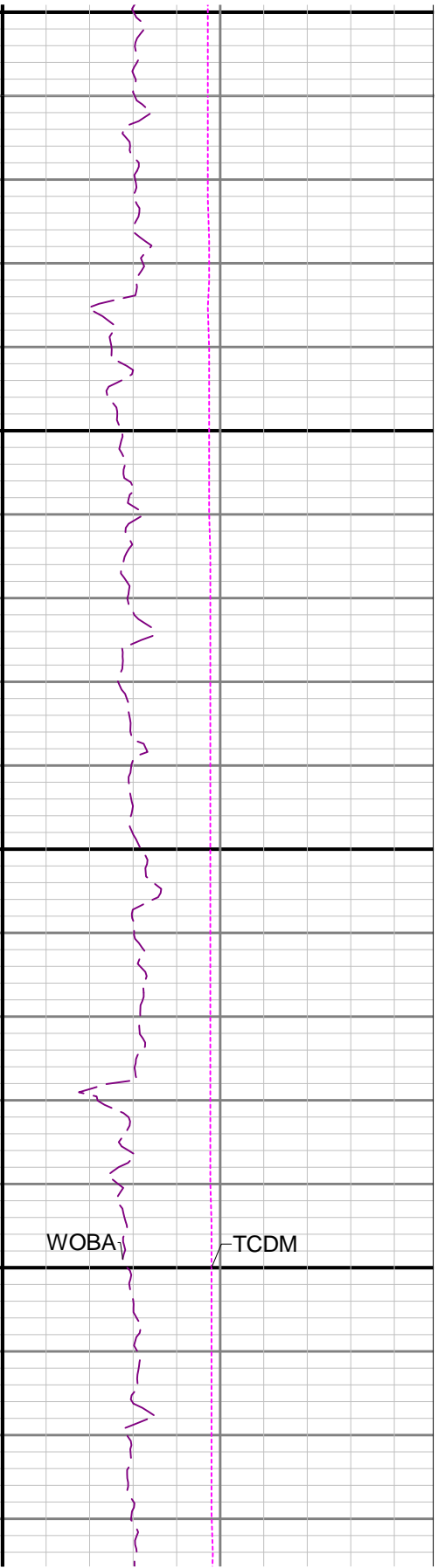


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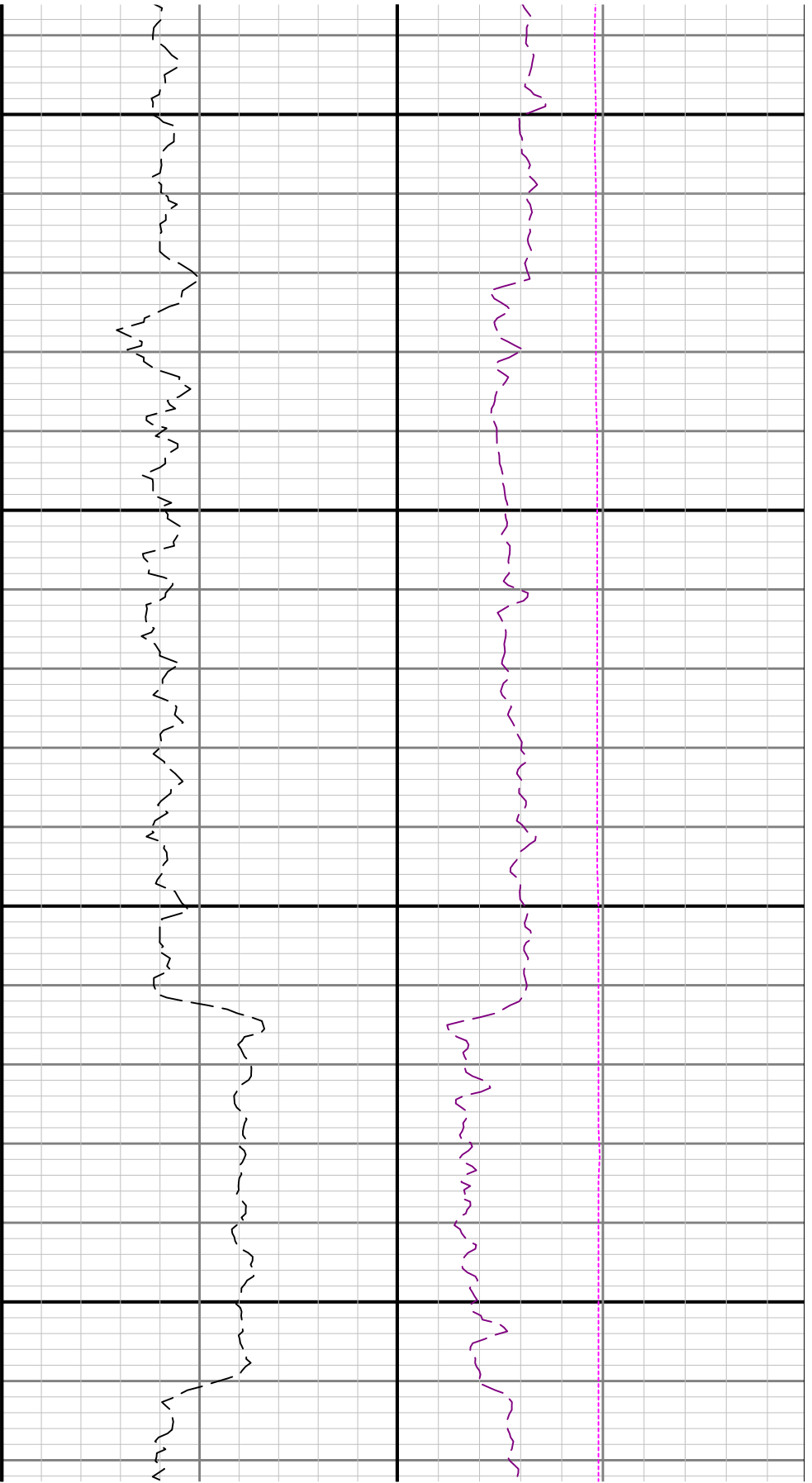


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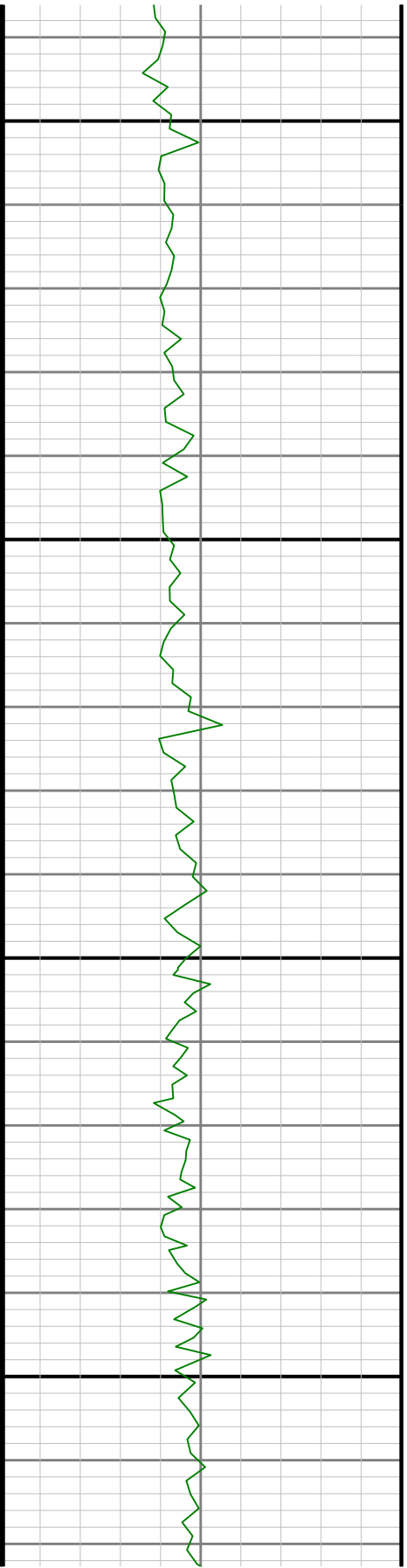
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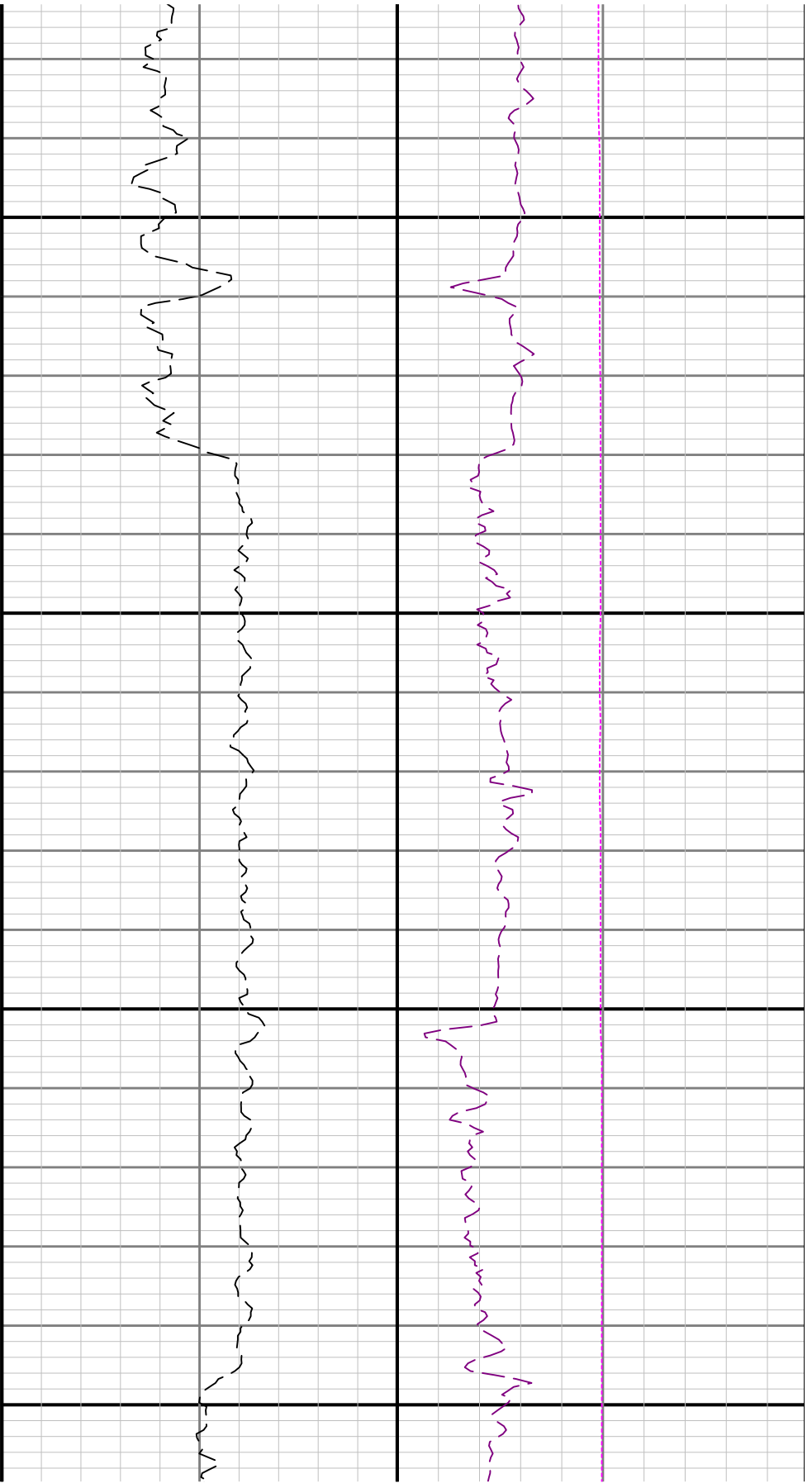
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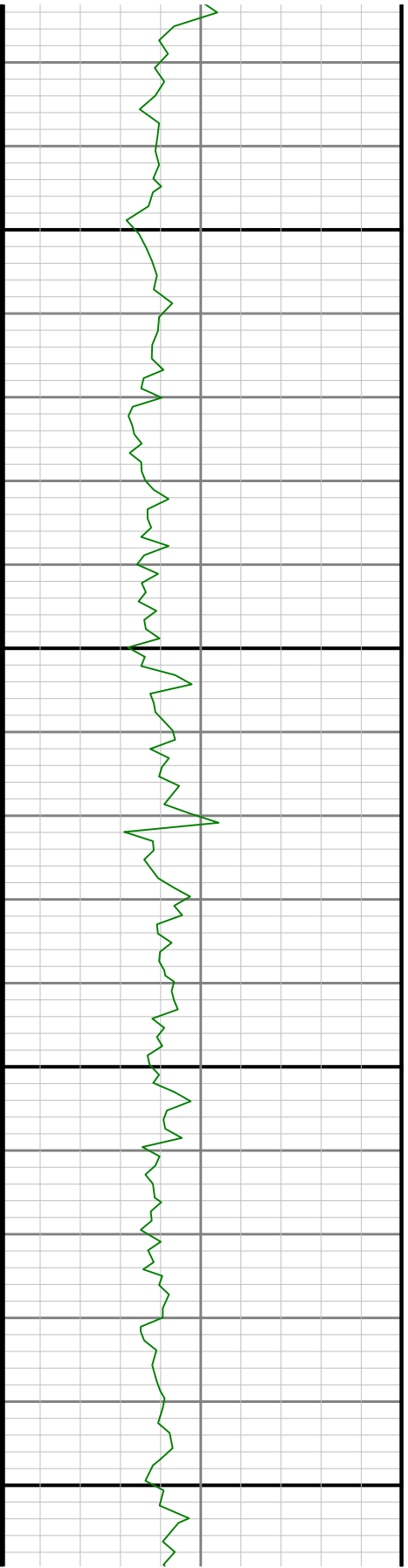
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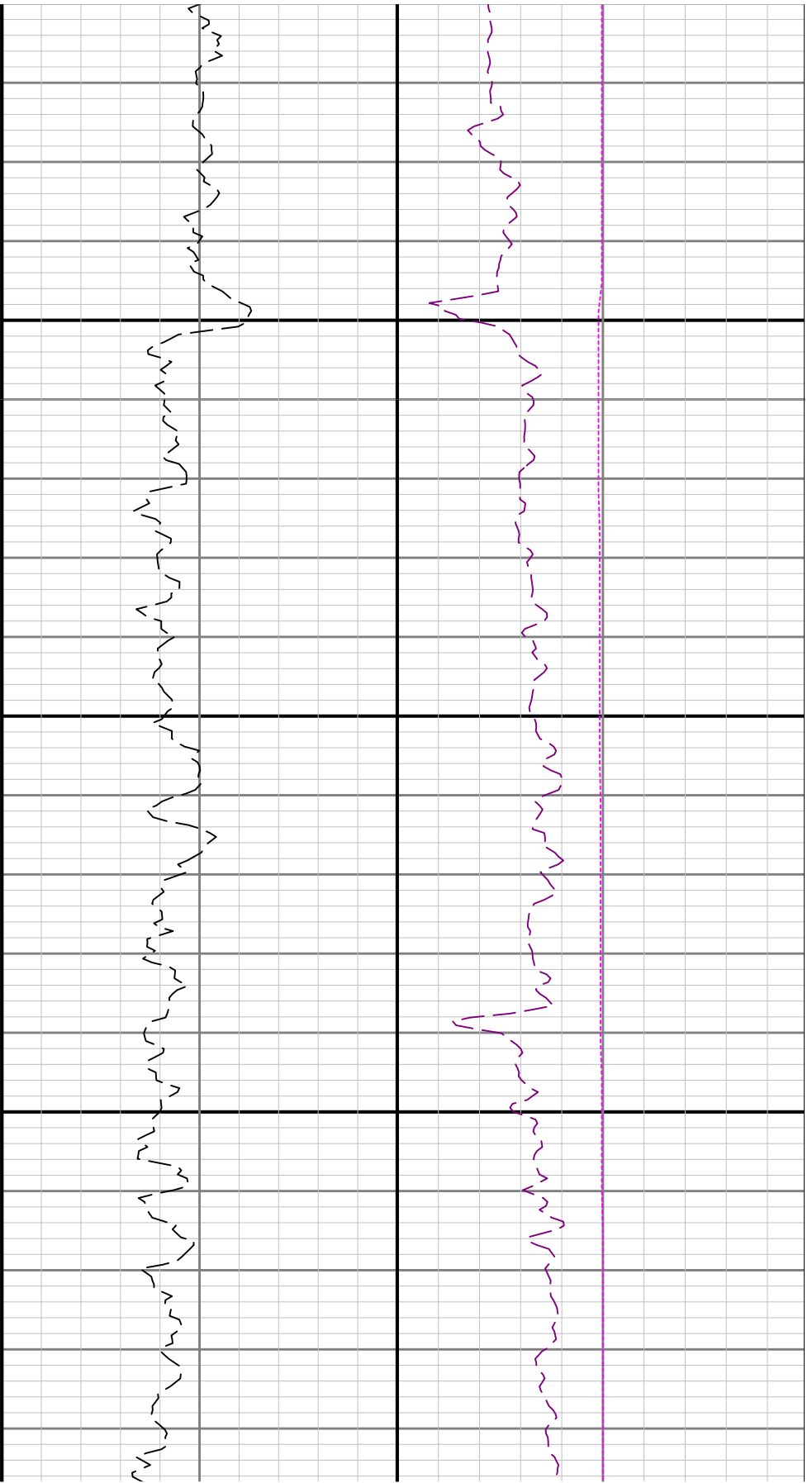




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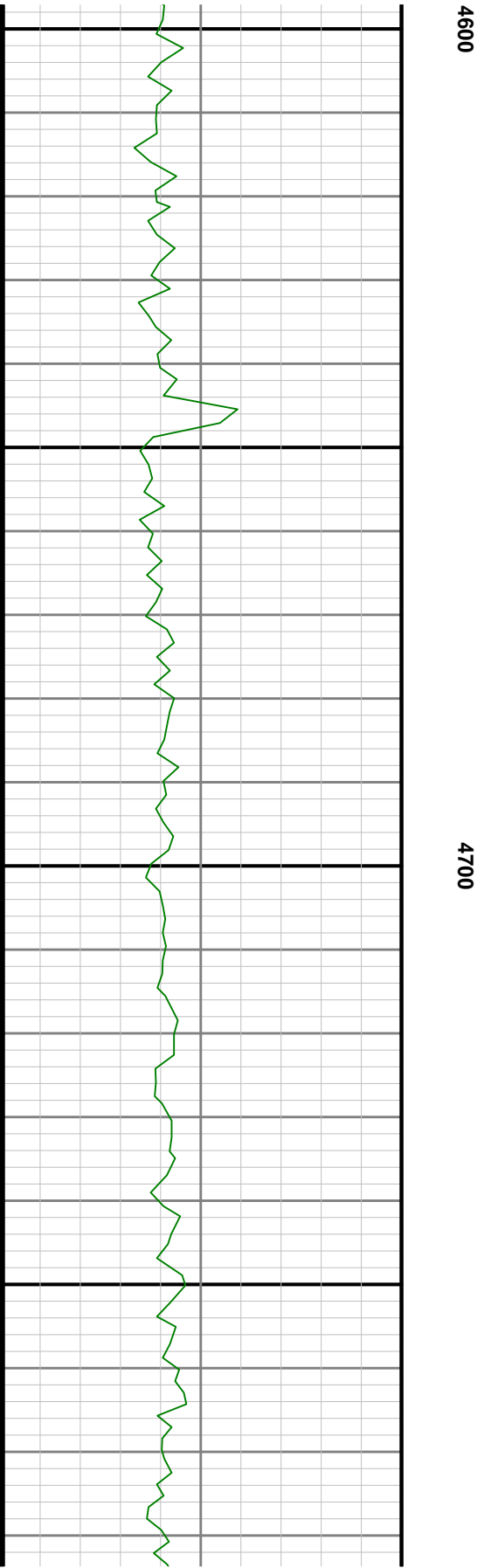
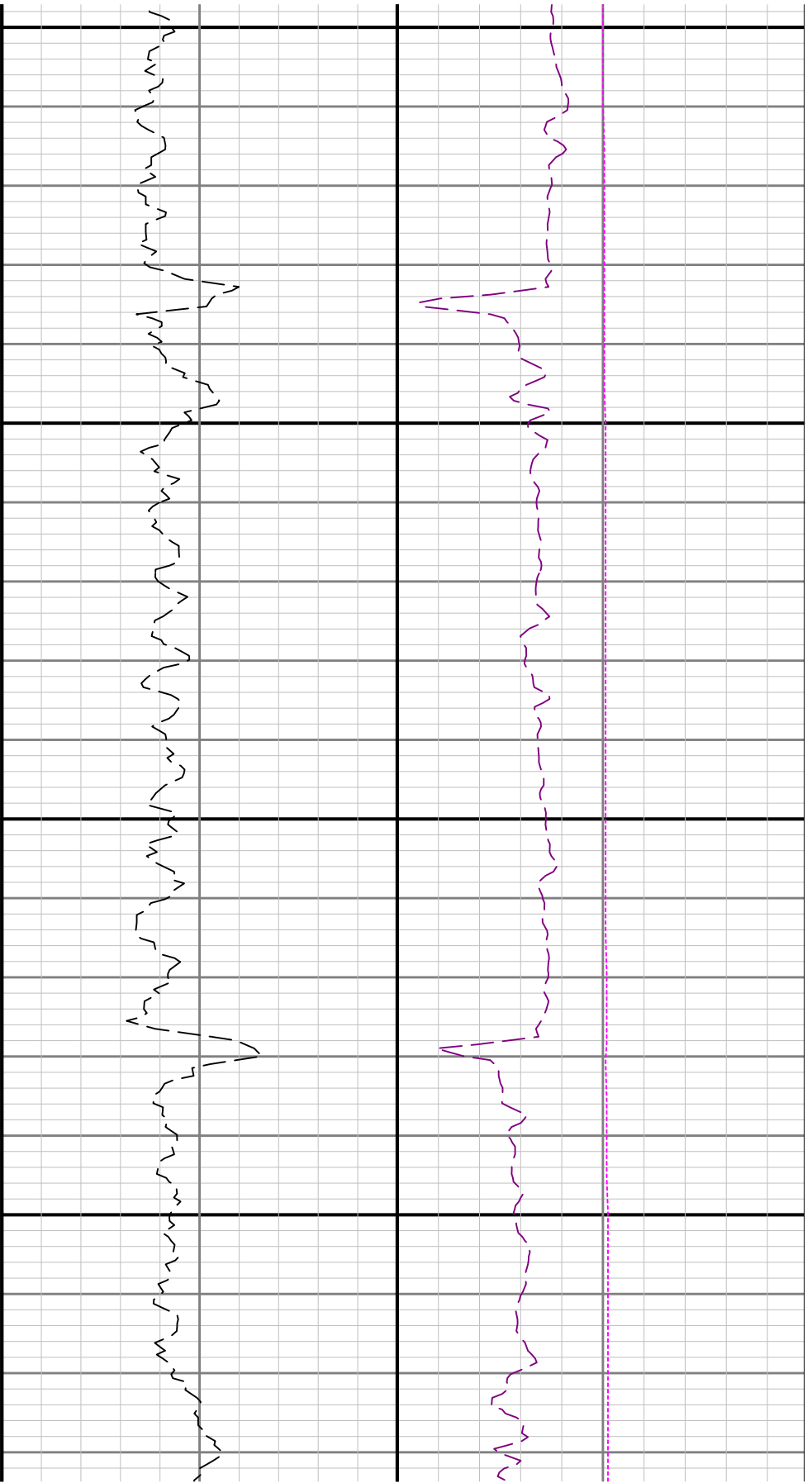


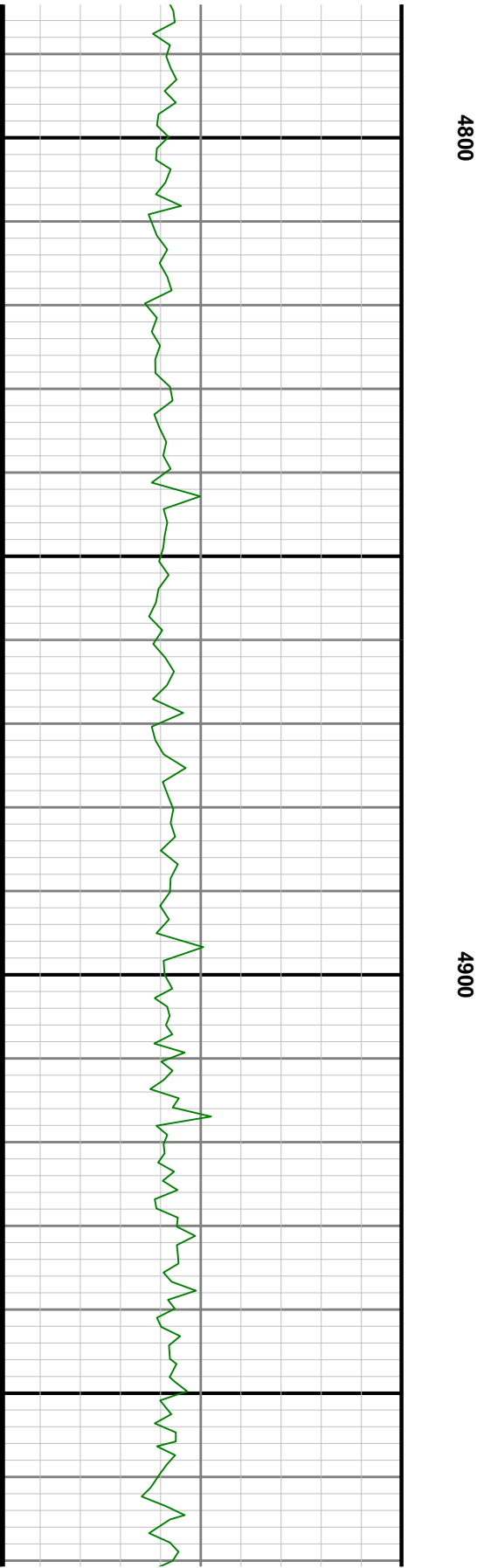
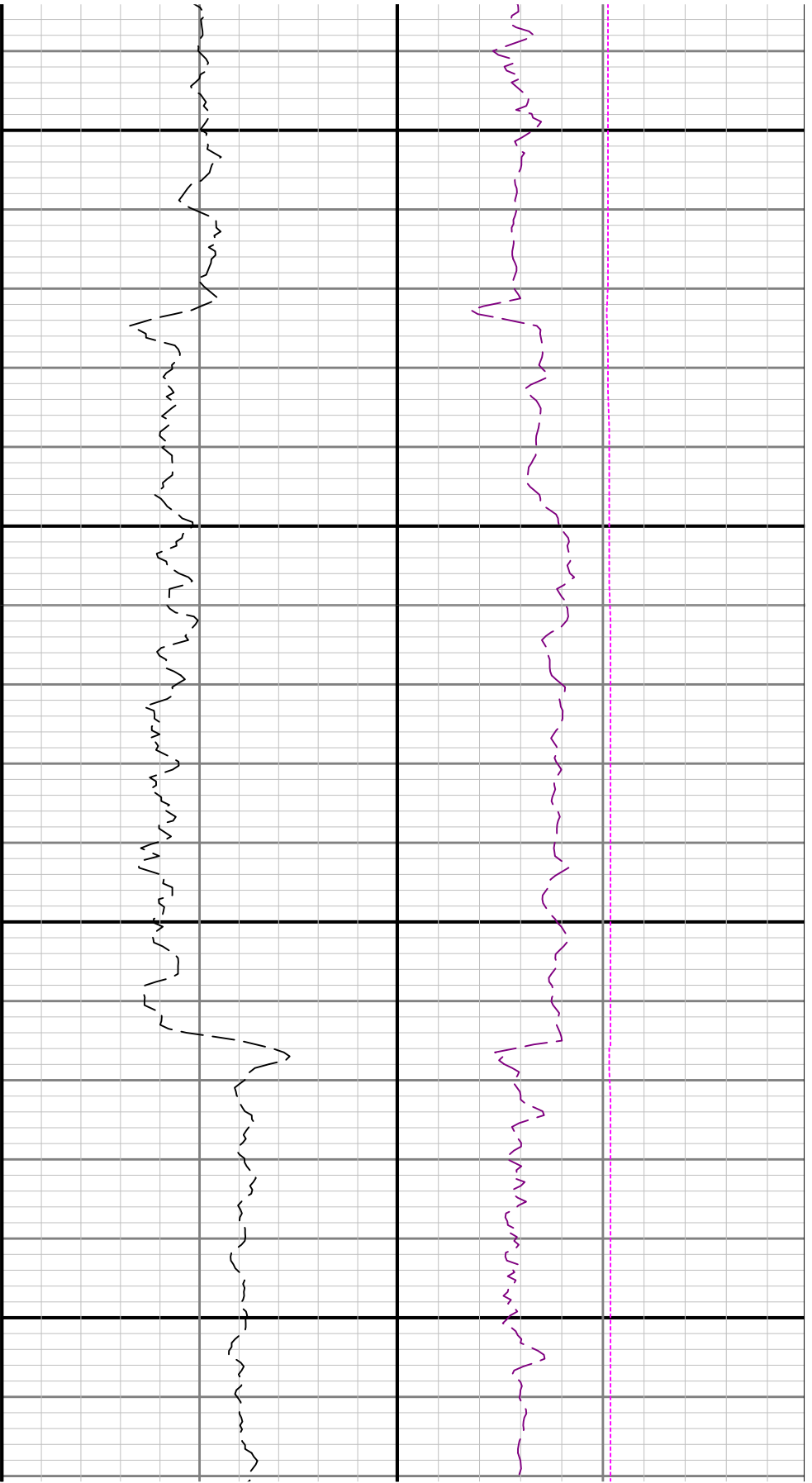


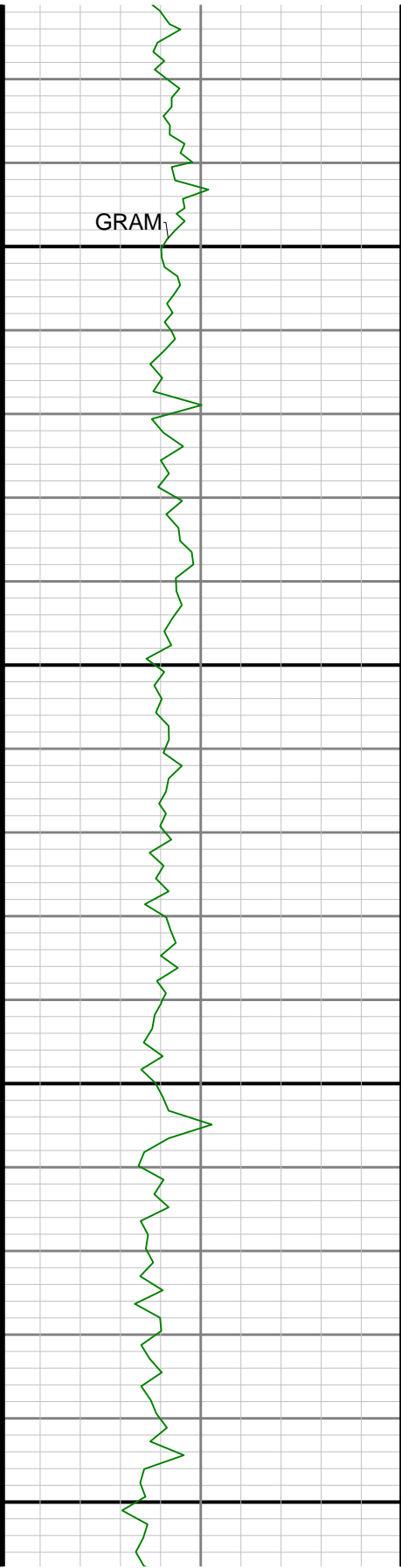
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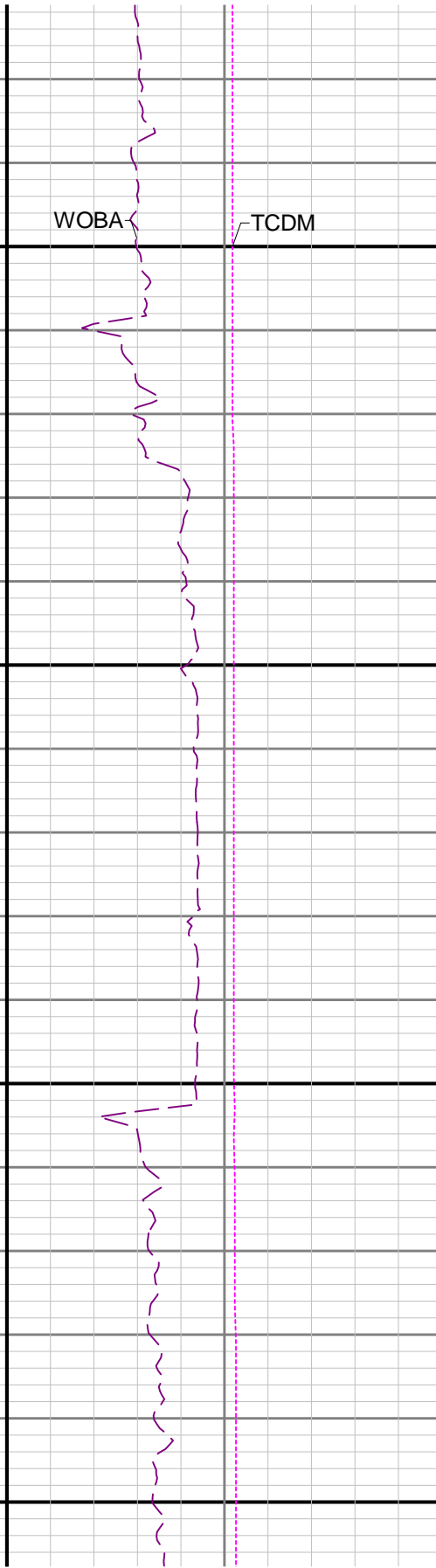
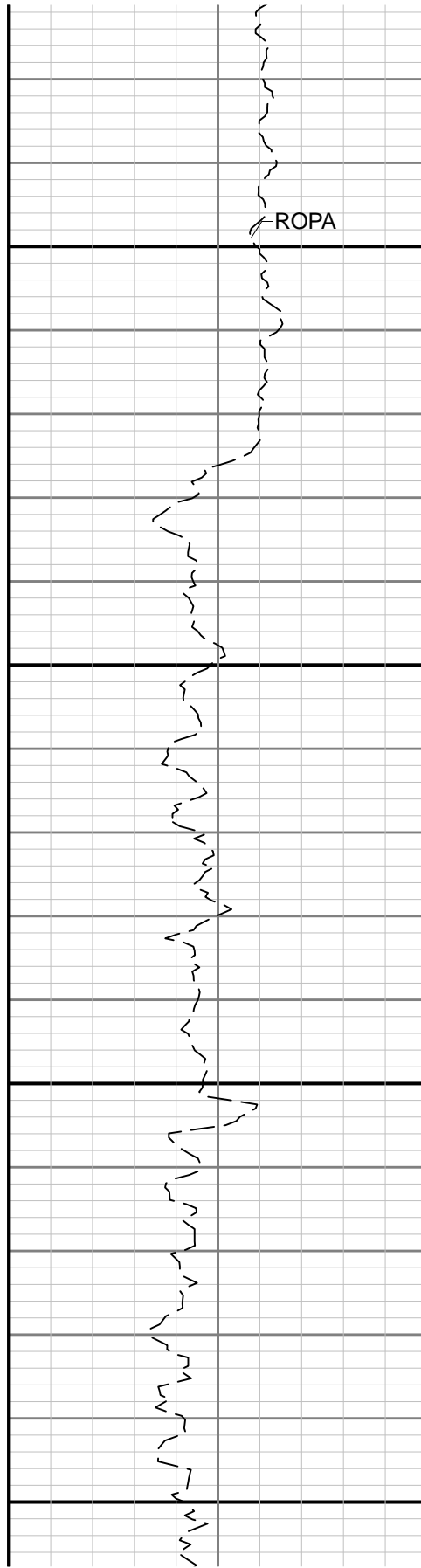


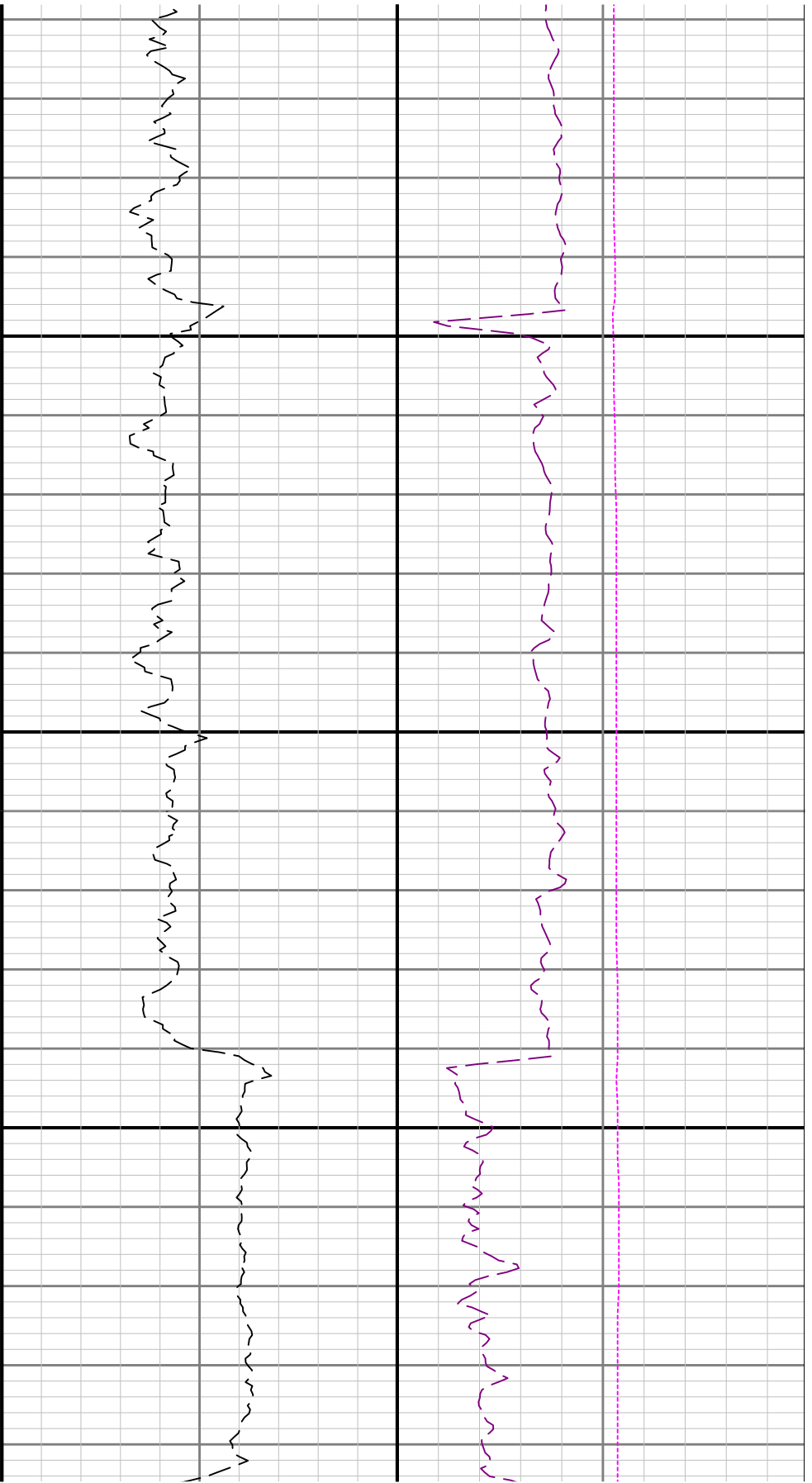


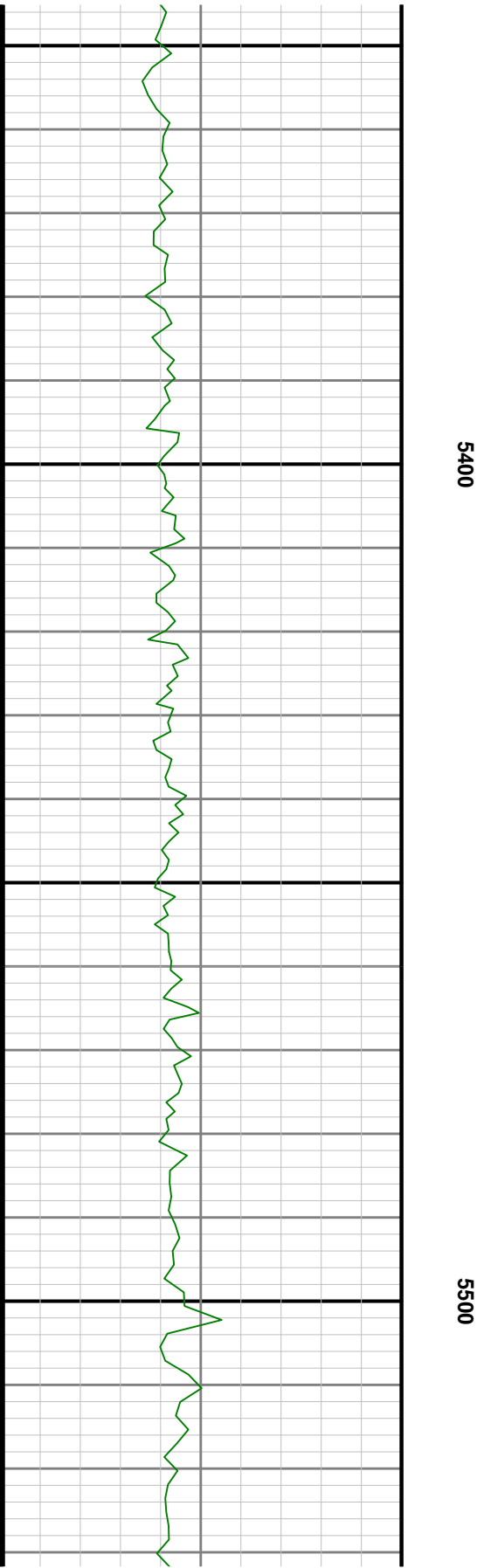
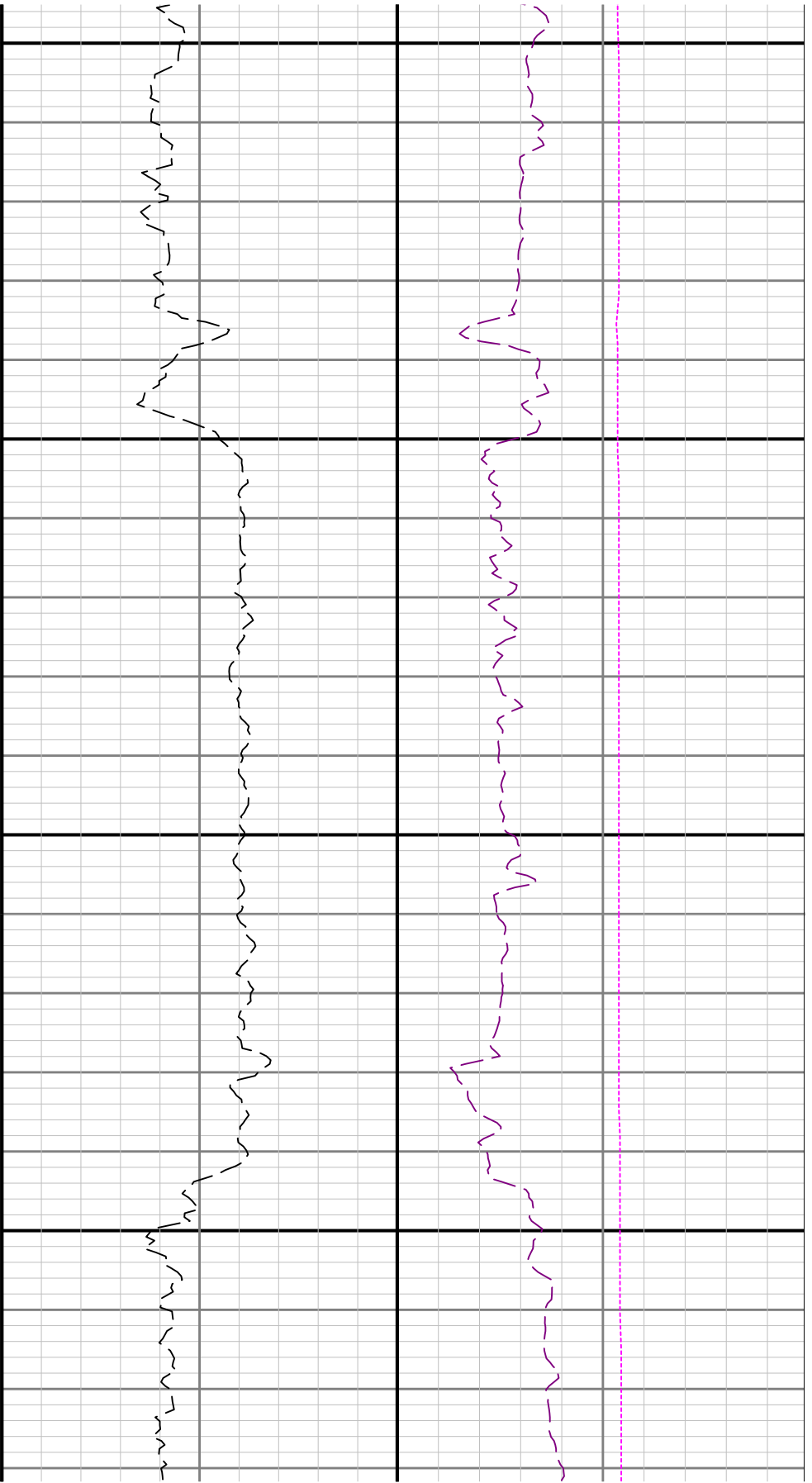


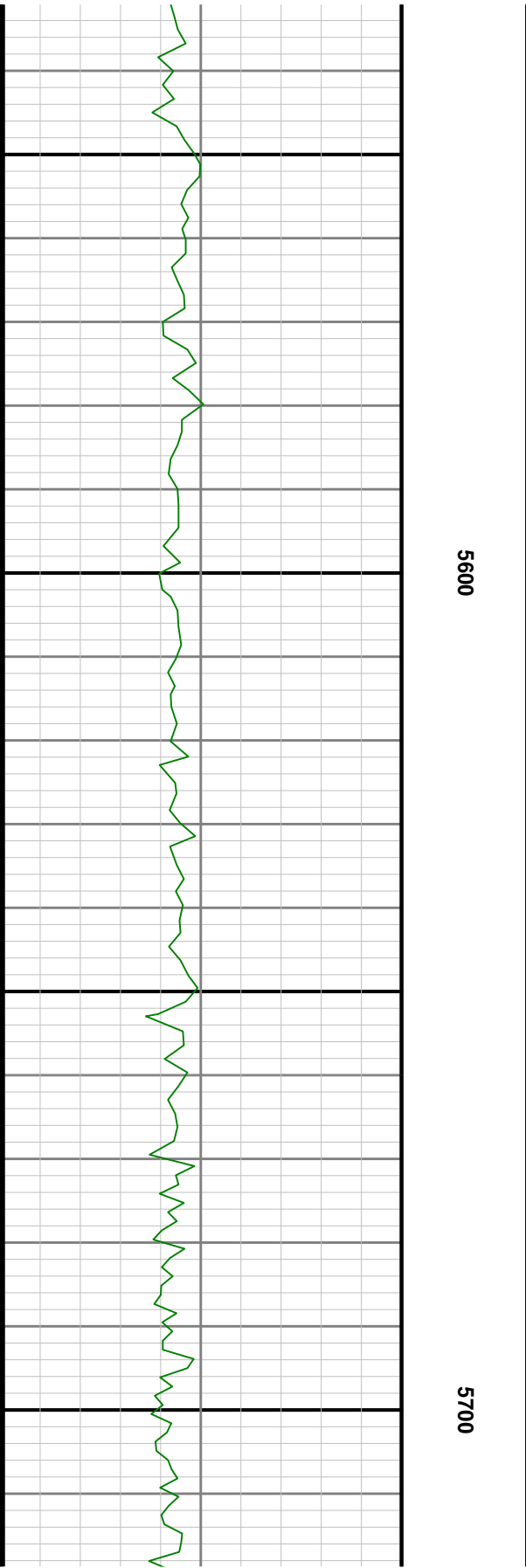
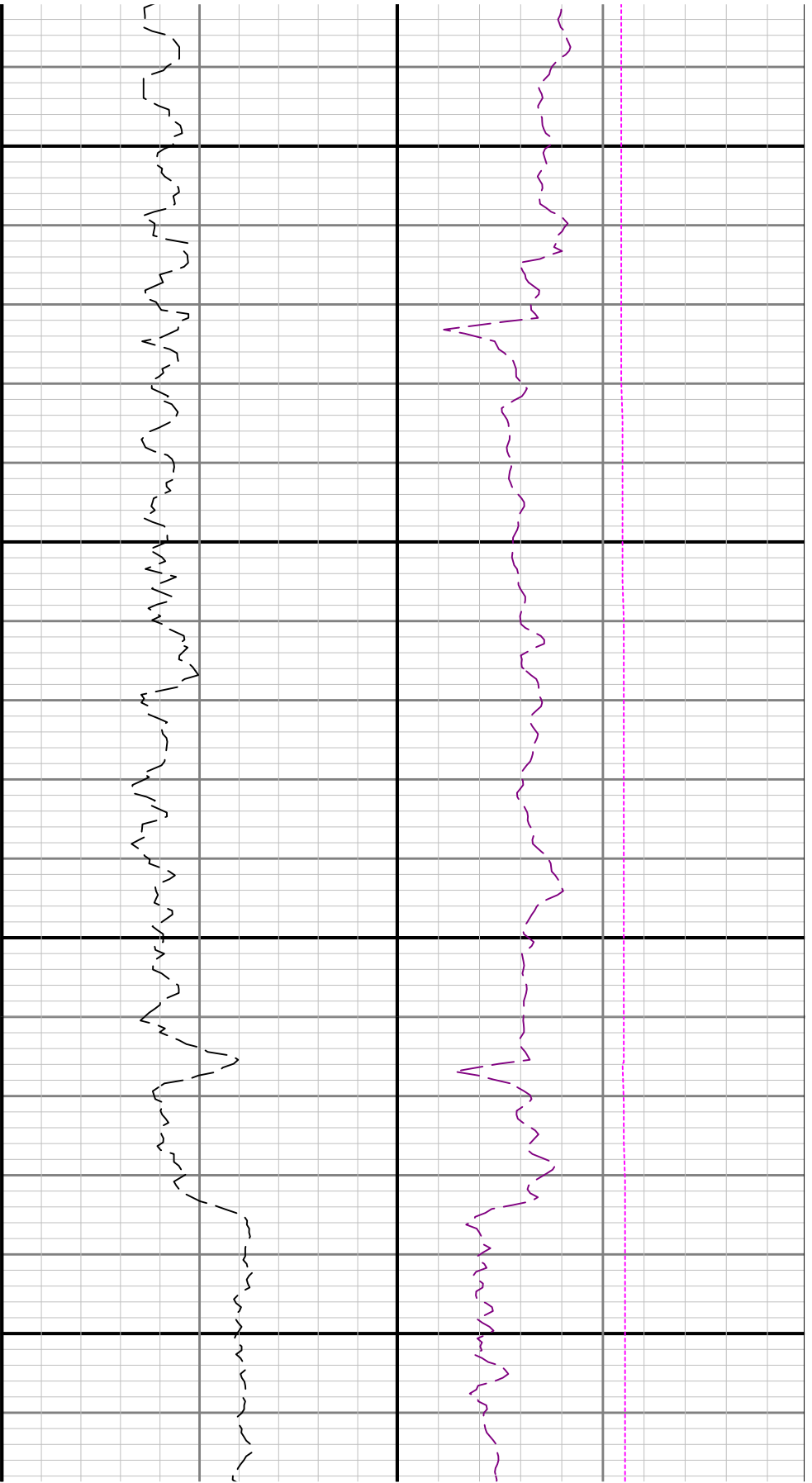
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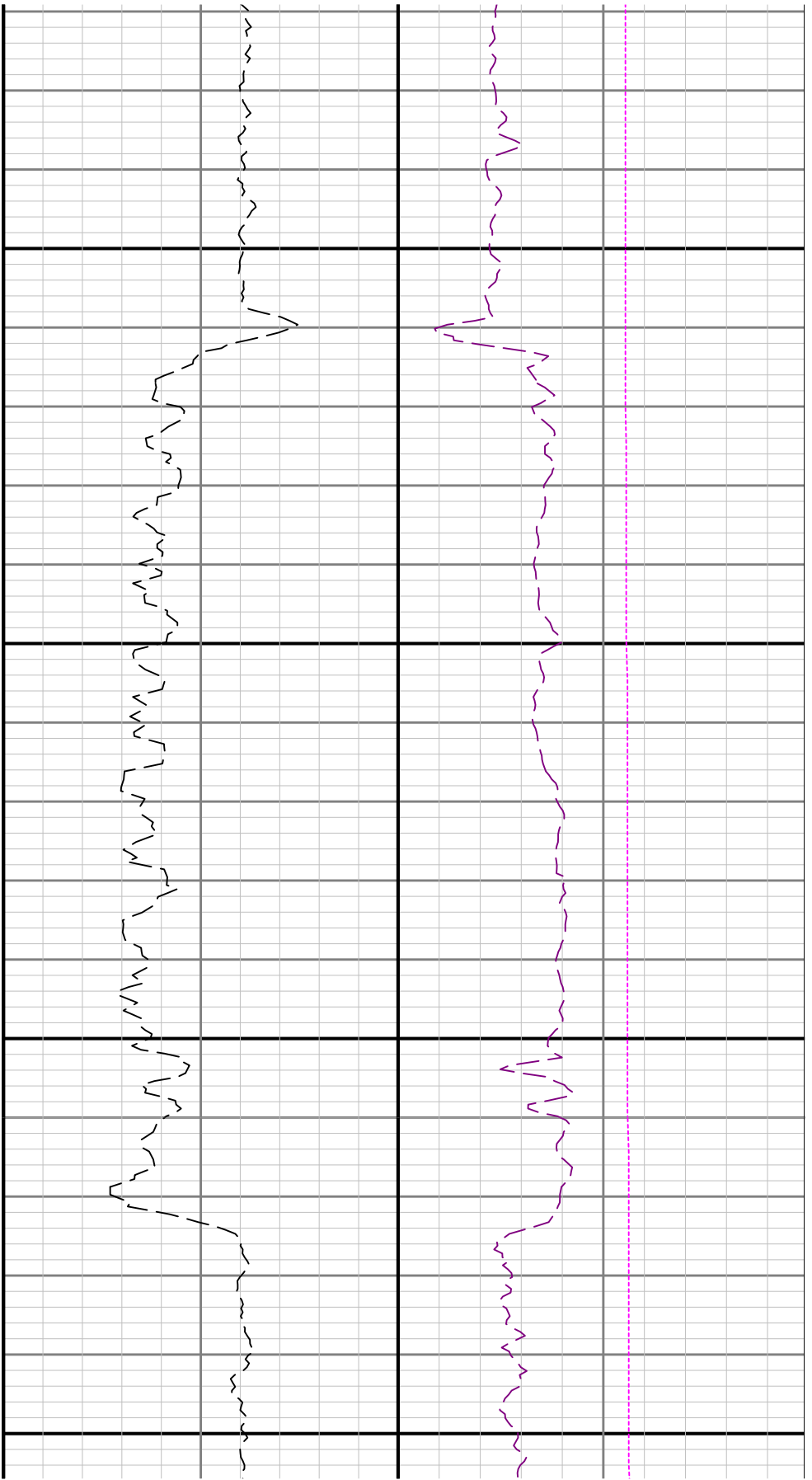
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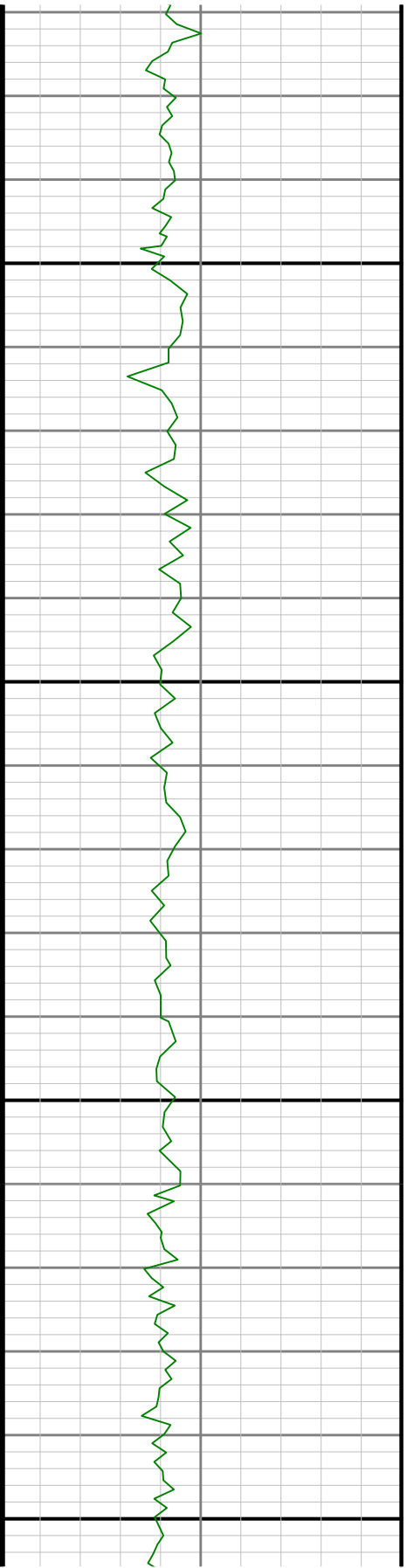


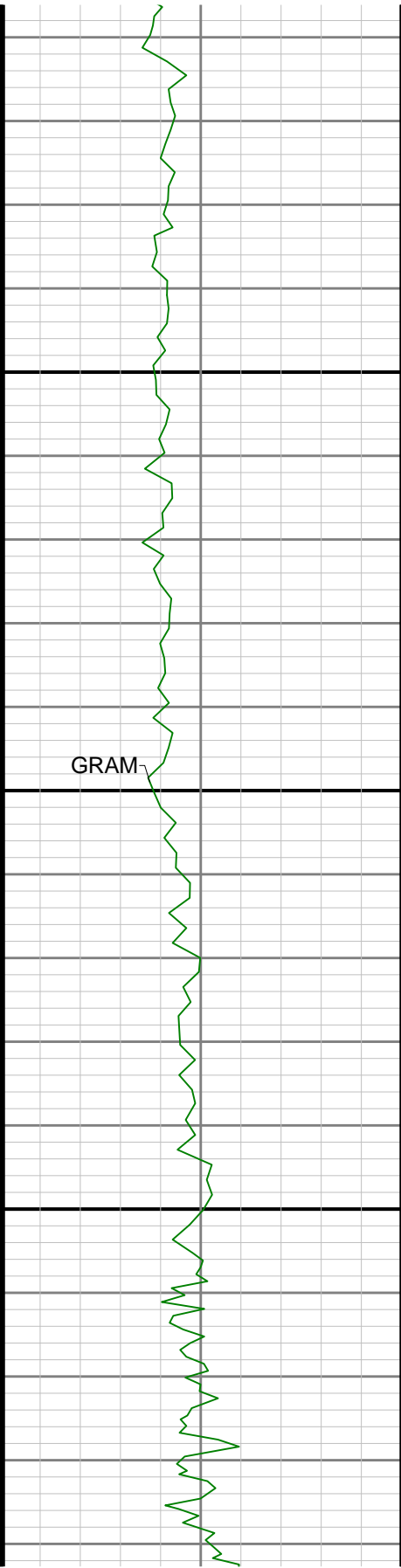




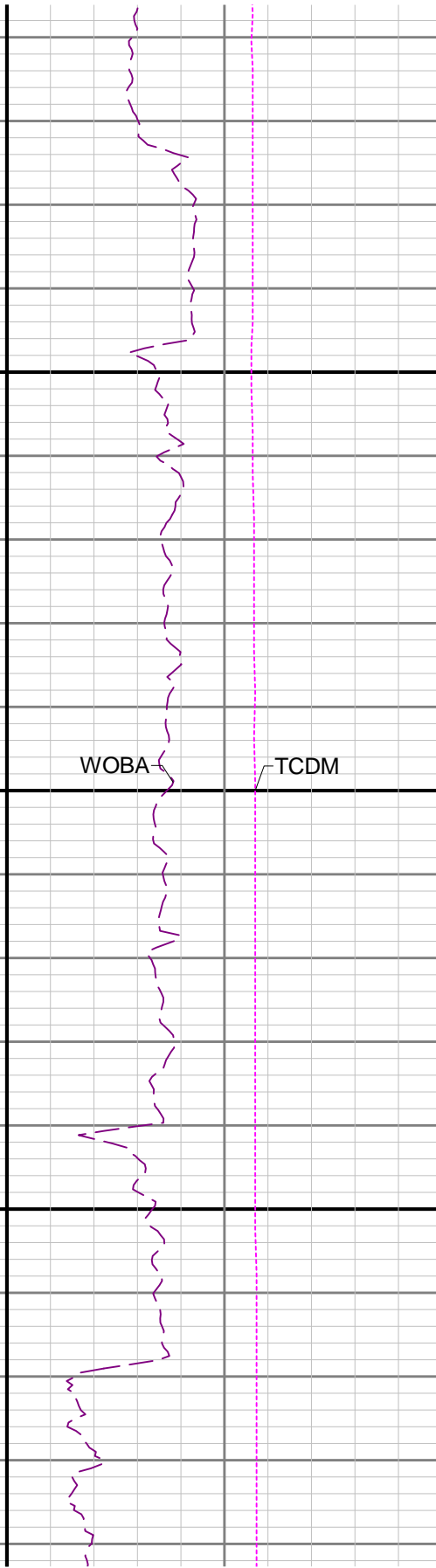
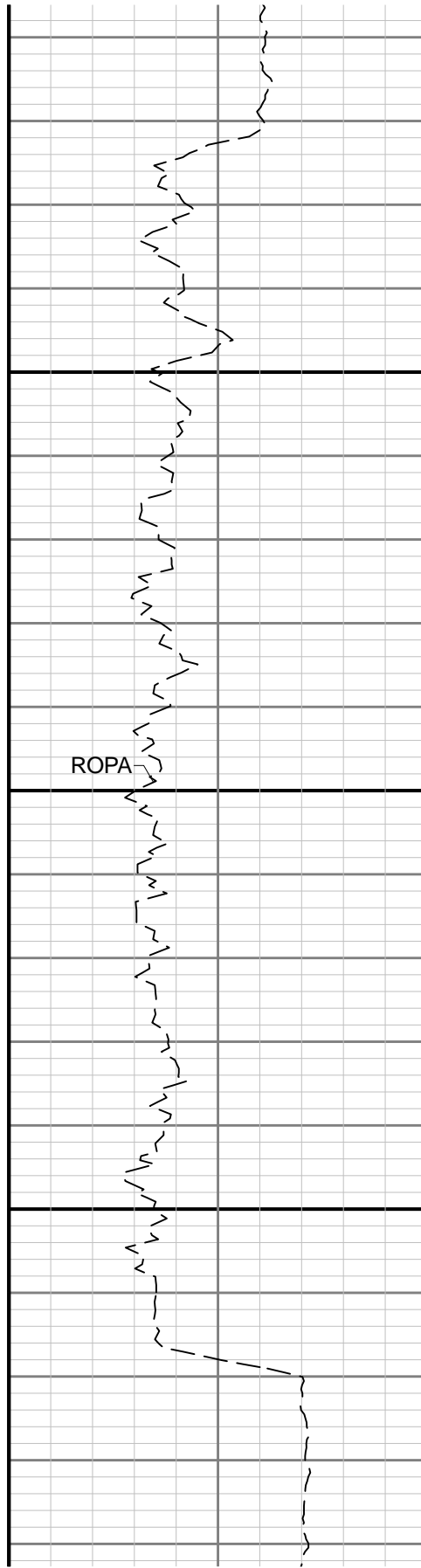
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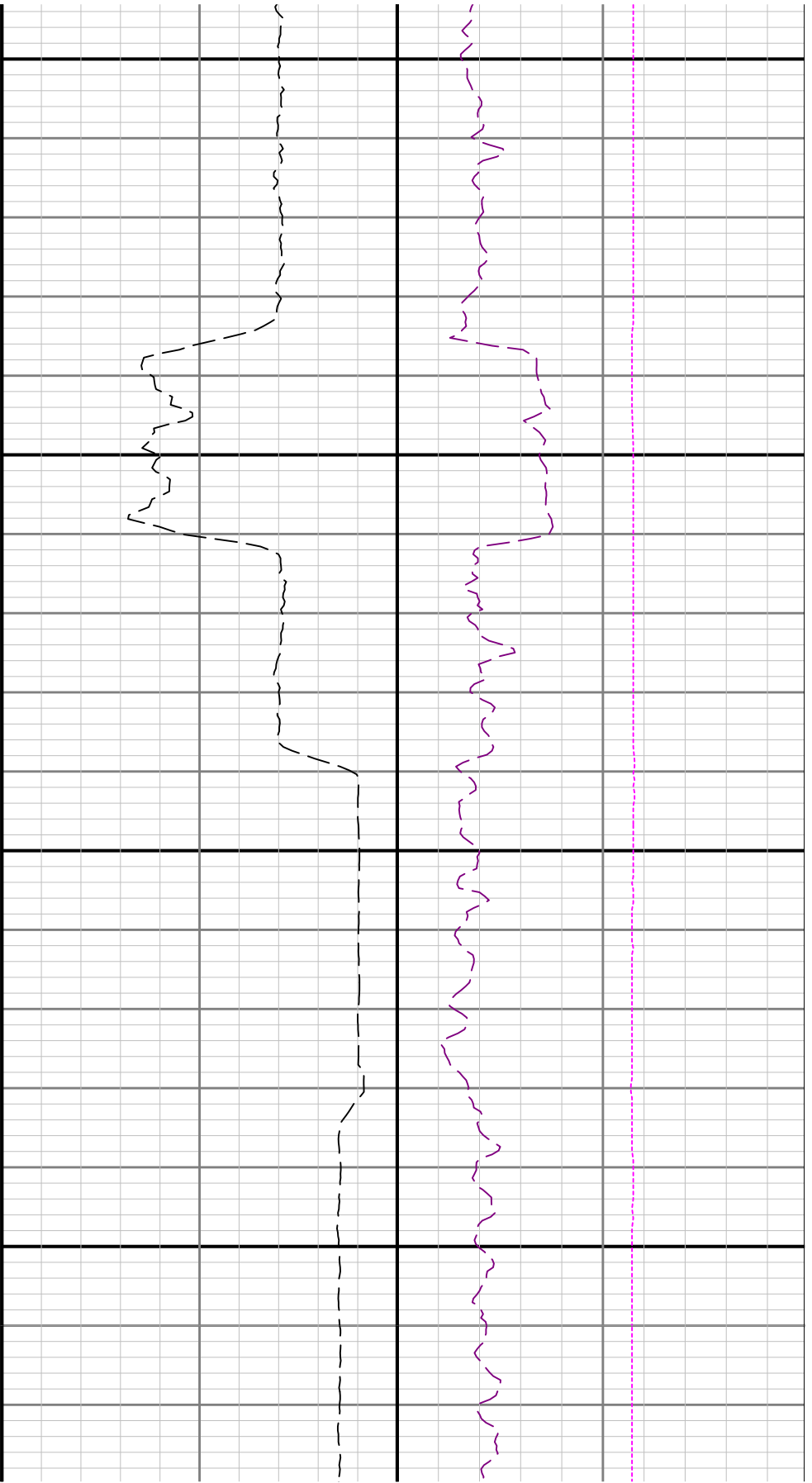




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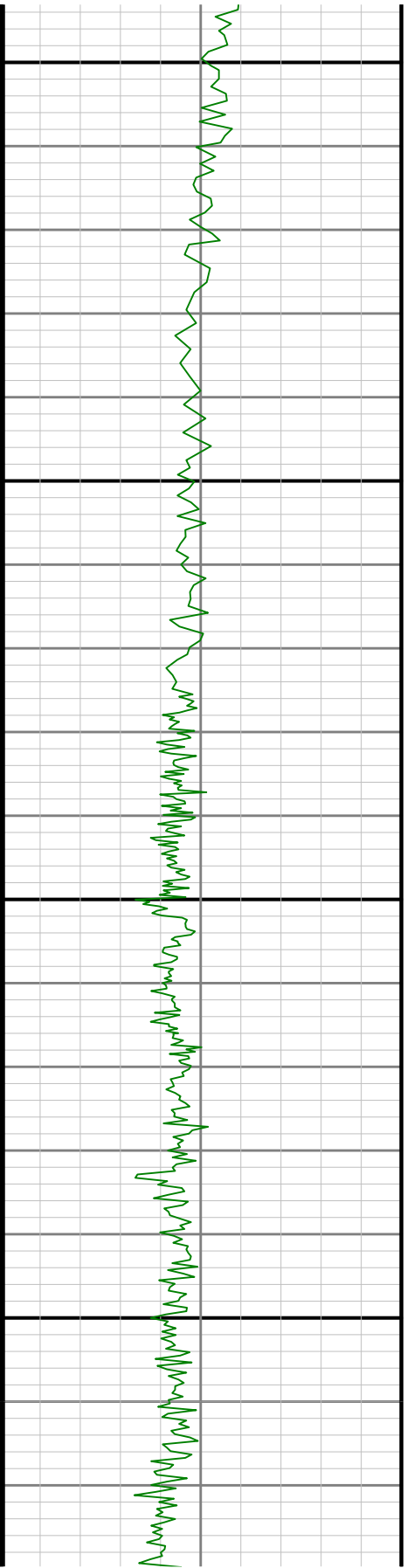


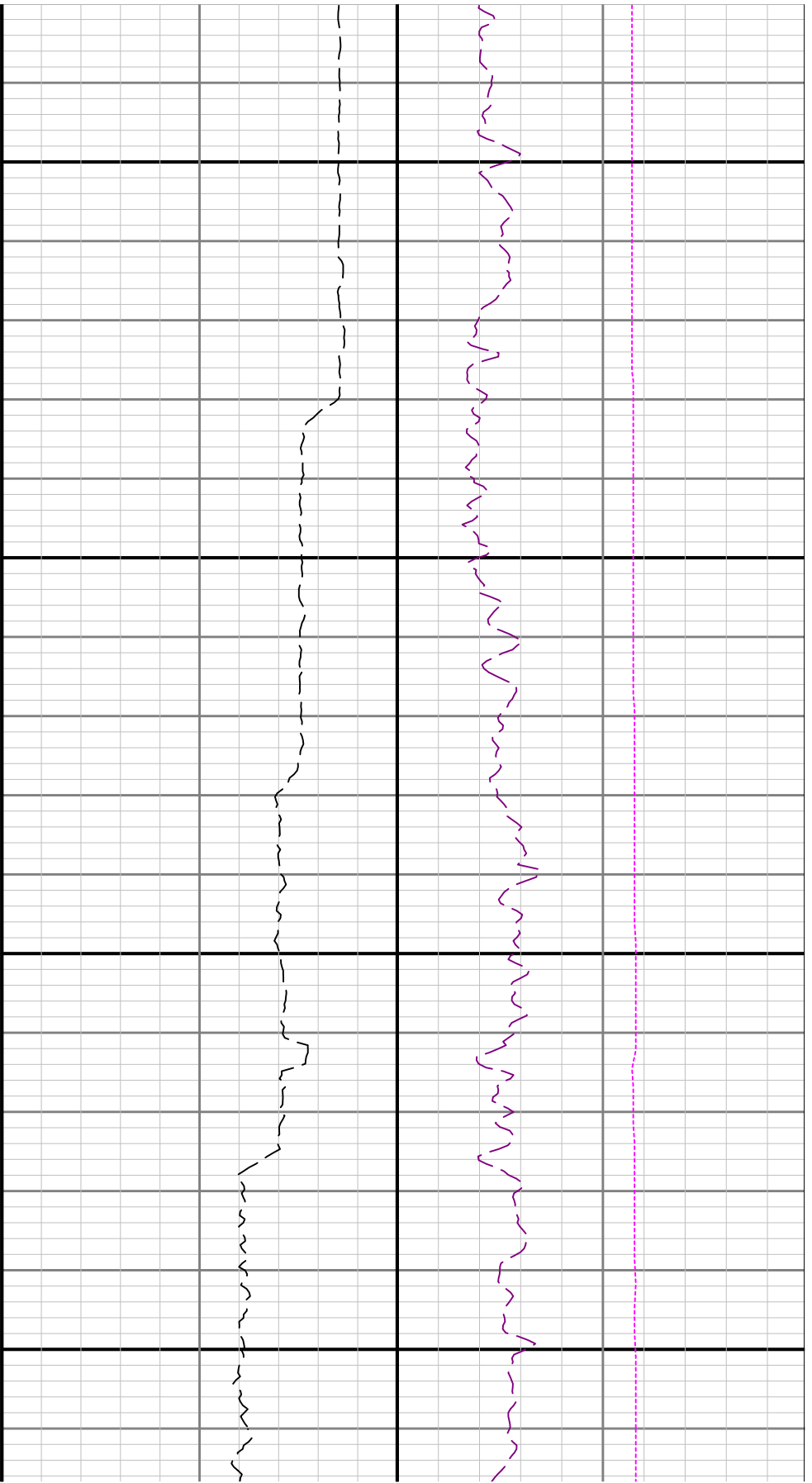




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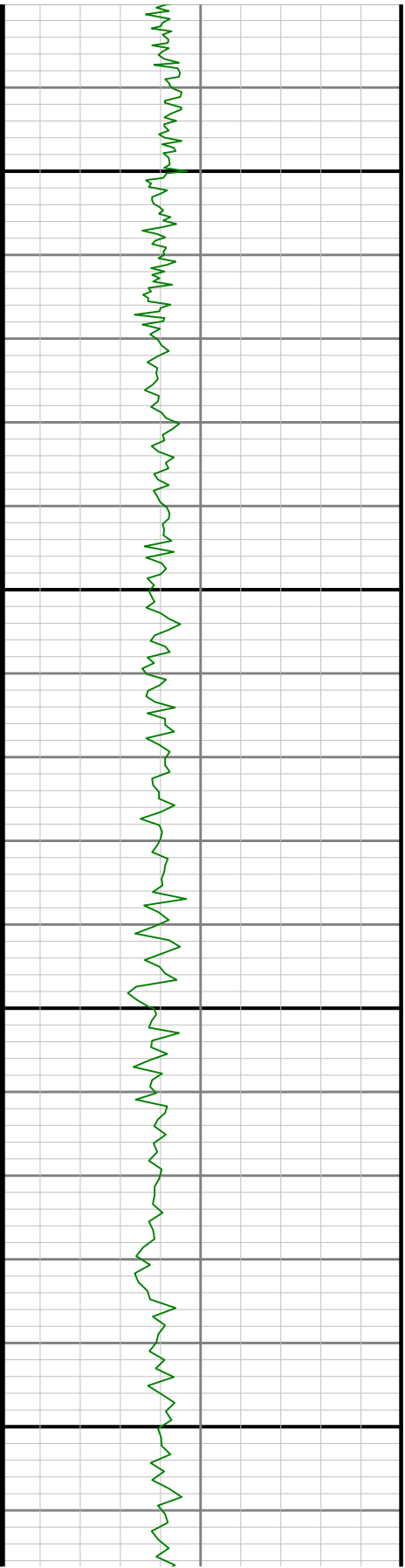
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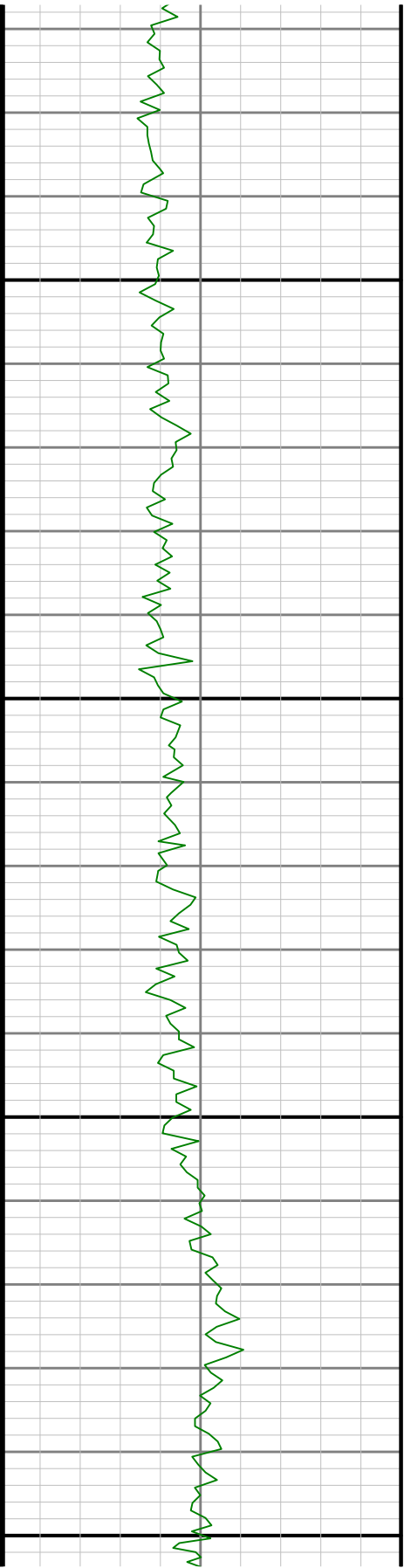




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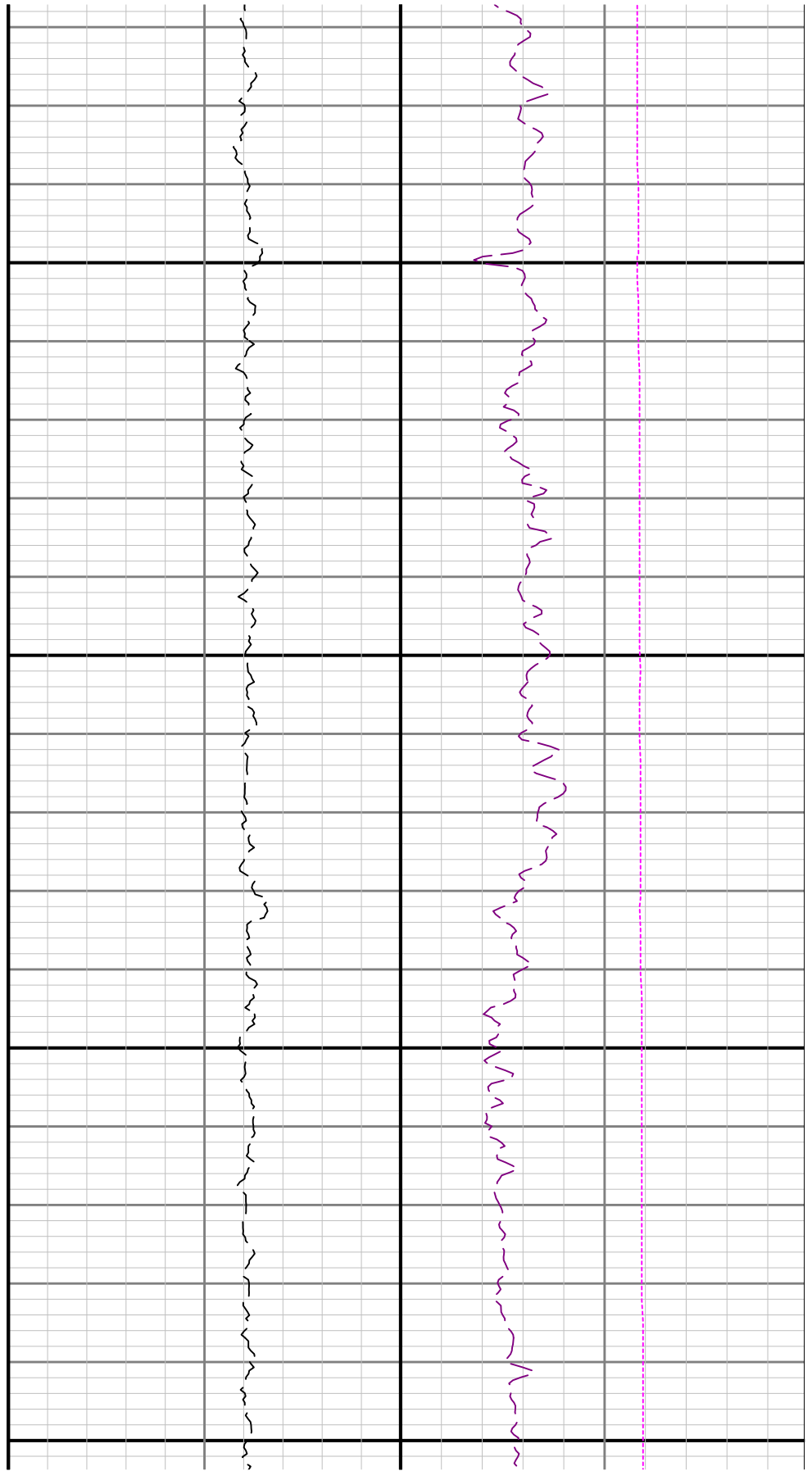
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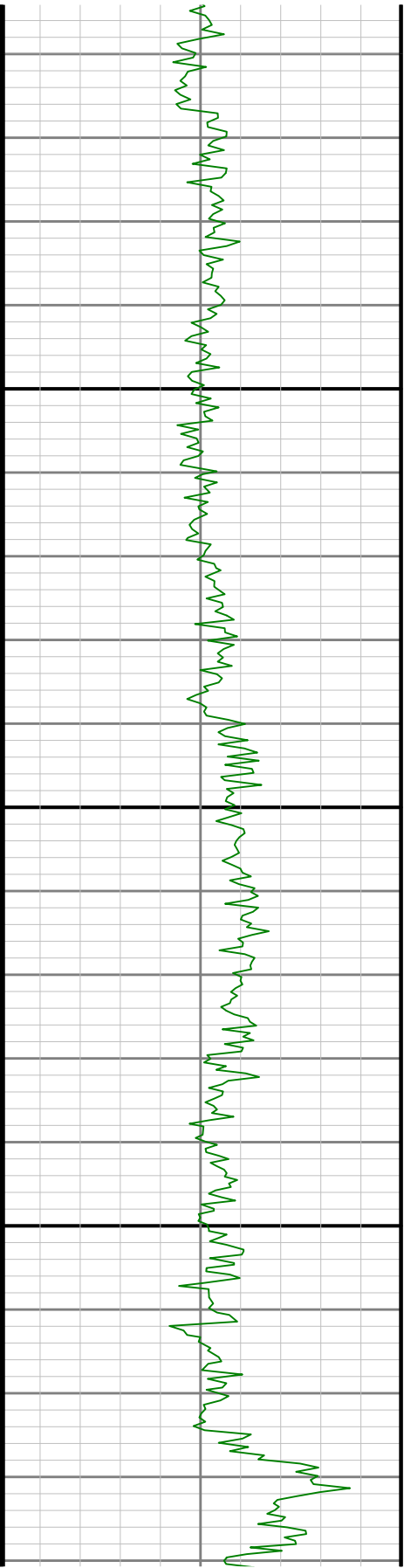




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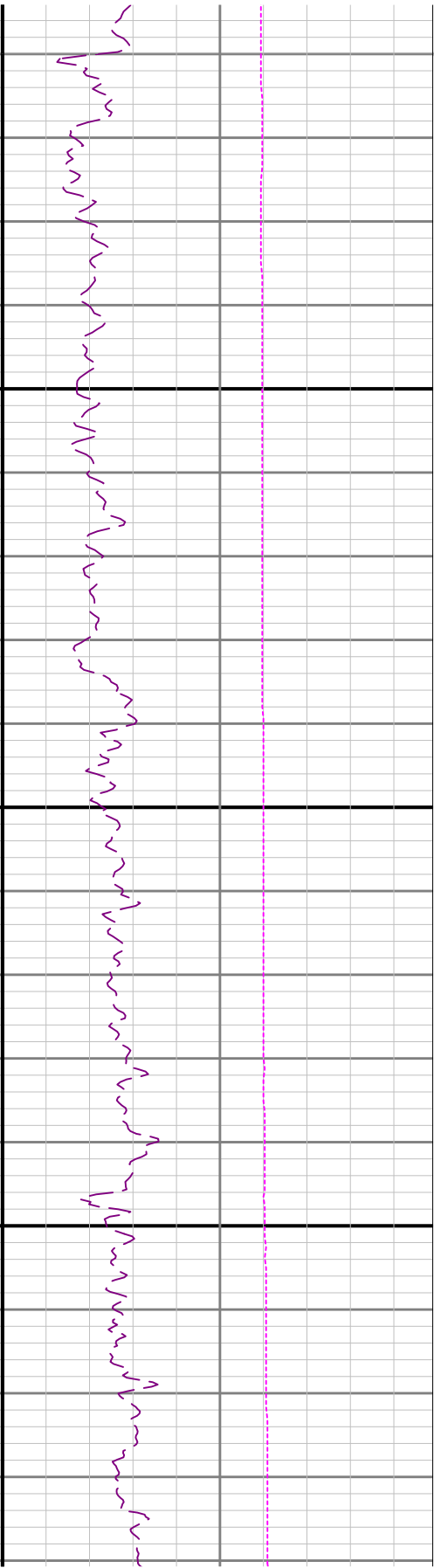
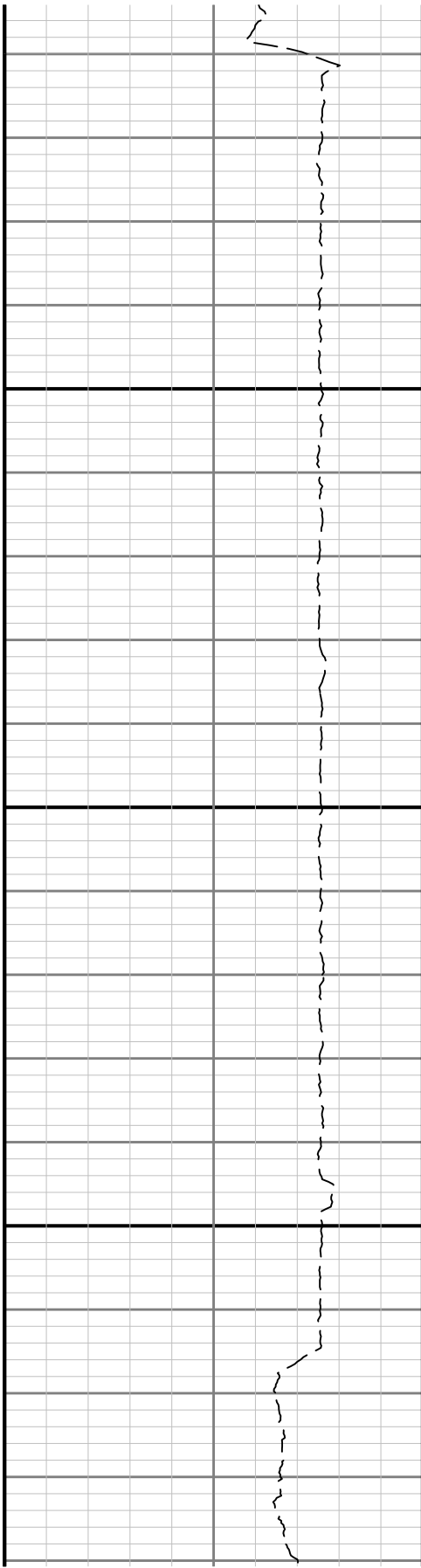
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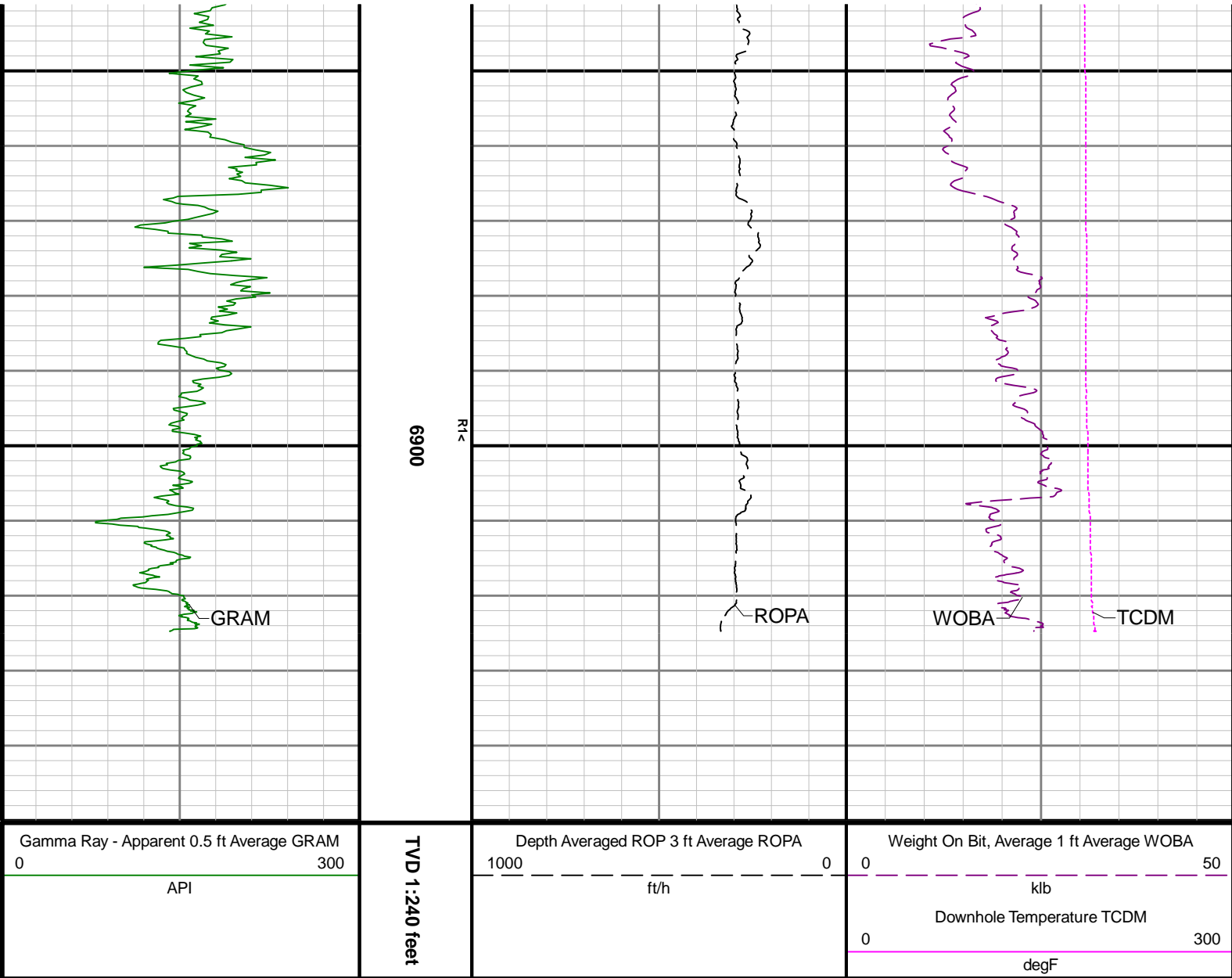




6700

6800





## Directional Survey Summary

Latitude: 69.4111	Longitude: -149.8167
North Reference: Grid	Drill Depth Zero: Rig Floor
Vertical Datum is: Ground Level	Vertical Datum to DDZ: (ft) 30.00
Vertical Section North: (ft) 0.00	Vertical Section East: (ft) 0.00
Vertical Section Azimuth: (deg) 180.91	
Grid Convergence: (deg) -0.61	Magnetic Declination: (deg) 8.06
Total Correction: (deg) 7.45	TVD Calculation Method: Minimum Curvature
Magnetic Correction: On	Local Magnetic Field: (nT) 52267
Local Magnetic Dip Angle: (deg) 66.66	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	-4942.00	0.00	0.00	0.00	0.00	0.00
	81.00	0.87	108.61	N/A	-0.20	0.58	81.00	-4861.00	0.19	81.00	1.07	1.07	134.09
	176.00	0.58	126.76	N/A	-0.71	1.65	175.99	-4766.01	0.69	95.00	0.39	-0.31	19.11
	267.00	1.06	67.94	N/A	-0.67	2.80	266.98	-4675.02	0.63	91.00	1.00	0.53	-64.64

		361.00	0.77	34.95	N/A	0.17	3.97	360.97	-4581.03	-0.23	94.00	0.63	-0.31	-35.10
		456.00	0.74	34.88	N/A	1.20	4.68	455.96	-4486.04	-1.27	95.00	0.03	-0.03	-0.07
		550.00	0.61	327.41	N/A	2.12	4.76	549.96	-4392.04	-2.19	94.00	0.81	-0.14	-71.78
		645.00	0.21	37.17	N/A	2.68	4.60	644.95	-4297.05	-2.75	95.00	0.60	-0.42	73.43
		739.00	0.81	73.92	N/A	3.00	5.34	738.95	-4203.05	-3.09	94.00	0.70	0.64	39.10
		834.00	0.48	44.91	N/A	3.47	6.26	833.94	-4108.06	-3.57	95.00	0.48	-0.35	-30.54
		929.00	0.19	351.73	N/A	3.91	6.52	928.94	-4013.06	-4.01	95.00	0.42	-0.31	-55.98
		1023.00	0.32	271.83	N/A	4.07	6.24	1022.94	-3919.06	-4.17	94.00	0.36	0.14	-85.00
		1118.00	0.09	138.98	N/A	4.02	6.02	1117.94	-3824.06	-4.12	95.00	0.41	-0.24	-139.84
		1213.00	0.22	24.67	N/A	4.13	6.15	1212.94	-3729.06	-4.23	95.00	0.28	0.14	-120.33
		1307.00	0.12	56.92	N/A	4.35	6.30	1306.94	-3635.06	-4.45	94.00	0.14	-0.11	34.31
		1402.00	0.38	332.73	N/A	4.68	6.24	1401.94	-3540.06	-4.78	95.00	0.41	0.27	-88.62
		1496.00	0.81	354.52	N/A	5.62	6.04	1495.93	-3446.07	-5.72	94.00	0.51	0.46	23.18
		1591.00	1.37	340.49	N/A	7.36	5.59	1590.92	-3351.08	-7.45	95.00	0.65	0.59	-14.77
		1685.00	0.80	340.68	N/A	9.04	5.00	1684.90	-3257.10	-9.12	94.00	0.61	-0.61	0.20
		1780.00	0.72	342.35	N/A	10.24	4.60	1779.89	-3162.11	-10.31	95.00	0.09	-0.08	1.76
		1875.00	0.61	357.68	N/A	11.31	4.40	1874.89	-3067.11	-11.38	95.00	0.22	-0.12	16.14
		1969.00	0.51	22.72	N/A	12.19	4.54	1968.88	-2973.12	-12.27	94.00	0.28	-0.11	26.64
Tie-In		2044.00	0.10	72.83	N/A	12.52	4.73	2043.88	-2898.12	-12.60	75.00	0.60	-0.55	66.81
		2075.00	0.50	176.85	N/A	12.40	4.77	2074.88	-2867.12	-12.47	31.00	1.72	1.29	335.55
		2169.00	1.33	347.11	N/A	13.05	4.54	2168.87	-2773.13	-13.12	94.00	1.94	0.88	181.13
		2264.00	4.54	333.27	N/A	17.48	2.61	2263.74	-2678.26	-17.52	95.00	3.44	3.38	-14.57
		2359.00	7.17	336.74	N/A	26.29	-1.43	2358.23	-2583.77	-26.26	95.00	2.79	2.77	3.65
		2453.00	7.36	333.04	N/A	37.05	-6.47	2451.48	-2490.52	-36.94	94.00	0.54	0.20	-3.94
		2548.00	7.02	321.91	N/A	47.04	-12.81	2545.74	-2396.26	-46.83	95.00	1.51	-0.36	-11.72
		2642.00	7.09	328.98	N/A	56.53	-19.35	2639.03	-2302.97	-56.22	94.00	0.93	0.07	7.52
		2737.00	7.10	332.29	N/A	66.75	-25.10	2733.30	-2208.70	-66.35	95.00	0.43	0.01	3.48
		2832.00	7.19	338.64	N/A	77.49	-29.99	2827.56	-2114.44	-77.00	95.00	0.84	0.09	6.68
		2926.00	7.16	333.67	N/A	88.22	-34.73	2920.83	-2021.17	-87.65	94.00	0.66	-0.03	-5.29
		3021.00	7.18	322.57	N/A	98.24	-40.97	3015.09	-1926.91	-97.57	95.00	1.46	0.02	-11.68
		3116.00	7.04	317.11	N/A	107.22	-48.54	3109.36	-1832.64	-106.43	95.00	0.73	-0.15	-5.75
		3210.00	7.10	312.75	N/A	115.38	-56.73	3202.65	-1739.35	-114.47	94.00	0.57	0.06	-4.64
		3305.00	7.00	311.41	N/A	123.20	-65.38	3296.93	-1645.07	-122.14	95.00	0.20	-0.11	-1.41
		3399.00	7.04	311.46	N/A	130.80	-73.99	3390.22	-1551.78	-129.61	94.00	0.04	0.04	0.05
		3494.00	6.96	315.52	N/A	138.76	-82.39	3484.52	-1457.48	-137.43	95.00	0.53	-0.08	4.27
		3589.00	7.16	323.16	N/A	147.61	-89.97	3578.80	-1363.20	-146.16	95.00	1.01	0.21	8.04
		3683.00	7.18	323.55	N/A	157.02	-96.97	3672.06	-1269.94	-155.46	94.00	0.06	0.02	0.41
		3778.00	7.28	331.42	N/A	167.08	-103.38	3766.31	-1175.69	-165.42	95.00	1.05	0.11	8.28
		3873.00	7.38	335.36	N/A	177.91	-108.80	3860.53	-1081.47	-176.16	95.00	0.54	0.11	4.15
		3967.00	7.36	332.52	N/A	188.74	-114.10	3953.76	-988.24	-186.90	94.00	0.39	-0.02	-3.02
		4062.00	7.42	314.87	N/A	198.47	-121.25	4047.98	-894.02	-196.52	95.00	2.38	0.06	-18.58
		4156.00	7.37	293.30	N/A	205.14	-131.09	4141.22	-800.78	-203.03	94.00	2.94	-0.05	-22.95
		4251.00	6.79	283.98	N/A	208.90	-142.14	4235.50	-706.50	-206.62	95.00	1.35	-0.61	-9.81
		4345.00	7.28	294.16	N/A	212.68	-152.97	4328.79	-613.21	-210.23	94.00	1.42	0.52	10.83
		4440.00	7.28	305.31	N/A	218.63	-163.37	4423.03	-518.97	-216.00	95.00	1.48	0.00	11.74
		4534.00	7.43	310.47	N/A	226.01	-172.86	4516.26	-425.74	-223.24	94.00	0.72	0.16	5.49
		4629.00	7.43	310.45	N/A	233.99	-182.20	4610.46	-331.54	-231.06	95.00	0.00	0.00	-0.02
		4723.00	7.30	310.26	N/A	241.79	-191.39	4703.68	-238.32	-238.72	94.00	0.14	-0.14	-0.20
		4818.00	7.26	320.79	N/A	250.34	-199.79	4797.92	-144.08	-247.14	95.00	1.40	-0.04	11.08
		4912.00	7.16	326.80	N/A	259.84	-206.75	4891.18	-50.82	-256.53	94.00	0.81	-0.11	6.39
		5007.00	7.24	336.16	N/A	270.27	-212.41	4985.43	43.43	-266.87	95.00	1.24	0.08	9.85
		5102.00	7.26	336.60	N/A	281.26	-217.21	5079.68	137.68	-277.77	95.00	0.06	0.02	0.46
		5196.00	7.27	335.05	N/A	292.10	-222.08	5172.92	230.92	-288.54	94.00	0.21	0.01	-1.65
		5291.00	7.28	337.75	N/A	303.12	-226.90	5267.16	325.16	-299.48	95.00	0.36	0.01	2.84
		5385.00	7.21	343.60	N/A	314.29	-230.82	5360.41	418.41	-310.59	94.00	0.79	-0.07	6.22
		5480.00	7.29	343.72	N/A	325.80	-234.19	5454.65	512.65	-322.04	95.00	0.09	0.08	0.13
		5574.00	7.31	339.16	N/A	337.11	-237.99	5547.89	605.89	-333.29	94.00	0.62	0.02	-4.85
		5669.00	7.35	342.19	N/A	348.55	-242.00	5642.11	700.11	-344.66	95.00	0.41	0.04	3.19
		5763.00	7.31	335.39	N/A	359.71	-246.33	5735.34	793.34	-355.75	94.00	0.92	-0.04	-7.23
		5858.00	7.24	321.60	N/A	369.90	-252.56	5829.59	887.59	-365.84	95.00	1.84	-0.07	-14.52
		5953.00	7.17	319.32	N/A	379.08	-260.15	5923.84	981.84	-374.90	95.00	0.31	-0.07	-2.40
		6047.00	5.42	333.74	N/A	387.51	-265.94	6017.27	1075.27	-383.24	94.00	2.50	-1.86	15.34
		6142.00	5.45	343.74	N/A	395.98	-268.44	6141.85	1168.85	-394.45	95.00	2.73	-2.11	16.34
		6237.00	5.48	353.74	N/A	404.45	-270.94	6266.43	1262.43	-405.66	94.00	2.96	-2.14	17.34
		6332.00	5.51	363.74	N/A	412.92	-273.44	6391.01	1356.01	-416.87	95.00	3.19	-2.17	18.34
		6427.00	5.54	373.74	N/A	421.39	-275.94	6515.59	1449.59	-428.08	94.00	3.42	-2.20	19.34
		6522.00	5.57	383.74	N/A	429.86	-278.44	6640.17	1543.17	-439.29	95.00	3.65	-2.23	20.34
		6617.00	5.60	393.74	N/A	438.33	-280.94	6764.75	1636.75	-450.50	94.00	3.88	-2.26	21.34
		6712.00	5.63	403.74	N/A	446.80	-283.44	6889.33	1730.33	-461.71	95.00	4.11	-2.29	22.34
		6807.00	5.66	413.74	N/A	455.27	-285.94	7013.91	1823.91	-472.92	94.00	4.34	-2.32	23.34
		6902.00	5.69	423.74	N/A	463.74	-288.44	7138.49	1917.49	-484.13	95.00	4.57	-2.35	24.34
		7000.00	5.72	433.74	N/A	472.21	-290.94	7263.07	2011.07	-495.34	94.00	4.80	-2.38	25.34
		7100.00	5.75	443.74	N/A	480.68	-293.44	7387.65	2104.65	-506.55	95.00	5.03	-2.41	26.34
		7200.00	5.78	453.74	N/A	489.15	-295.94	7512.23	2198.23	-517.76	94.00	5.26	-2.44	27.34
		7300.00	5.81	463.74	N/A	497.62	-298.44	7636.81	2291.81	-528.97	95.00	5.49	-2.47	28.34
		7400.00	5.84	473.74	N/A	506.09	-300.94	7761.39	2385.39	-540.18	94.00	5.72	-2.50	29.34
		7500.00	5.87	483.74	N/A	514.56	-303.44	7885.97	2478.97	-551.39	95.00	5.95	-2.53	30.34
		7600.00	5.90	493.74	N/A	523.03	-305.94	8010.55	2572.55	-562.60	94.00	6.18	-2.56	31.34
		7700.00	5.93	503.74	N/A	531.50	-308.44	8135.13	2666.13	-573.81	95.00	6.41	-2.59	32.34
		7800.00	5.96	513.74	N/A	540.00	-310.94	8259.71	2759.71	-585.02	94.00	6.64	-2.62	33.34
		7900.00	5.99	523.74	N/A	548.47	-313.44	8384.29	2853.29	-596.23	95.00	6.87	-2.65	34.34
		8000.00	6.02	533.74	N/A	556.94	-315.94	8508.87	2946.87	-607.44	94.00	7.10	-2.68	35.34
		8100.00	6.05	543.74	N/A	565.41	-318.44	8633.45	3040.45	-618.65	95.00	7.33	-2.71	36.34
		8200.00	6.08	553.74	N/A	573.88	-320.94	8758.03	3134.03	-629.86	94.00	7.56	-2.74	37.34
		8300.00	6.11	563.74	N/A	582.35	-323.44	8882.61	3227.61	-641.07	95.00	7.79	-2.77	38.34
		8400.00	6.14	573.74	N/A	590.82	-325.94	9007.19	3321.19	-652.28	94.00	8.02	-2.80	39.34
		8500.00	6.17	583.74	N/A	599.29	-328.44	9131.77	3414.77	-663.49	95.00			

	6142.00	5.45	340.71	N/A	395.80	-269.41	6111.85	1169.85	-391.47	95.00	0.70	0.03	7.34
	6236.00	7.52	313.80	N/A	404.27	-275.33	6205.26	1263.26	-399.85	94.00	3.85	2.20	-28.63
	6331.00	13.86	236.25	N/A	402.24	-289.35	6298.95	1356.95	-397.59	95.00	14.98	6.67	-81.63
	6425.00	18.37	206.11	N/A	382.64	-305.26	6389.39	1447.39	-377.74	94.00	9.95	4.80	-32.06
	6520.00	25.04	204.71	N/A	350.90	-320.27	6477.60	1535.60	-345.77	95.00	7.04	7.02	-1.47
	6614.00	30.53	199.93	N/A	310.35	-336.74	6560.74	1618.74	-304.96	94.00	6.30	5.84	-5.09
	6709.00	34.99	189.19	N/A	260.71	-349.33	6640.68	1698.68	-255.12	95.00	7.70	4.69	-11.31
	6803.00	41.14	176.83	N/A	203.09	-351.93	6714.76	1772.76	-197.47	94.00	10.39	6.54	-13.15
	6898.00	50.97	174.07	N/A	135.01	-346.38	6780.62	1838.62	-129.49	95.00	10.55	10.35	-2.91
	6993.00	60.21	177.81	N/A	56.93	-340.98	6834.26	1892.26	-51.50	95.00	10.25	9.73	3.94
	7087.00	69.60	182.28	N/A	-28.08	-341.17	6874.09	1932.09	33.49	94.00	10.87	9.99	4.76
	7182.00	76.27	180.72	N/A	-118.81	-343.53	6901.96	1959.96	124.25	95.00	7.19	7.02	-1.64
	7276.00	83.09	176.80	N/A	-211.19	-341.49	6918.80	1976.80	216.59	94.00	8.33	7.26	-4.17
	7371.00	89.82	176.47	N/A	-305.79	-335.93	6924.67	1982.67	311.09	95.00	7.09	7.08	-0.35
	7465.00	90.15	176.92	N/A	-399.63	-330.51	6924.69	1982.69	404.83	94.00	0.59	0.35	0.48
	7560.00	90.03	177.25	N/A	-494.51	-325.68	6924.54	1982.54	499.62	95.00	0.37	-0.13	0.35
	7654.00	90.12	177.57	N/A	-588.42	-321.43	6924.42	1982.42	593.45	94.00	0.35	0.10	0.34
	7749.00	90.03	177.79	N/A	-683.34	-317.59	6924.29	1982.29	688.29	95.00	0.25	-0.09	0.23
	7843.00	90.03	178.80	N/A	-777.29	-314.79	6924.24	1982.24	782.20	94.00	1.07	0.00	1.07
	7938.00	89.91	178.76	N/A	-872.27	-312.77	6924.29	1982.29	877.13	95.00	0.13	-0.13	-0.04
	8032.00	90.09	179.36	N/A	-966.26	-311.22	6924.29	1982.29	971.08	94.00	0.67	0.19	0.64
	8221.00	90.09	179.56	N/A	-1155.25	-309.44	6924.00	1982.00	1160.02	189.00	0.11	0.00	0.11
	8315.00	90.06	181.97	N/A	-1249.24	-310.70	6923.87	1981.87	1254.01	94.00	2.56	-0.03	2.56
	8410.00	89.85	181.37	N/A	-1344.19	-313.47	6923.95	1981.95	1349.00	95.00	0.67	-0.22	-0.63
	8505.00	89.97	178.05	N/A	-1439.18	-312.99	6924.10	1982.10	1443.97	95.00	3.50	0.13	-3.49
	8599.00	90.31	177.02	N/A	-1533.09	-308.94	6923.87	1981.87	1537.80	94.00	1.15	0.36	-1.10
	8693.00	90.22	176.63	N/A	-1626.95	-303.74	6923.43	1981.43	1631.56	94.00	0.43	-0.10	-0.41
	8788.00	90.46	176.48	N/A	-1721.77	-298.03	6922.87	1980.87	1726.29	95.00	0.30	0.25	-0.16
	8883.00	90.18	177.98	N/A	-1816.66	-293.44	6922.34	1980.34	1821.09	95.00	1.61	-0.29	1.58
	8977.00	90.43	177.56	N/A	-1910.58	-289.78	6921.84	1979.84	1914.95	94.00	0.52	0.27	-0.45
	9072.00	90.43	177.77	N/A	-2005.50	-285.91	6921.13	1979.13	2009.79	95.00	0.22	0.00	0.22
	9166.00	90.40	178.04	N/A	-2099.44	-282.47	6920.45	1978.45	2103.66	94.00	0.29	-0.03	0.29
	9261.00	90.52	178.54	N/A	-2194.39	-279.64	6919.68	1977.68	2198.56	95.00	0.54	0.13	0.53
	9356.00	90.49	178.34	N/A	-2289.35	-277.05	6918.85	1976.85	2293.46	95.00	0.21	-0.03	-0.21
	9450.00	90.15	179.44	N/A	-2383.33	-275.23	6918.32	1976.32	2387.40	94.00	1.22	-0.36	1.17
	9545.00	89.97	180.87	N/A	-2478.33	-275.49	6918.22	1976.22	2482.39	95.00	1.52	-0.19	1.51
	9640.00	90.25	181.95	N/A	-2573.30	-277.83	6918.04	1976.04	2577.39	95.00	1.17	0.29	1.14
	9734.00	90.22	183.15	N/A	-2667.20	-282.01	6917.65	1975.65	2671.35	94.00	1.28	-0.03	1.28
	9828.00	90.00	183.77	N/A	-2761.03	-287.68	6917.47	1975.47	2765.25	94.00	0.70	-0.23	0.66
	9923.00	90.15	184.84	N/A	-2855.76	-294.81	6917.35	1975.35	2860.08	95.00	1.14	0.16	1.13
	10018.00	90.15	185.31	N/A	-2950.39	-303.22	6917.10	1975.10	2954.83	95.00	0.49	0.00	0.49
	10112.00	90.00	183.59	N/A	-3044.10	-310.51	6916.98	1974.98	3048.65	94.00	1.84	-0.16	-1.83
	10207.00	90.18	182.60	N/A	-3138.96	-315.64	6916.83	1974.83	3143.58	95.00	1.06	0.19	-1.04
	10301.00	90.31	181.83	N/A	-3232.89	-319.27	6916.43	1974.43	3237.55	94.00	0.83	0.14	-0.82
	10396.00	90.15	179.24	N/A	-3327.88	-320.16	6916.04	1974.04	3332.54	95.00	2.73	-0.17	-2.73
	10490.00	90.15	176.36	N/A	-3421.80	-316.55	6915.80	1973.80	3426.39	94.00	3.06	0.00	-3.06
	10585.00	90.00	175.14	N/A	-3516.53	-309.51	6915.67	1973.67	3521.01	95.00	1.29	-0.16	-1.28
	10679.00	90.15	175.27	N/A	-3610.20	-301.65	6915.55	1973.55	3614.54	94.00	0.21	0.16	0.14
	10774.00	90.12	175.49	N/A	-3704.90	-294.00	6915.33	1973.33	3709.10	95.00	0.23	-0.03	0.23
	10868.00	90.15	174.46	N/A	-3798.53	-285.77	6915.10	1973.10	3802.59	94.00	1.10	0.03	-1.10
	10963.00	90.18	176.31	N/A	-3893.22	-278.12	6914.83	1972.83	3897.15	95.00	1.95	0.03	1.95
	11057.00	90.15	178.47	N/A	-3987.12	-273.84	6914.56	1972.56	3990.96	94.00	2.30	-0.03	2.30
	11152.00	90.12	178.31	N/A	-4082.08	-271.17	6914.34	1972.34	4085.87	95.00	0.17	-0.03	-0.17
	11247.00	89.97	178.92	N/A	-4177.05	-268.88	6914.26	1972.26	4180.79	95.00	0.66	-0.16	0.64
	11341.00	90.06	178.15	N/A	-4271.02	-266.47	6914.24	1972.24	4274.71	94.00	0.82	0.10	-0.82
	11436.00	90.25	179.20	N/A	-4365.99	-264.28	6913.98	1971.98	4369.64	95.00	1.12	0.20	1.11
	11530.00	90.12	180.54	N/A	-4459.99	-264.06	6913.68	1971.68	4463.62	94.00	1.43	-0.14	1.43
	11625.00	90.09	180.57	N/A	-4554.99	-264.99	6913.50	1971.50	4558.62	95.00	0.04	-0.03	0.03
	11719.00	90.06	180.69	N/A	-4648.98	-266.02	6913.38	1971.38	4652.62	94.00	0.13	-0.03	0.13
	11814.00	90.15	180.13	N/A	-4743.98	-266.70	6913.21	1971.21	4747.61	95.00	0.60	0.09	-0.59
	11908.00	90.12	180.05	N/A	-4837.98	-266.85	6912.98	1970.98	4841.60	94.00	0.09	-0.03	-0.09
	12003.00	90.03	181.54	N/A	-4932.96	-268.16	6912.86	1970.86	4936.60	95.00	1.57	-0.09	1.57
	12098.00	89.91	181.65	N/A	-5027.93	-270.81	6912.91	1970.91	5031.59	95.00	0.17	-0.13	0.12

	12036.00	89.97	181.33	N/A	-5027.33	-270.81	6912.91	1970.91	5031.33	95.00	0.17	0.13	0.12
	12192.00	90.06	181.83	N/A	-5121.88	-273.66	6912.93	1970.93	5125.58	94.00	0.25	0.16	0.19
	12287.00	90.25	181.13	N/A	-5216.85	-276.12	6912.68	1970.68	5220.58	95.00	0.76	0.20	-0.74
	12381.00	90.22	180.21	N/A	-5310.84	-277.22	6912.29	1970.29	5314.58	94.00	0.98	-0.03	-0.98
	12476.00	90.12	178.63	N/A	-5405.83	-276.25	6912.01	1970.01	5409.54	95.00	1.67	-0.11	-1.66
	12570.00	90.15	178.62	N/A	-5499.81	-274.00	6911.79	1969.79	5503.47	94.00	0.03	0.03	-0.01
	12665.00	90.12	179.00	N/A	-5594.79	-272.03	6911.56	1969.56	5598.40	95.00	0.40	-0.03	0.40
	12759.00	90.92	181.32	N/A	-5688.77	-272.29	6910.71	1968.71	5692.38	94.00	2.61	0.85	2.47
	12853.00	90.06	179.62	N/A	-5782.76	-273.06	6909.91	1967.91	5786.37	94.00	2.03	-0.91	-1.81
	12948.00	90.12	177.69	N/A	-5877.73	-270.83	6909.76	1967.76	5881.29	95.00	2.03	0.06	-2.03
	13042.00	90.12	176.46	N/A	-5971.61	-266.03	6909.56	1967.56	5975.08	94.00	1.31	0.00	-1.31
	13136.00	90.22	175.80	N/A	-6065.39	-259.69	6909.28	1967.28	6068.75	94.00	0.71	0.11	-0.70
	13231.00	90.06	176.11	N/A	-6160.16	-252.99	6909.05	1967.05	6163.40	95.00	0.37	-0.17	0.33
	13325.00	89.94	176.04	N/A	-6253.94	-246.55	6909.05	1967.05	6257.06	94.00	0.15	-0.13	-0.07
	13420.00	90.12	175.48	N/A	-6348.68	-239.53	6909.00	1967.00	6351.68	95.00	0.62	0.19	-0.59
	13514.00	90.09	174.80	N/A	-6442.34	-231.56	6908.83	1966.83	6445.20	94.00	0.72	-0.03	-0.72
	13609.00	89.91	174.27	N/A	-6536.90	-222.52	6908.83	1966.83	6539.61	95.00	0.59	-0.19	-0.56
	13798.00	90.03	176.91	N/A	-6725.33	-207.99	6908.93	1966.93	6727.78	189.00	1.40	0.06	1.40
	13892.00	89.97	175.54	N/A	-6819.12	-201.80	6908.93	1966.93	6821.47	94.00	1.46	-0.06	-1.46
	13987.00	90.22	176.51	N/A	-6913.89	-195.21	6908.77	1966.77	6916.12	95.00	1.05	0.26	1.02
	14081.00	90.09	178.68	N/A	-7007.80	-191.27	6908.52	1966.52	7009.96	94.00	2.31	-0.14	2.31
	14176.00	90.18	178.39	N/A	-7102.77	-188.84	6908.29	1966.29	7104.88	95.00	0.32	0.09	-0.31
	14270.00	90.00	179.06	N/A	-7196.75	-186.75	6908.14	1966.14	7198.81	94.00	0.74	-0.19	0.71
	14365.00	90.12	178.23	N/A	-7291.72	-184.50	6908.04	1966.04	7293.73	95.00	0.88	0.13	-0.87
	14460.00	89.94	178.41	N/A	-7386.68	-181.72	6907.99	1965.99	7388.63	95.00	0.27	-0.19	0.19
	14554.00	90.06	178.13	N/A	-7480.64	-178.88	6907.99	1965.99	7482.53	94.00	0.32	0.13	-0.30
	14648.00	90.12	178.76	N/A	-7574.60	-176.33	6907.85	1965.85	7576.45	94.00	0.67	0.06	0.67
	14743.00	90.28	178.63	N/A	-7669.58	-174.16	6907.52	1965.52	7671.37	95.00	0.22	0.17	-0.14
	14837.00	90.12	179.83	N/A	-7763.57	-172.90	6907.19	1965.19	7765.33	94.00	1.29	-0.17	1.28
	14932.00	90.12	180.43	N/A	-7858.56	-173.12	6906.99	1964.99	7860.32	95.00	0.63	0.00	0.63
	15026.00	90.15	180.43	N/A	-7952.56	-173.82	6906.77	1964.77	7954.32	94.00	0.03	0.03	0.00
	15121.00	90.06	180.10	N/A	-8047.56	-174.26	6906.59	1964.59	8049.31	95.00	0.36	-0.09	-0.35
	15216.00	90.03	179.05	N/A	-8142.56	-173.56	6906.52	1964.52	8144.29	95.00	1.11	-0.03	-1.11
	15310.00	90.31	178.52	N/A	-8236.53	-171.56	6906.24	1964.24	8238.22	94.00	0.64	0.30	-0.56
	15404.00	90.00	178.49	N/A	-8330.50	-169.11	6905.98	1963.98	8332.14	94.00	0.33	-0.33	-0.03
	15499.00	90.12	181.17	N/A	-8425.49	-168.83	6905.89	1963.89	8427.11	95.00	2.82	0.13	2.82
	15593.00	89.94	181.22	N/A	-8519.47	-170.79	6905.84	1963.84	8521.11	94.00	0.20	-0.19	0.05
	15688.00	90.06	181.80	N/A	-8614.44	-173.29	6905.84	1963.84	8616.10	95.00	0.62	0.13	0.61
	15782.00	90.55	182.47	N/A	-8708.37	-176.79	6905.34	1963.34	8710.08	94.00	0.88	0.52	0.71
	15877.00	90.49	180.91	N/A	-8803.32	-179.60	6904.47	1962.47	8805.07	95.00	1.64	-0.06	-1.64
	15972.00	90.06	178.40	N/A	-8898.31	-179.02	6904.02	1962.02	8900.03	95.00	2.68	-0.45	-2.64
	16066.00	90.34	176.96	N/A	-8992.23	-175.22	6903.69	1961.69	8993.88	94.00	1.56	0.30	-1.53
	16161.00	90.25	176.19	N/A	-9087.06	-169.54	6903.20	1961.20	9088.61	95.00	0.82	-0.09	-0.81
	16255.00	90.25	175.91	N/A	-9180.84	-163.07	6902.79	1960.79	9182.27	94.00	0.30	0.00	-0.30
	16350.00	90.25	174.29	N/A	-9275.49	-154.95	6902.38	1960.38	9276.78	95.00	1.71	0.00	-1.71
	16444.00	90.15	174.60	N/A	-9369.04	-145.85	6902.05	1960.05	9370.18	94.00	0.35	-0.11	0.33
	16539.00	90.22	175.05	N/A	-9463.66	-137.29	6901.74	1959.74	9464.64	95.00	0.48	0.07	0.47
	16633.00	90.18	176.01	N/A	-9557.37	-129.96	6901.41	1959.41	9558.23	94.00	1.02	-0.04	1.02
	16728.00	90.28	177.45	N/A	-9652.21	-124.54	6901.03	1959.03	9652.97	95.00	1.52	0.11	1.52
	16822.00	90.18	178.57	N/A	-9746.15	-121.28	6900.65	1958.65	9746.85	94.00	1.20	-0.11	1.19
	16917.00	90.09	179.78	N/A	-9841.14	-119.91	6900.43	1958.43	9841.80	95.00	1.28	-0.09	1.27
	17012.00	90.18	180.48	N/A	-9936.14	-120.12	6900.21	1958.21	9936.79	95.00	0.74	0.09	0.74
	17088.00	90.15	181.40	N/A	-10012.13	-121.37	6899.99	1957.99	10012.79	76.00	1.21	-0.04	1.21
Projection	17112.00	90.15	181.40	N/A	-10036.12	-121.96	6899.92	1957.92	10036.79	24.00	0.00	0.00	0.00