



Gamma Ray

LWD MEMORY LOG

Scale:

1:240

True Vertical Depth

Depth Reference:

Driller's Depth

Status:

Final Print

API No: 05-123-50932-00

Job ID: 111017870

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

Log Measured From: Rlg Floor

Dates

From: 2021-09-19
To: 2021-09-21
Spud: 2021-09-19

Drilled (ft) 1924.00
Top: 1924.00
Bottom: 17064.00

Logged (ft) 1924.00
Top: 1924.00
Bottom: 17051.00

Azi Reference North: 1924.00
Total Magnetic Field Strength: (nT) 51896
Mag to Reference North Correction: (deg) 7.00

Interval

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	1924.00	9.625	36.00	30.00	1914.00
8.500	1924.00	17064.00				

Mud Record

Deviation Record

Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)
Oil Based Mud	1924.00	17064.00	8.500	15140.00	0.64 308.92	0.64 308.92

Acquisition System

Software Version

Other

Cadence
Plot Studio

Rig: H&P 517
Contractor: Helmerich & Payne Drilling Co
District: RMA

Unit: D&E

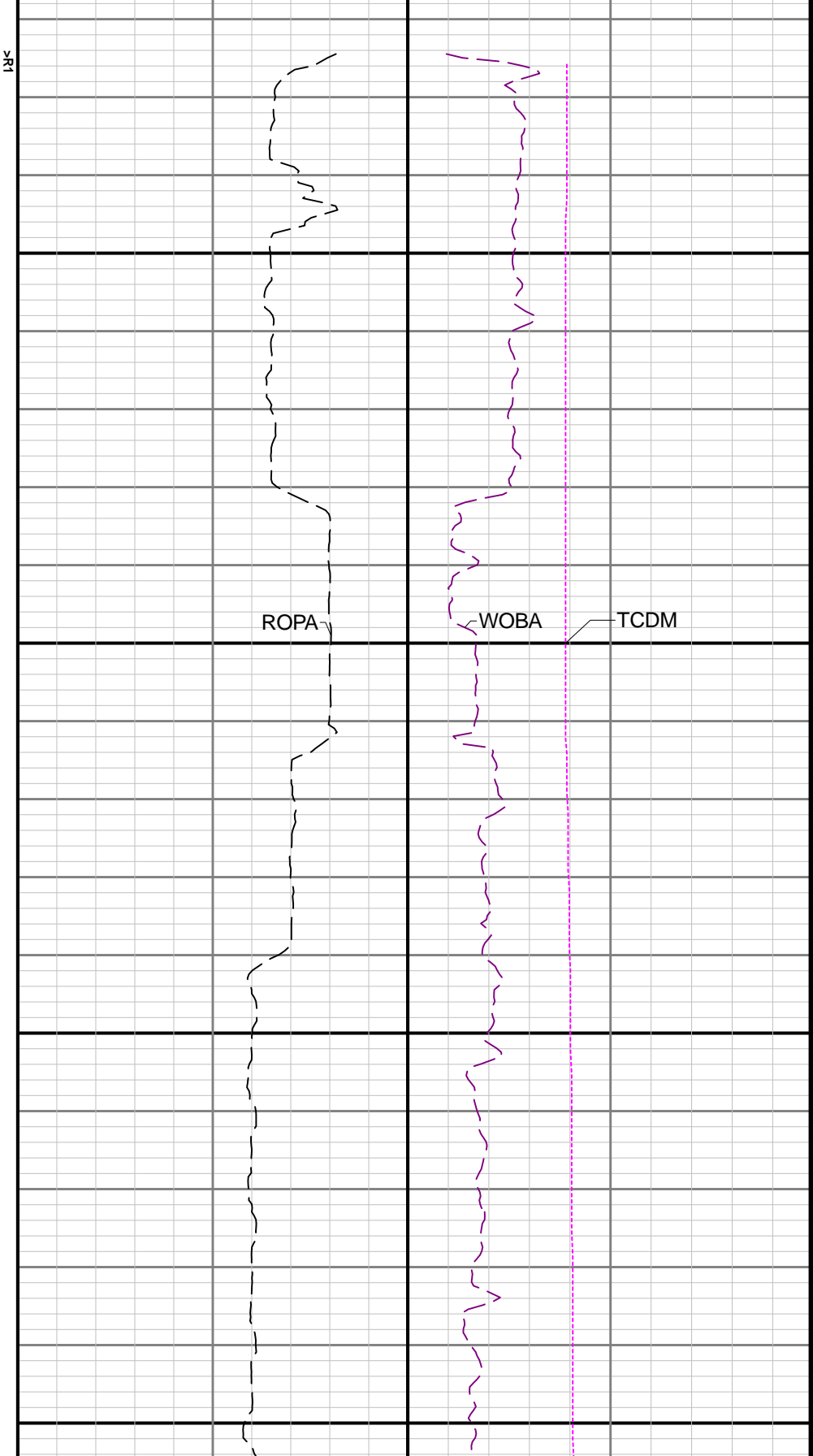
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Log Run Summary

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	Rotary Steerable	1924.00	17051.00	1924.00	17064.00	2021-09-19 05:18	2021-09-21 15:14	53.00

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Adam Schlenz	2021-09-18	2021-09-22						



R_1

2000

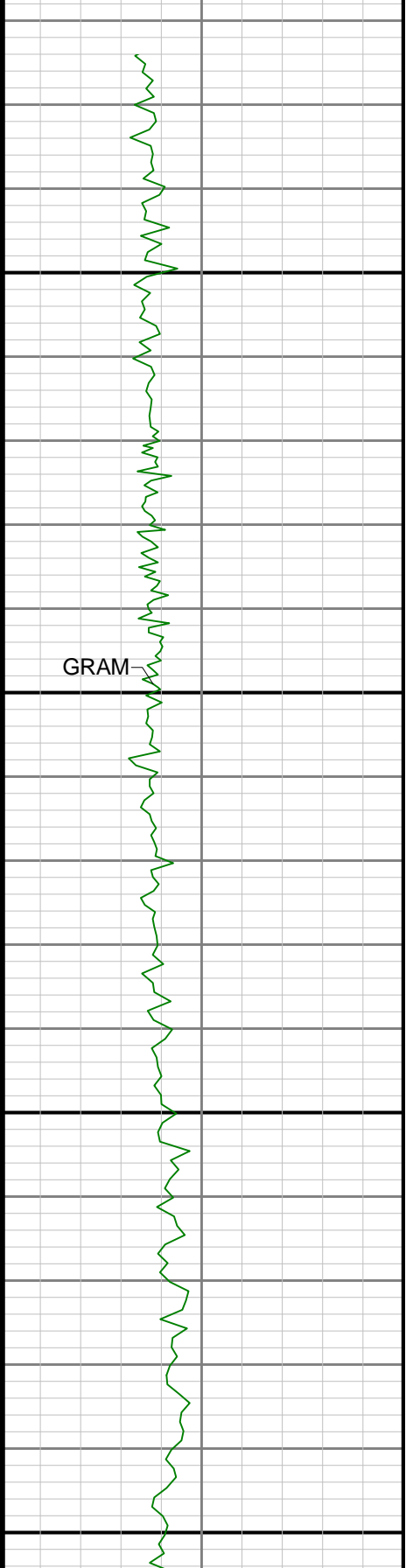
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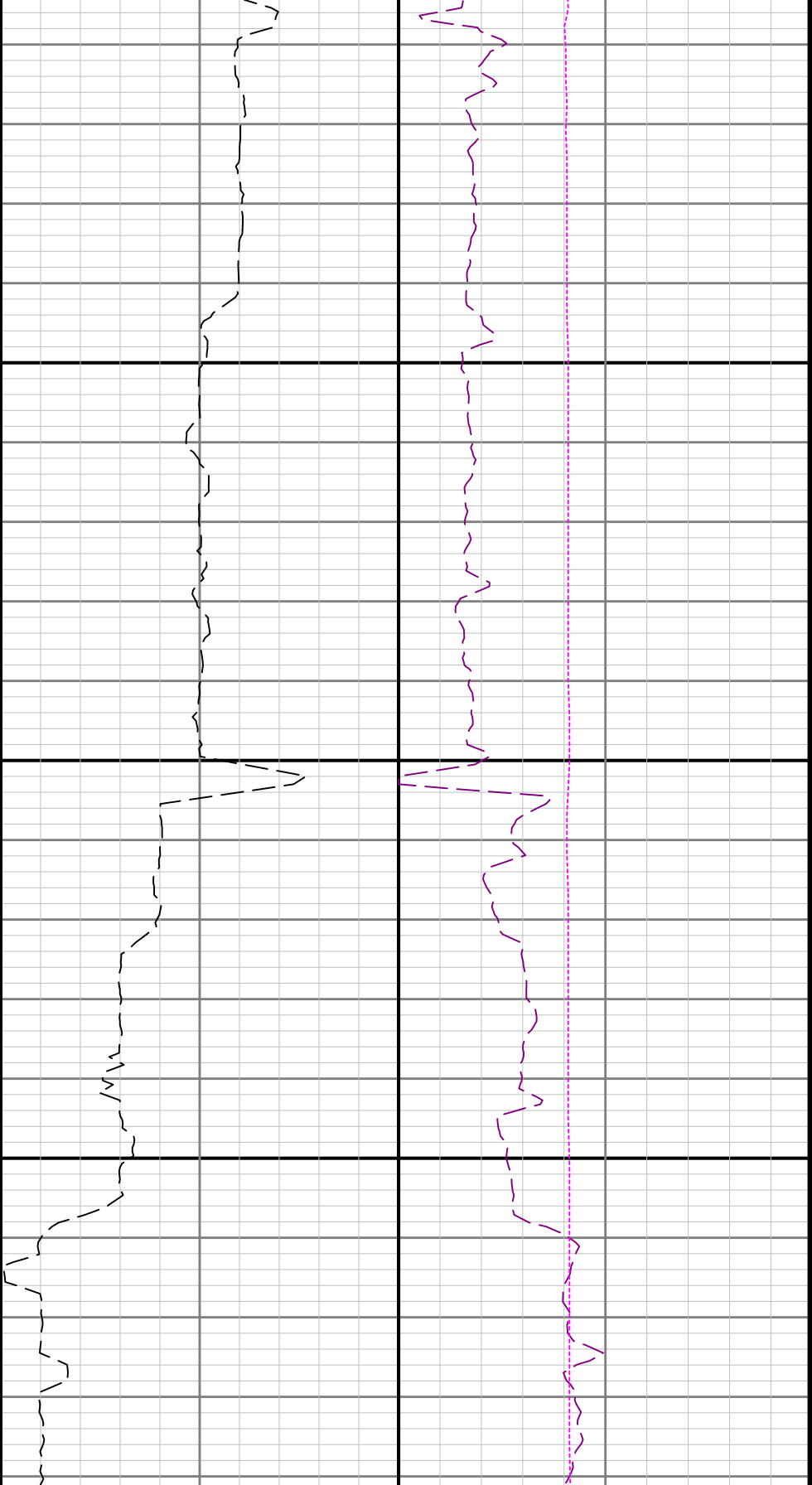
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WOBA

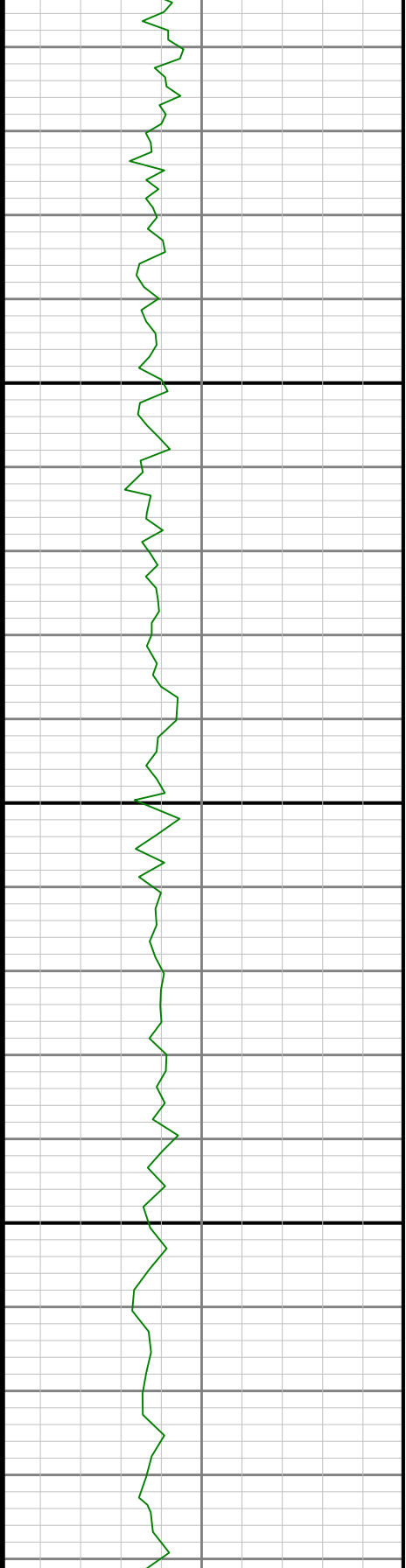
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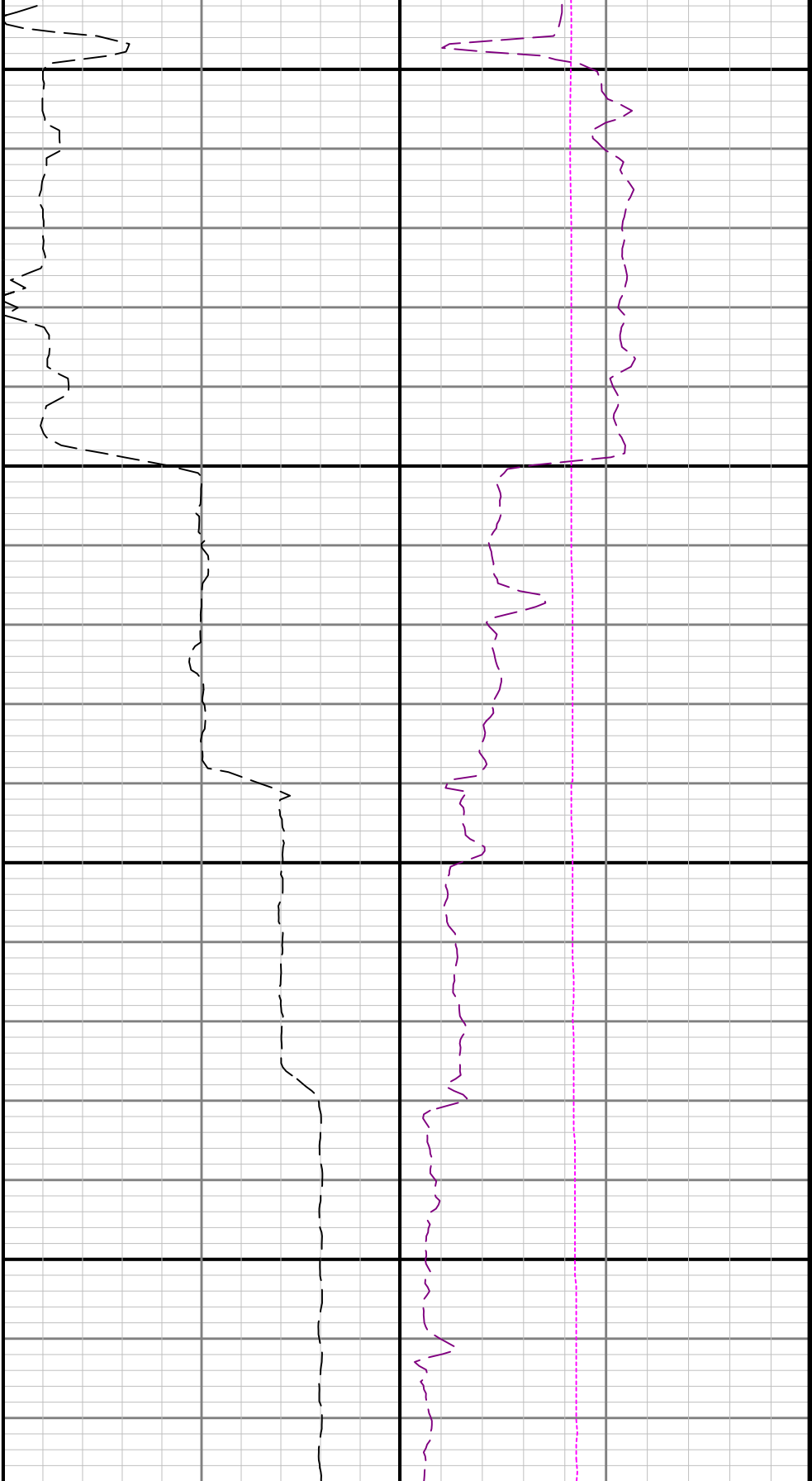
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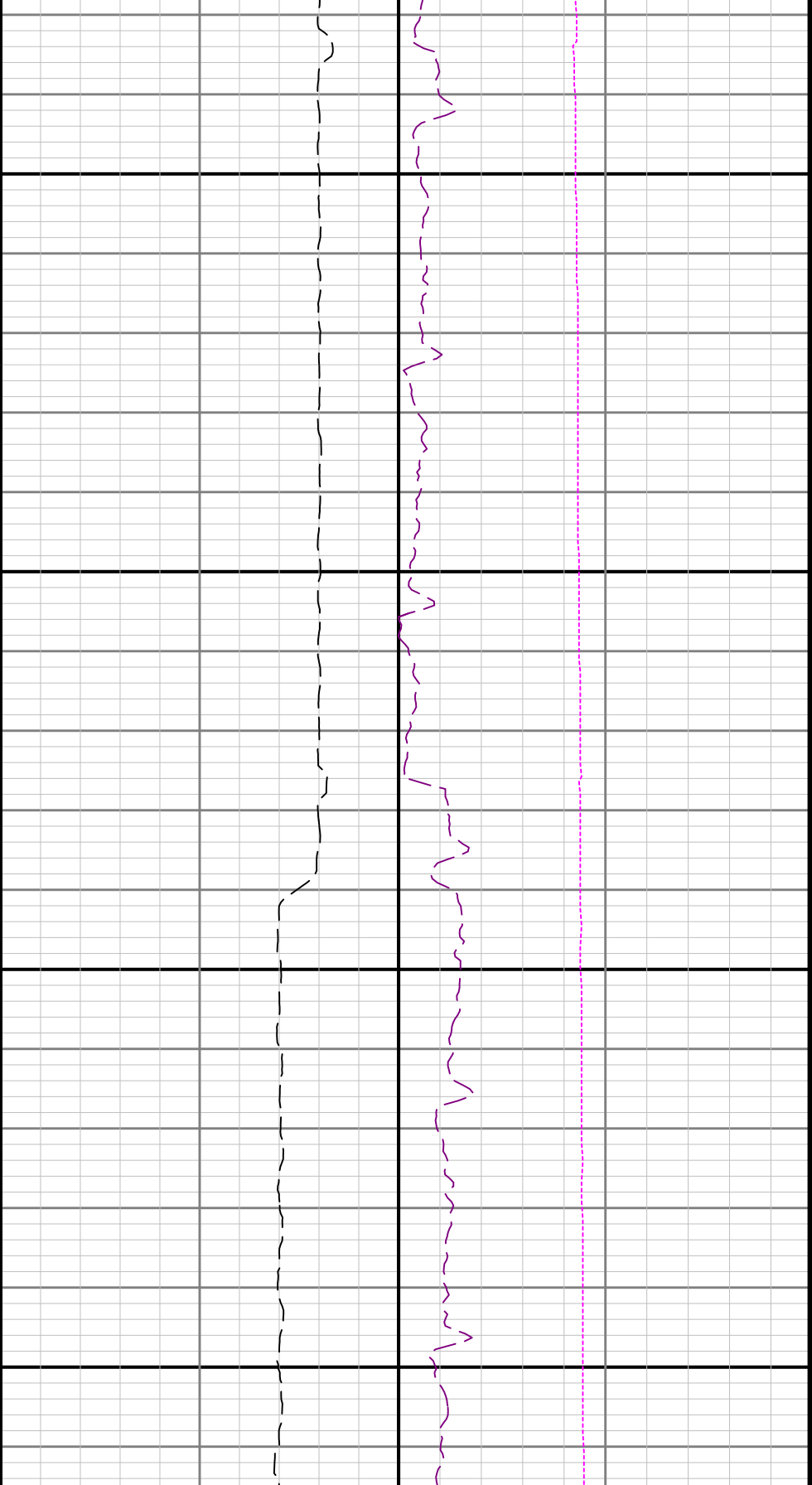
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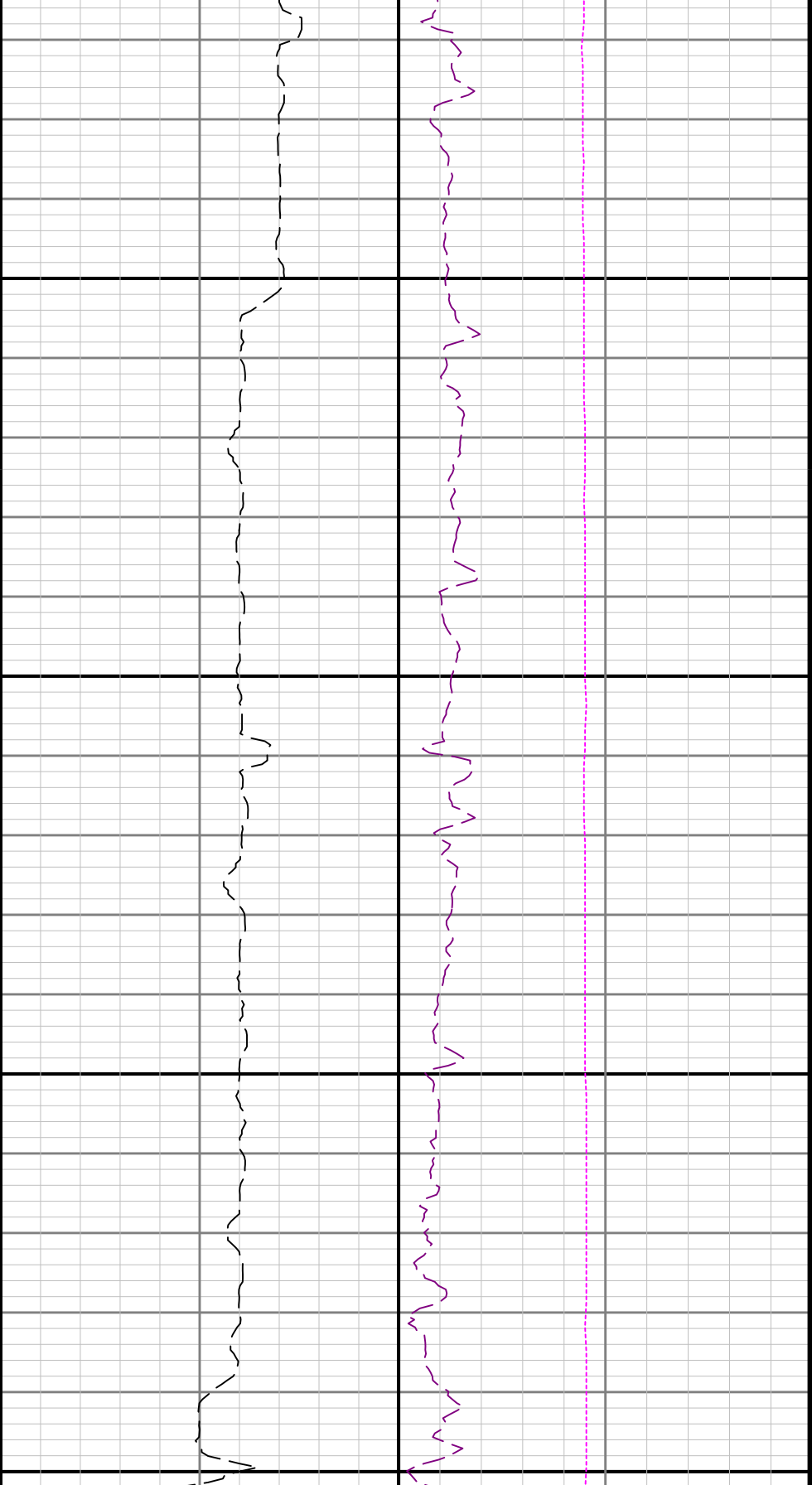
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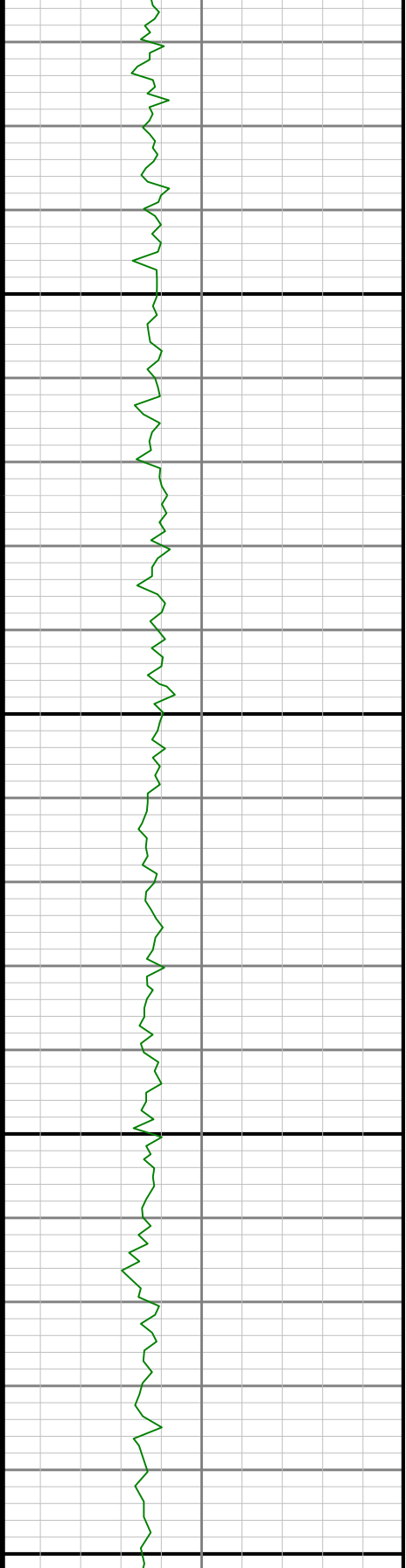
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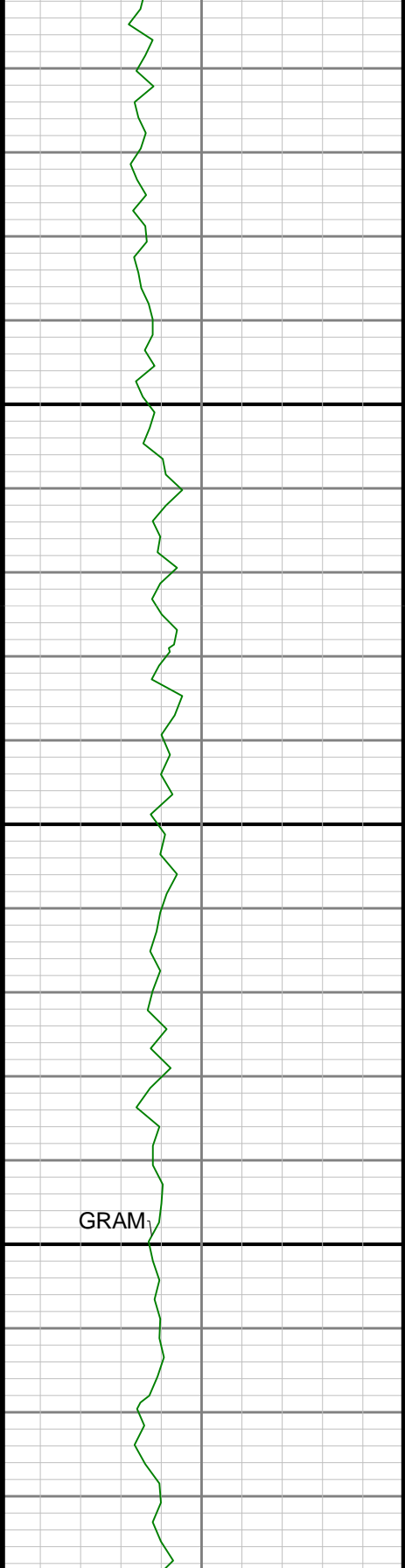
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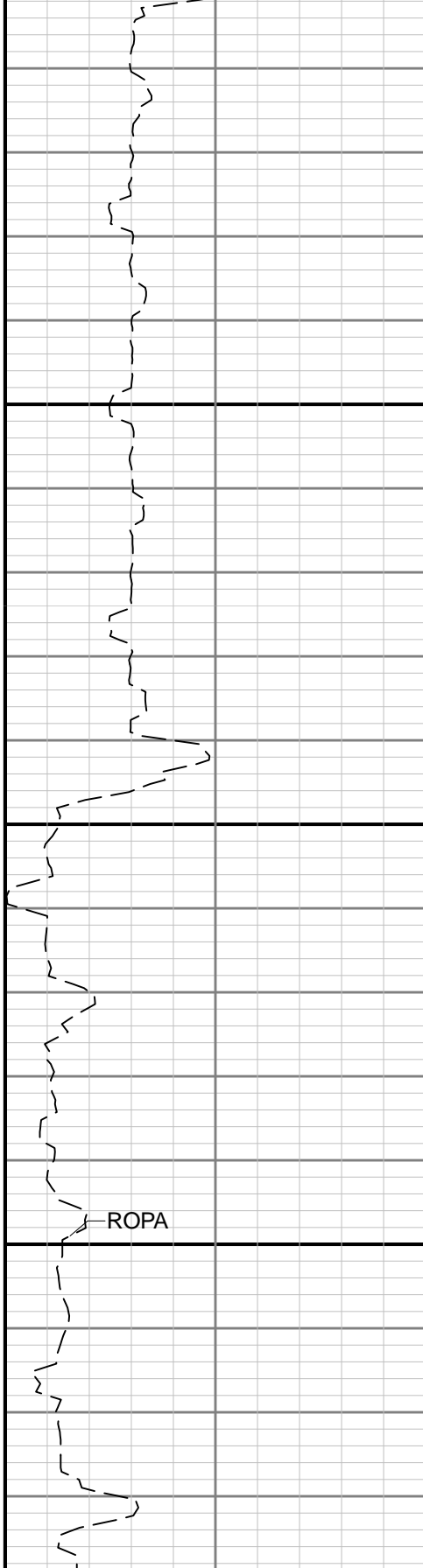
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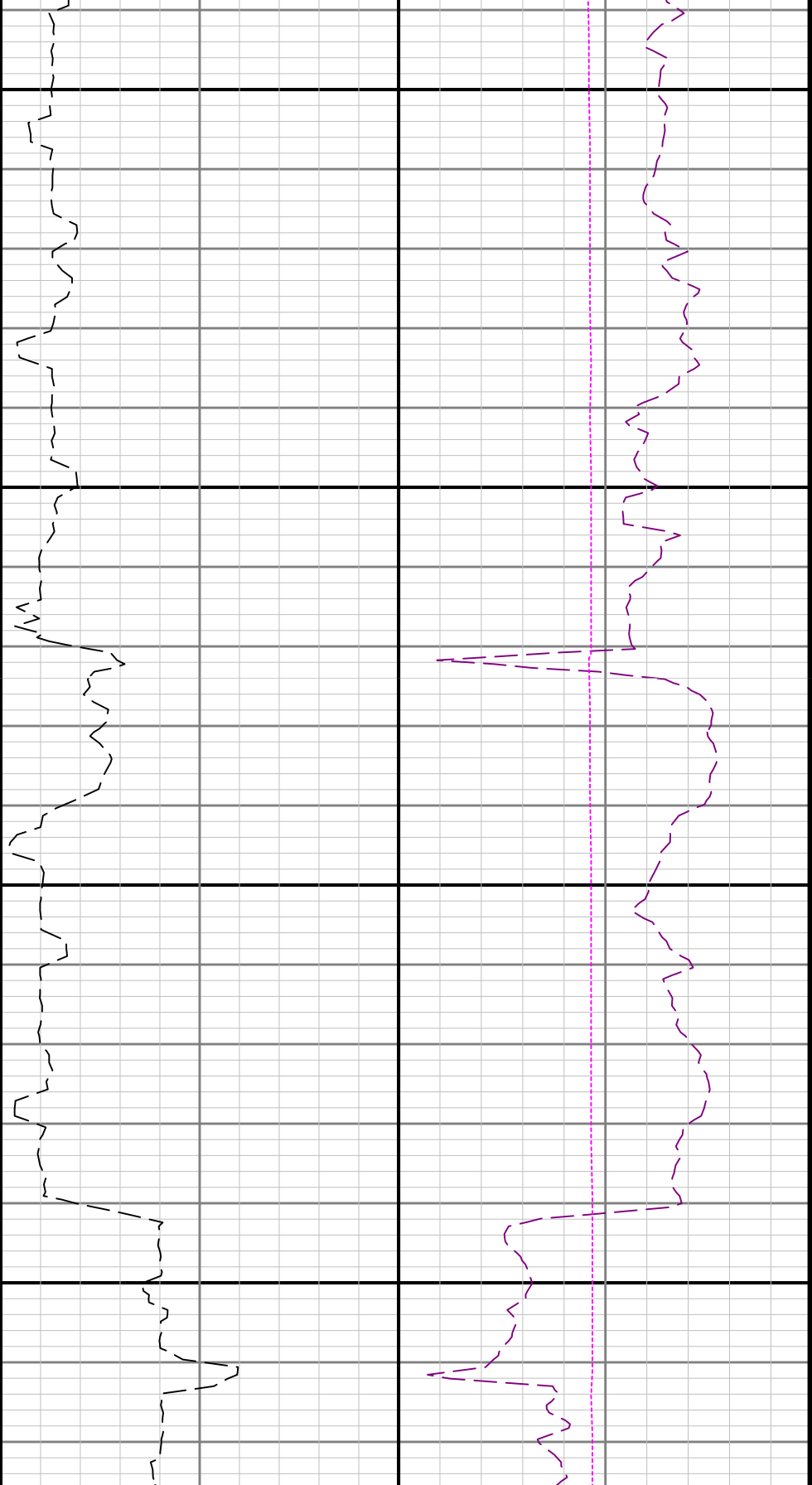




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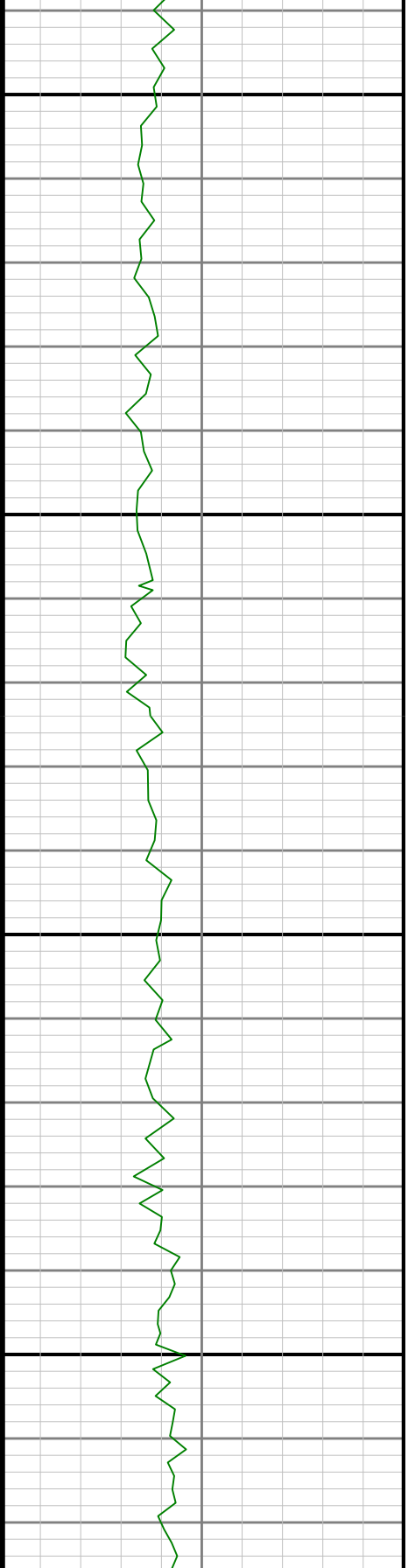
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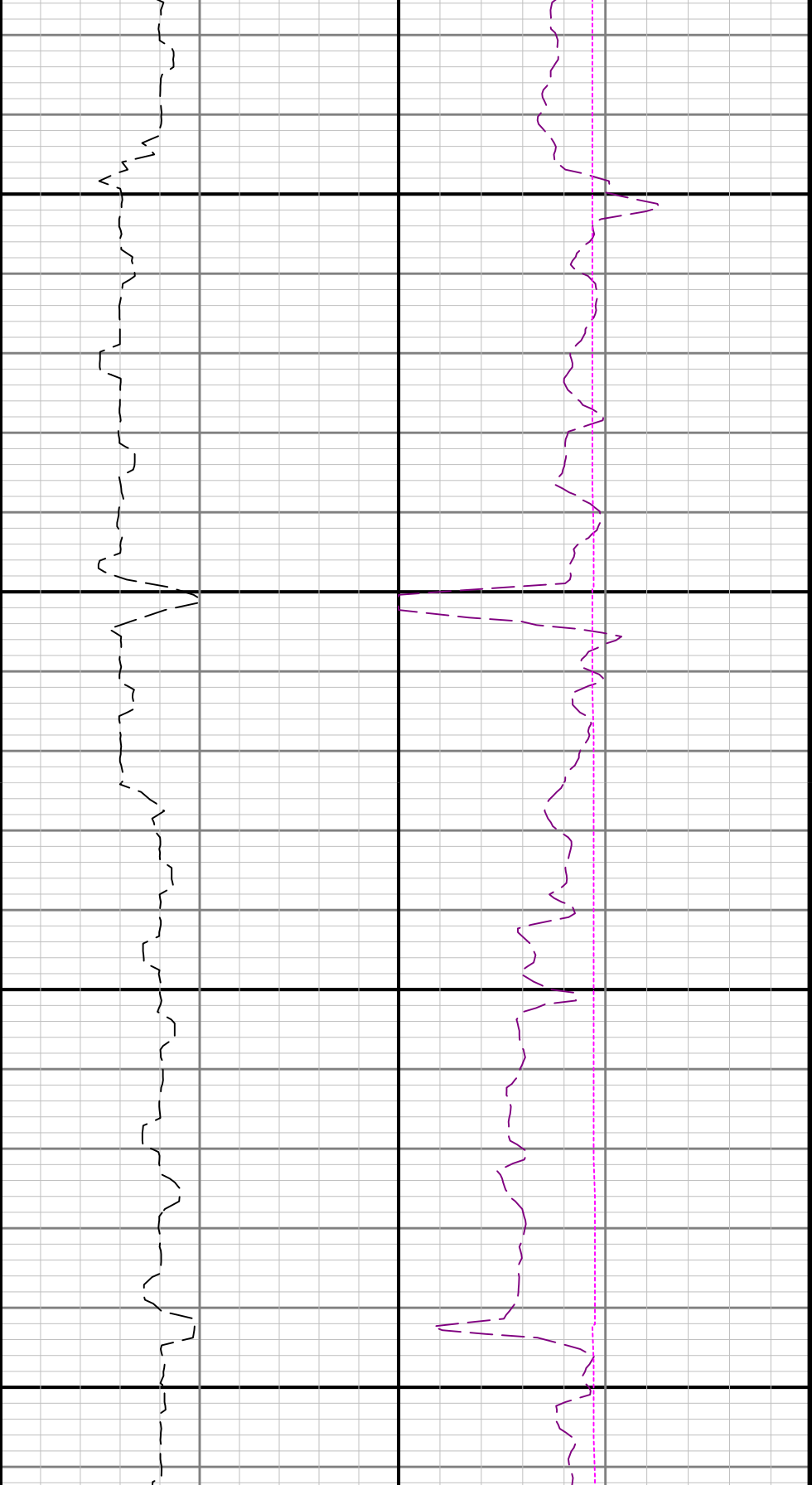




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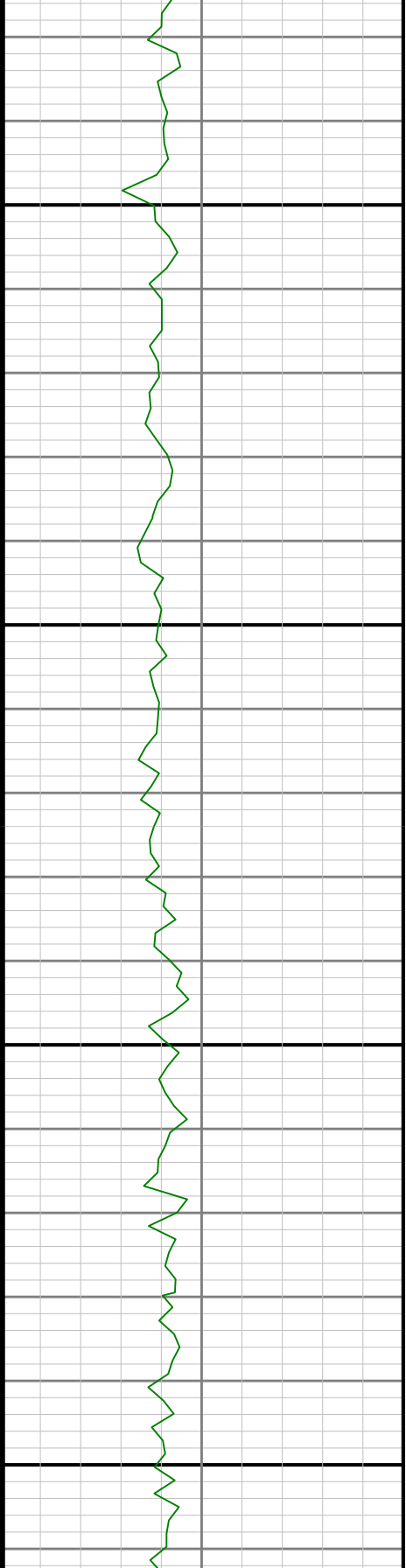
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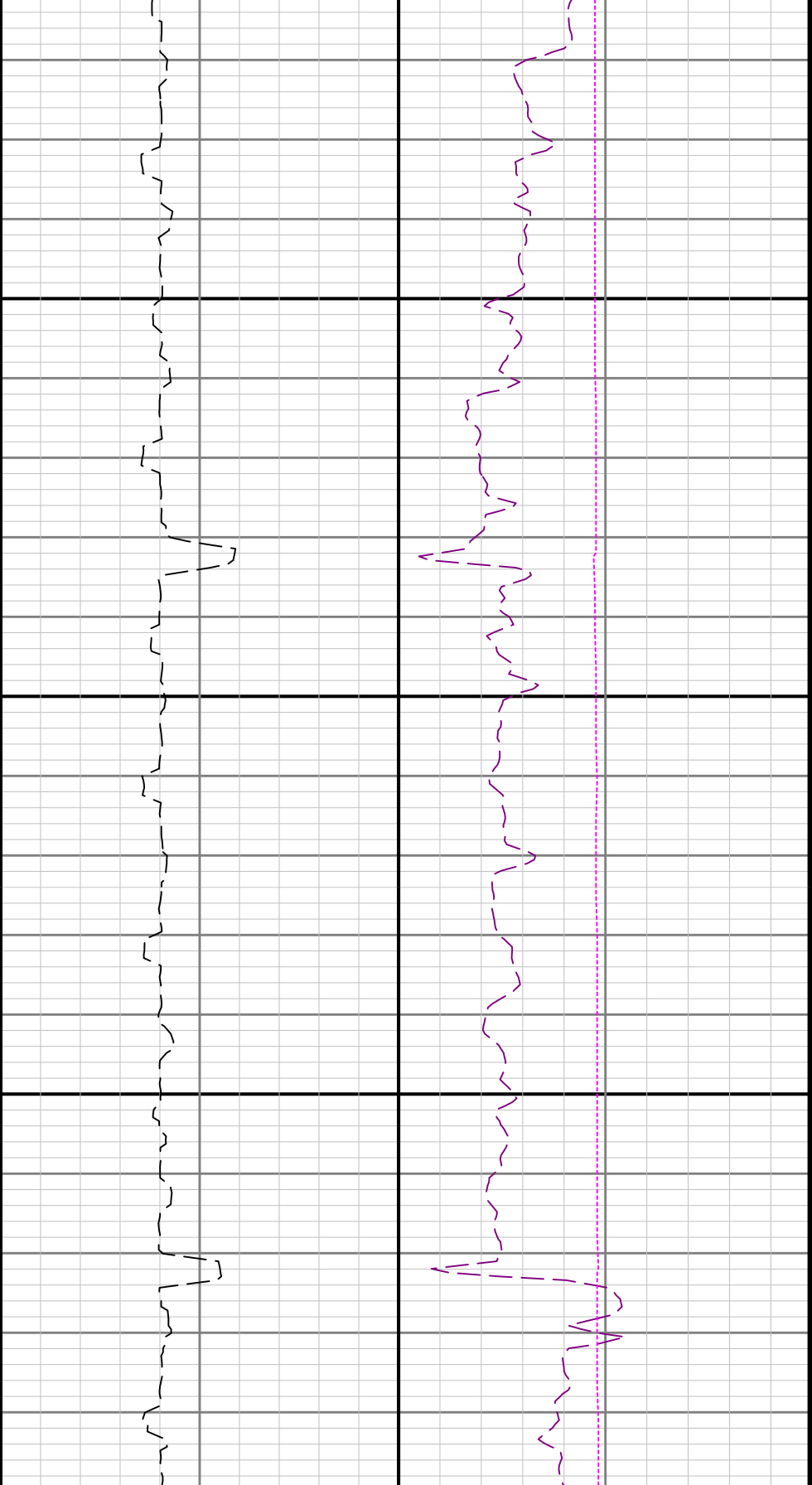




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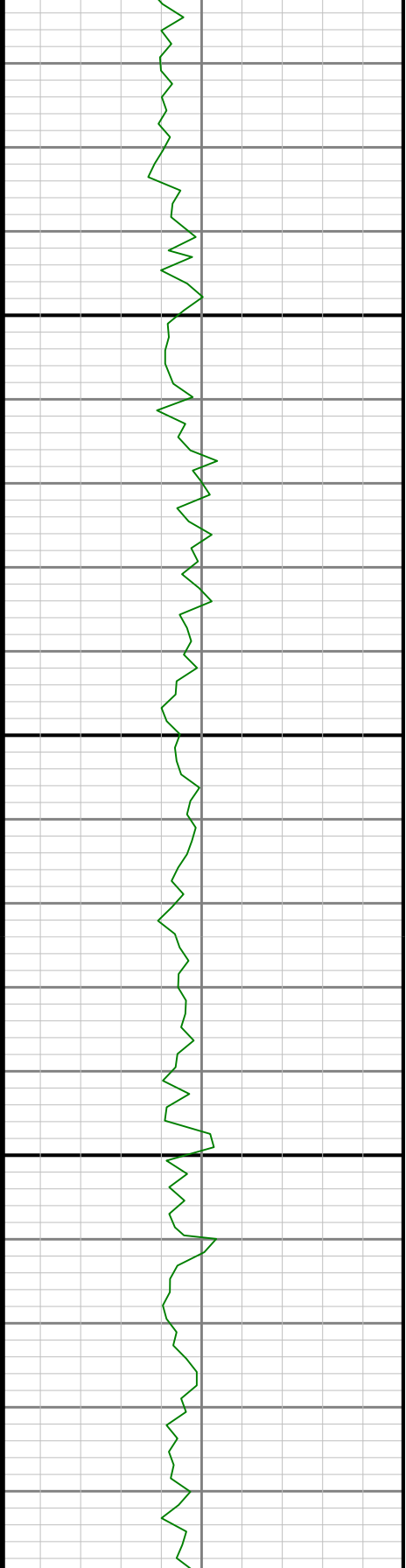
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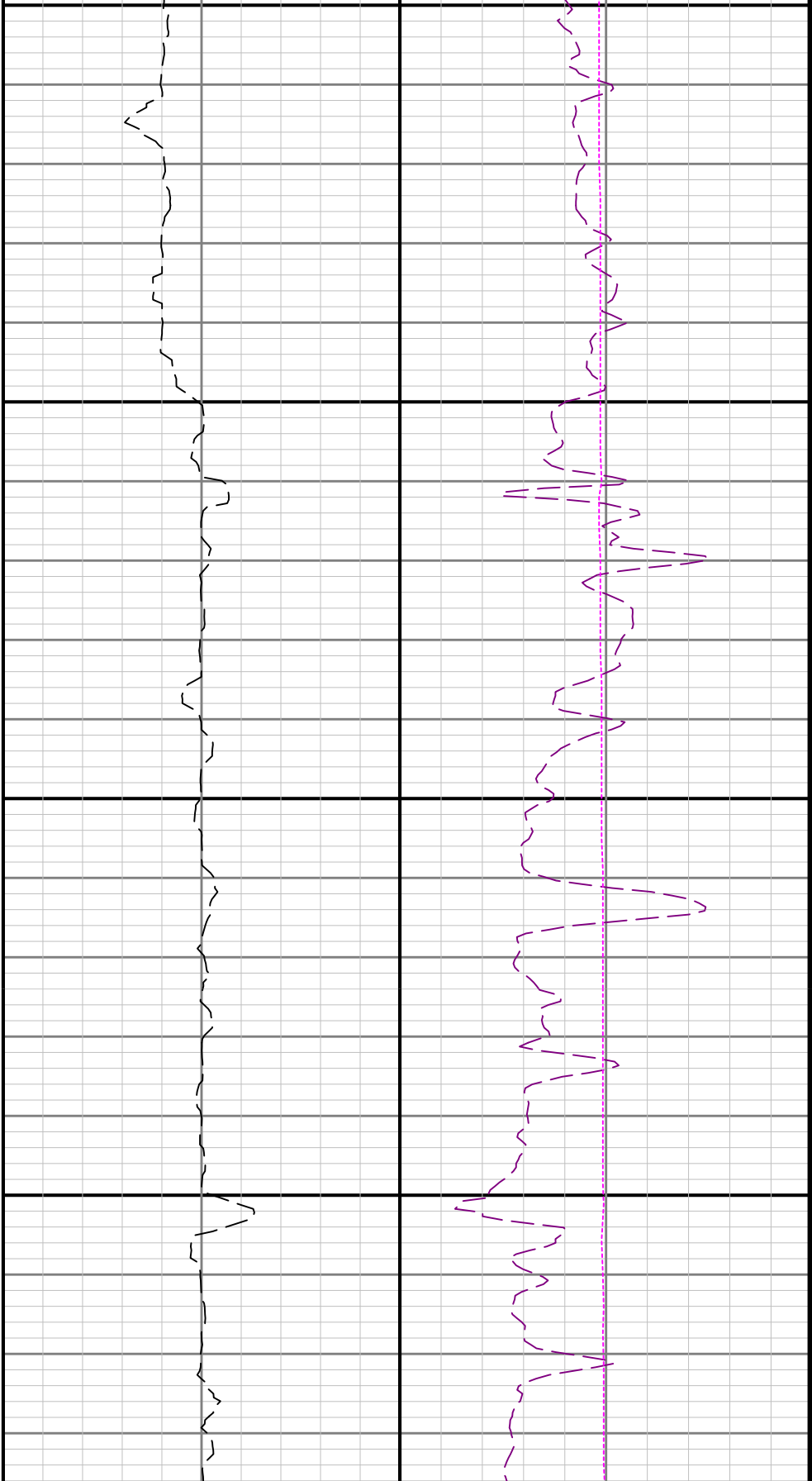




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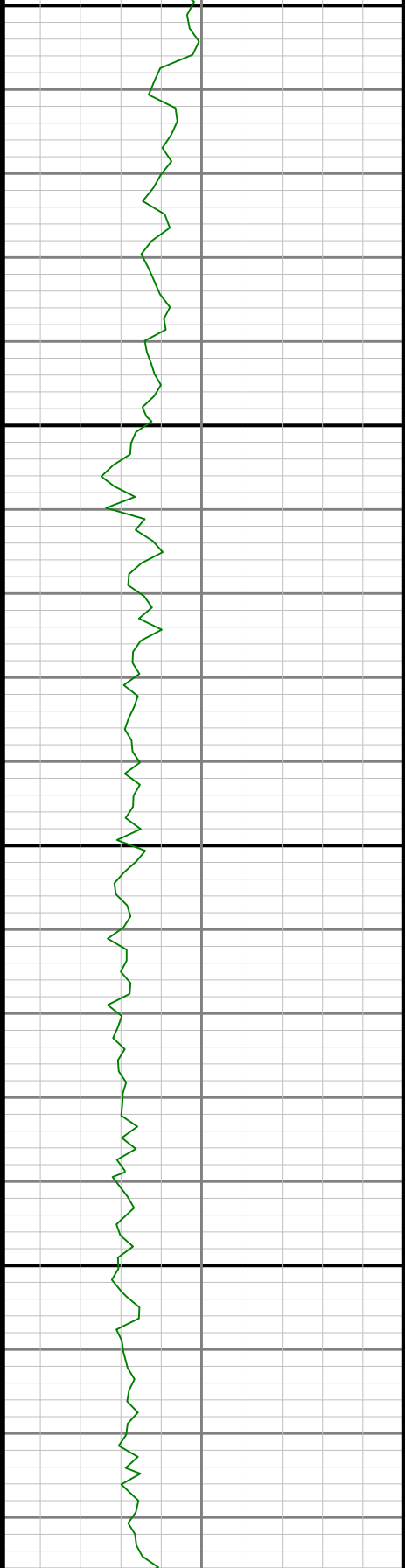
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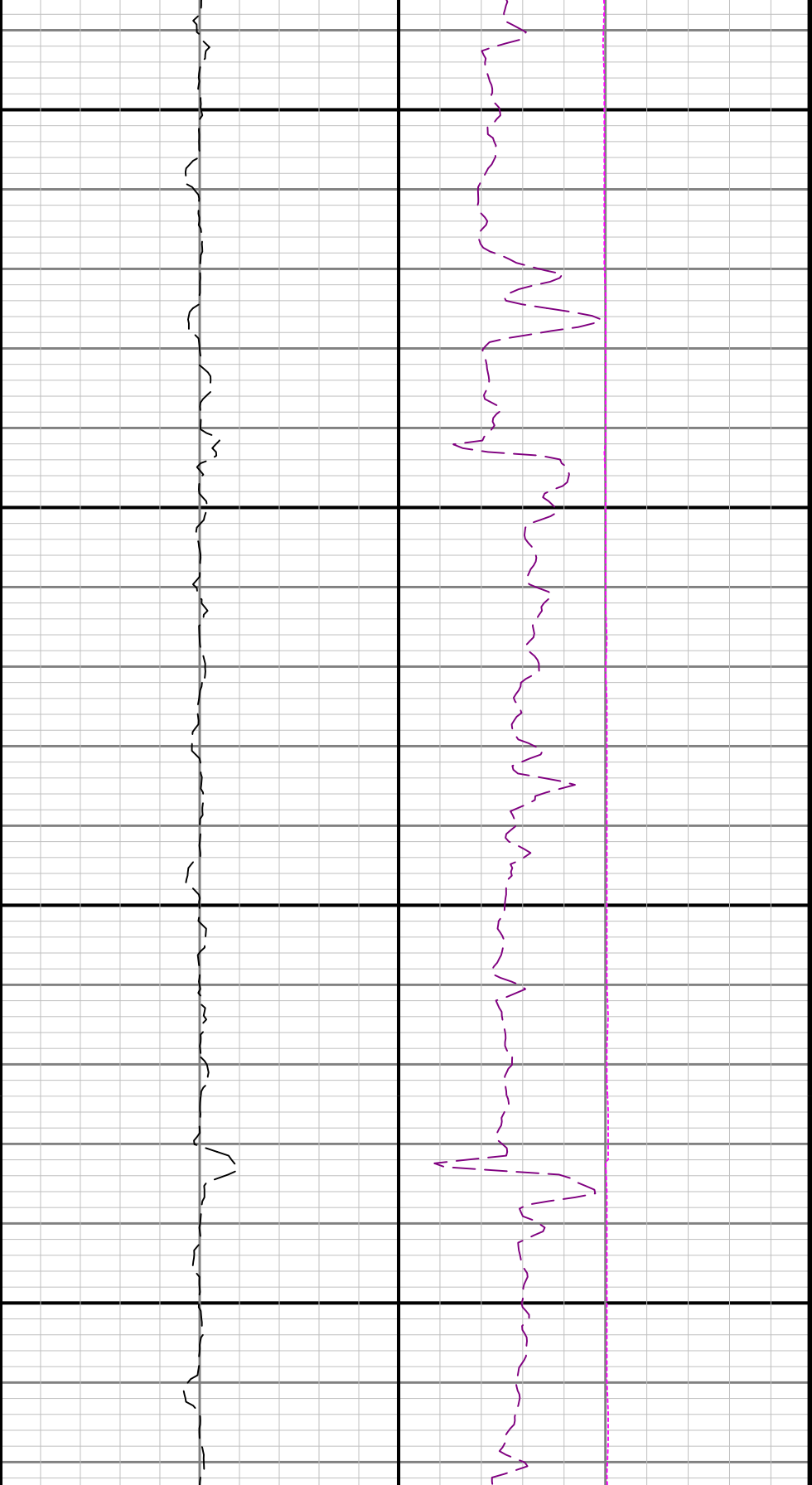




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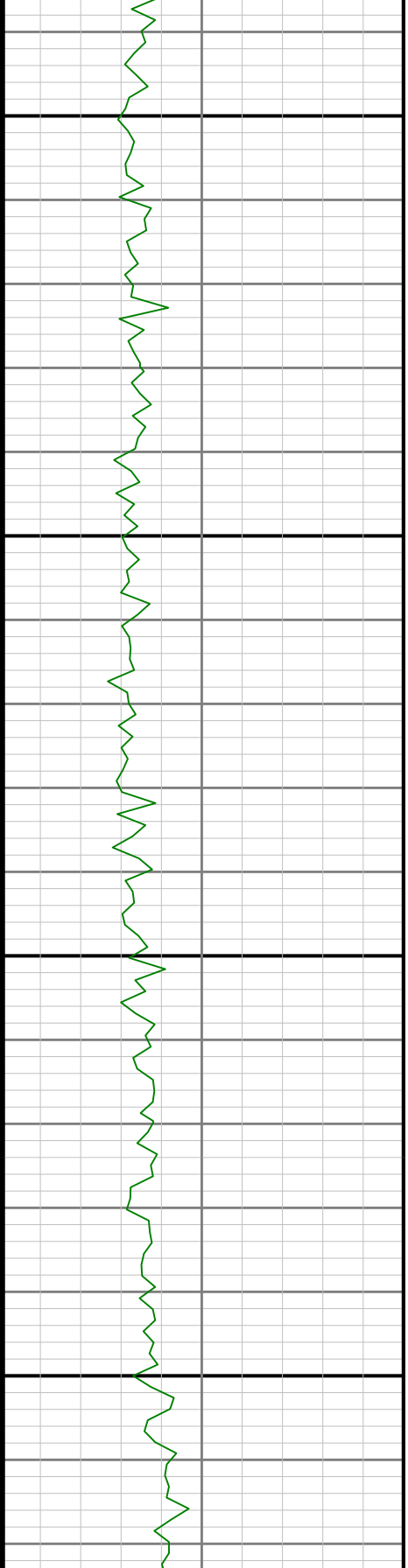
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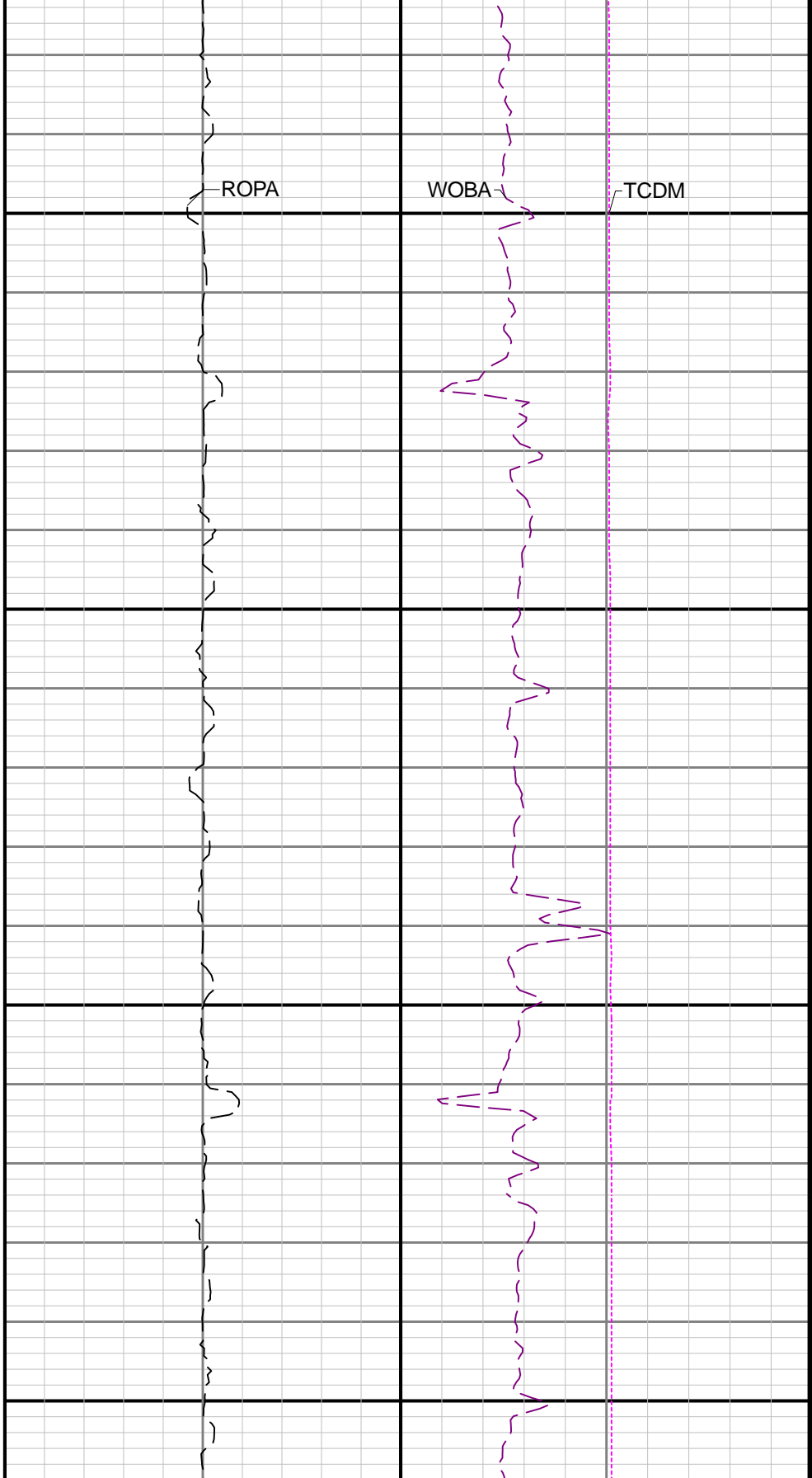
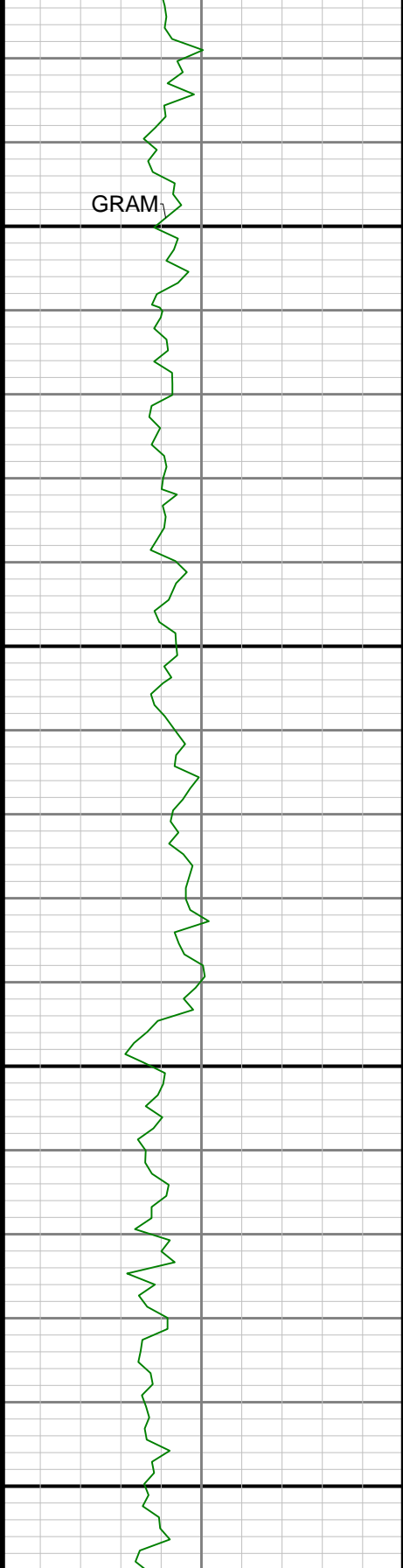


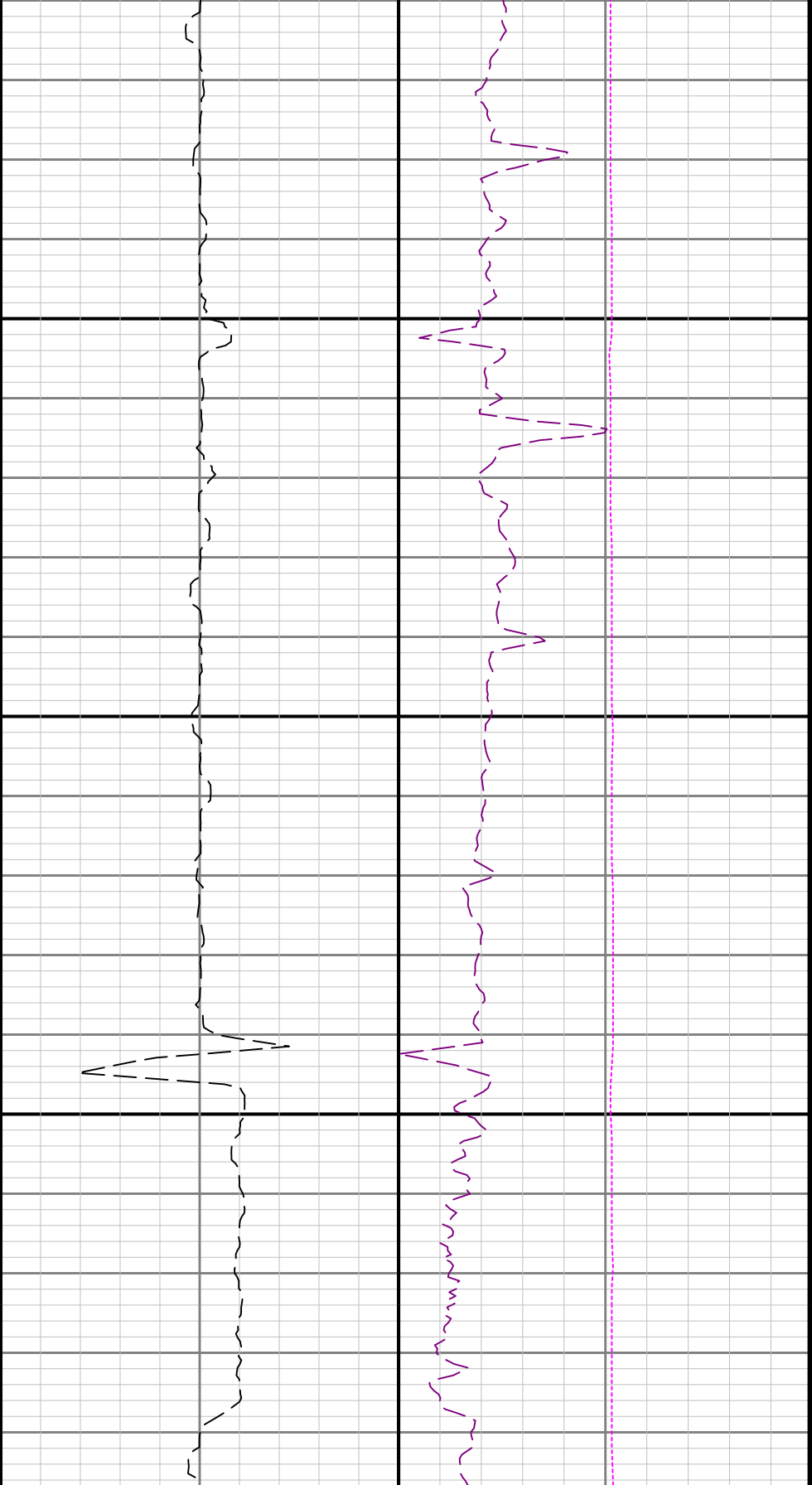


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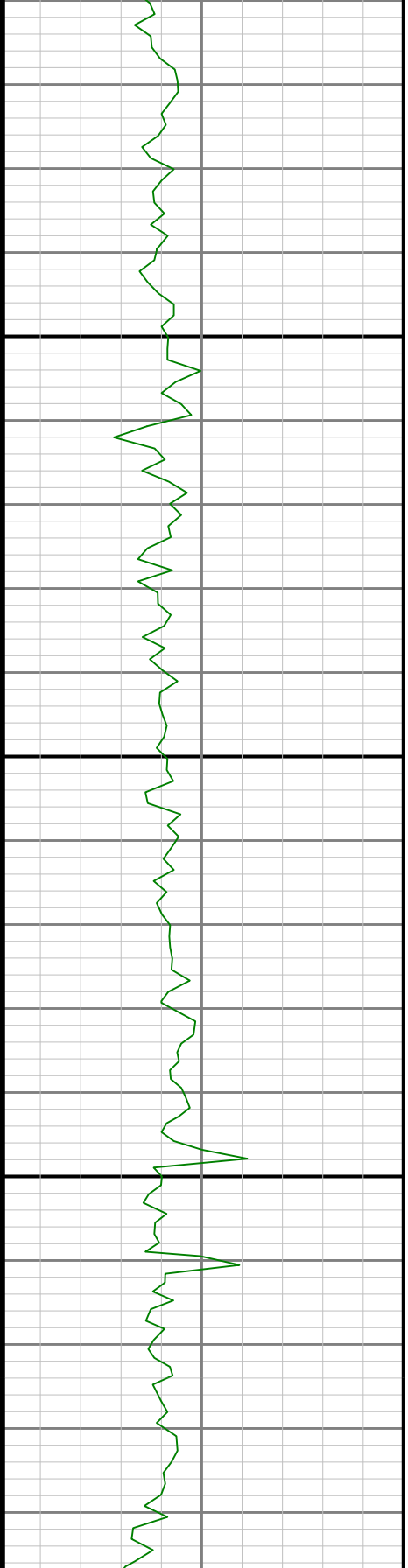


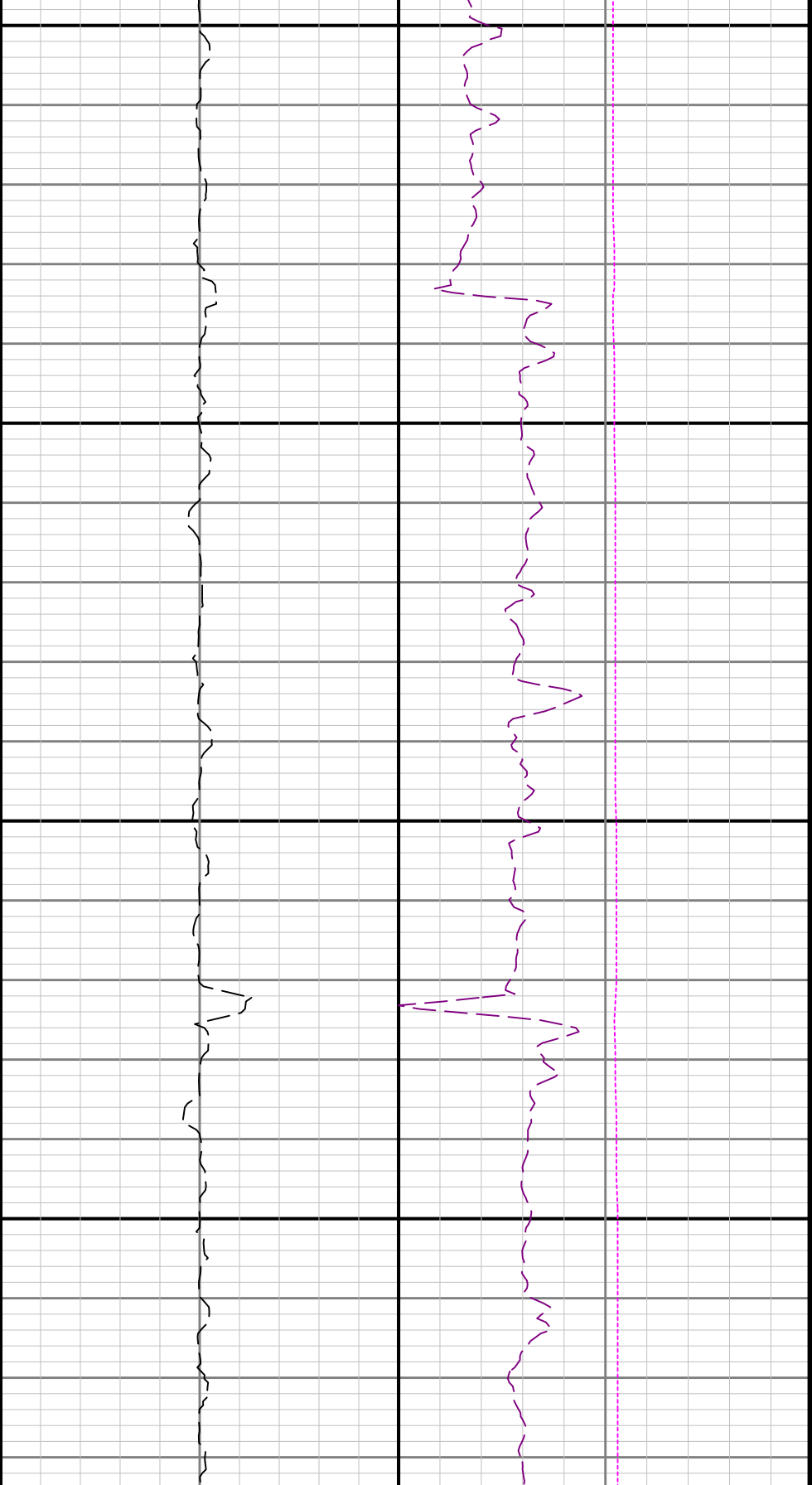




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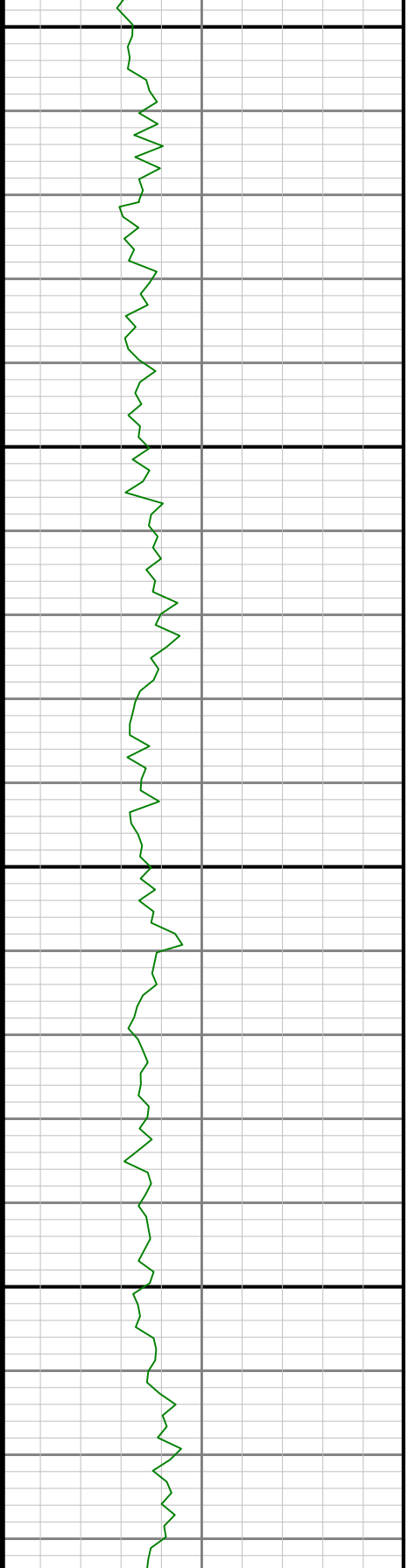
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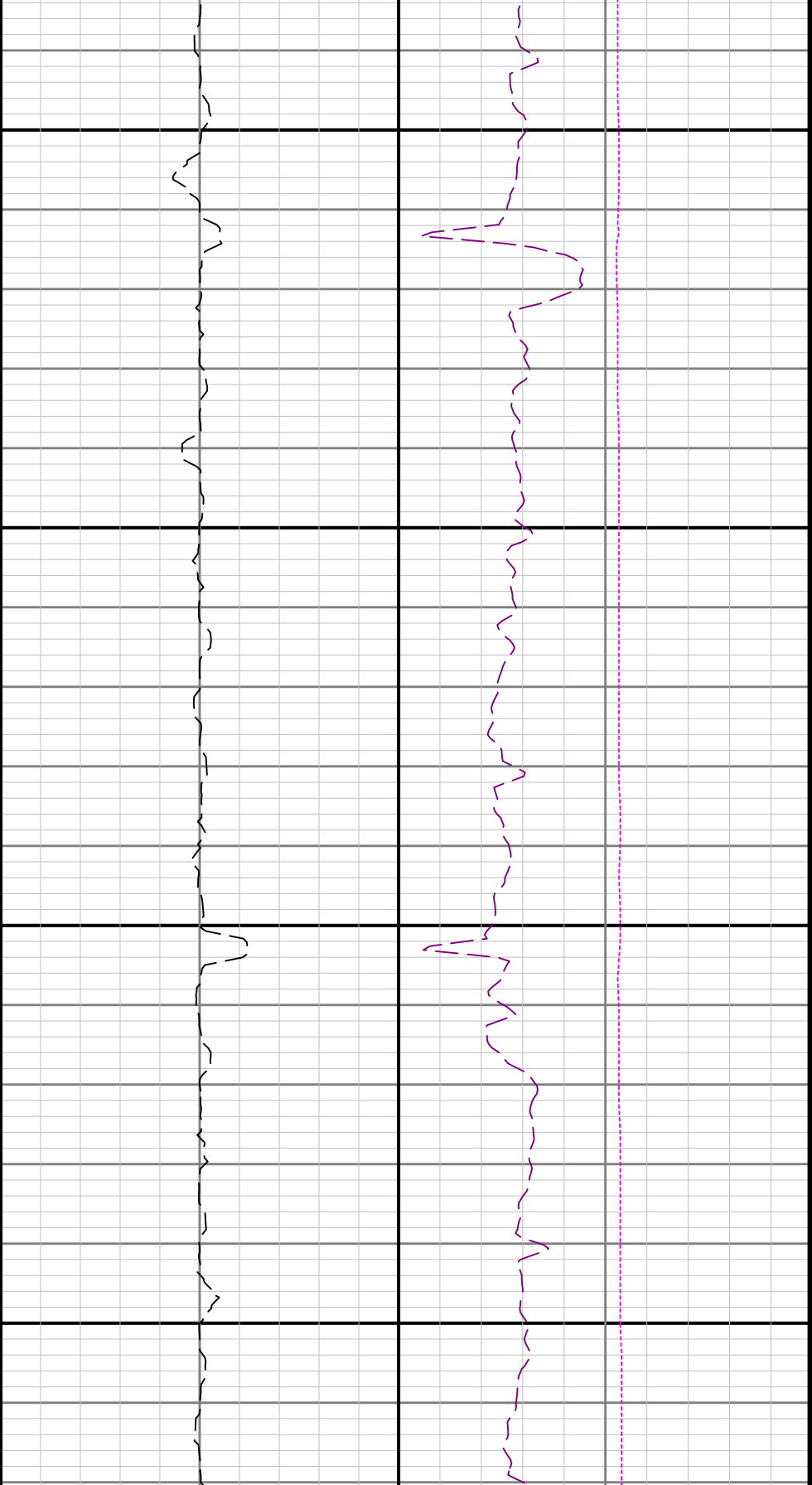




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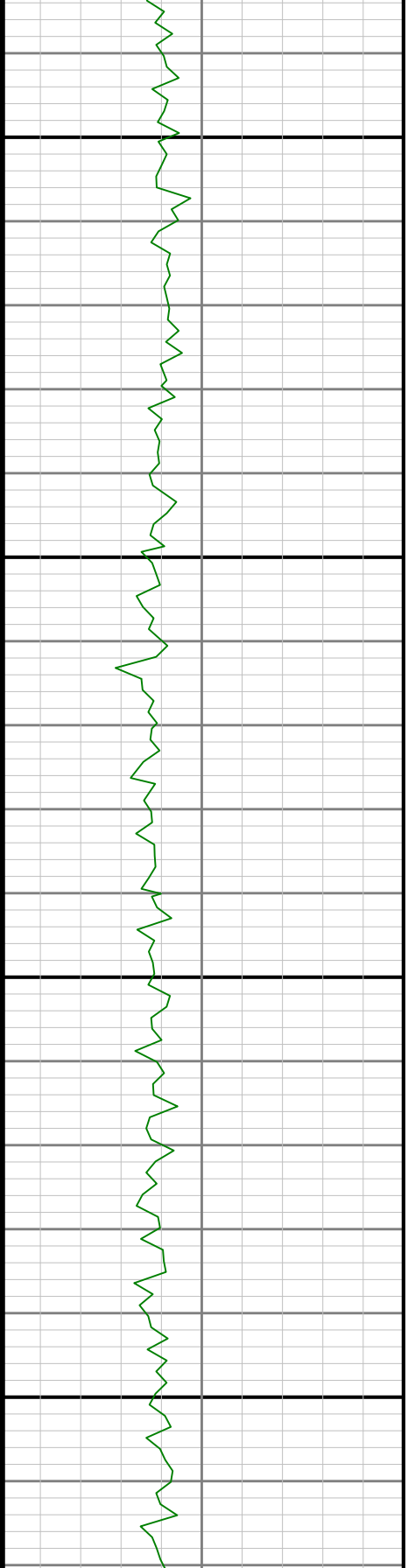
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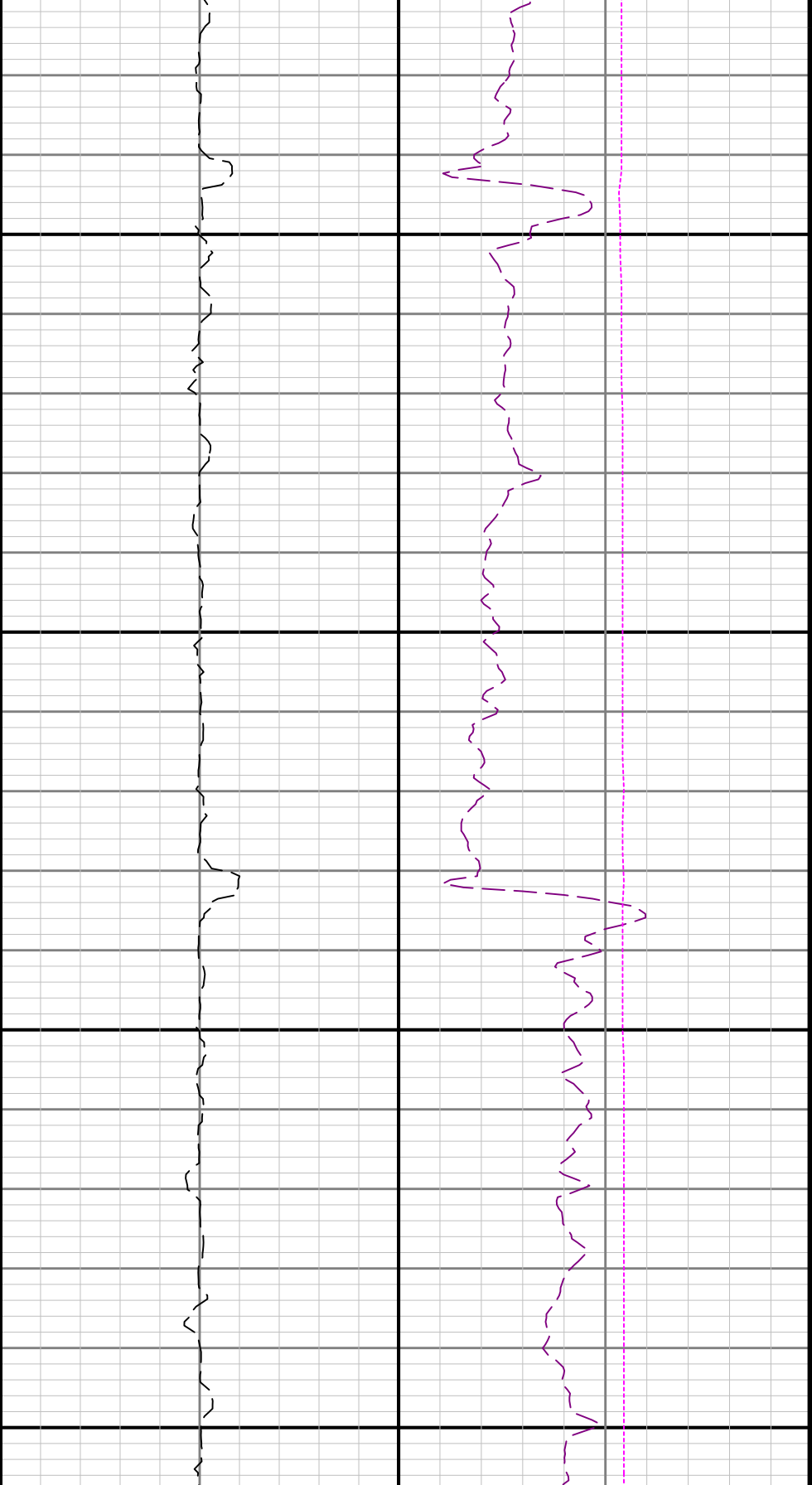




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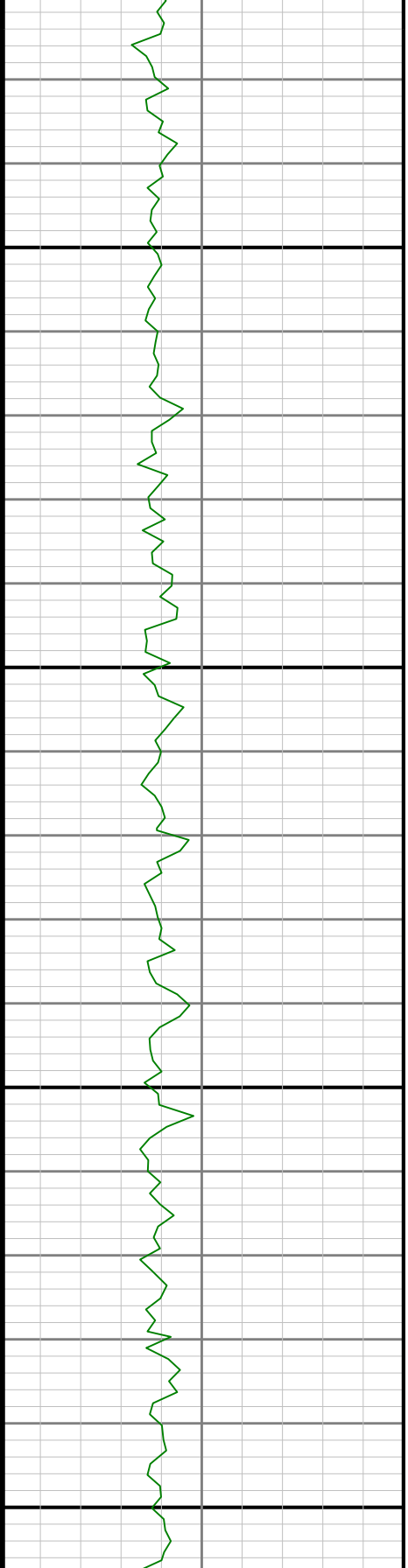
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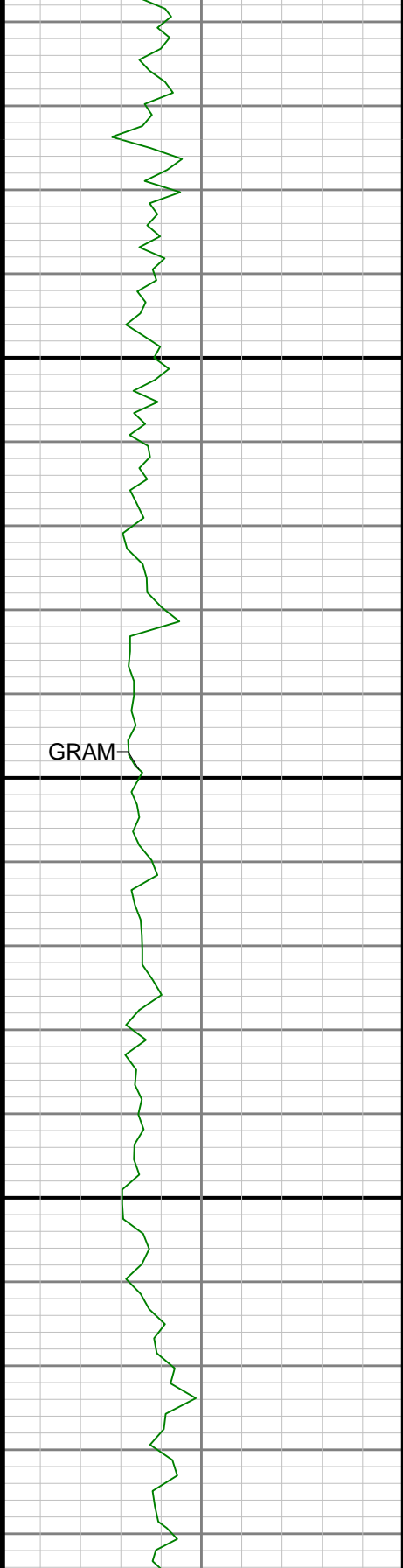




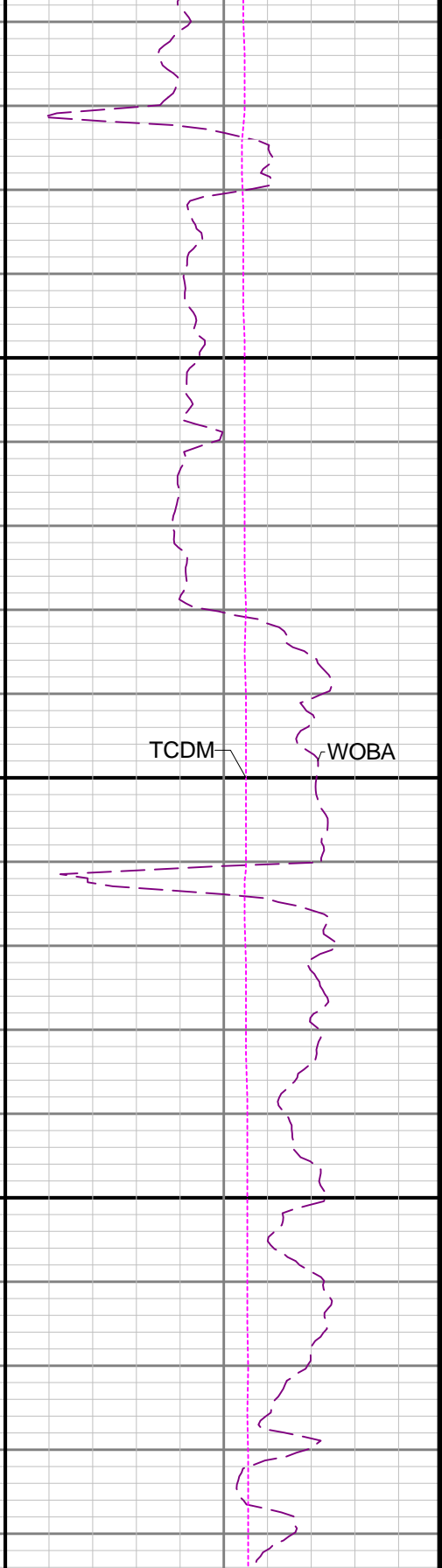
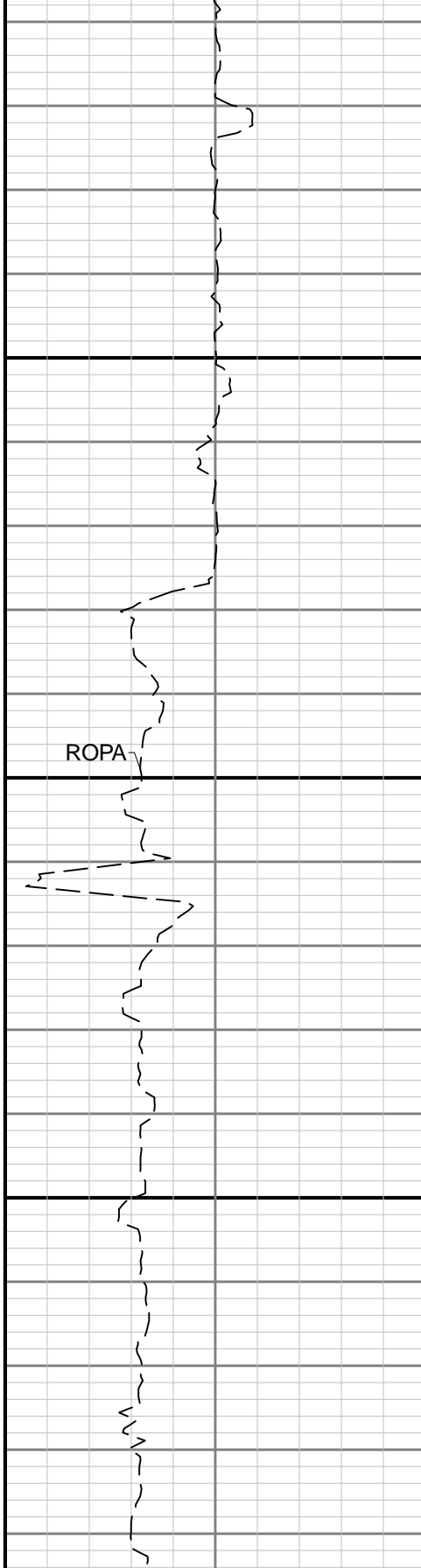
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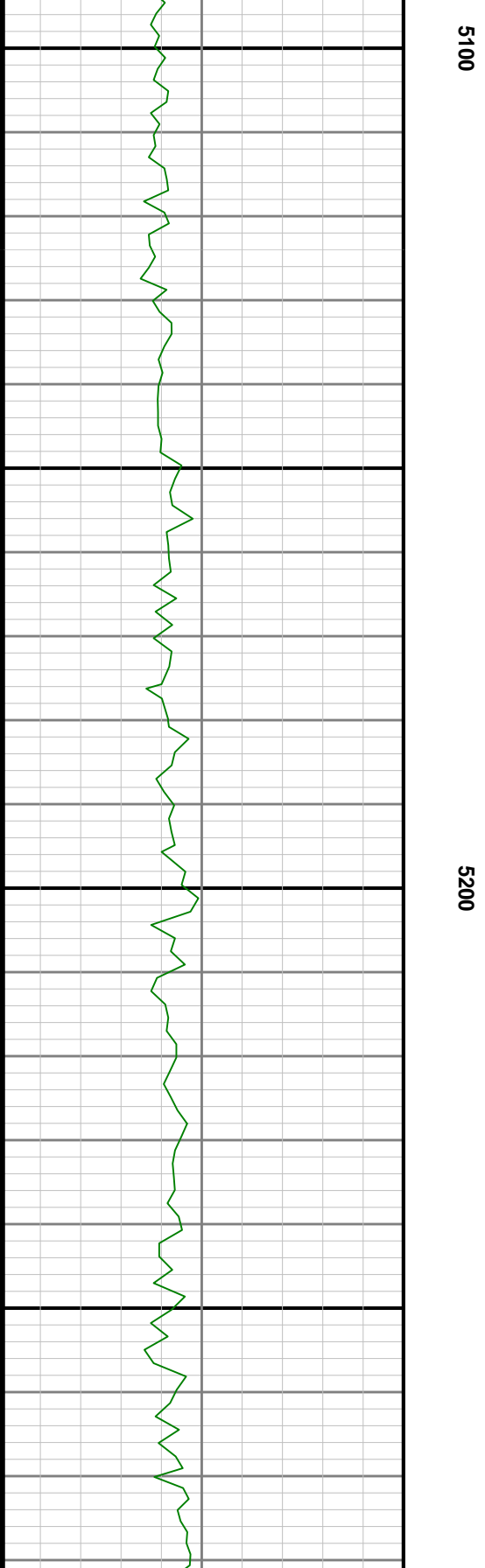
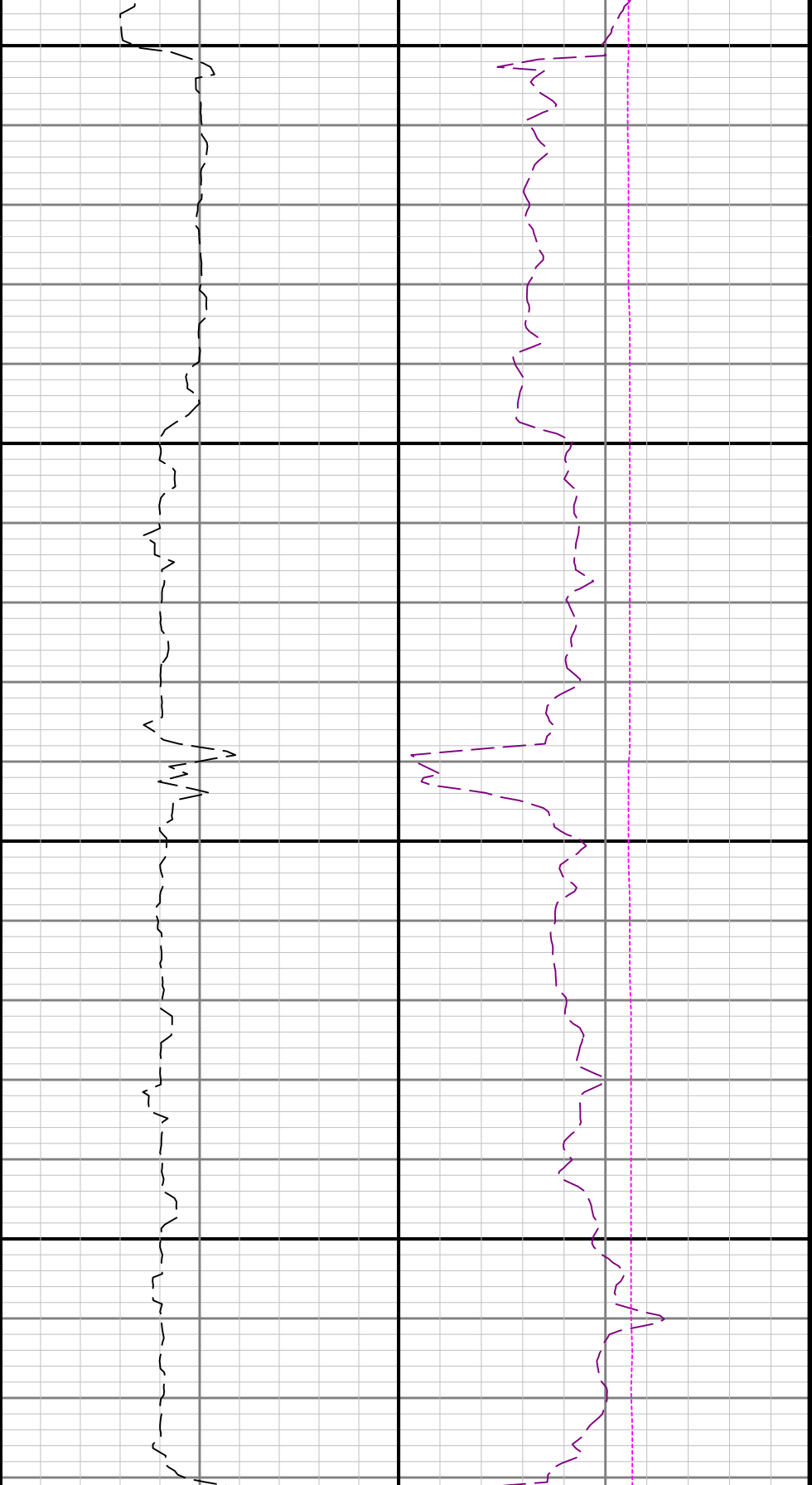
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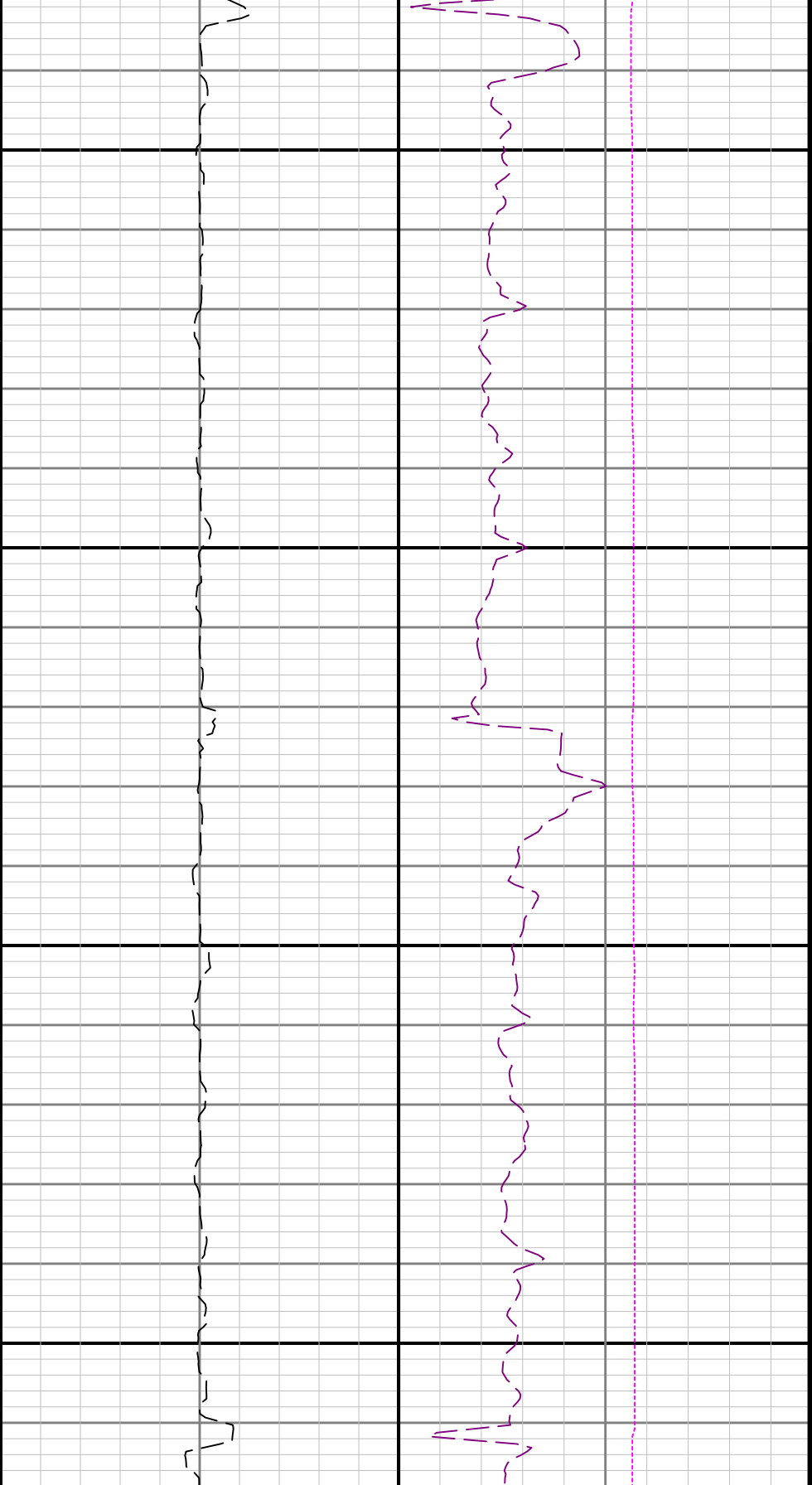




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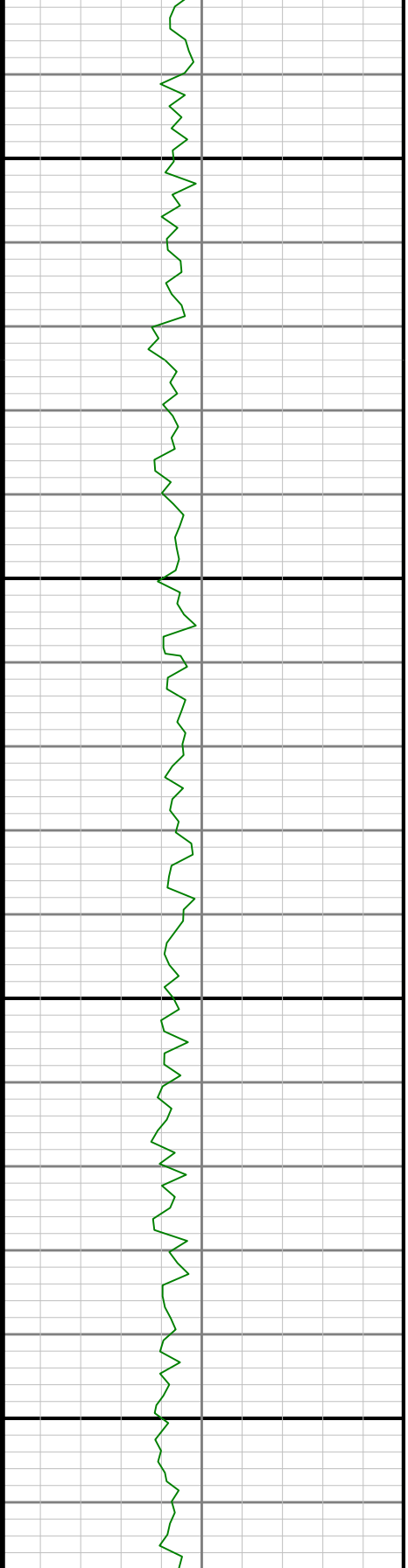


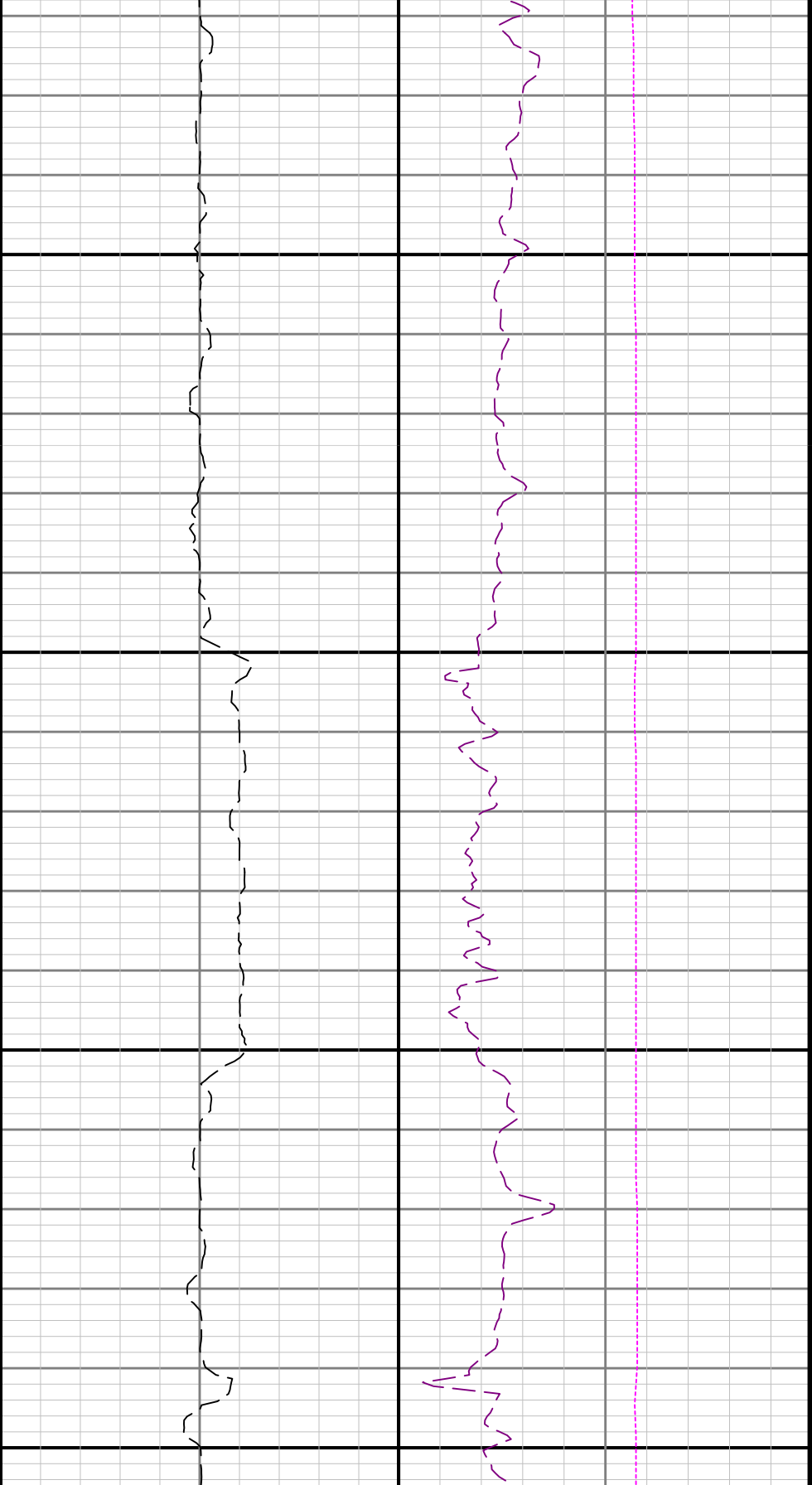




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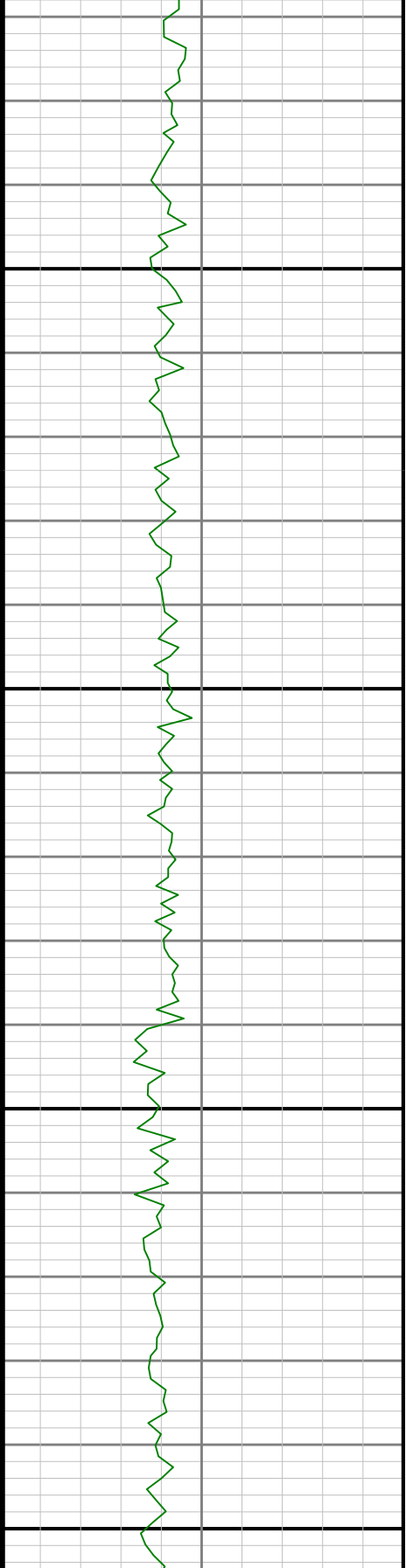
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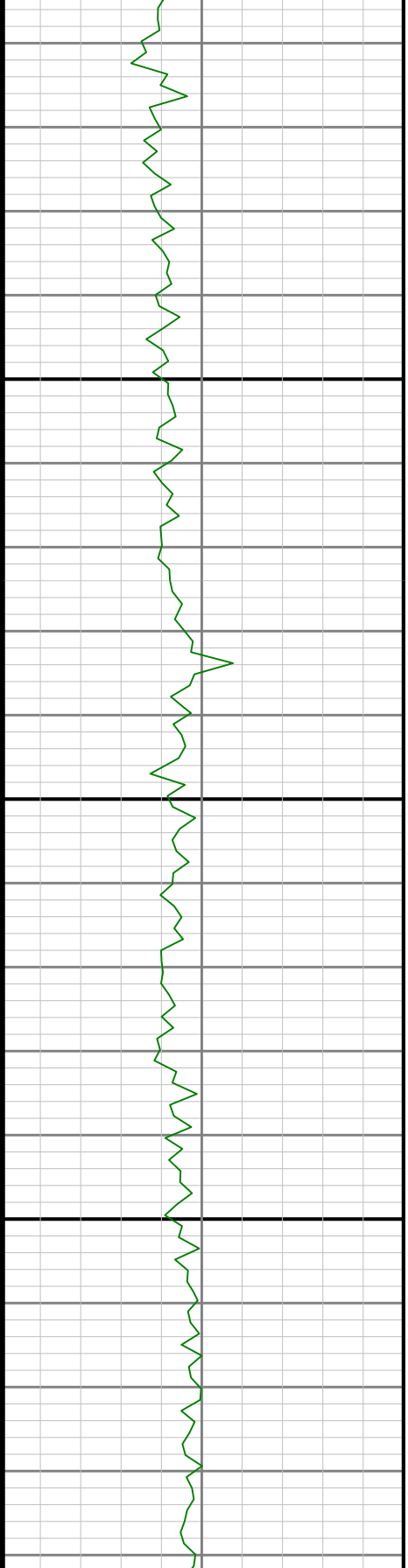
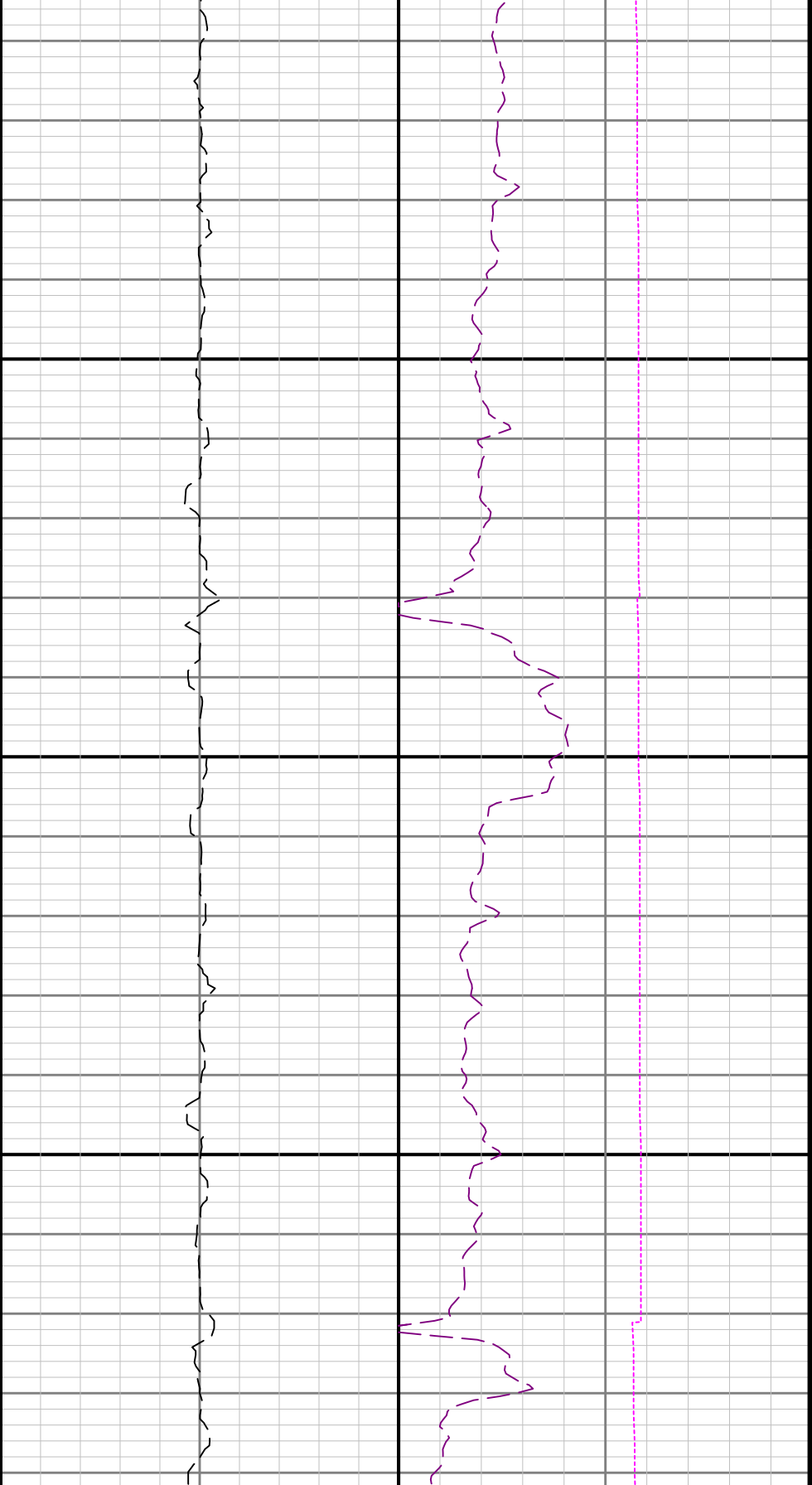


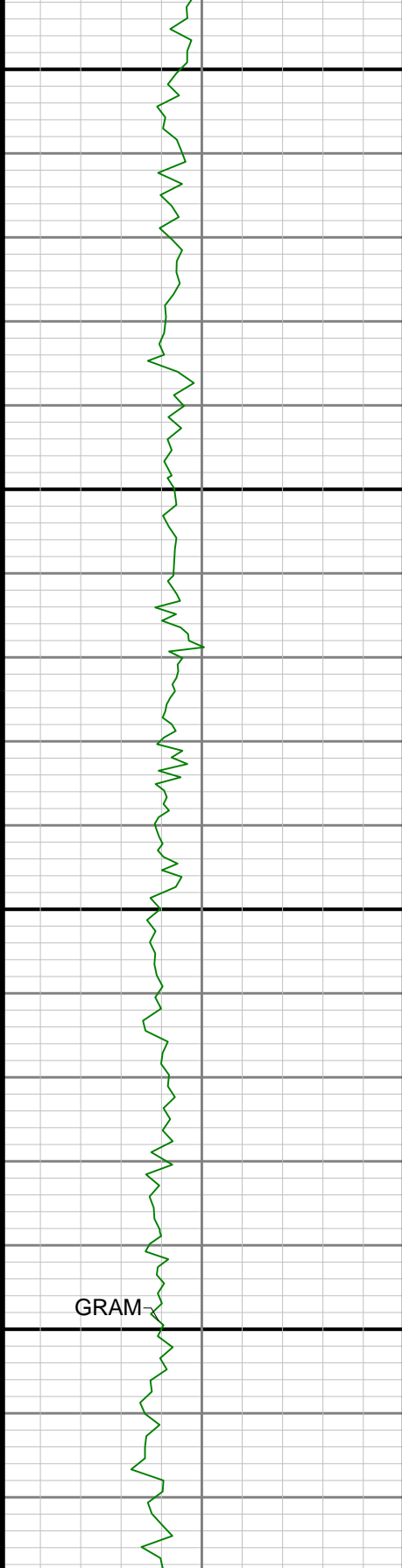


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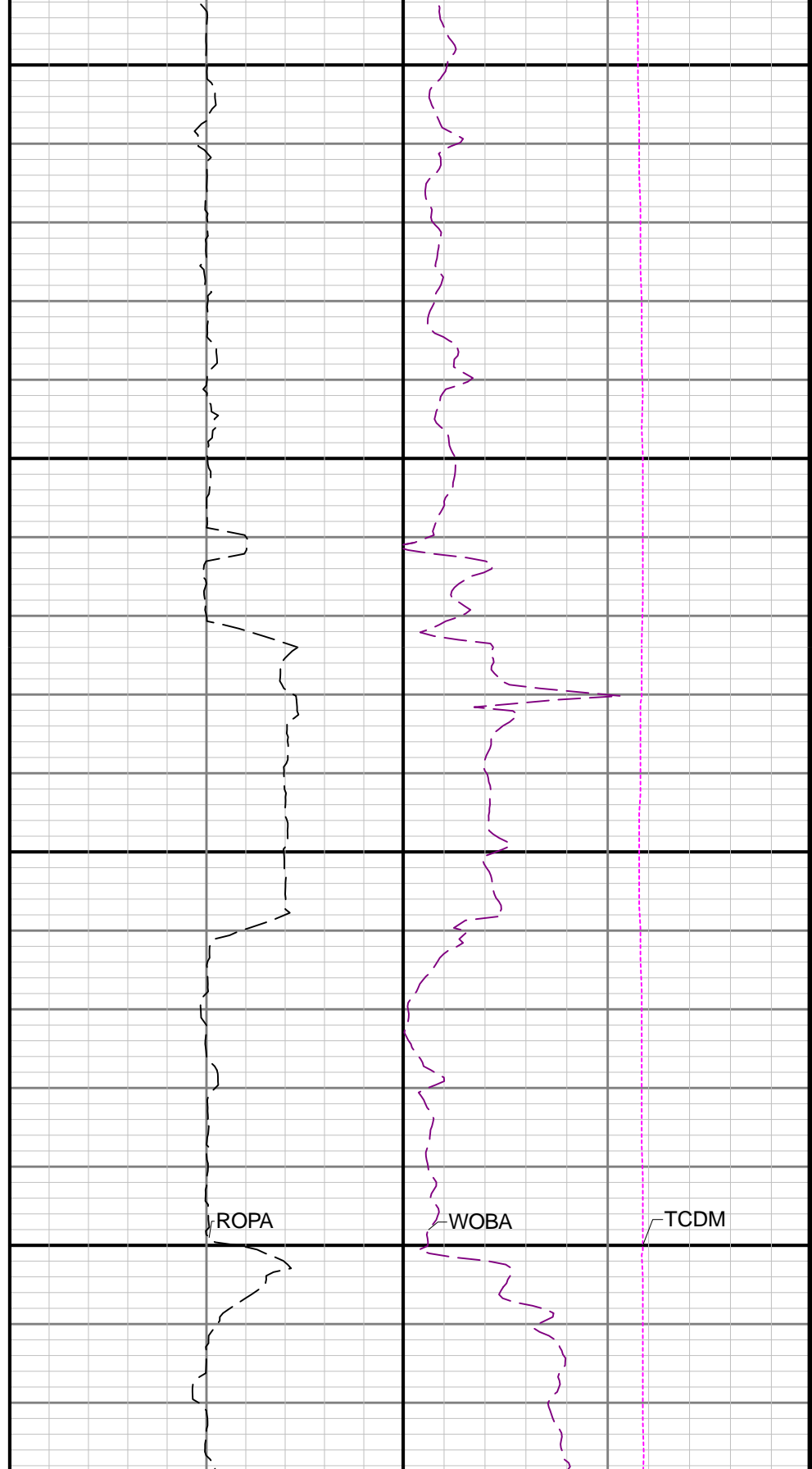


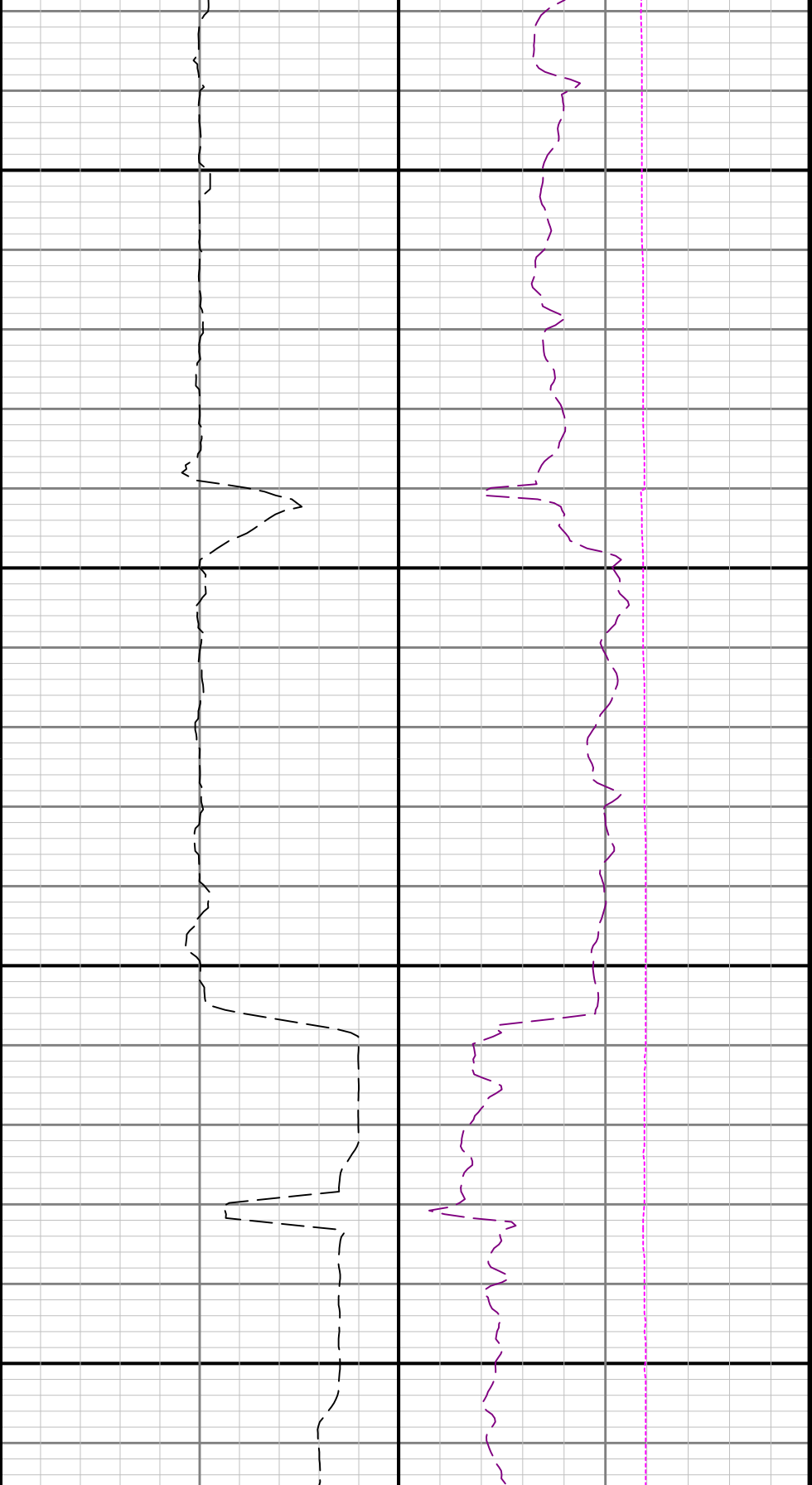




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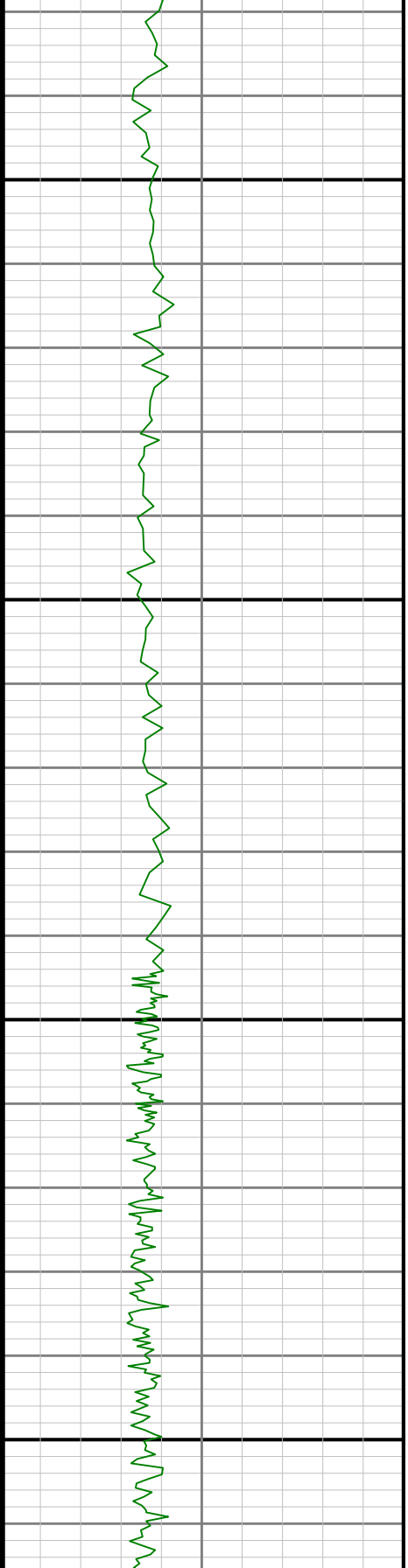
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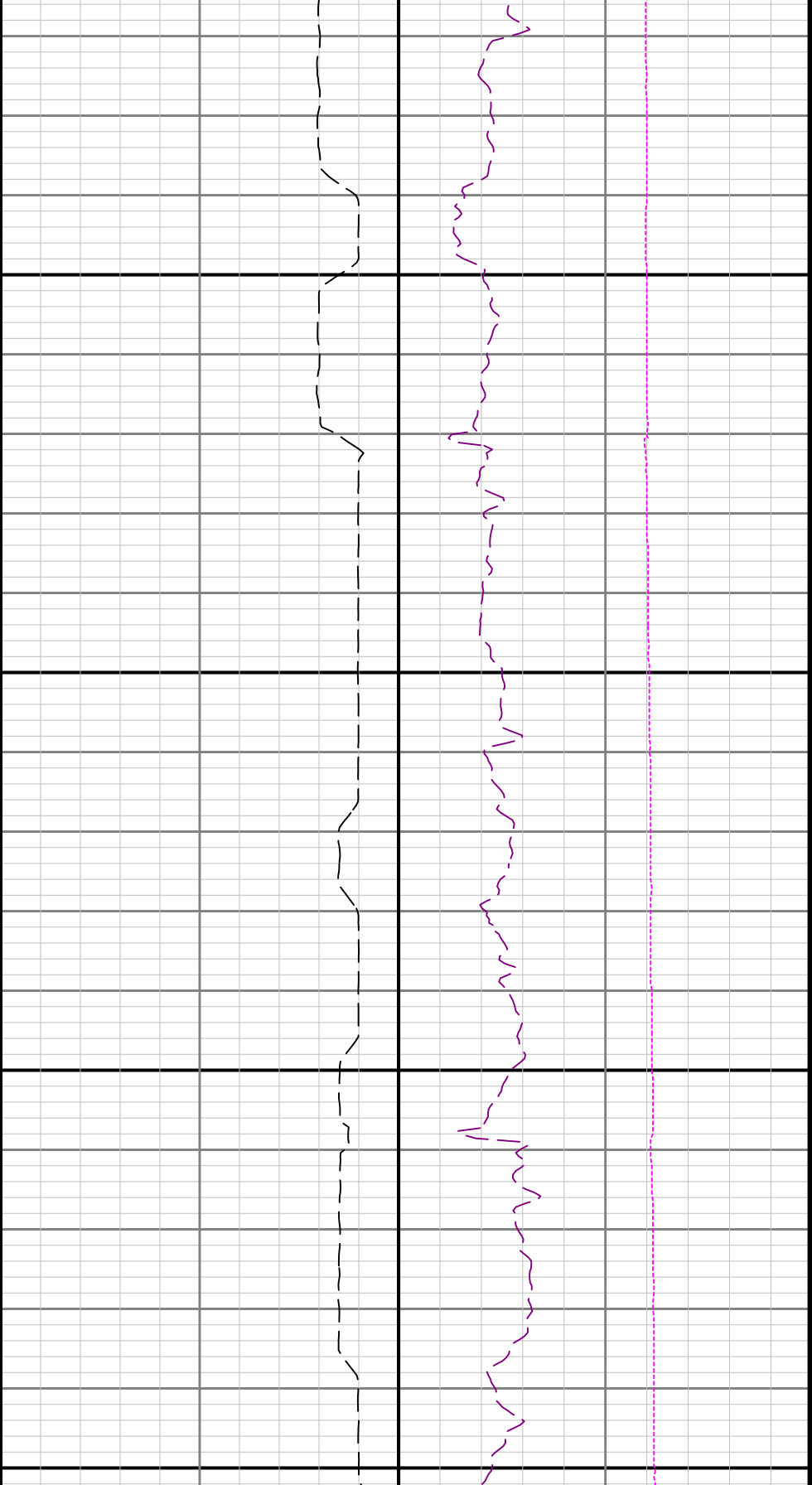




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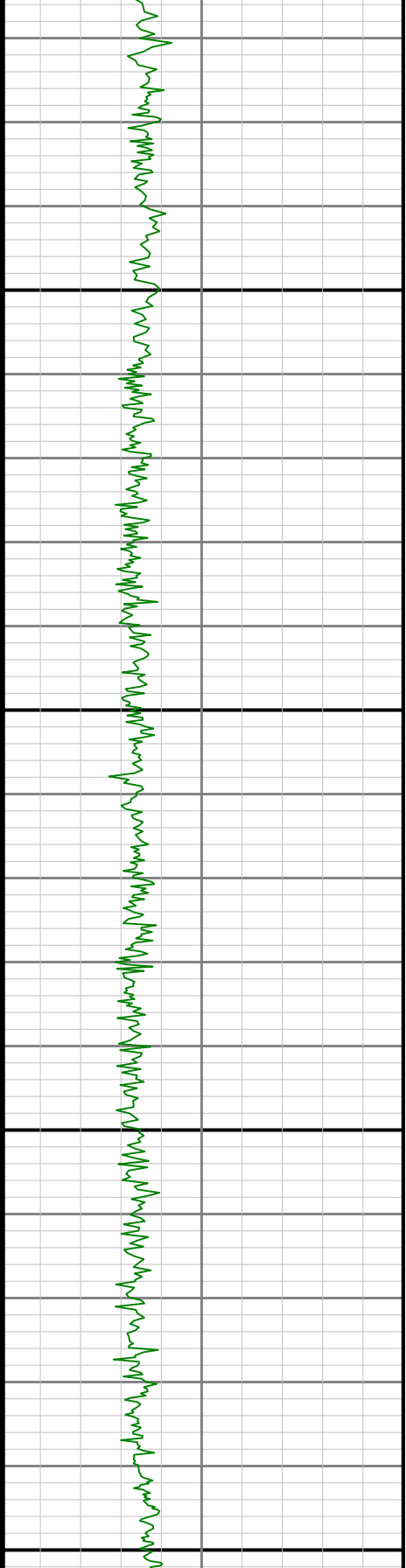
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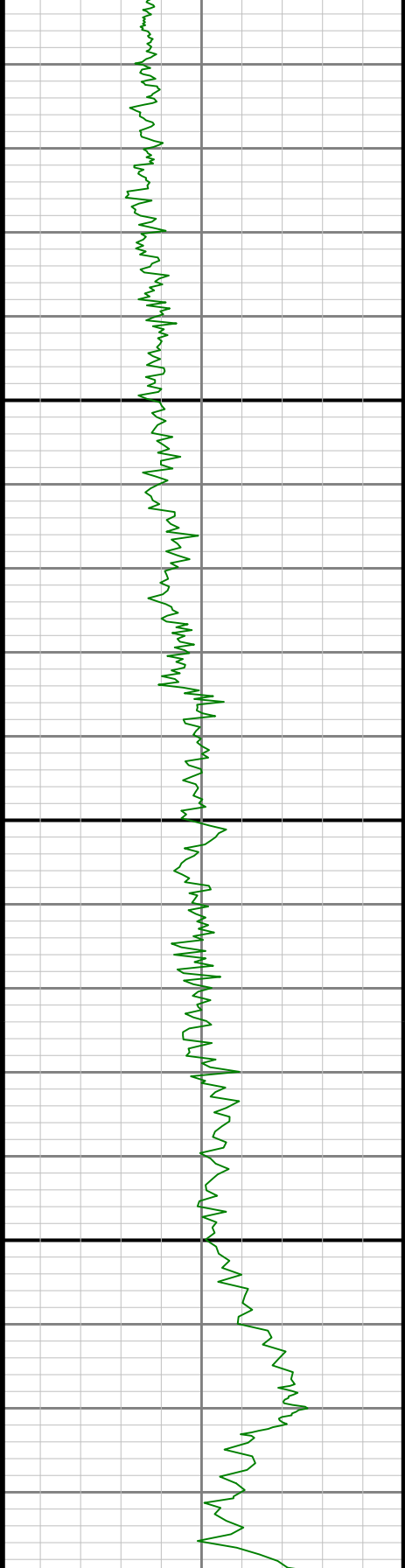




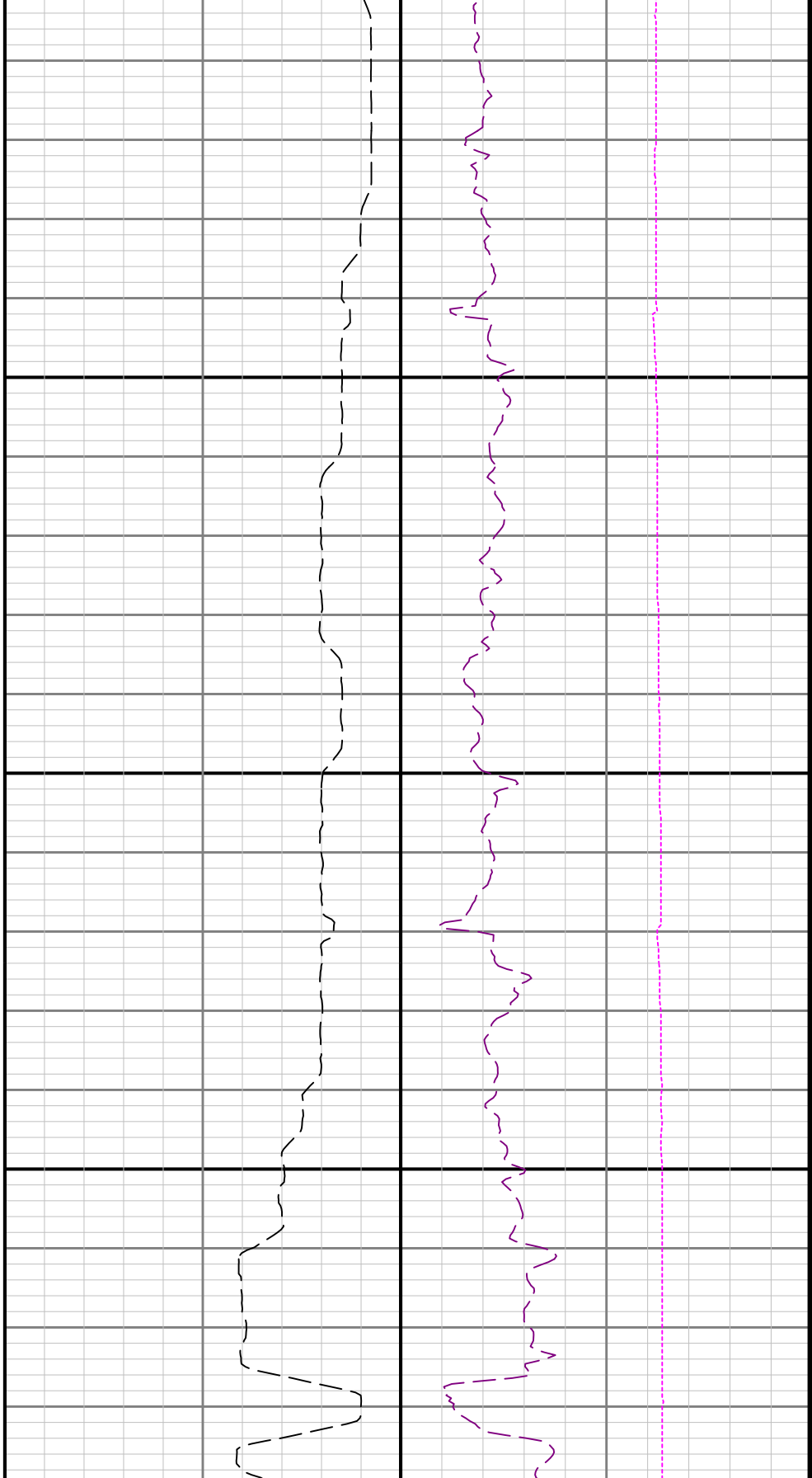
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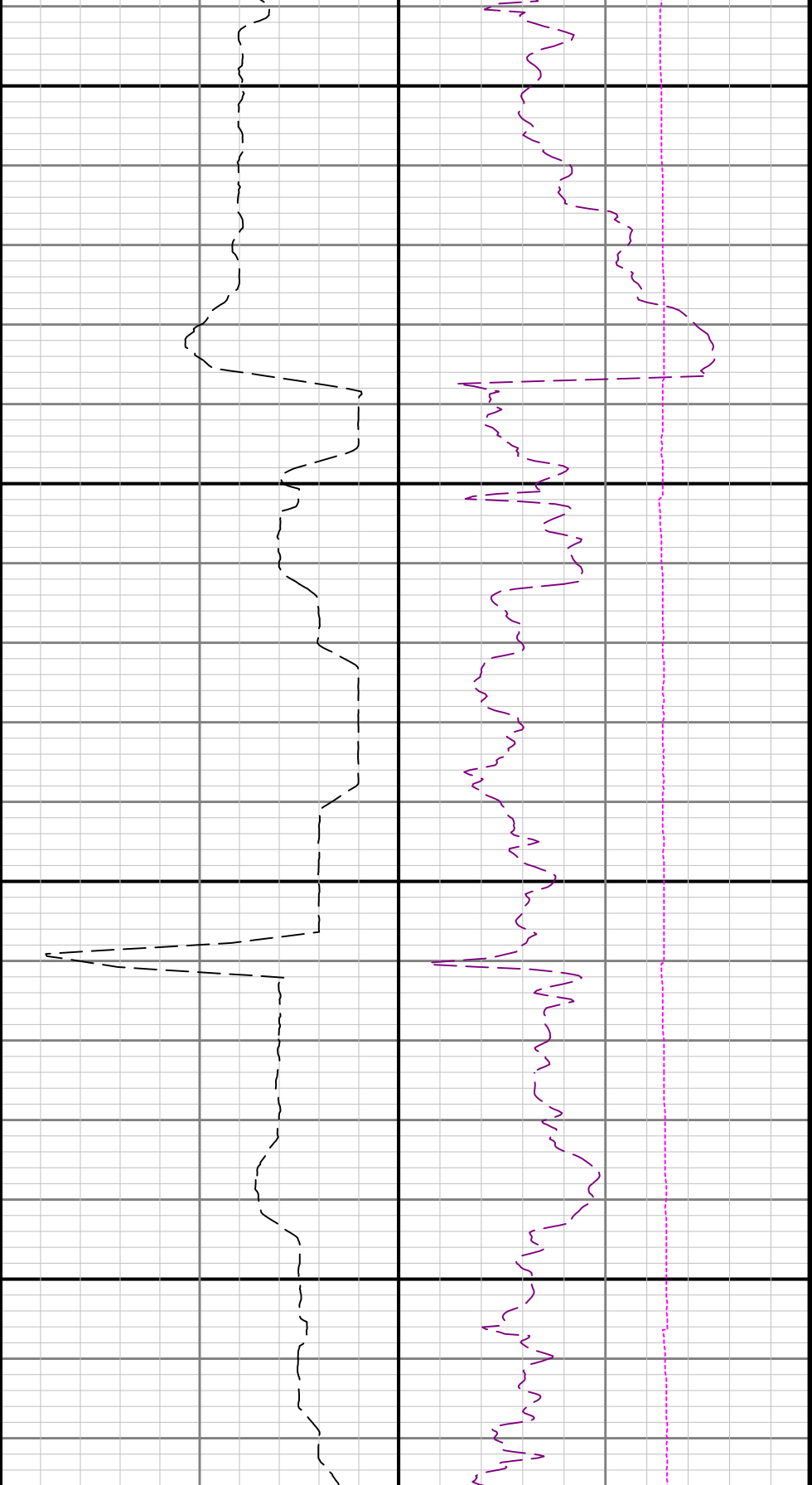
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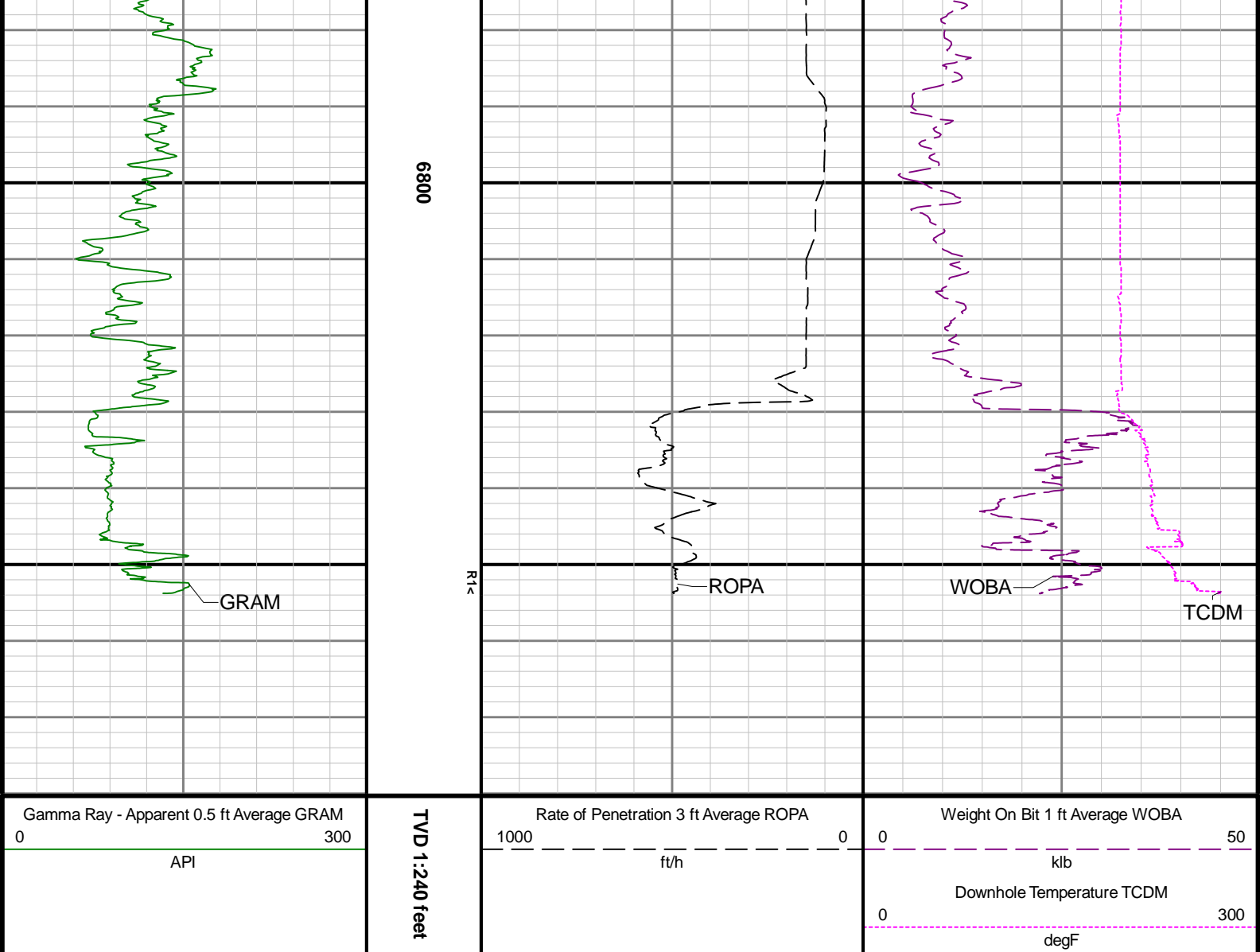
6500





6600

6700



Directional Survey Summary													
Latitude:		40° 27' 55.853" N				Longitude:		104° 34' 10.885" 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)		171.92				Magnetic Declination: (deg)		7.60					
Grid Convergence: (deg)		-0.60				TVD Calculation Method:		Minimum Curvature					
Total Correction: (deg)		7.00				Local Magnetic Field: (nT)		51896					
Magnetic Correction:		N/A				Local Gravity Field: (m/s2)		9.800					
Local Magnetic Dip Angle: (deg)		66.78											
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	-4737.00	0.00	0.00	0.00	0.00	0.00
	80.00	0.34	23.61	N/A	0.22	0.10	80.00	-4657.00	-0.20	80.00	0.42	0.42	29.51
	173.00	0.36	306.03	N/A	0.64	-0.03	173.00	-4564.00	-0.64	93.00	0.47	0.02	-83.42
	264.00	0.33	327.75	N/A	1.03	-0.40	264.00	-4473.00	-1.08	91.00	0.15	-0.03	23.87
	327.00	0.28	329.77	N/A	1.32	-0.58	327.00	-4410.00	-1.39	63.00	0.08	-0.08	3.21
	422.00	0.25	292.89	N/A	1.60	-0.88	421.99	-4315.01	-1.71	95.00	0.18	-0.03	-38.87

	516.00	0.38	325.90	N/A	1.94	-1.25	515.99	-4221.01	-2.09	94.00	0.23	0.14	35.12
	610.00	0.54	267.11	N/A	2.17	-1.86	609.99	-4127.01	-2.41	94.00	0.50	0.17	-62.54
	705.00	0.39	174.61	N/A	1.83	-2.28	704.99	-4032.01	-2.13	95.00	0.72	-0.16	-97.37
	799.00	0.26	110.99	N/A	1.43	-2.05	798.99	-3938.01	-1.71	94.00	0.38	-0.14	-67.68
	894.00	0.09	84.81	N/A	1.36	-1.78	893.99	-3843.01	-1.60	95.00	0.19	-0.18	-27.56
	988.00	0.11	148.83	N/A	1.29	-1.66	987.99	-3749.01	-1.51	94.00	0.11	0.02	68.11
	1083.00	0.19	95.49	N/A	1.20	-1.45	1082.99	-3654.01	-1.39	95.00	0.16	0.08	-56.15
	1177.00	0.29	197.43	N/A	0.96	-1.37	1176.99	-3560.01	-1.14	94.00	0.40	0.11	108.45
	1272.00	0.36	168.63	N/A	0.44	-1.38	1271.98	-3465.02	-0.63	95.00	0.18	0.07	-30.32
	1366.00	0.41	174.71	N/A	-0.19	-1.29	1365.98	-3371.02	0.00	94.00	0.07	0.05	6.47
	1461.00	0.65	199.05	N/A	-1.04	-1.44	1460.98	-3276.02	0.82	95.00	0.34	0.25	25.62
	1556.00	0.64	218.27	N/A	-1.96	-1.94	1555.97	-3181.03	1.67	95.00	0.23	-0.01	20.23
	1650.00	0.47	227.23	N/A	-2.64	-2.55	1649.97	-3087.03	2.25	94.00	0.20	-0.18	9.53
	1745.00	0.64	280.02	N/A	-2.81	-3.36	1744.96	-2992.04	2.31	95.00	0.54	0.18	55.57
	1839.00	0.64	308.92	N/A	-2.39	-4.28	1838.96	-2898.04	1.76	94.00	0.34	0.00	30.74
Tie-In	1904.00	0.50	342.88	N/A	-1.89	-4.65	1903.96	-2833.04	1.22	65.00	0.55	-0.22	52.25
	1990.00	0.68	23.60	117.6	-1.06	-4.56	1989.95	-2747.05	0.41	86.00	0.52	0.21	47.35
	2085.00	2.96	99.71	120.3	-0.96	-1.91	2084.90	-2652.10	0.68	95.00	3.02	2.40	80.12
	2179.00	5.83	99.67	123.0	-2.17	5.19	2178.62	-2558.38	2.88	94.00	3.05	3.05	-0.04
	2274.00	7.33	99.08	125.7	-3.94	15.93	2272.99	-2464.01	6.14	95.00	1.58	1.58	-0.62
	2368.00	6.95	98.82	125.7	-5.76	27.47	2366.26	-2370.74	9.56	94.00	0.41	-0.40	-0.28
	2463.00	7.93	99.89	128.4	-7.76	39.61	2460.46	-2276.54	13.25	95.00	1.04	1.03	1.13
	2558.00	10.41	100.25	131.1	-10.42	54.51	2554.24	-2182.76	17.97	95.00	2.61	2.61	0.38
	2652.00	12.91	99.65	133.8	-13.69	73.22	2646.29	-2090.71	23.84	94.00	2.66	2.66	-0.64
	2747.00	15.23	100.08	133.8	-17.65	95.97	2738.44	-1998.56	30.97	95.00	2.44	2.44	0.45
	2841.00	17.91	100.37	136.5	-22.41	122.35	2828.52	-1908.48	39.39	94.00	2.85	2.85	0.31
	2936.00	17.60	99.96	139.2	-27.53	150.87	2919.00	-1818.00	48.46	95.00	0.35	-0.33	-0.43
	3031.00	17.92	100.55	136.5	-32.69	179.38	3009.47	-1727.53	57.58	95.00	0.39	0.34	0.62
	3125.00	17.98	100.68	141.9	-38.02	207.85	3098.90	-1638.10	66.86	94.00	0.08	0.06	0.14
	3220.00	16.81	102.22	141.9	-43.65	235.69	3189.55	-1547.45	76.34	95.00	1.32	-1.23	1.62
	3314.00	17.43	99.82	141.9	-48.93	262.85	3279.39	-1457.61	85.39	94.00	1.00	0.66	-2.55
	3409.00	17.72	100.15	141.9	-53.90	291.10	3369.95	-1367.05	94.28	95.00	0.32	0.31	0.35
	3504.00	17.59	101.28	141.9	-59.26	319.41	3460.48	-1276.52	103.56	95.00	0.39	-0.14	1.19
	3598.00	17.69	100.68	144.6	-64.68	347.37	3550.06	-1186.94	112.87	94.00	0.22	0.11	-0.64
	3693.00	18.13	99.63	144.6	-69.83	376.13	3640.45	-1096.55	122.00	95.00	0.57	0.46	-1.11
	3787.00	17.95	99.73	147.3	-74.73	404.82	3729.83	-1007.17	130.88	94.00	0.19	-0.19	0.11
	3882.00	18.03	99.68	150.0	-79.67	433.74	3820.19	-916.81	139.85	95.00	0.09	0.08	-0.05
	3976.00	17.94	100.16	150.0	-84.67	462.33	3909.59	-827.41	148.81	94.00	0.18	-0.10	0.51
	4071.00	17.63	100.14	152.7	-89.79	490.90	4000.05	-736.95	157.89	95.00	0.33	-0.33	-0.02
	4166.00	17.87	99.77	152.7	-94.79	519.42	4090.53	-646.47	166.86	95.00	0.28	0.25	-0.39
	4261.00	17.70	100.34	152.7	-99.86	547.99	4180.99	-556.01	175.89	95.00	0.26	-0.18	0.60
	4356.00	17.73	100.22	152.7	-105.02	576.44	4271.49	-465.51	184.99	95.00	0.05	0.03	-0.13
	4450.00	18.50	100.40	158.1	-110.25	605.19	4360.83	-376.17	194.22	94.00	0.82	0.82	0.19
	4545.00	18.59	99.89	158.1	-115.57	634.93	4450.89	-286.11	203.67	95.00	0.20	0.09	-0.54
	4640.00	18.28	100.17	158.1	-120.80	664.52	4541.02	-195.98	213.00	95.00	0.34	-0.33	0.29
	4734.00	18.24	99.49	158.1	-125.83	693.54	4630.29	-106.71	222.06	94.00	0.23	-0.04	-0.72
	4829.00	18.27	100.20	160.8	-130.92	722.86	4720.50	-16.50	231.22	95.00	0.24	0.03	0.75
	4924.00	18.23	99.98	163.5	-136.13	752.15	4810.73	73.73	240.50	95.00	0.08	-0.04	-0.23
	5018.00	18.30	99.99	163.5	-141.24	781.16	4899.99	162.99	249.63	94.00	0.07	0.07	0.01
	5113.00	18.47	99.99	163.5	-146.44	810.67	4990.14	253.14	258.93	95.00	0.18	0.18	0.00
	5207.00	18.13	99.76	166.2	-151.50	839.75	5079.39	342.39	268.03	94.00	0.37	-0.36	-0.24
	5302.00	18.06	101.29	168.9	-156.89	868.75	5169.69	432.69	277.44	95.00	0.51	-0.07	1.61
	5397.00	17.67	101.84	168.9	-162.73	897.31	5260.11	523.11	287.23	95.00	0.45	-0.41	0.58
	5491.00	18.08	100.83	168.9	-168.40	925.60	5349.57	612.57	296.82	94.00	0.55	0.44	-1.07
	5586.00	18.16	100.75	168.9	-173.93	954.62	5439.86	702.86	306.38	95.00	0.09	0.08	-0.08
	5680.00	18.09	101.00	174.3	-179.44	983.34	5529.20	792.20	315.88	94.00	0.11	-0.07	0.27
	5775.00	18.22	99.32	171.6	-184.66	1012.47	5619.47	882.47	325.14	95.00	0.57	0.14	-1.77
	5869.00	18.12	97.88	174.3	-189.05	1041.45	5708.78	971.78	333.55	94.00	0.49	-0.11	-1.53
	5964.00	18.20	97.79	171.6	-193.08	1070.78	5799.05	1062.05	341.67	95.00	0.09	0.08	-0.09
	6058.00	18.15	97.71	177.0	-197.04	1099.84	5888.36	1151.36	349.67	94.00	0.06	-0.05	-0.09
	6153.00	18.00	97.81	174.3	-201.02	1129.04	5978.67	1241.67	357.71	95.00	0.16	-0.16	0.11
	6248.00	18.04	97.75	177.0	-205.00	1158.16	6069.01	1332.01	365.75	95.00	0.05	0.04	-0.06

		6342.00	17.91	97.66	177.0	-208.88	1186.91	6158.42	1421.42	373.64	94.00	0.14	-0.14	-0.10
		6437.00	19.62	117.43	179.7	-218.19	1215.57	6248.46	1511.46	386.88	95.00	6.90	1.80	20.81
		6532.00	22.98	133.56	182.5	-238.34	1243.20	6337.03	1600.03	410.71	95.00	7.08	3.54	16.98
		6626.00	29.21	146.88	185.2	-270.25	1269.07	6421.48	1684.48	445.95	94.00	9.06	6.63	14.17
		6721.00	36.38	153.30	187.9	-314.91	1294.44	6501.31	1764.31	493.72	95.00	8.38	7.55	6.76
		6815.00	43.25	159.44	187.9	-370.05	1318.31	6573.50	1836.50	551.68	94.00	8.41	7.31	6.53
		6910.00	49.42	160.47	190.6	-434.59	1341.83	6639.06	1902.06	618.88	95.00	6.54	6.49	1.08
		7004.00	54.91	168.09	190.6	-505.98	1361.73	6696.75	1959.75	692.36	94.00	8.66	5.84	8.11
		7099.00	62.59	167.73	193.3	-585.34	1378.74	6746.00	2009.00	773.32	95.00	8.09	8.08	-0.38
		7193.00	70.19	167.58	193.3	-669.41	1397.14	6783.62	2046.62	859.15	94.00	8.09	8.09	-0.16
		7288.00	77.50	173.88	193.3	-759.37	1411.73	6810.06	2073.06	950.26	95.00	9.99	7.69	6.63
		7383.00	84.02	177.46	193.3	-852.81	1418.78	6825.31	2088.31	1043.76	95.00	7.81	6.86	3.77
		7477.00	90.03	180.30	193.3	-946.61	1420.61	6830.19	2093.19	1136.89	94.00	7.07	6.39	3.02
		7572.00	89.63	179.73	201.4	-1041.61	1420.58	6830.47	2093.47	1230.94	95.00	0.73	-0.42	-0.60
		7666.00	89.57	180.56	201.4	-1135.61	1420.34	6831.12	2094.12	1323.97	94.00	0.89	-0.06	0.88
		7761.00	89.75	179.62	206.8	-1230.60	1420.19	6831.69	2094.69	1418.00	95.00	1.01	0.19	-0.99
		7855.00	89.97	180.33	206.8	-1324.60	1420.23	6831.92	2094.92	1511.08	94.00	0.79	0.23	0.76
		7950.00	89.63	180.15	206.8	-1419.60	1419.84	6832.25	2095.25	1605.07	95.00	0.40	-0.36	-0.19
		8044.00	89.45	180.00	212.2	-1513.60	1419.71	6833.00	2096.00	1698.12	94.00	0.25	-0.19	-0.16
		8139.00	89.91	180.20	212.2	-1608.60	1419.55	6833.54	2096.54	1792.15	95.00	0.53	0.48	0.21
		8233.00	89.63	179.42	212.2	-1702.59	1419.86	6833.91	2096.91	1885.26	94.00	0.88	-0.30	-0.83
		8328.00	89.63	180.92	212.2	-1797.59	1419.58	6834.53	2097.53	1979.27	95.00	1.58	0.00	1.58
		8422.00	89.32	181.17	214.9	-1891.57	1417.86	6835.39	2098.39	2072.08	94.00	0.42	-0.33	0.27
		8517.00	89.57	178.48	214.9	-1986.56	1418.15	6836.31	2099.31	2166.16	95.00	2.84	0.26	-2.83
		8612.00	88.86	178.14	214.9	-2081.50	1420.96	6837.61	2100.61	2260.56	95.00	0.83	-0.75	-0.36
		8706.00	89.08	178.30	217.6	-2175.44	1423.87	6839.30	2102.30	2353.98	94.00	0.29	0.23	0.17
		8801.00	89.20	178.40	217.6	-2270.39	1426.61	6840.72	2103.72	2448.37	95.00	0.16	0.13	0.11
		8896.00	89.29	179.17	217.6	-2365.36	1428.62	6841.98	2104.98	2542.68	95.00	0.82	0.09	0.81
		8990.00	89.35	178.59	217.6	-2459.34	1430.46	6843.09	2106.09	2635.98	94.00	0.62	0.06	-0.62
		9085.00	90.03	179.73	217.6	-2554.32	1431.85	6843.61	2106.61	2730.22	95.00	1.40	0.72	1.20
		9179.00	89.54	178.96	220.3	-2648.32	1432.93	6843.96	2106.96	2823.43	94.00	0.97	-0.52	-0.82
		9274.00	89.78	178.88	220.3	-2743.30	1434.72	6844.52	2107.52	2917.72	95.00	0.27	0.25	-0.08
		9368.00	89.51	179.48	223.0	-2837.29	1436.06	6845.11	2108.11	3010.97	94.00	0.70	-0.29	0.64
		9463.00	89.97	180.00	223.0	-2932.28	1436.50	6845.54	2108.54	3105.08	95.00	0.73	0.48	0.55
		9557.00	90.43	179.75	225.7	-3026.28	1436.70	6845.21	2108.21	3198.18	94.00	0.56	0.49	-0.27
		9652.00	90.71	180.27	225.7	-3121.28	1436.68	6844.26	2107.26	3292.23	95.00	0.62	0.29	0.55
		9746.00	89.85	179.01	225.7	-3215.27	1437.27	6843.80	2106.80	3385.37	94.00	1.62	-0.91	-1.34
		9841.00	89.94	177.85	228.4	-3310.23	1439.88	6843.98	2106.98	3479.76	95.00	1.22	0.09	-1.22
		9936.00	90.25	176.73	228.4	-3405.13	1444.37	6843.82	2106.82	3574.34	95.00	1.22	0.33	-1.18
		10030.00	89.02	178.25	225.7	-3499.03	1448.49	6844.42	2107.42	3667.89	94.00	2.08	-1.31	1.62
		10125.00	90.28	179.72	228.4	-3594.01	1450.17	6845.00	2108.00	3762.16	95.00	2.04	1.33	1.55
		10219.00	90.25	179.77	228.4	-3688.01	1450.59	6844.56	2107.56	3855.28	94.00	0.06	-0.03	0.05
		10314.00	90.22	179.98	231.1	-3783.01	1450.79	6844.18	2107.18	3949.37	95.00	0.22	-0.03	0.22
		10408.00	90.25	180.73	233.8	-3877.00	1450.21	6843.79	2106.79	4042.35	94.00	0.80	0.03	0.80
		10503.00	90.15	179.38	233.8	-3972.00	1450.12	6843.46	2106.46	4136.39	95.00	1.42	-0.11	-1.42
		10598.00	88.80	179.49	236.5	-4066.99	1451.06	6844.33	2107.33	4230.57	95.00	1.43	-1.42	0.12
		10692.00	89.42	179.32	236.5	-4160.97	1452.03	6845.79	2108.79	4323.76	94.00	0.68	0.66	-0.18
		10787.00	89.66	178.99	236.5	-4255.96	1453.43	6846.55	2109.55	4418.00	95.00	0.43	0.25	-0.35
		10881.00	89.97	179.49	239.2	-4349.95	1454.68	6846.85	2109.85	4511.23	94.00	0.63	0.33	0.53
		10975.00	89.91	178.80	236.5	-4443.94	1456.08	6846.95	2109.95	4604.48	94.00	0.74	-0.06	-0.73
		11070.00	89.97	179.54	239.2	-4538.93	1457.46	6847.05	2110.05	4698.72	95.00	0.78	0.06	0.78
		11165.00	89.78	179.44	214.9	-4633.92	1458.30	6847.26	2110.26	4792.89	95.00	0.23	-0.20	-0.11
		11259.00	89.63	178.35	214.9	-4727.90	1460.12	6847.74	2110.74	4886.20	94.00	1.17	-0.16	-1.16
		11353.00	89.85	178.90	220.3	-4821.87	1462.37	6848.17	2111.17	4979.55	94.00	0.63	0.23	0.59
		11448.00	89.72	179.62	223.0	-4916.87	1463.60	6848.53	2111.53	5073.77	95.00	0.77	-0.14	0.76
		11542.00	89.63	179.61	225.7	-5010.86	1464.23	6849.06	2112.06	5166.92	94.00	0.10	-0.10	-0.01
		11637.00	89.75	179.11	228.4	-5105.85	1465.29	6849.57	2112.57	5261.12	95.00	0.54	0.13	-0.53
		11732.00	89.69	179.54	231.1	-5200.85	1466.41	6850.04	2113.04	5355.33	95.00	0.46	-0.06	0.45
		11826.00	89.29	179.80	233.8	-5294.84	1466.95	6850.87	2113.87	5448.47	94.00	0.51	-0.43	0.28
		11921.00	89.63	179.56	236.5	-5389.83	1467.48	6851.77	2114.77	5542.59	95.00	0.44	0.36	-0.25
		12015.00	89.97	179.22	233.8	-5483.83	1468.48	6852.10	2115.10	5635.79	94.00	0.51	0.36	-0.36
		12110.00	89.91	179.34	236.5	-5578.82	1469.68	6852.20	2115.20	5730.01	95.00	0.14	-0.06	0.13

	12205.00	90.55	180.16	239.2	-5673.82	1470.09	6851.82	2114.82	5824.12	95.00	1.09	0.67	0.86
	12299.00	90.40	179.36	241.9	-5767.81	1470.49	6851.04	2114.04	5917.24	94.00	0.87	-0.16	-0.85
	12394.00	89.88	179.34	241.9	-5862.81	1471.56	6850.81	2113.81	6011.44	95.00	0.55	-0.55	-0.02
	12488.00	89.91	179.15	244.6	-5956.80	1472.80	6850.98	2113.98	6104.67	94.00	0.20	0.03	-0.20
	12583.00	89.75	178.99	244.6	-6051.78	1474.34	6851.26	2114.26	6198.93	95.00	0.24	-0.17	-0.17
	12677.00	89.88	179.25	247.3	-6145.77	1475.79	6851.56	2114.56	6292.19	94.00	0.31	0.14	0.28
	12772.00	89.60	179.20	247.3	-6240.76	1477.07	6851.99	2114.99	6386.42	95.00	0.30	-0.29	-0.05
	12867.00	89.88	179.39	247.3	-6335.75	1478.24	6852.42	2115.42	6480.63	95.00	0.36	0.29	0.20
	12961.00	89.97	179.48	250.0	-6429.75	1479.17	6852.55	2115.55	6573.83	94.00	0.14	0.10	0.10
	13056.00	89.75	180.30	250.0	-6524.75	1479.35	6852.78	2115.78	6667.91	95.00	0.89	-0.23	0.86
	13150.00	89.82	179.62	250.0	-6618.75	1479.42	6853.13	2116.13	6760.98	94.00	0.73	0.07	-0.72
	13245.00	89.91	179.50	252.7	-6713.74	1480.15	6853.36	2116.36	6855.14	95.00	0.16	0.09	-0.13
	13340.00	89.91	179.48	252.7	-6808.74	1480.99	6853.51	2116.51	6949.31	95.00	0.02	0.00	-0.02
	13434.00	90.15	180.25	252.7	-6902.74	1481.21	6853.46	2116.46	7042.41	94.00	0.86	0.26	0.82
	13528.00	90.28	179.51	252.7	-6996.74	1481.41	6853.10	2116.10	7135.50	94.00	0.80	0.14	-0.79
	13623.00	89.82	179.34	252.7	-7091.73	1482.36	6853.02	2116.02	7229.69	95.00	0.52	-0.48	-0.18
	13718.00	90.00	179.11	252.7	-7186.72	1483.65	6853.17	2116.17	7323.92	95.00	0.31	0.19	-0.24
	13812.00	89.97	179.08	255.4	-7280.71	1485.13	6853.19	2116.19	7417.18	94.00	0.05	-0.03	-0.03
	13907.00	90.00	178.85	255.4	-7375.70	1486.85	6853.22	2116.22	7511.46	95.00	0.24	0.03	-0.24
	14001.00	89.85	179.17	252.7	-7469.68	1488.47	6853.34	2116.34	7604.74	94.00	0.38	-0.16	0.34
	14096.00	89.97	179.59	255.4	-7564.68	1489.50	6853.49	2116.49	7698.94	95.00	0.46	0.13	0.44
	14190.00	90.22	179.90	258.1	-7658.68	1489.92	6853.34	2116.34	7792.06	94.00	0.42	0.27	0.33
	14285.00	90.00	179.61	258.1	-7753.67	1490.33	6853.15	2116.15	7886.18	95.00	0.38	-0.23	-0.31
	14379.00	90.28	179.87	258.1	-7847.67	1490.75	6852.92	2115.92	7979.30	94.00	0.41	0.30	0.28
	14474.00	89.94	179.16	260.8	-7942.67	1491.56	6852.74	2115.74	8073.47	95.00	0.83	-0.36	-0.75
	14568.00	90.03	179.51	260.8	-8036.66	1492.65	6852.77	2115.77	8166.68	94.00	0.38	0.10	0.37
	14663.00	89.75	179.91	260.8	-8131.66	1493.13	6852.95	2115.95	8260.80	95.00	0.51	-0.29	0.42
	14757.00	89.88	179.28	258.1	-8225.66	1493.79	6853.25	2116.25	8353.96	94.00	0.68	0.14	-0.67
	14852.00	89.97	179.34	260.8	-8320.65	1494.94	6853.38	2116.38	8448.17	95.00	0.11	0.09	0.06
	14946.00	90.06	178.70	263.5	-8414.64	1496.55	6853.35	2116.35	8541.45	94.00	0.69	0.10	-0.68
	15041.00	90.09	179.61	263.5	-8509.62	1497.95	6853.23	2116.23	8635.69	95.00	0.96	0.03	0.96
	15135.00	90.06	179.28	263.5	-8603.62	1498.86	6853.10	2116.10	8728.88	94.00	0.35	-0.03	-0.35
	15230.00	89.94	178.89	266.2	-8698.61	1500.37	6853.10	2116.10	8823.14	95.00	0.43	-0.13	-0.41
	15324.00	91.02	178.76	263.5	-8792.58	1502.30	6852.32	2115.32	8916.45	94.00	1.16	1.15	-0.14
	15419.00	90.00	178.44	266.2	-8887.55	1504.62	6851.47	2114.47	9010.80	95.00	1.13	-1.07	-0.34
	15514.00	89.78	179.38	266.2	-8982.53	1506.43	6851.65	2114.65	9105.10	95.00	1.02	-0.23	0.99
	15608.00	89.45	178.55	266.2	-9076.51	1508.13	6852.29	2115.29	9198.38	94.00	0.95	-0.35	-0.88
	15703.00	89.72	178.74	266.2	-9171.48	1510.37	6852.97	2115.97	9292.73	95.00	0.35	0.28	0.20
	15798.00	90.52	179.08	269.0	-9266.46	1512.18	6852.77	2115.77	9387.02	95.00	0.92	0.84	0.36
	15892.00	89.91	180.87	266.2	-9360.46	1512.22	6852.42	2115.42	9480.09	94.00	2.01	-0.65	1.90
	15986.00	90.06	180.44	266.2	-9454.45	1511.15	6852.45	2115.45	9573.00	94.00	0.48	0.16	-0.46
	16081.00	89.85	180.27	266.2	-9549.45	1510.56	6852.52	2115.52	9666.97	95.00	0.28	-0.22	-0.18
	16176.00	89.63	180.42	266.2	-9644.45	1509.99	6852.95	2115.95	9760.94	95.00	0.28	-0.23	0.16
	16270.00	90.34	180.87	269.0	-9738.44	1508.93	6852.98	2115.98	9853.85	94.00	0.89	0.76	0.48
	16365.00	89.94	180.92	269.0	-9833.43	1507.44	6852.74	2115.74	9947.69	95.00	0.42	-0.42	0.05
	16459.00	89.75	180.66	269.0	-9927.42	1506.15	6853.00	2116.00	10040.57	94.00	0.34	-0.20	-0.28
	16553.00	89.63	180.87	269.0	-10021.41	1504.89	6853.51	2116.51	10133.45	94.00	0.26	-0.13	0.22
	16648.00	90.03	181.02	271.7	-10116.40	1503.33	6853.79	2116.79	10227.27	95.00	0.45	0.42	0.16
	16743.00	90.22	180.18	269.0	-10211.39	1502.33	6853.58	2116.58	10321.18	95.00	0.91	0.20	-0.88
	16837.00	89.85	179.36	271.7	-10305.39	1502.71	6853.52	2116.52	10414.30	94.00	0.96	-0.39	-0.87
	16932.00	90.15	179.00	266.2	-10400.38	1504.07	6853.52	2116.52	10508.54	95.00	0.49	0.32	-0.38
	17026.00	89.72	179.84	266.2	-10494.37	1505.02	6853.63	2116.63	10601.73	94.00	1.00	-0.46	0.89
Projection	17064.00	89.72	179.84	N/A	-10532.37	1505.13	6853.82	2116.82	10639.37	38.00	0.00	-0.01	-0.00