



Gamma Ray

LWD MEMORY LOG

Scale:

1:240

True Vertical Depth

Depth Reference:

Driller's Depth

Status:

Final Print

API No: 05-123-50929-00

Job ID: 111017839

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

Log Measured From: Rig Floor

Company: Noble Energy

Well: Rampart A32-730

Field: Wattenberg

County: Weld Country: United States

State: Colorado

Surface Location:

Latitude: 40° 27' 54.964" N

Longitude: 104° 34' 10.891" W

Other Services:

Directional

SEC: 20 TWN: 6N RGE: 64W

Elevation: 0.00 ft

Above P.D.: 4736.00 ft

Elev. KB:

Elev. DF:

Elev. GL:

4736.00 ft

4706.00 ft

Dates

From: 2021-09-03

To: 2021-09-05

Spud: 2021-09-01

Drilled (ft)

Top: 1970.00

Bottom: 16872.00

Logged (ft)

Top: 1970.00

Bottom: 16859.00

Azi Reference North:

Grid Dip Angle: (deg)

Total Magnetic Field Strength: (nT)

Magnetic Field Reference

Mag to Reference North Correction: (deg)

66.78

51901

7.00

Borehole Record

Casing Record

Hole Size (in)

From (ft)

To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

13.500

30.00

1970.00

8.500

1970.00

16872.00

9.625

36.00

30.00

1960.00

Mud Record

Deviation Record

Type

From (ft)

To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

Oil Based Mud

1970.00

16872.00

8.500

14902.00

0.79

224.57

89.91

180.19

Acquisition System

Software Version

Other

Cadence

RT 6.1

Plot Studio

Rig:

Contractor:

District:

H&P 517

Helmerich & Payne Drilling Co

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	1970.00	16859.00	1970.00	16872.00	2021-09-03 05:30	2021-09-05 11:07	49.04

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite

Jeremiah Samson	2021-09-01	2021-09-06	Michael Gurnsey	2021-09-01	2021-09-06	Tien Bui	2021-09-01	2021-09-06
Carl Riehn	2021-09-02	2021-09-06	Sherman Pugh	2021-09-02	2021-09-06			

Witness

Name	Run
David Nielsen	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+ (%)
2021-09-01 15:43	1	1970.00	Oil Based Mud	9.3	10	N/A	18.0	79.5/20.5	Active Pit	25000	0.00
2021-09-04 12:41	1	10901.00	Oil Based Mud	10.5	13	N/A	17.3	79.1/20.9	Active Pit	25267	0.00
2021-09-05 07:08	1	15949.00	Oil Based Mud	10.1	16	N/A	15.0	80.2/19.8	Active Pit	23500	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	14306237	Near Bit Inclination	5.93	6.78	7.000	4.330
1	AutoTrak Curve Steering Unit	14306237	Near Bit VSS	5.93	6.78	7.000	4.330
1	AutoTrak Curve MWD	14371880	Gamma (single)	2.83	12.95	7.000	3.250
1	AutoTrak Curve MWD	14371880	Directional (mag)	12.27	22.39	7.000	3.250

Service and Tool Mnemonics

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

Comments

1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
2	Baker Hughes LWD Run 1 utilized 6 ¾ inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1970 to 16872 feet MD (1970 to 6860 feet TVD).
3	The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.

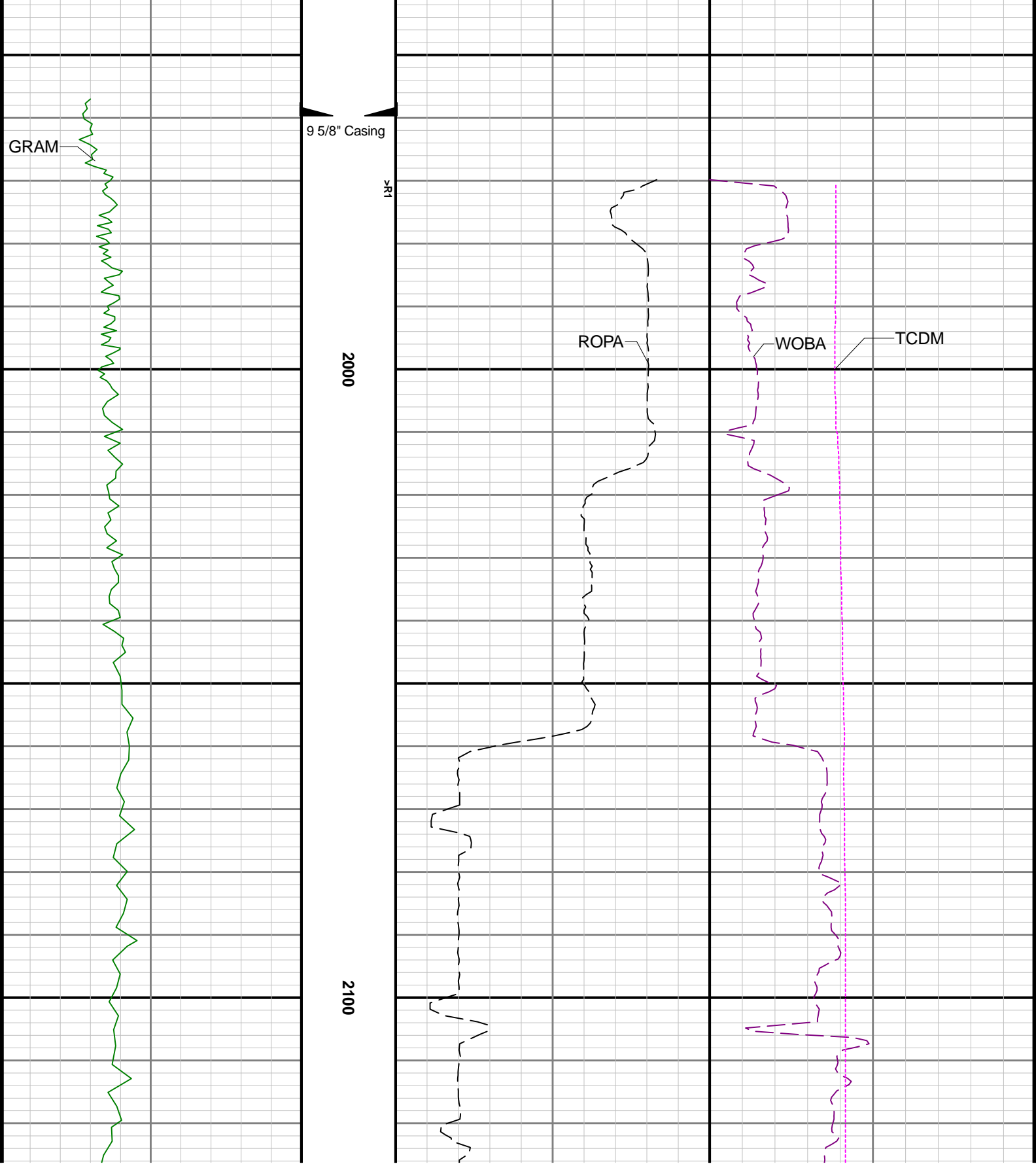
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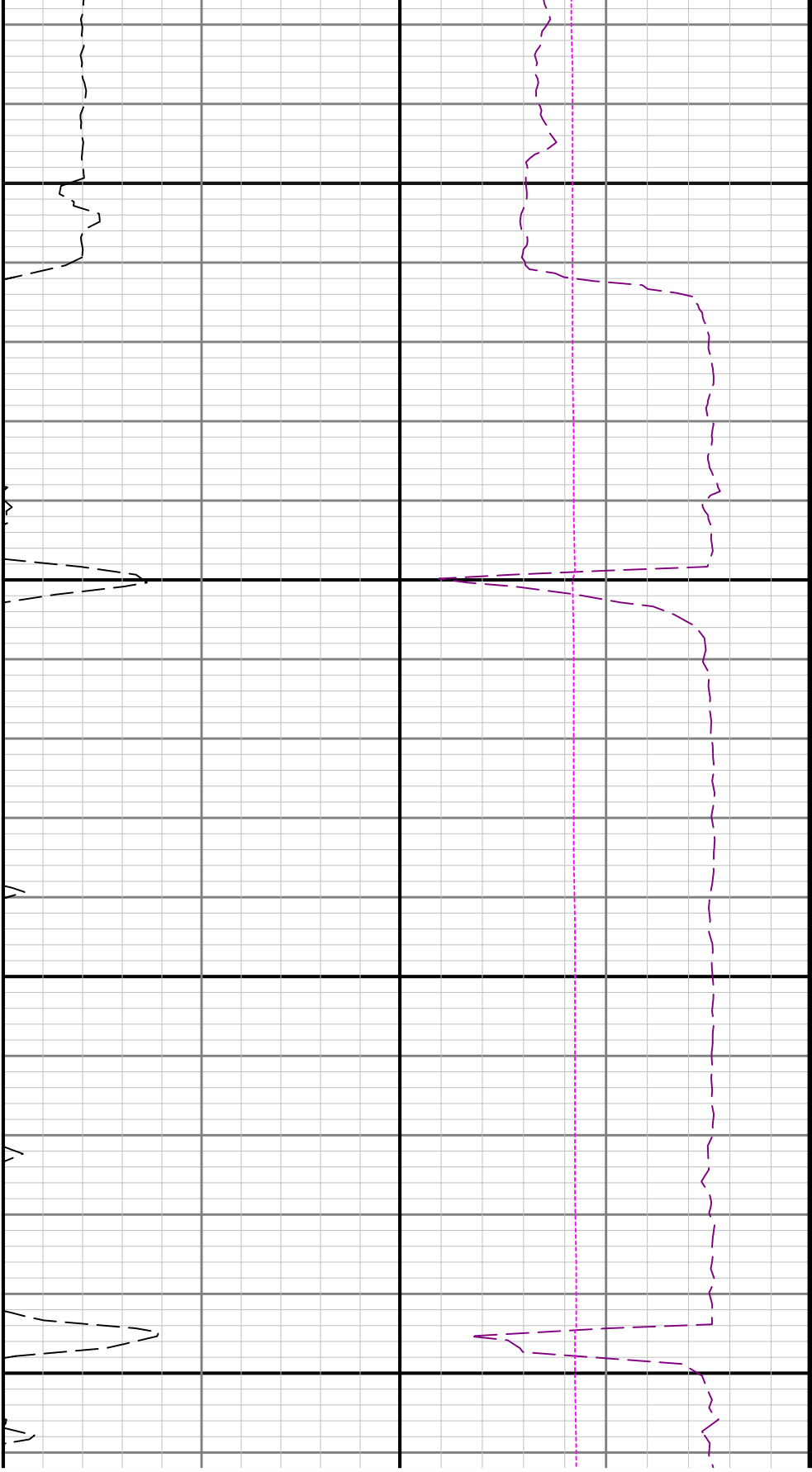
Number	Depth (ft)	Hole Section (in)	Run No.	Remark
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Curve Mnemonics

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

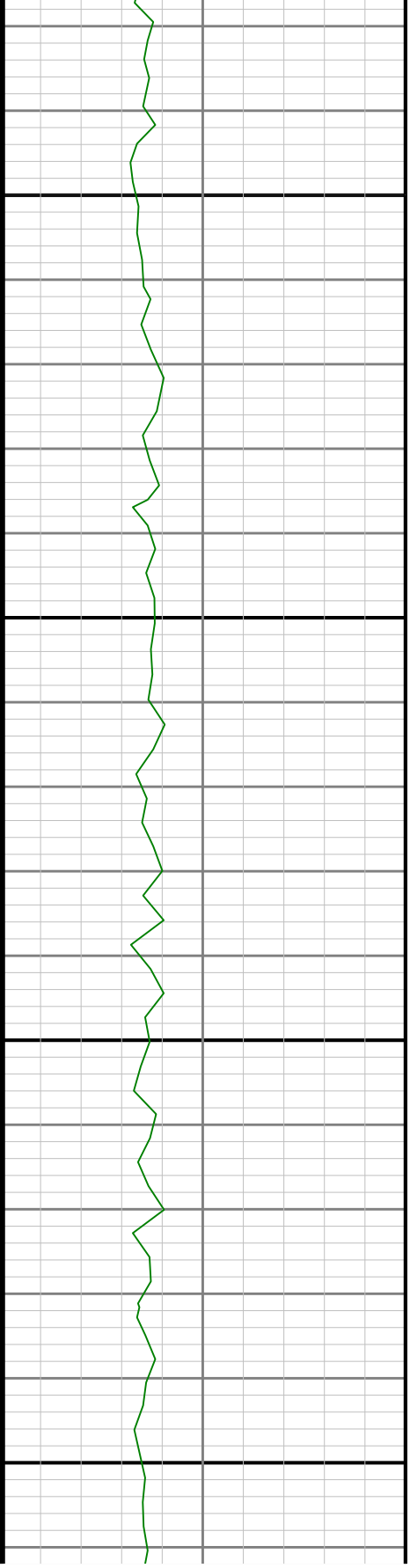
Gamma Ray - Apparent 0.5 ft Average GRAM 0300	TVD 1:240 feet	Depth Averaged ROP 3 ft Average ROPA 10000	Weight On Bit, Average 1 ft Average WOBA 050
API		ft/h	klb
			Downhole Temperature TCDM 0300
			degF

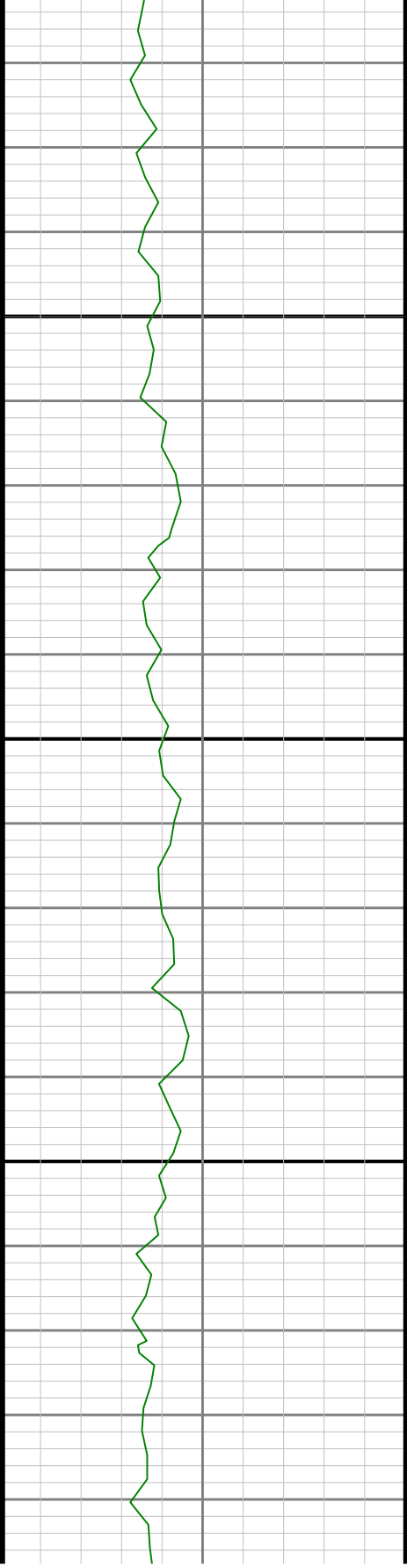




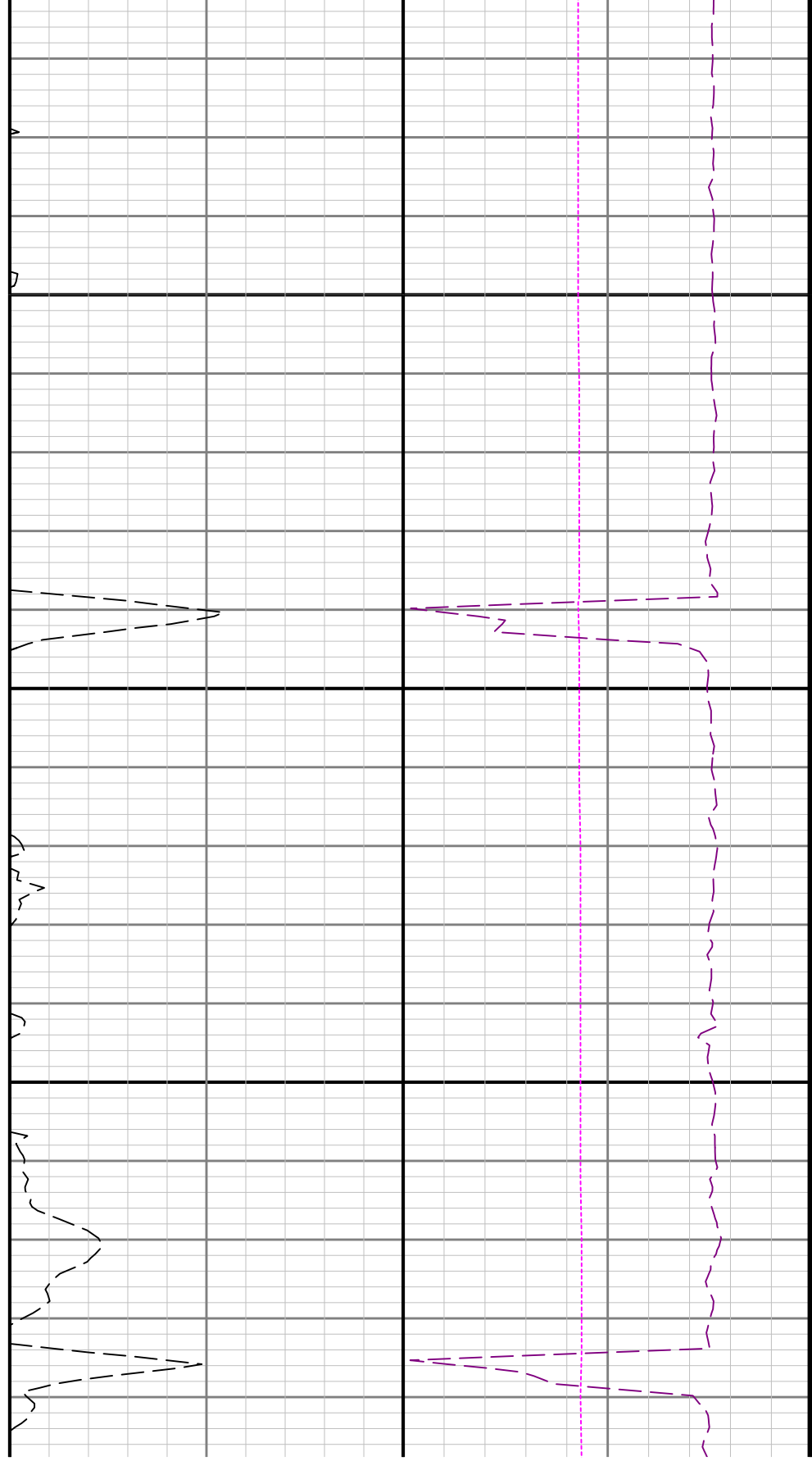
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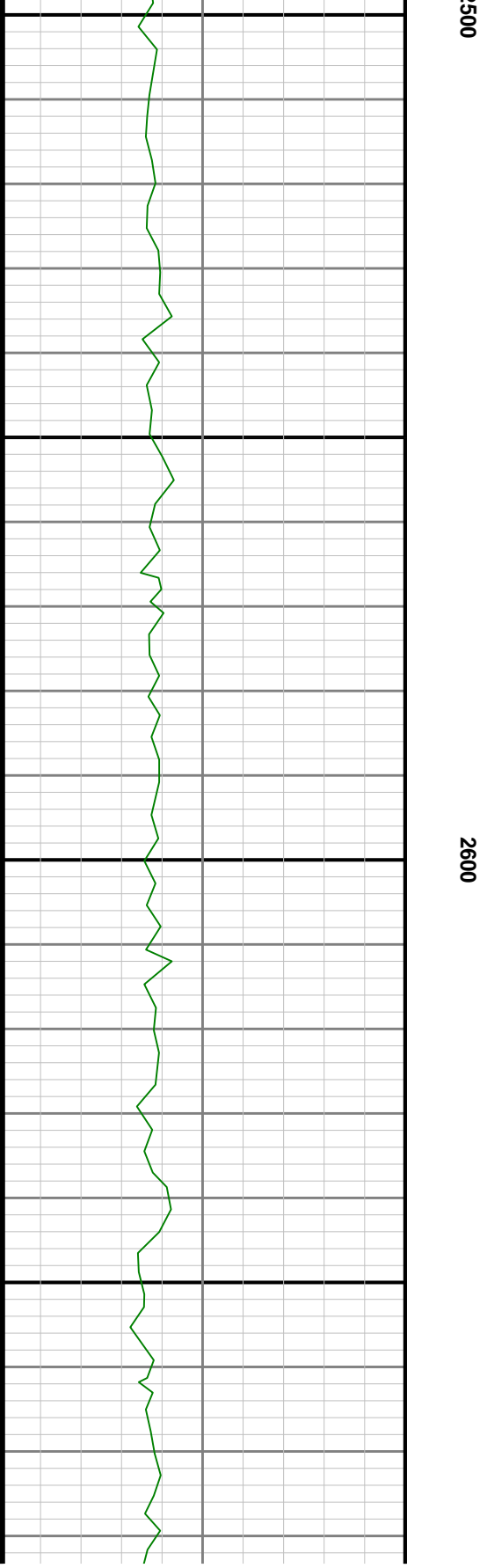
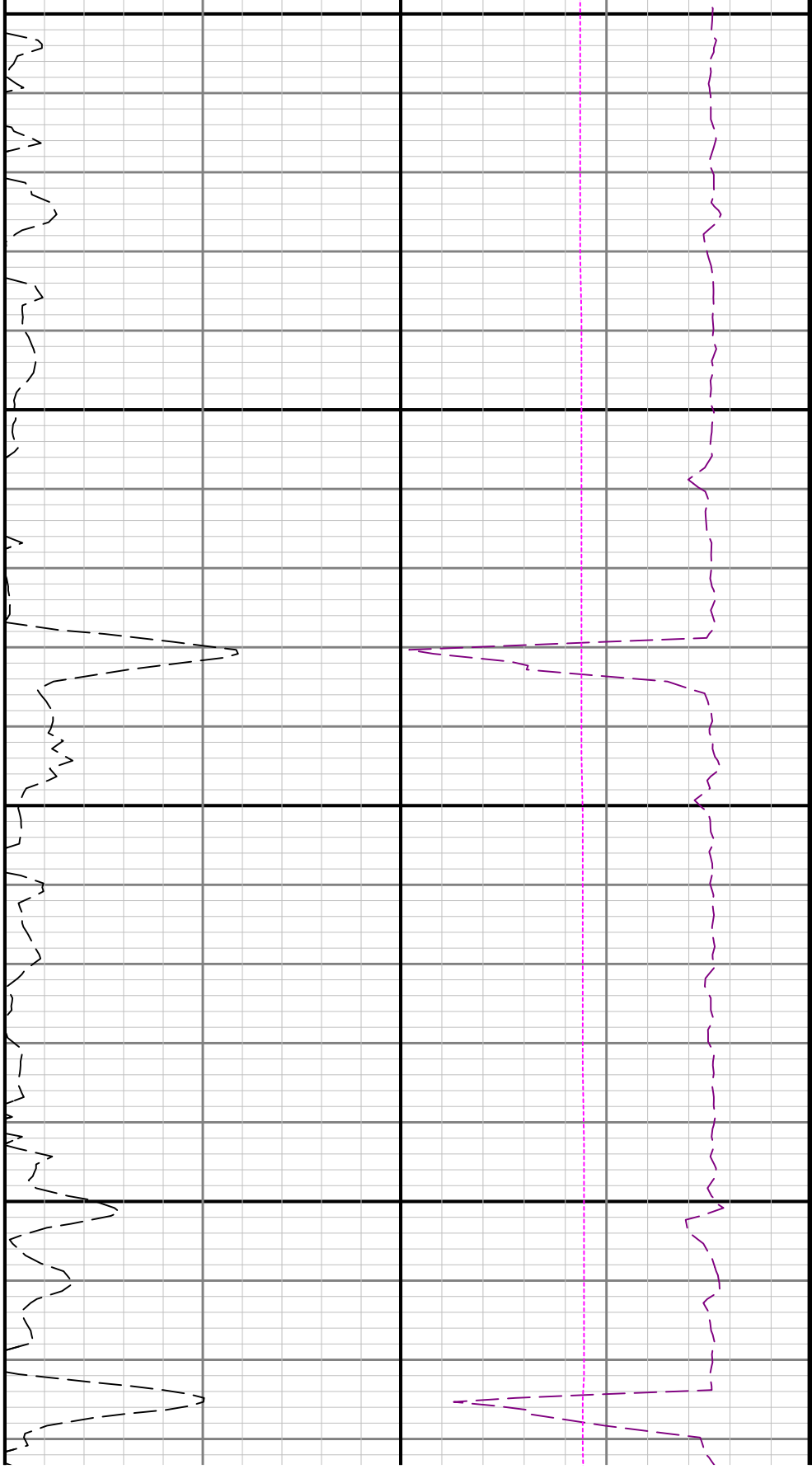
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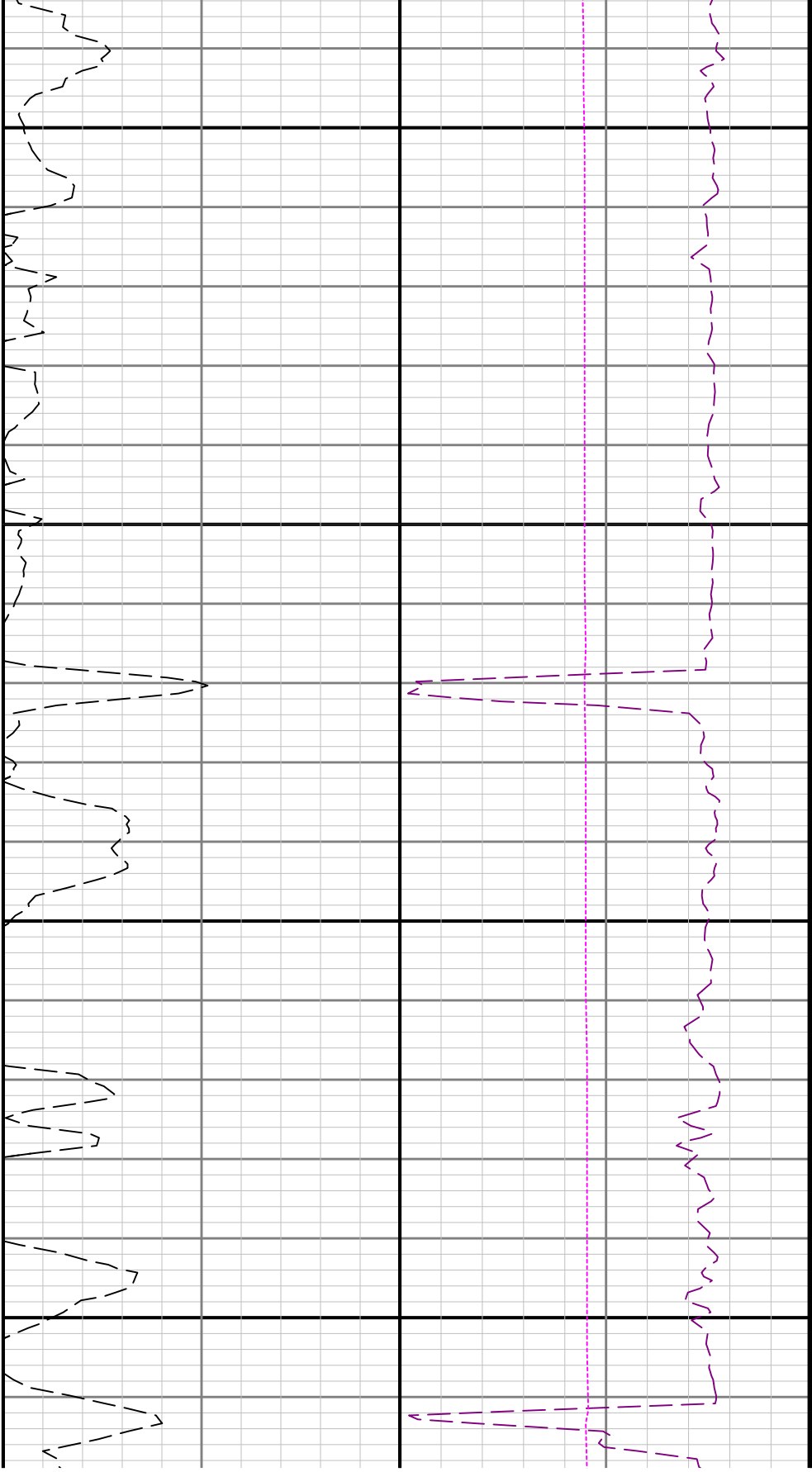




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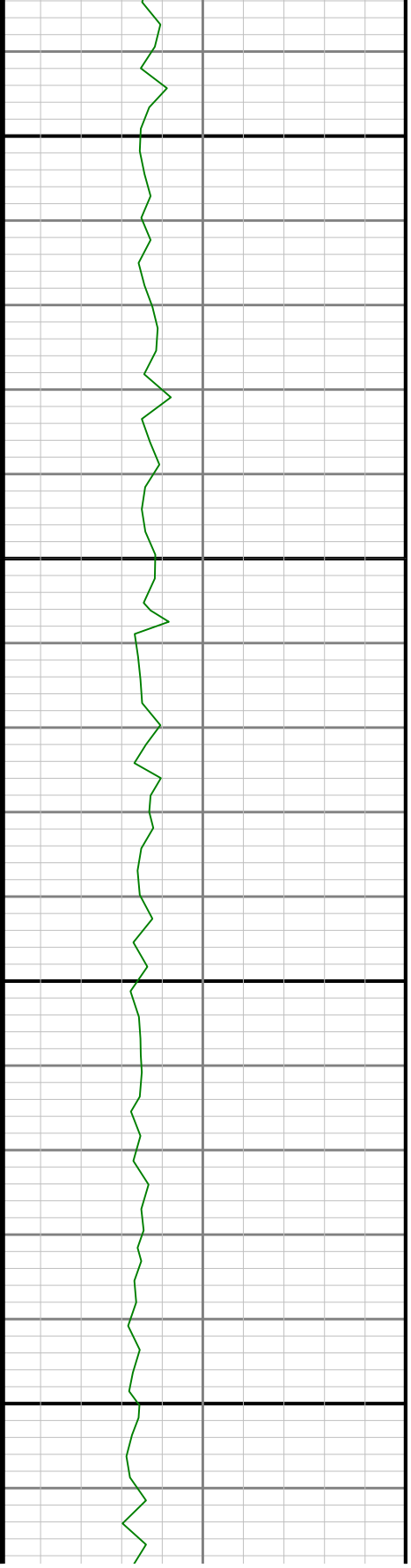


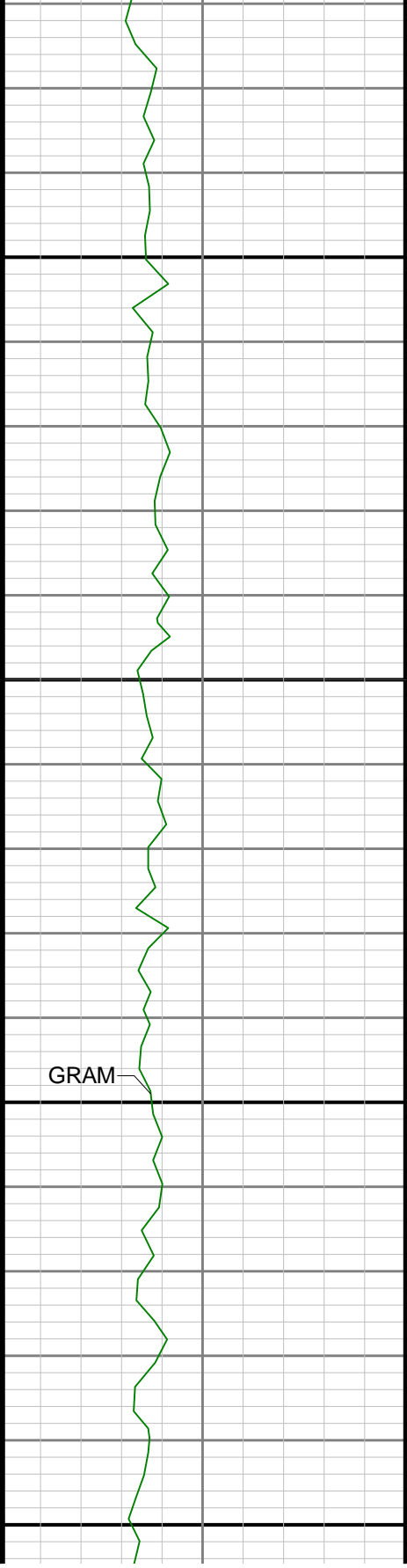




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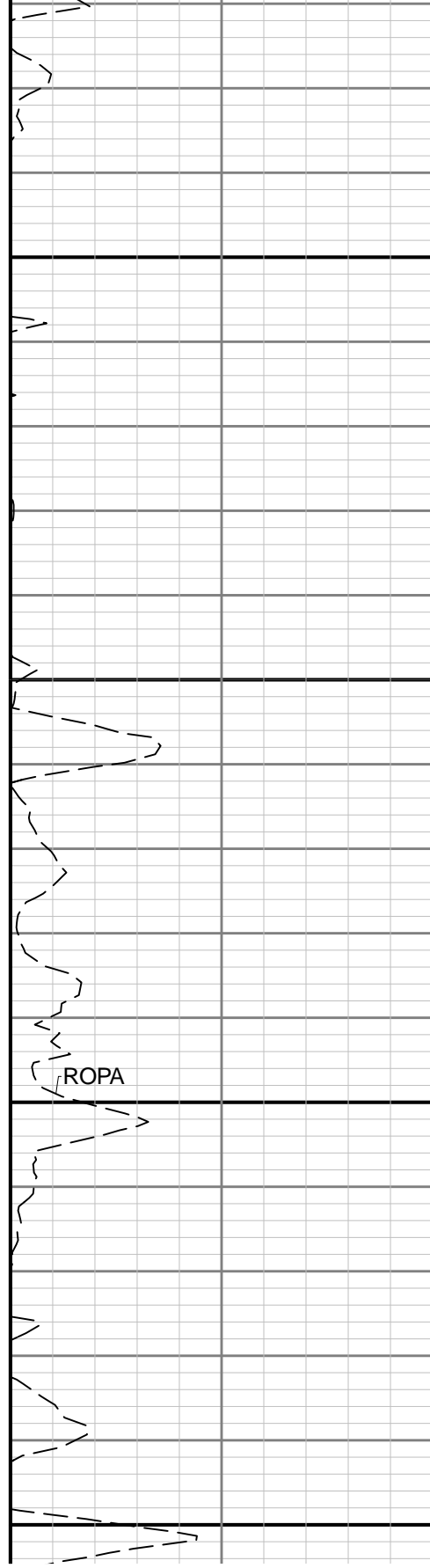
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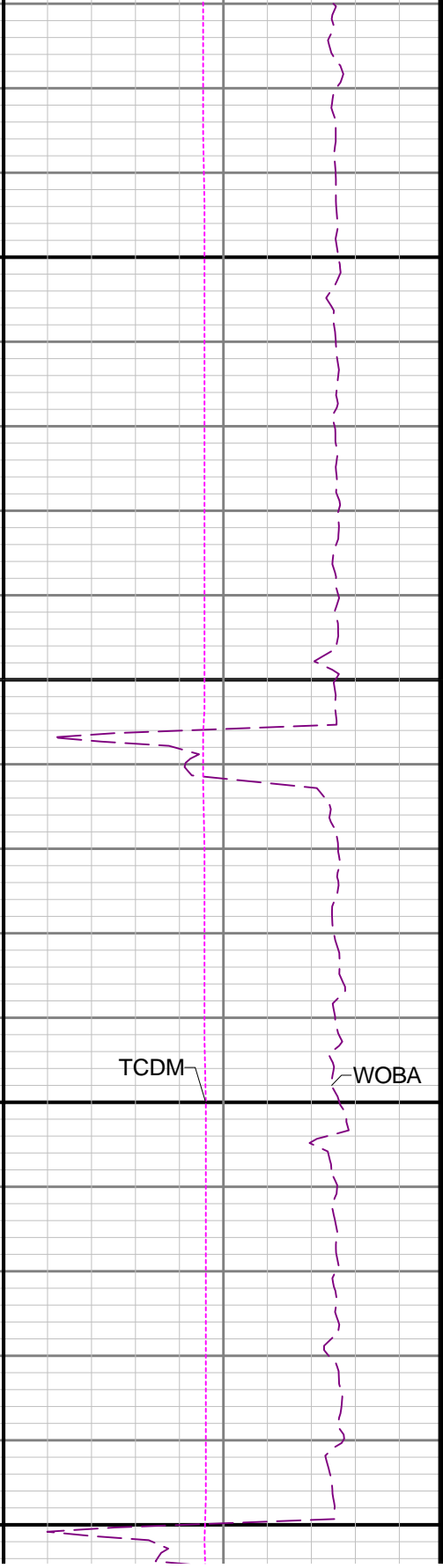


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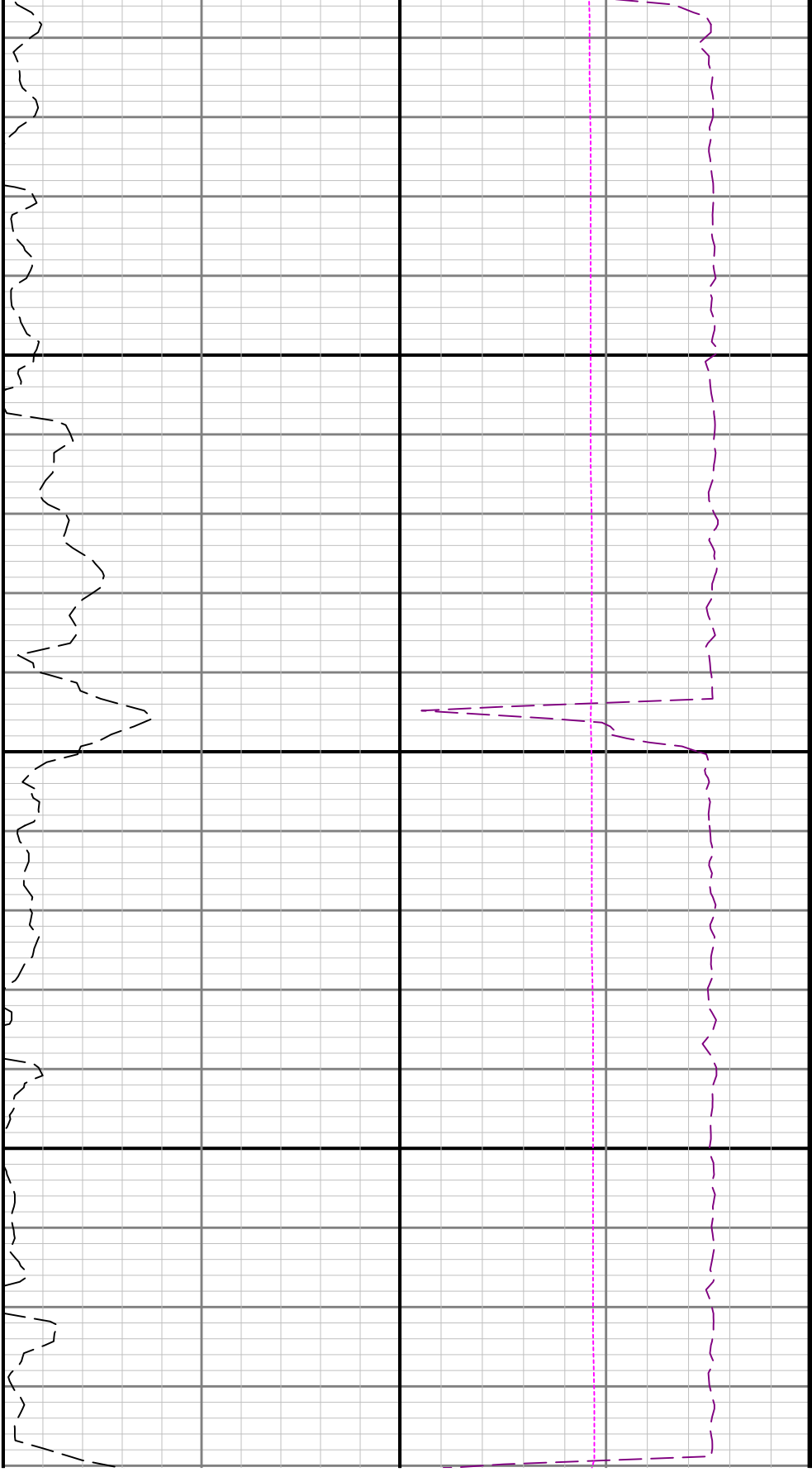


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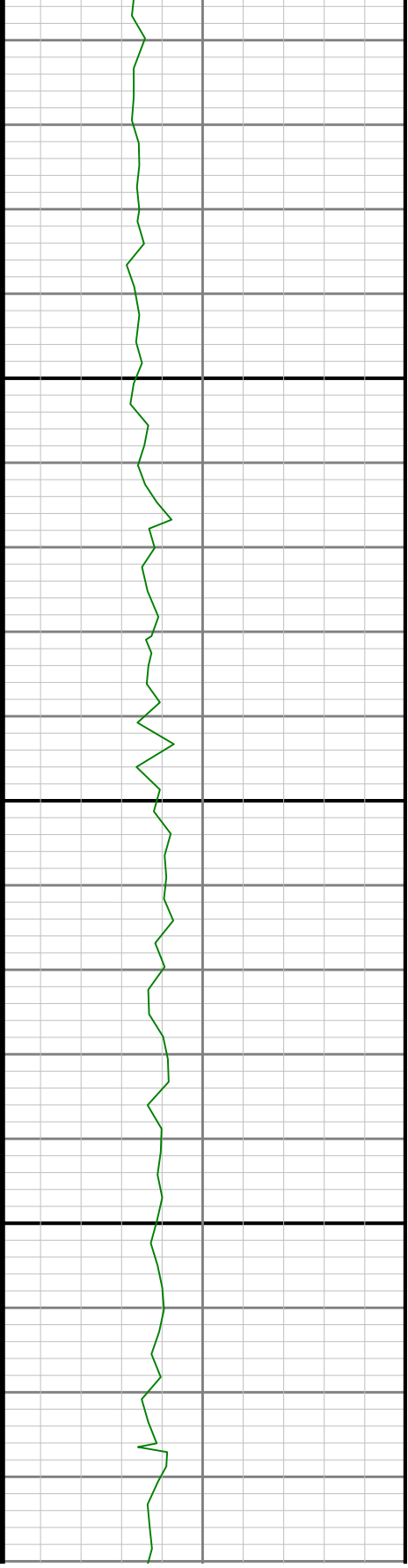
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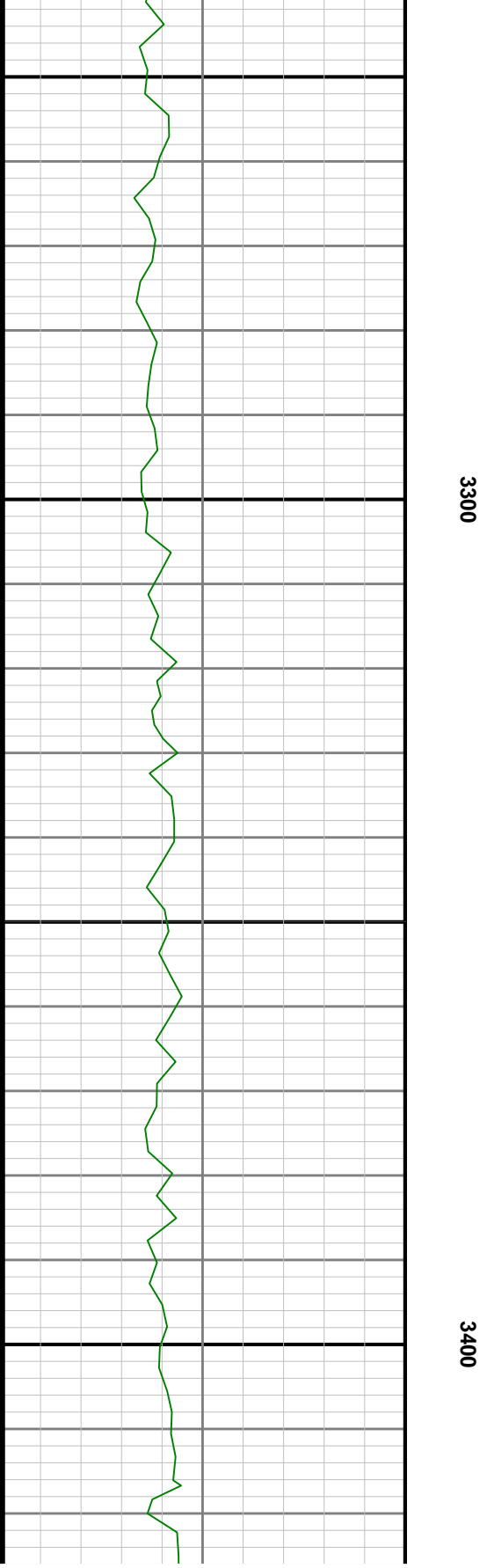
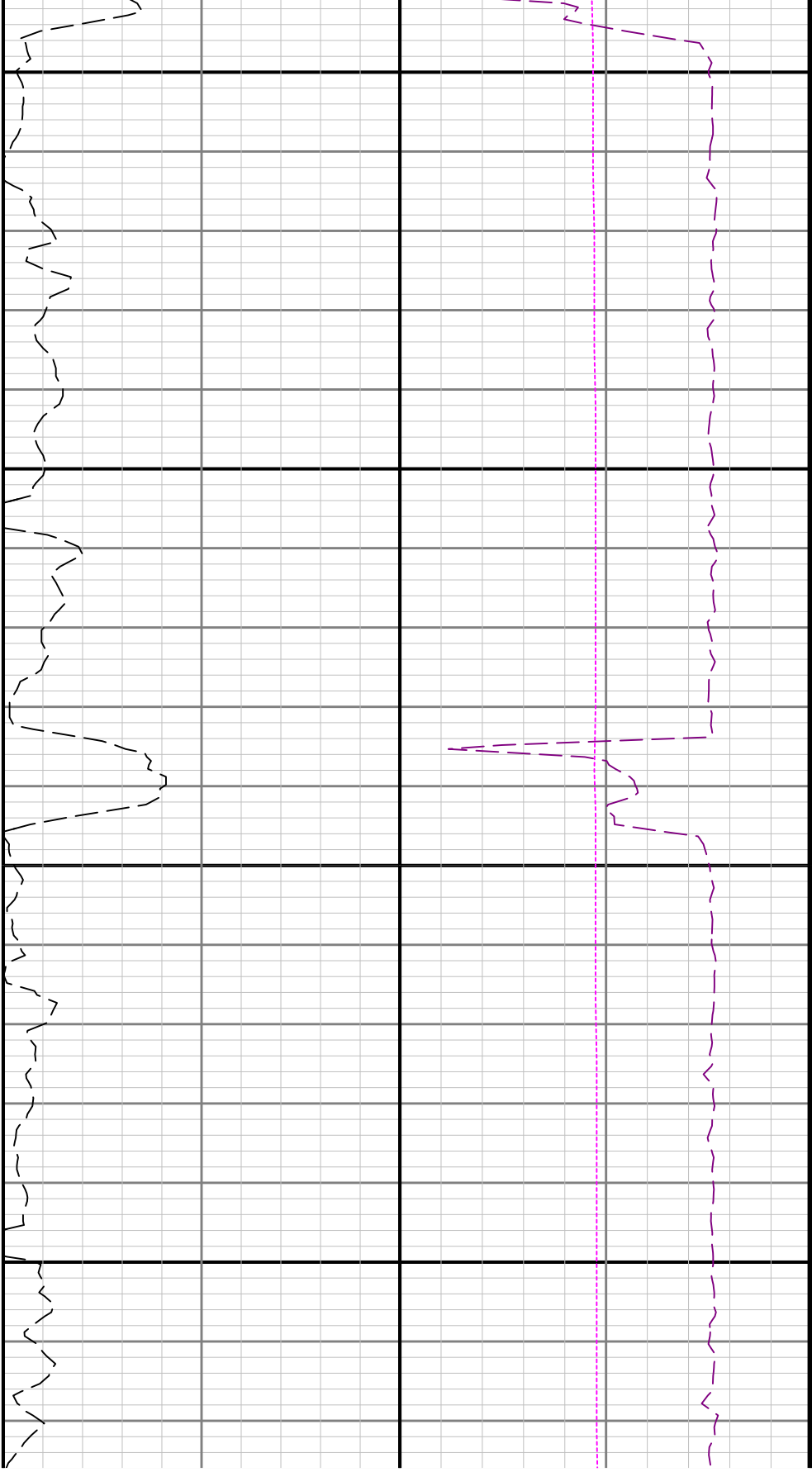
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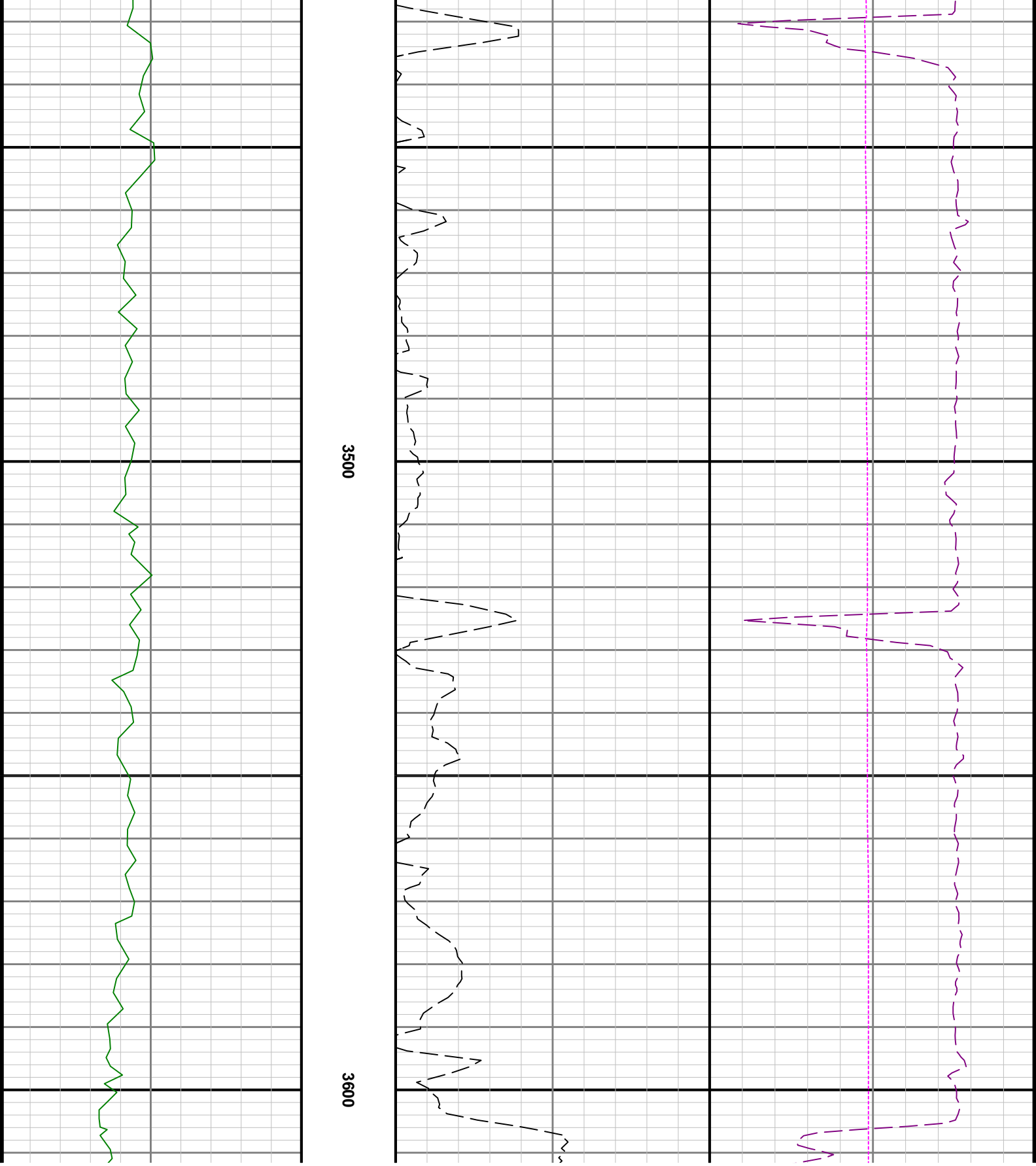


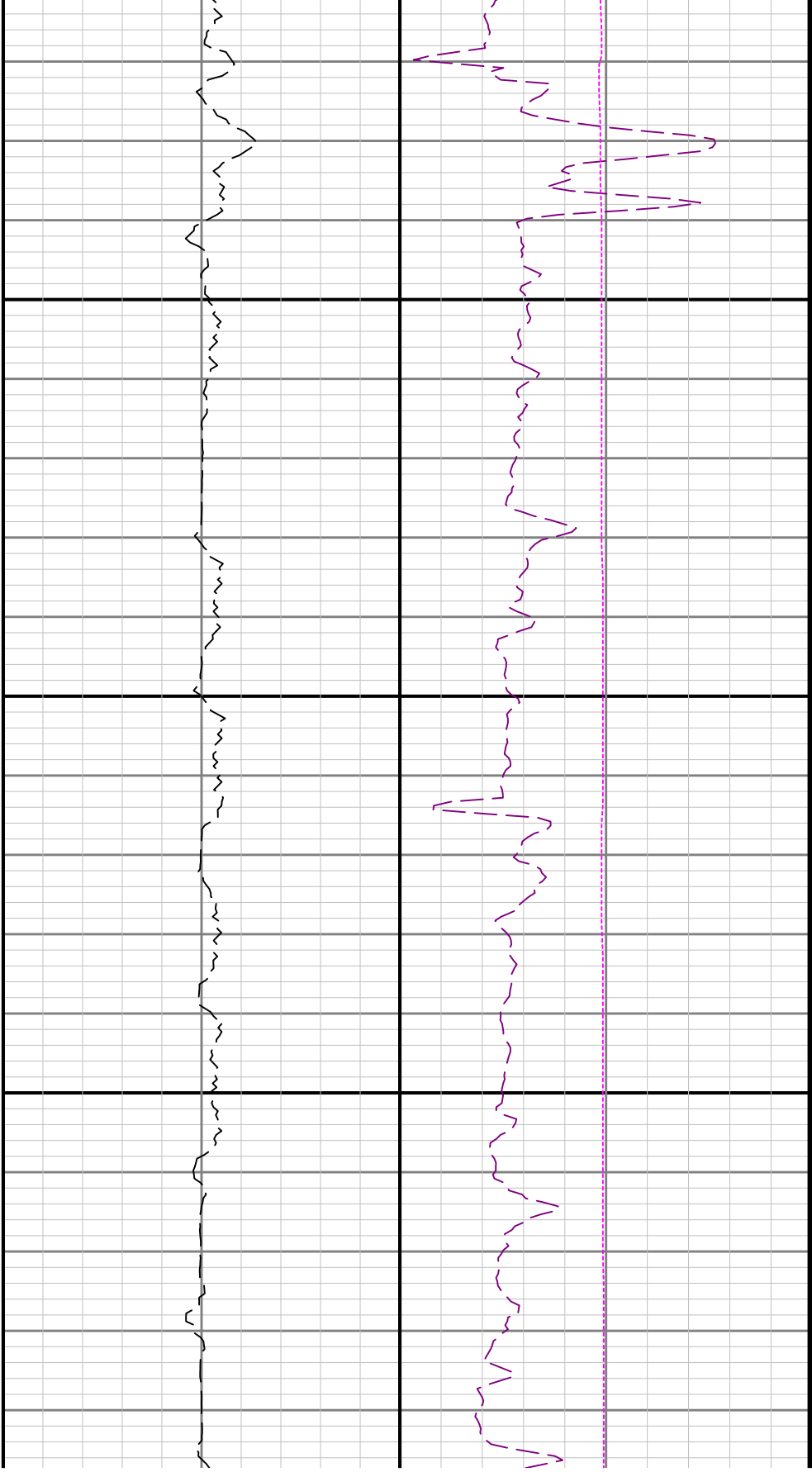
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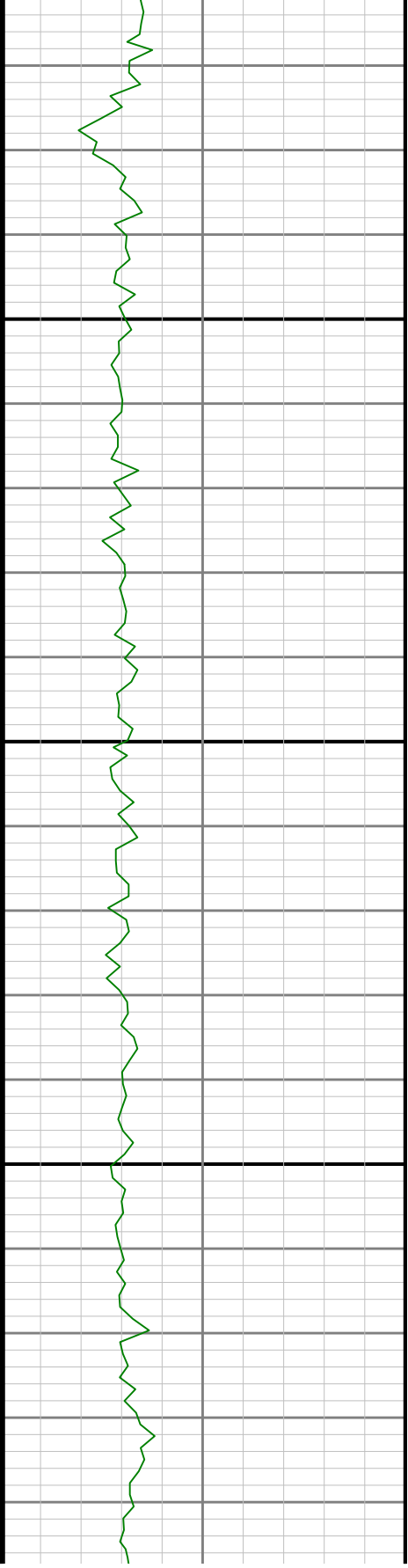


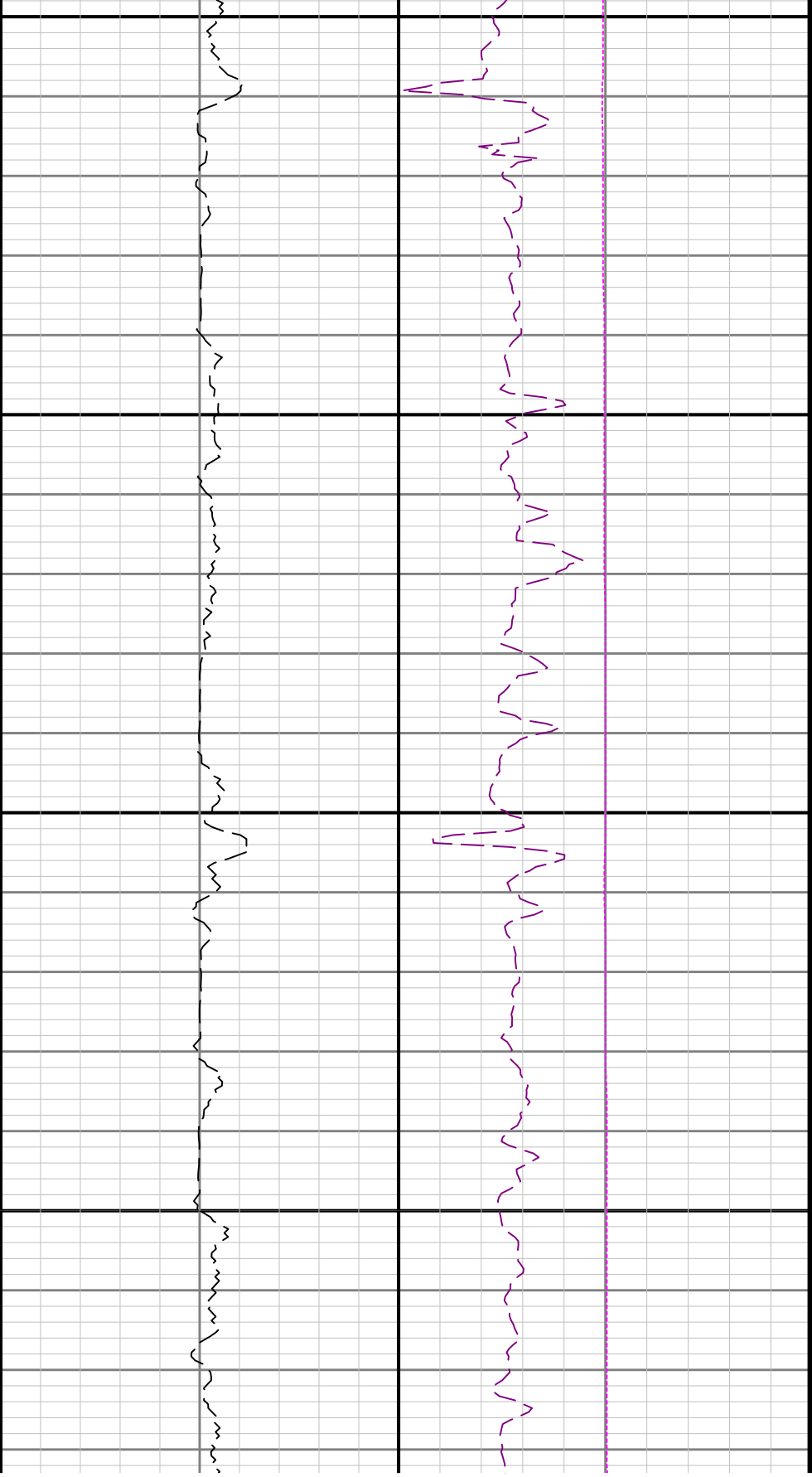






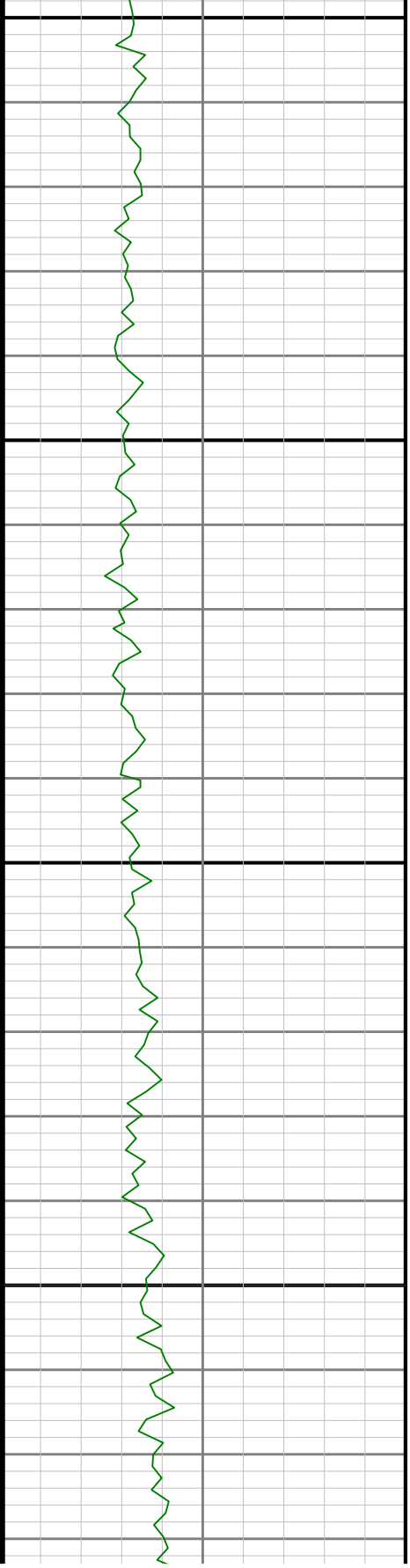
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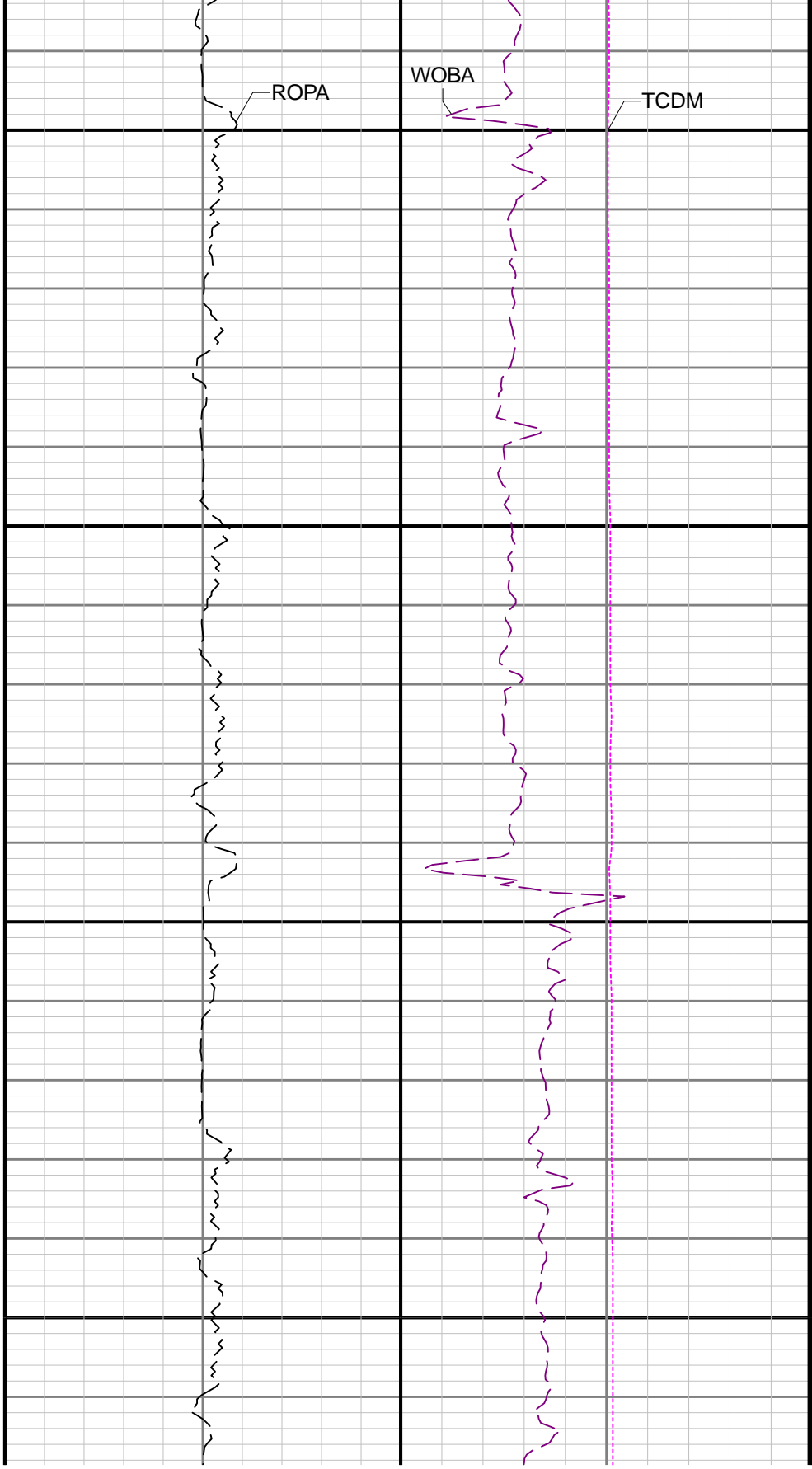
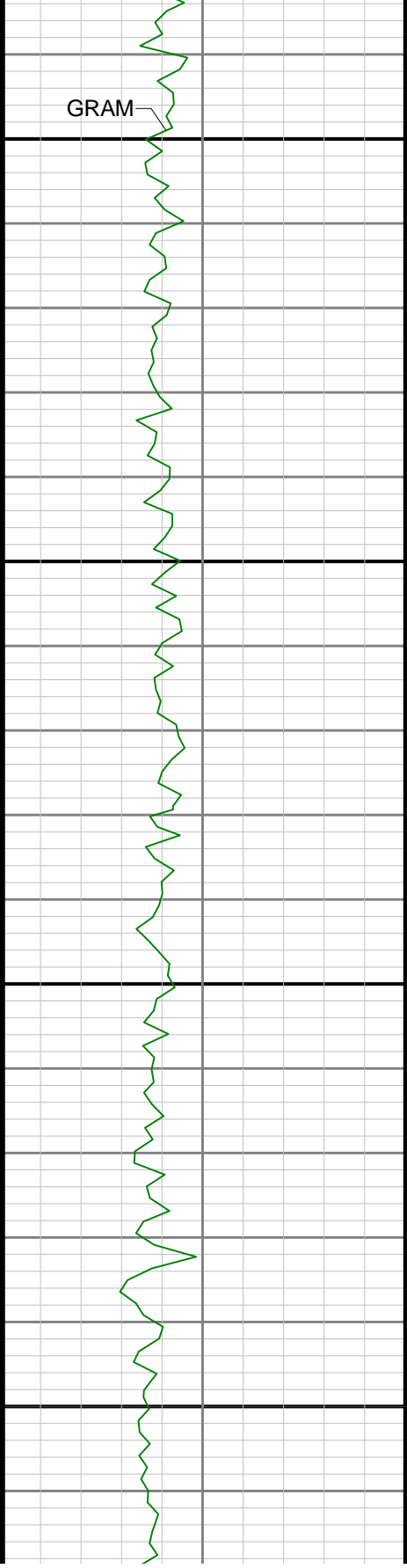


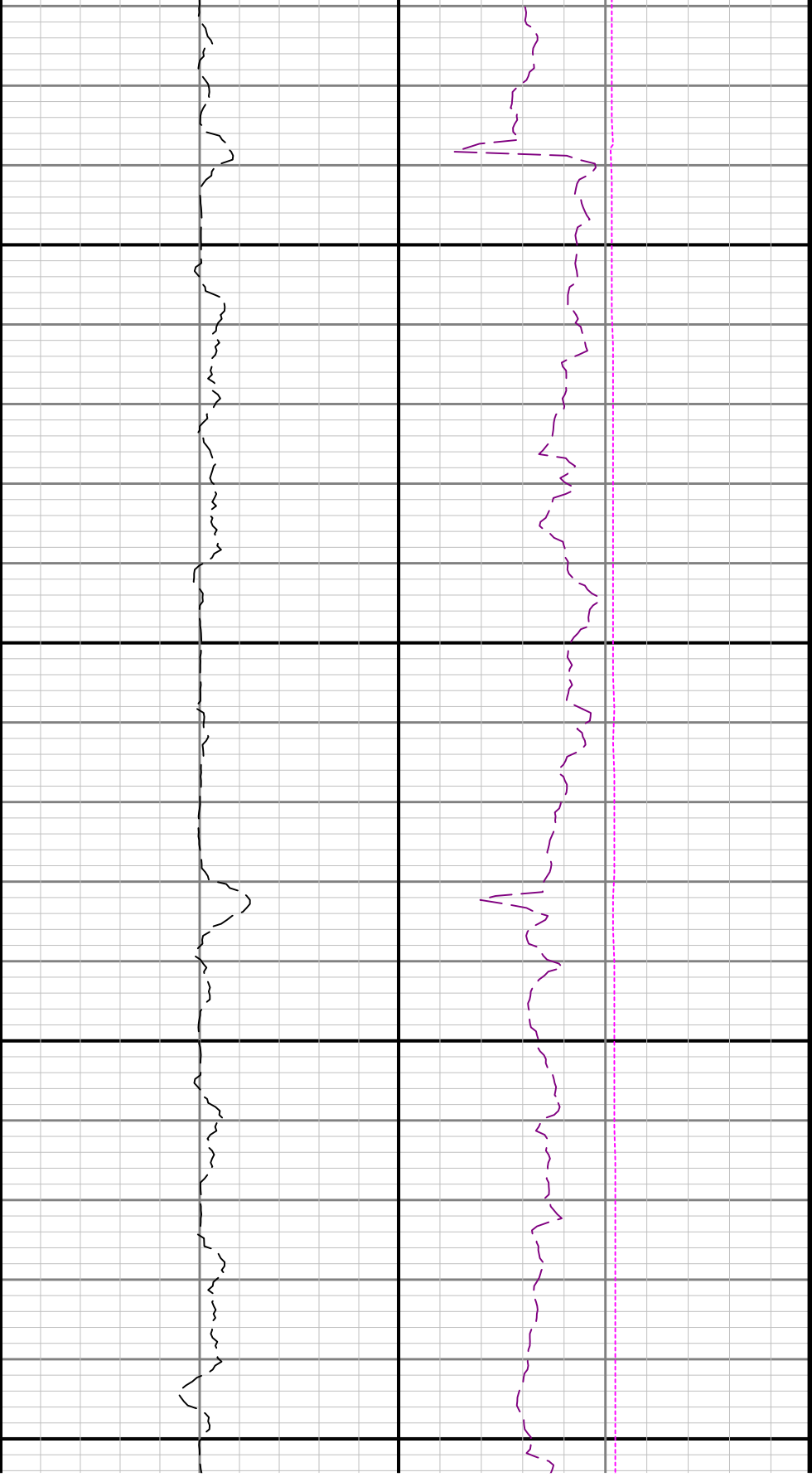


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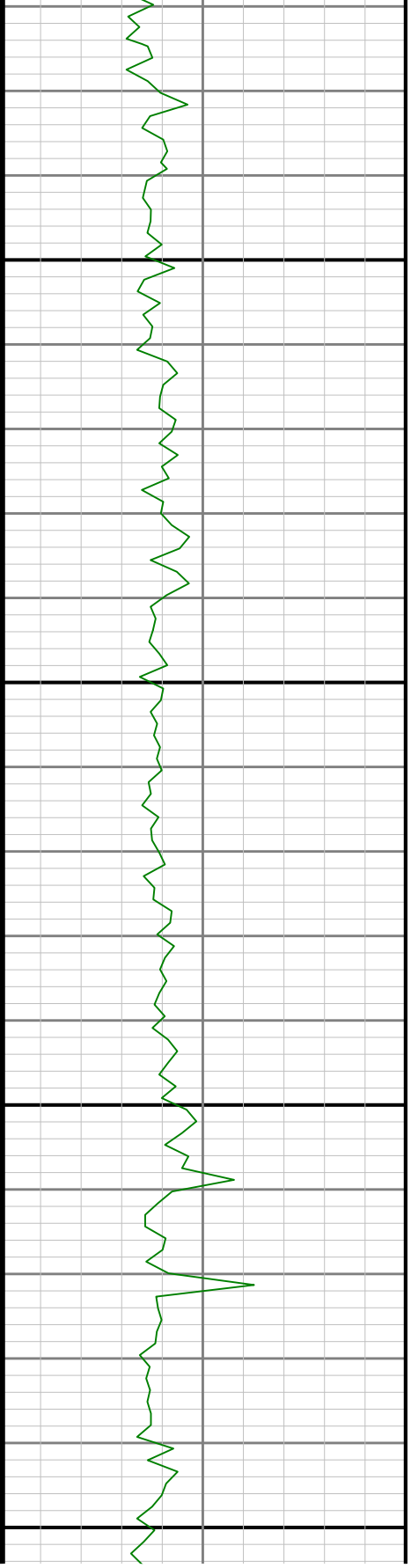


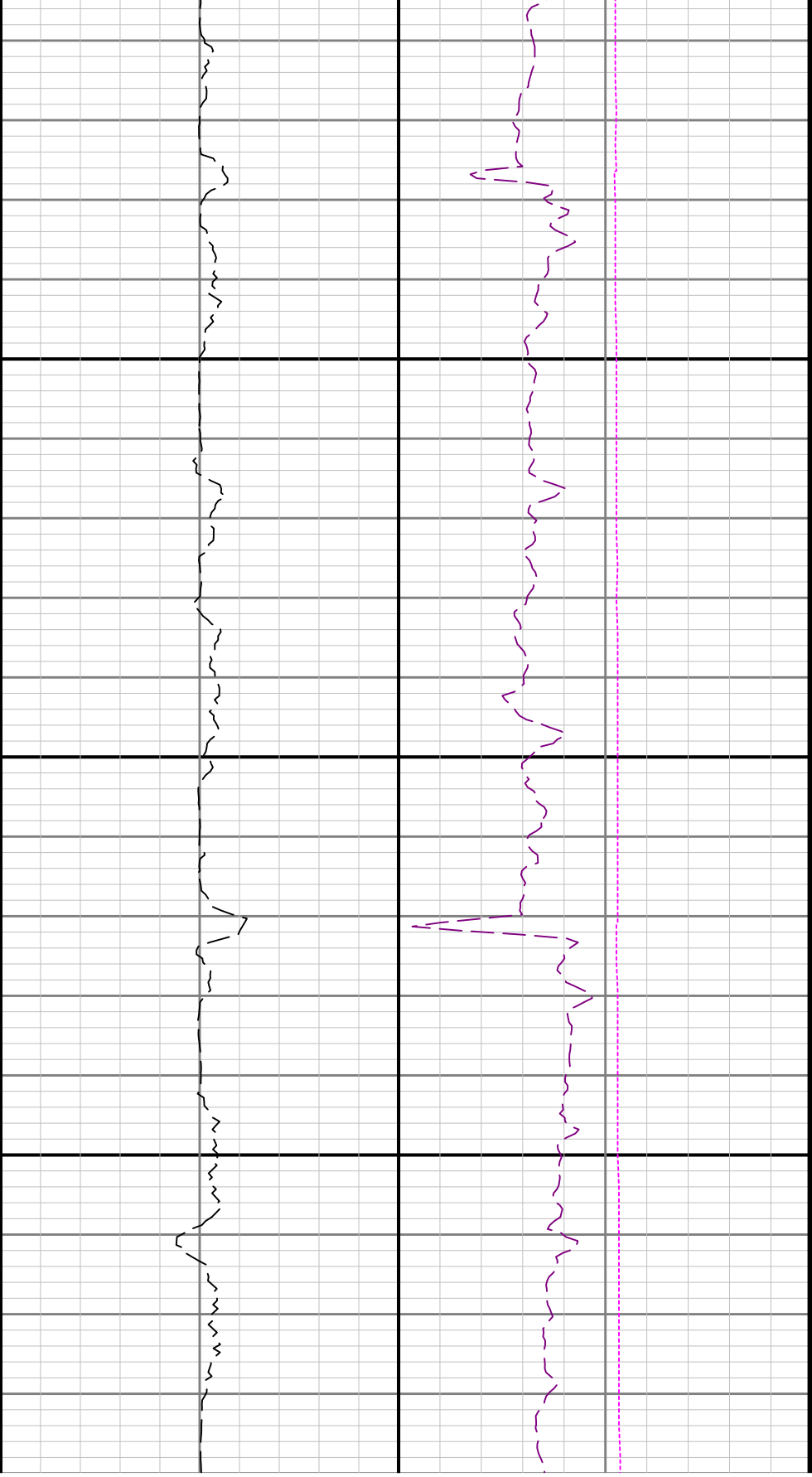




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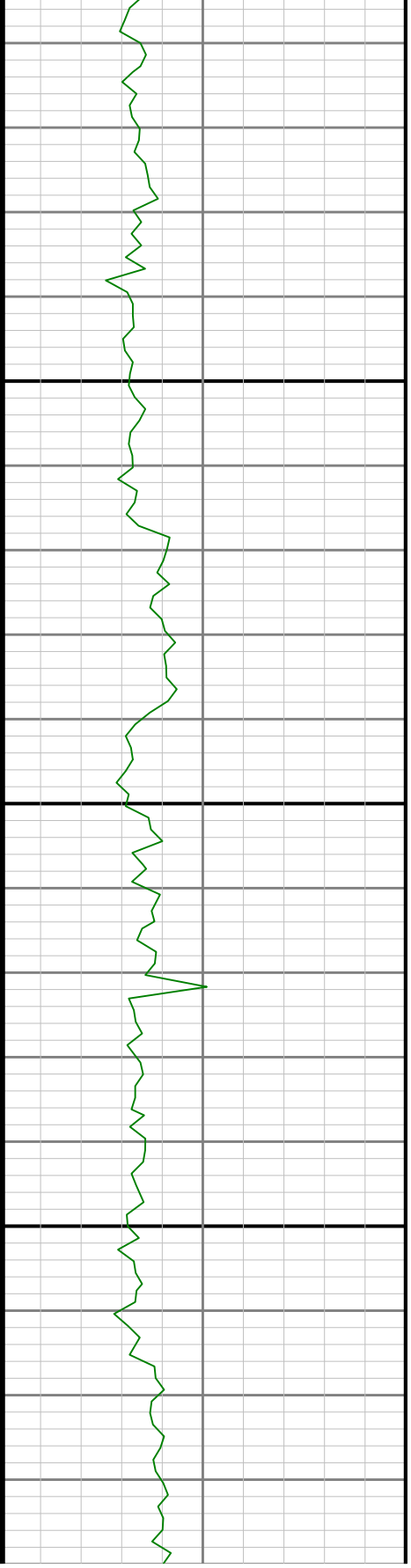
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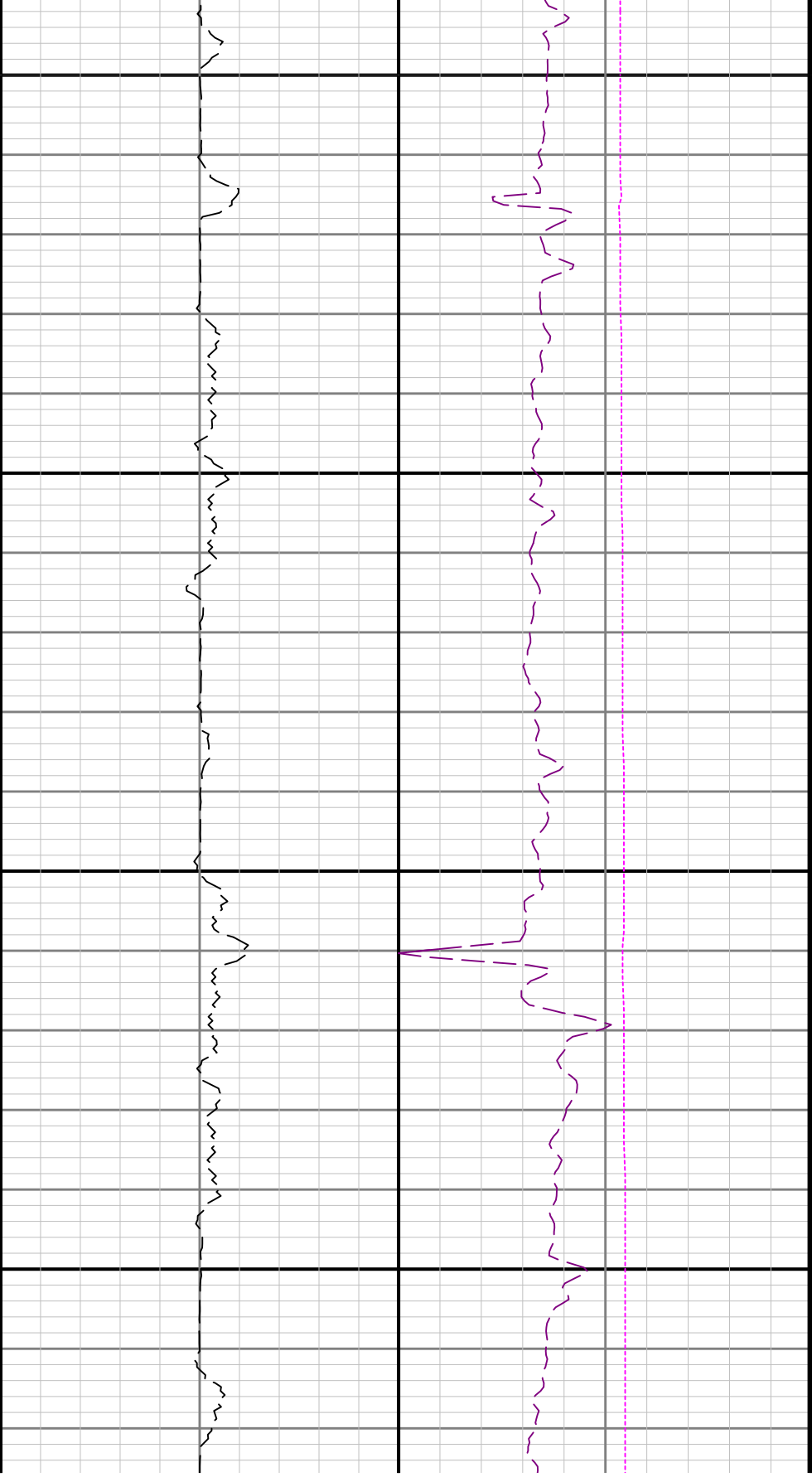




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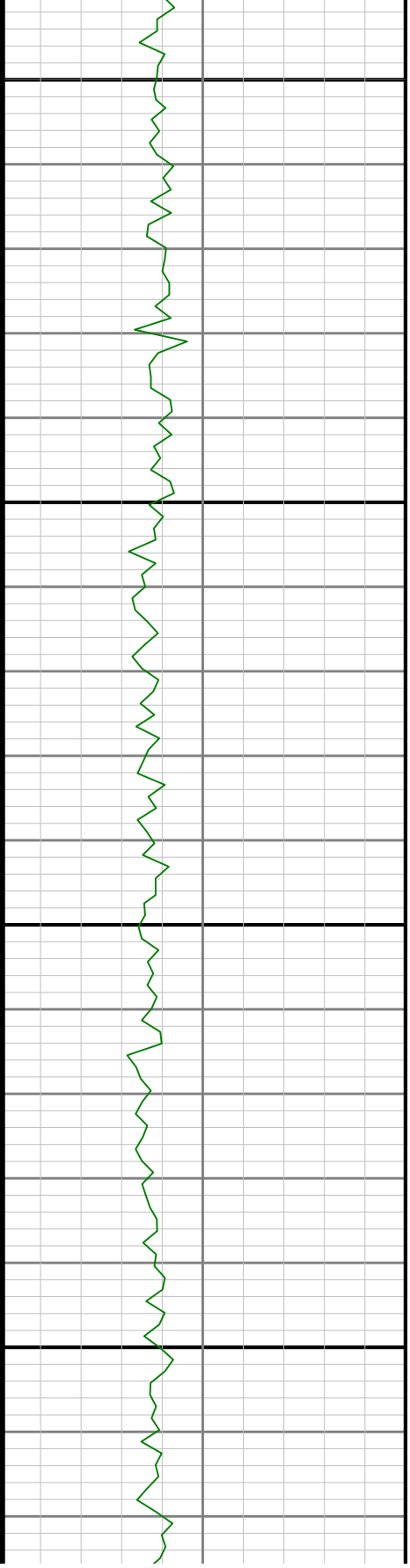
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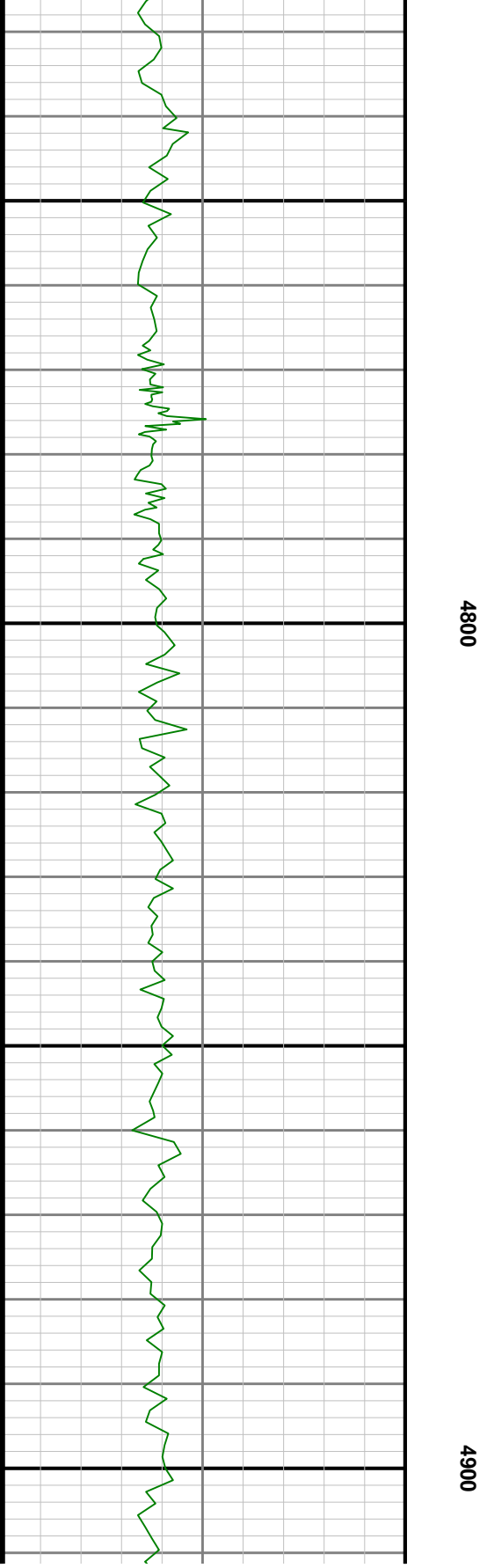
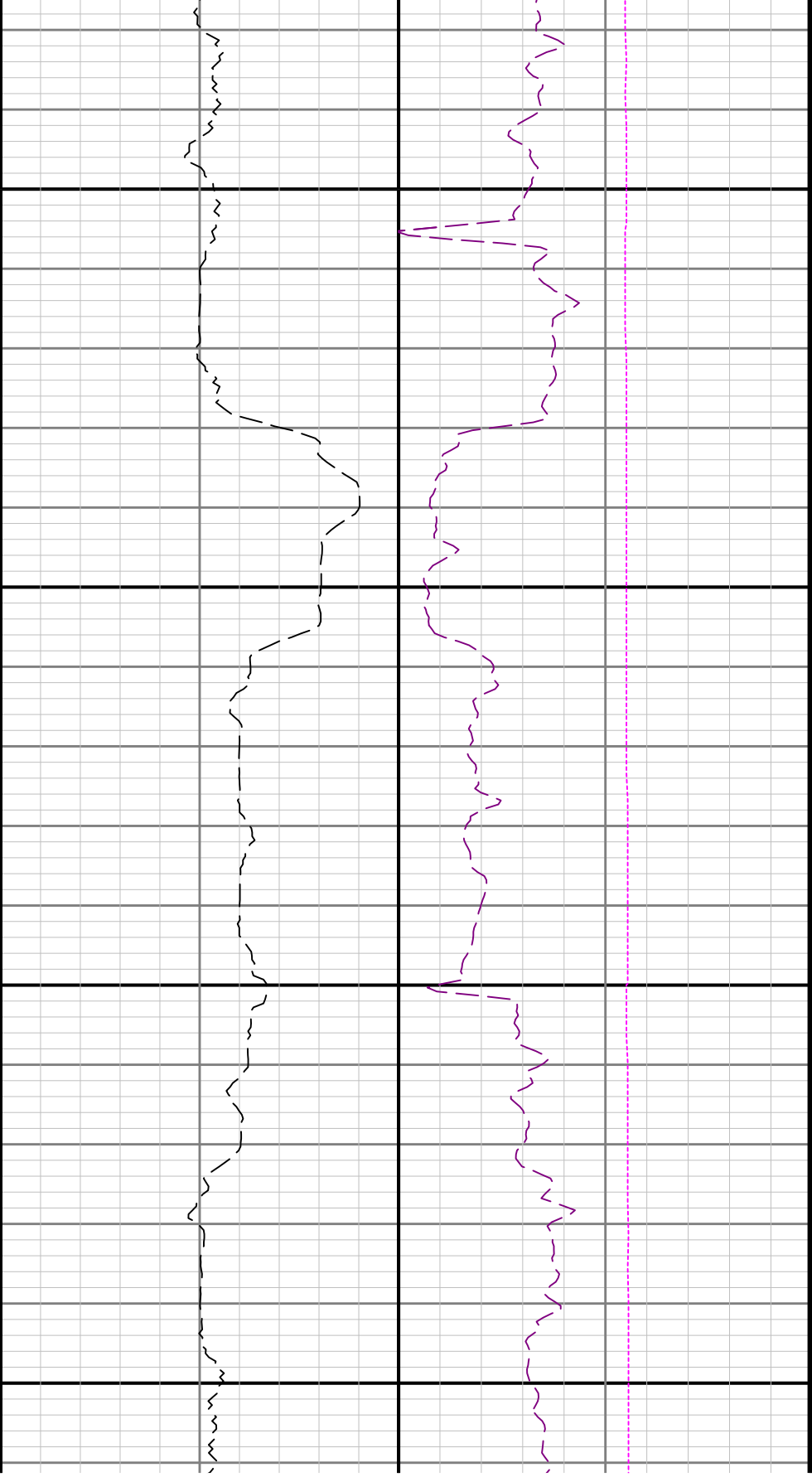


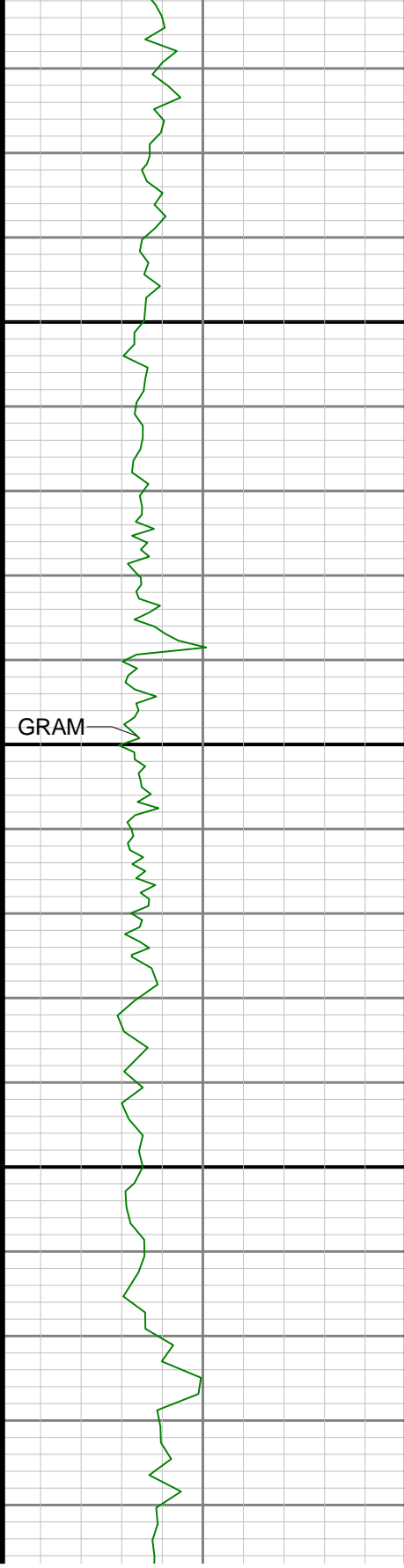


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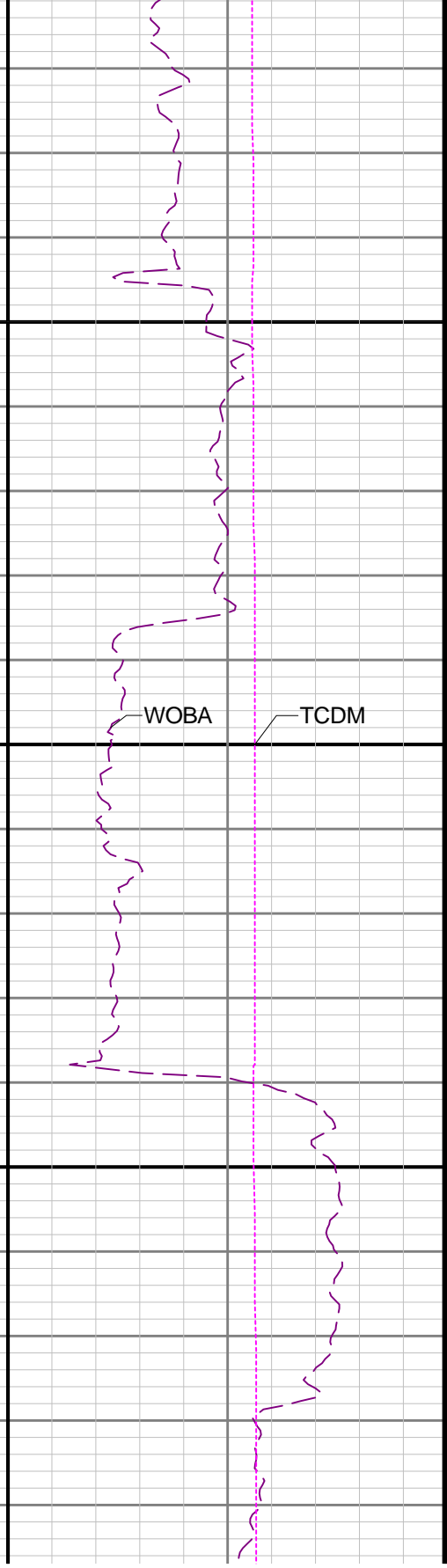
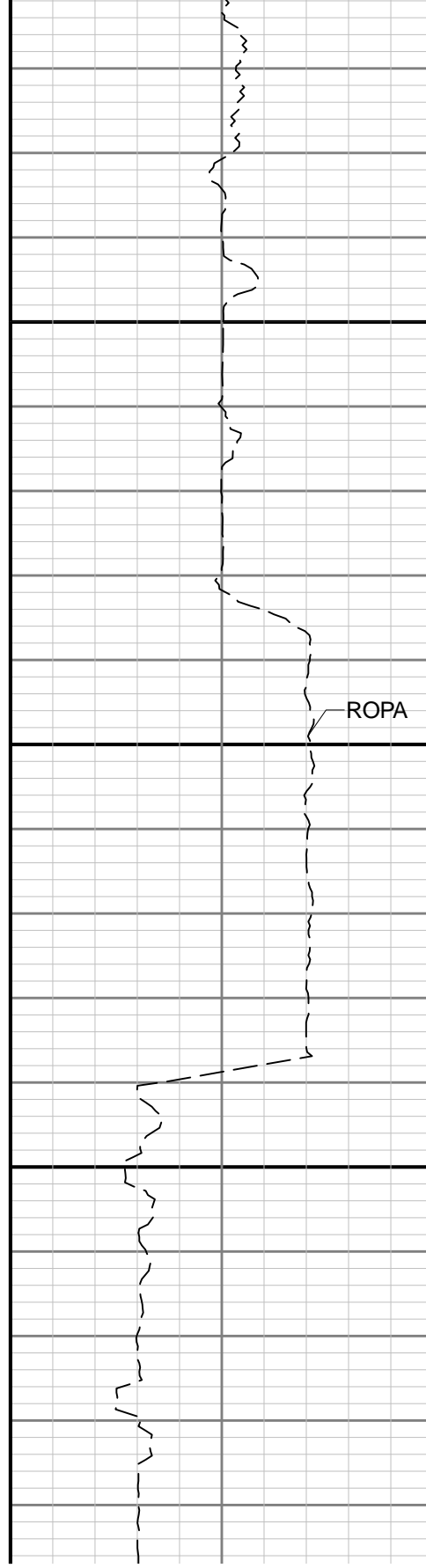
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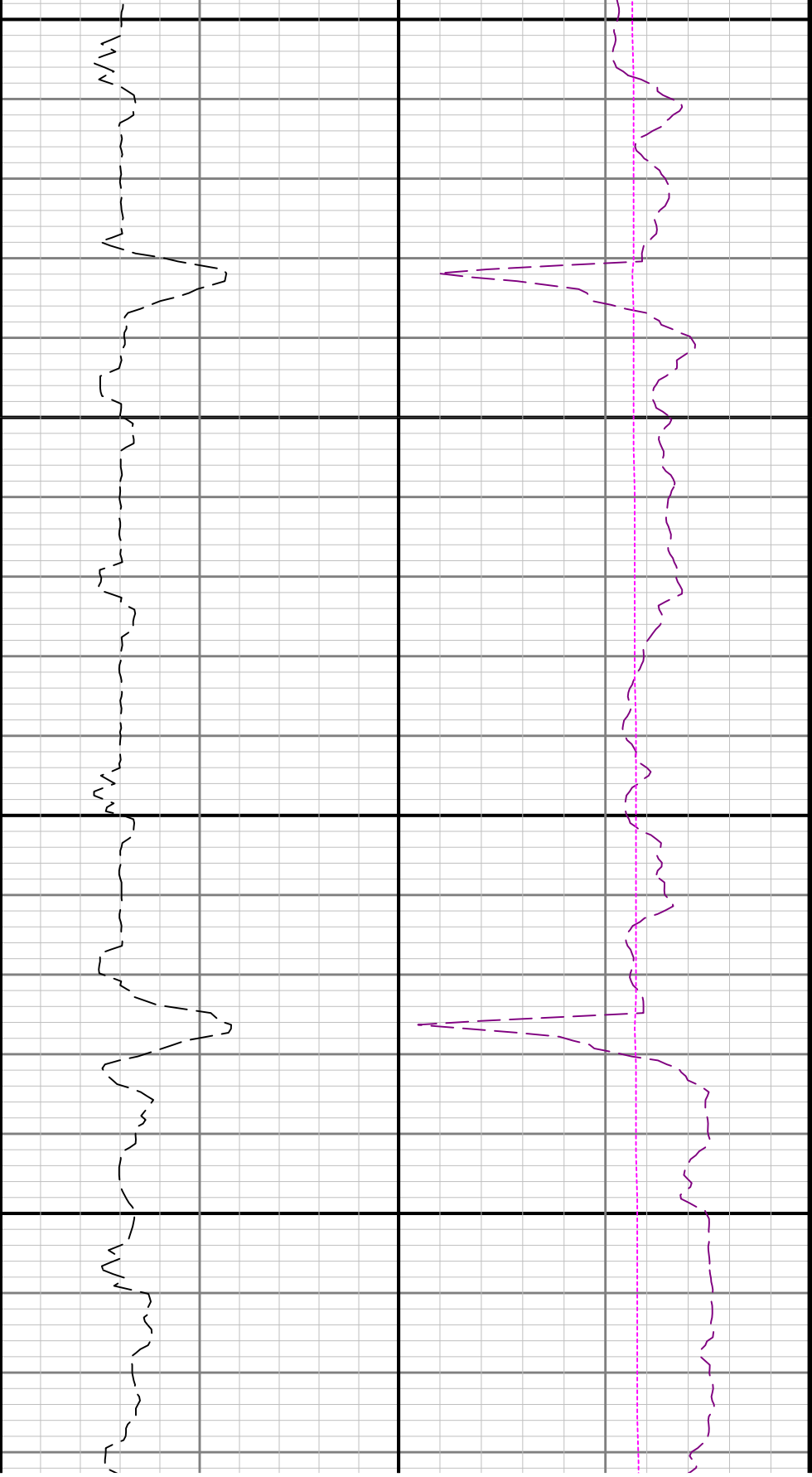






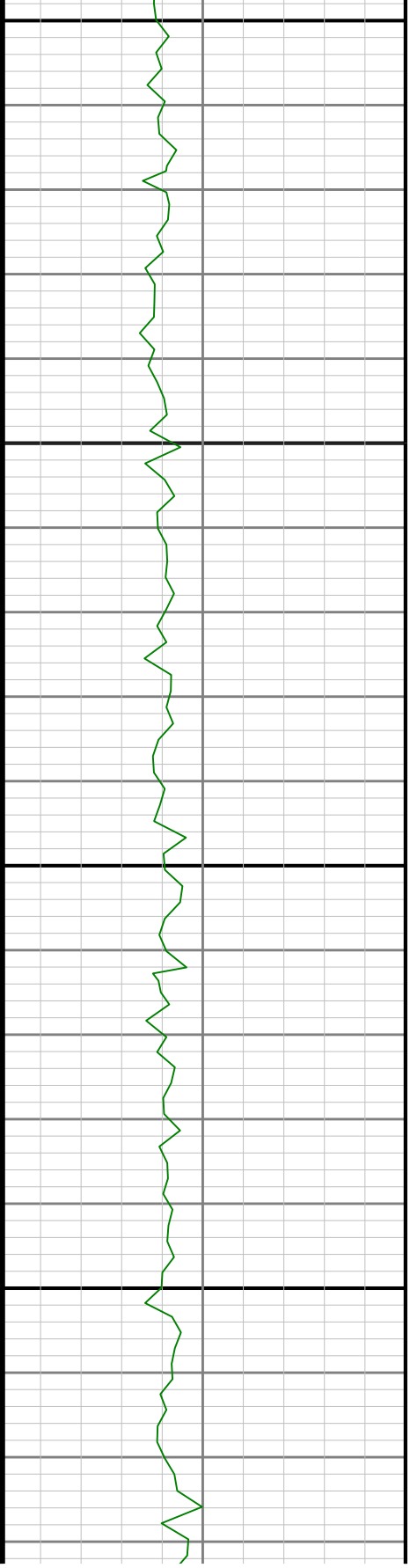
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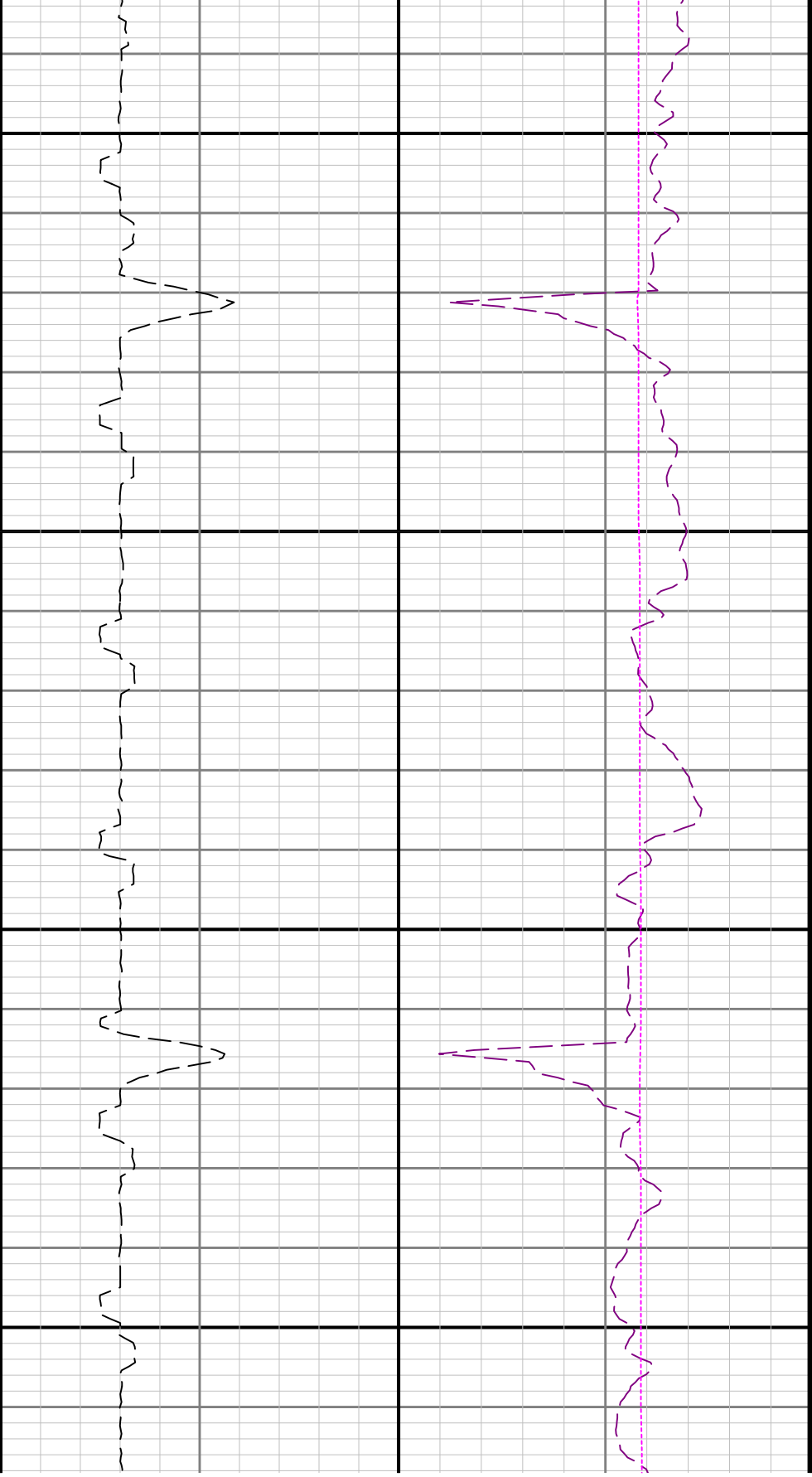




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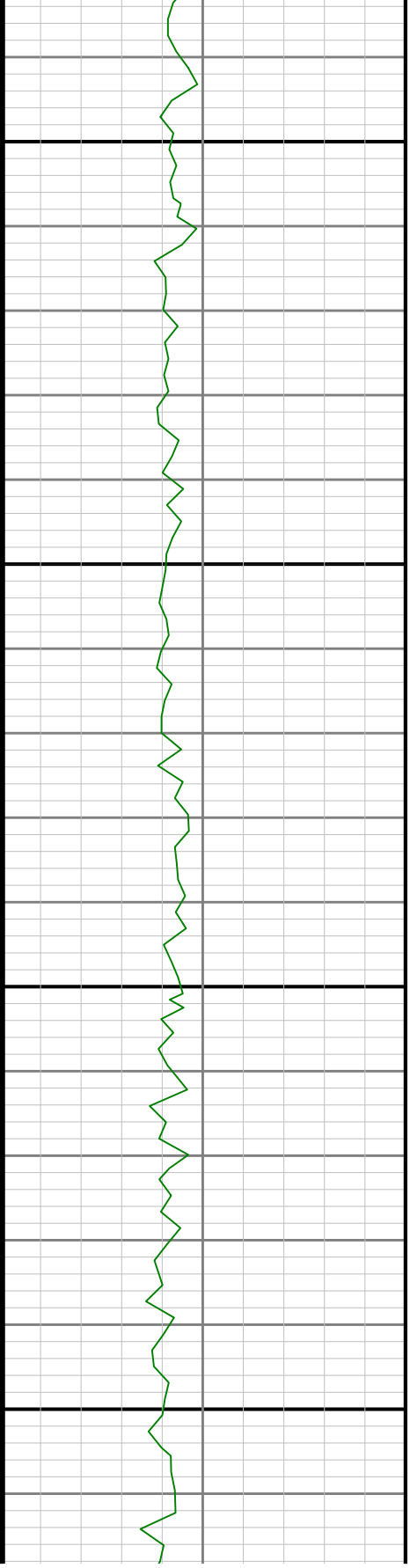
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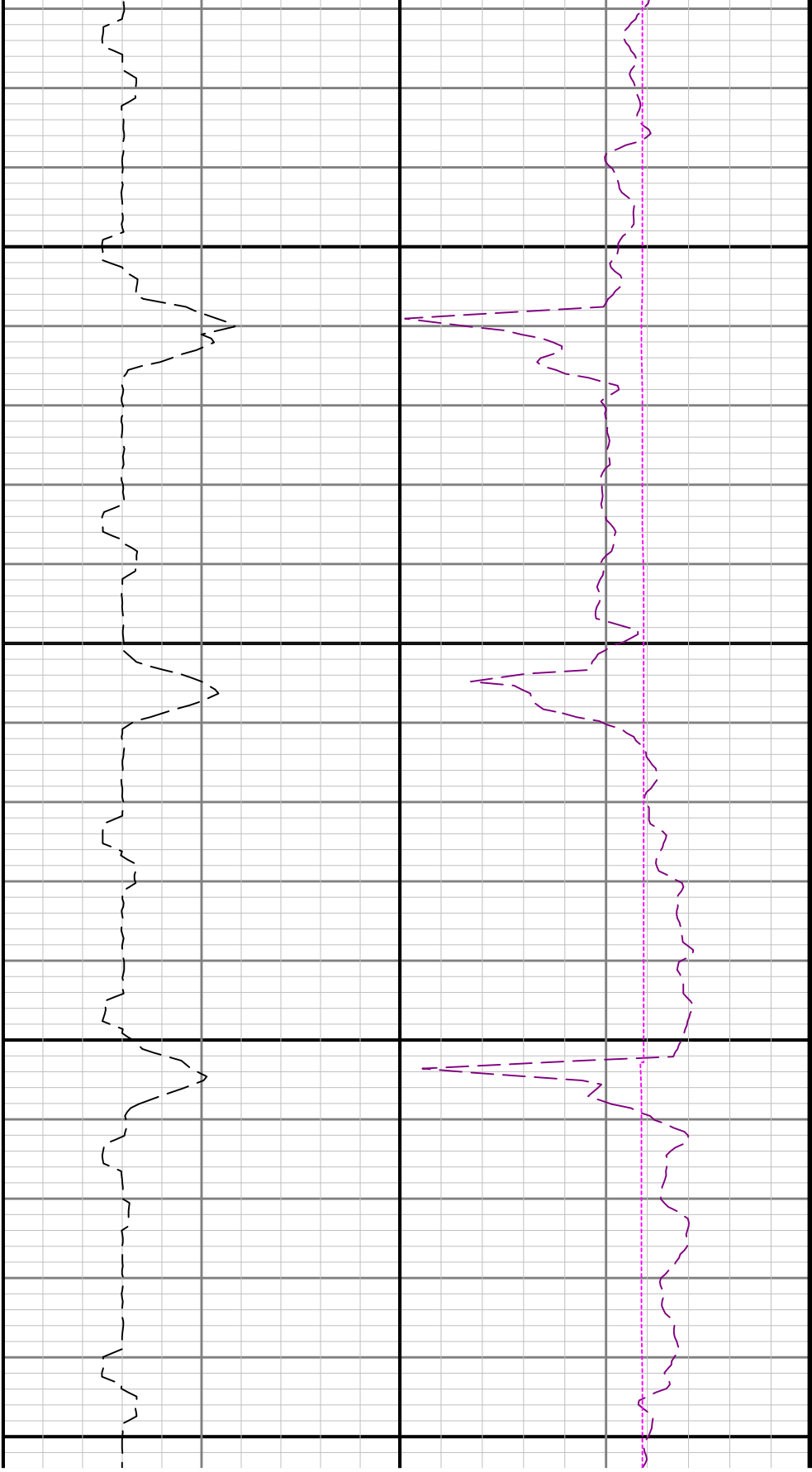




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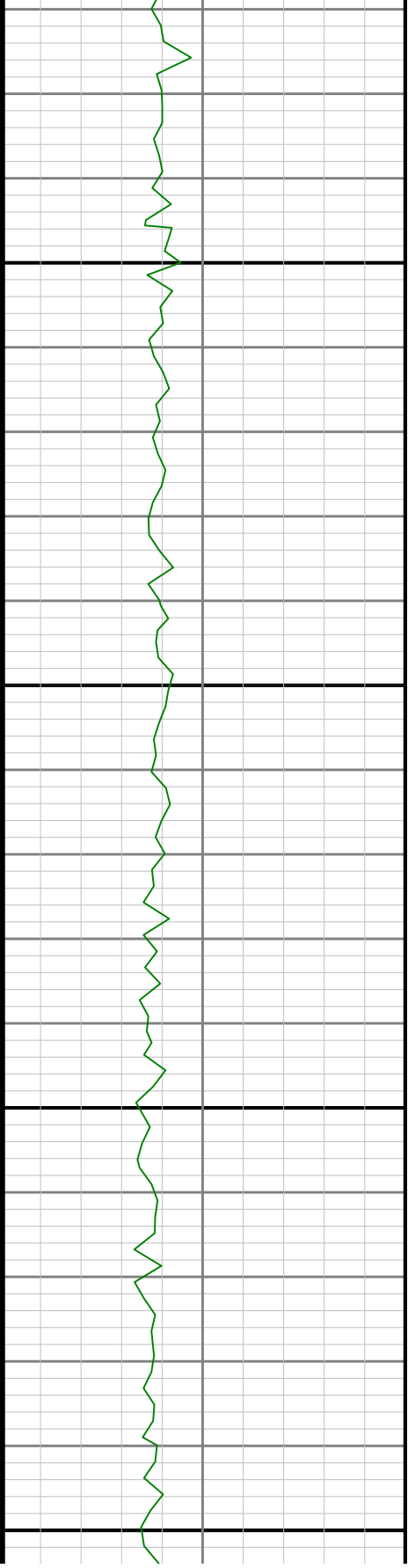
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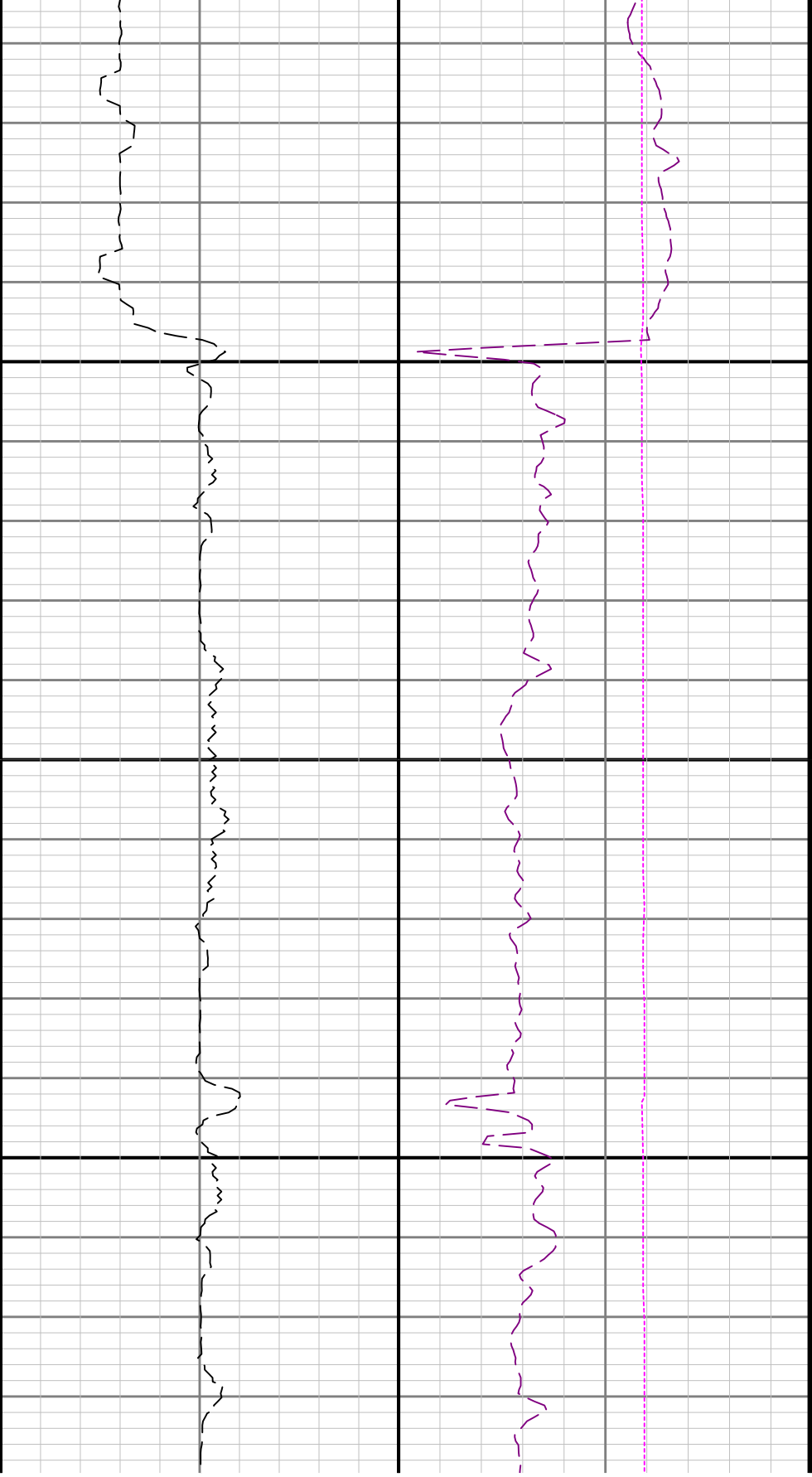




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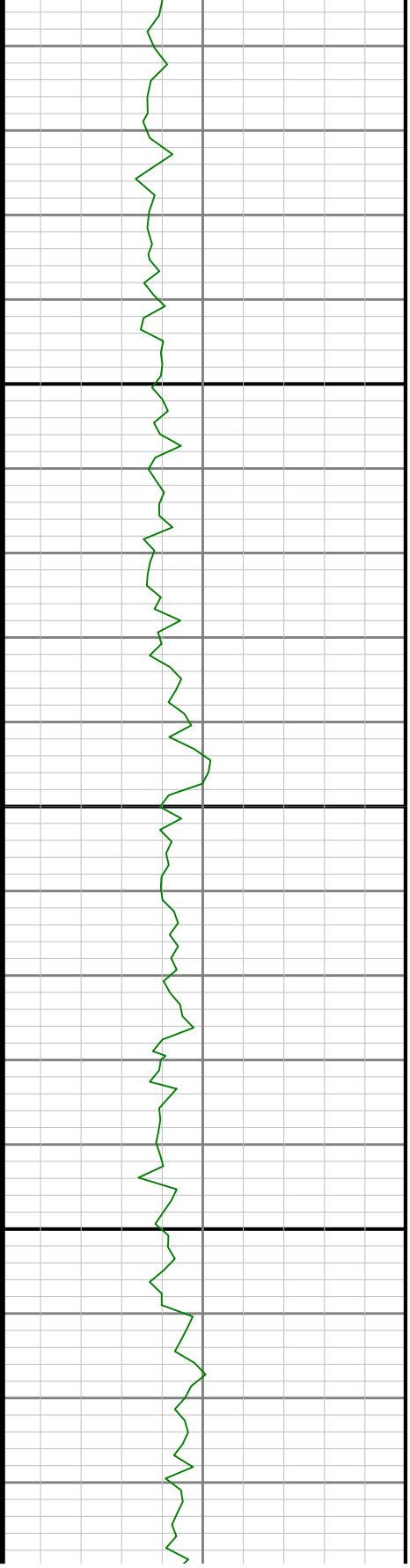
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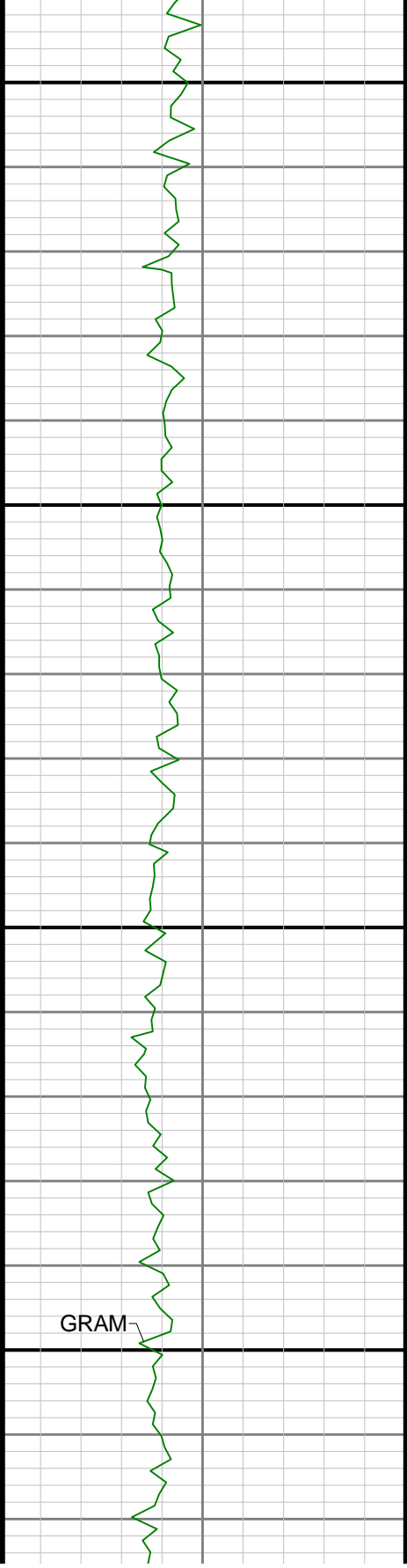




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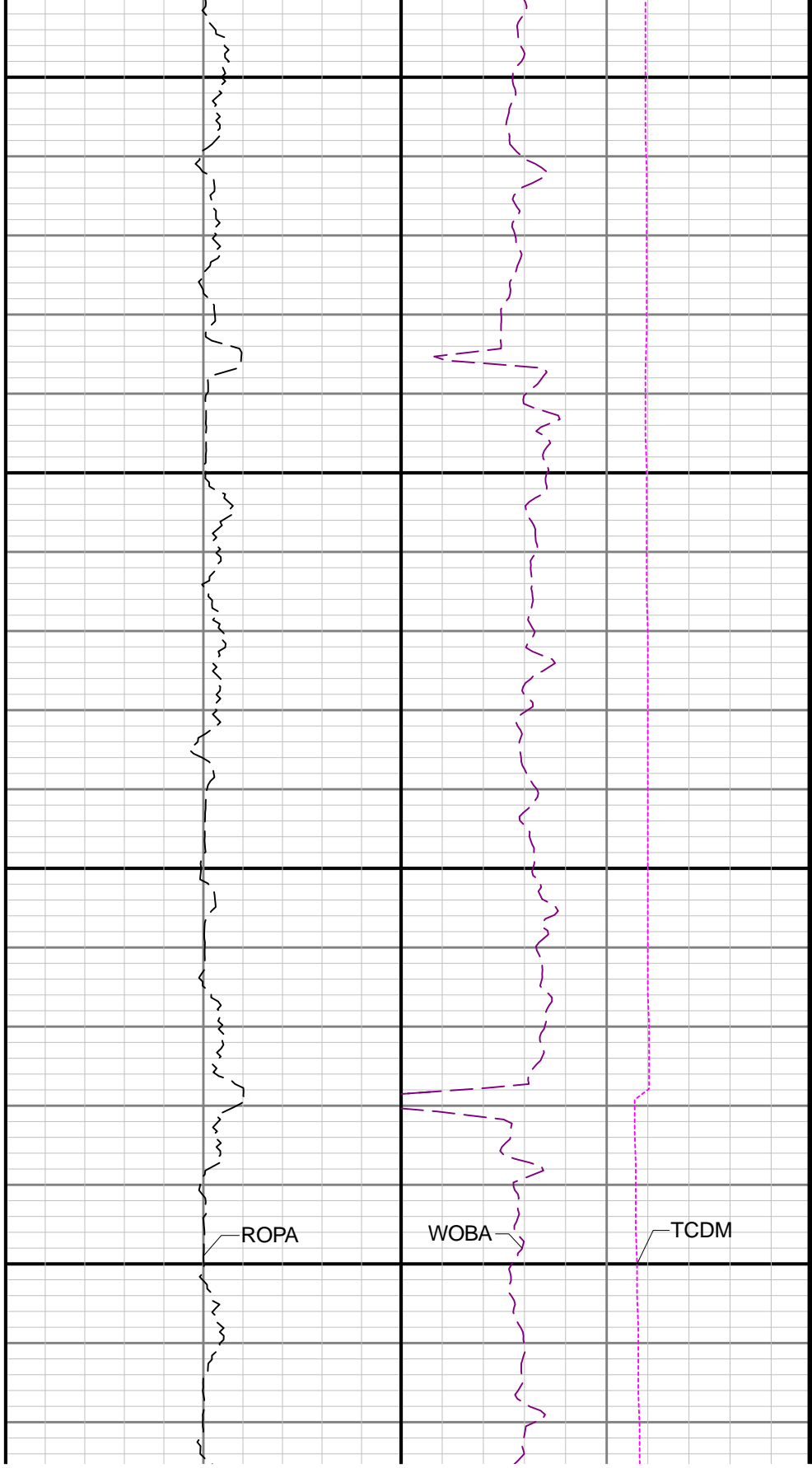
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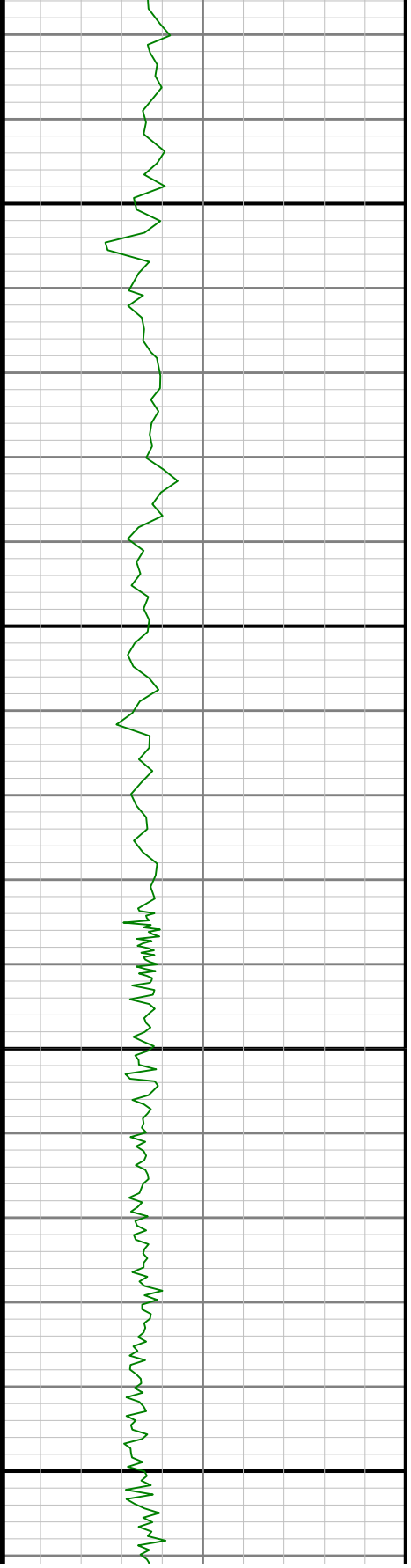
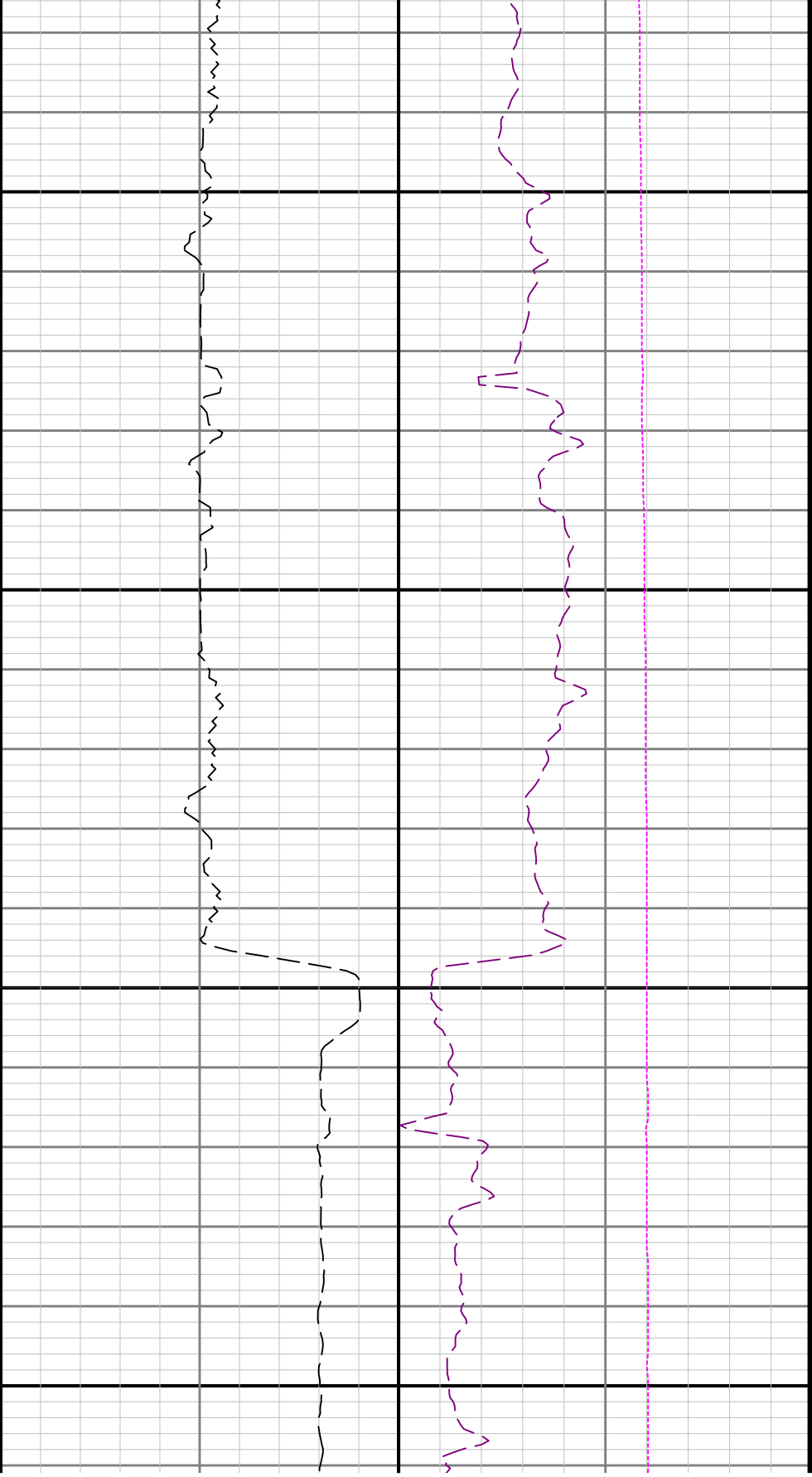


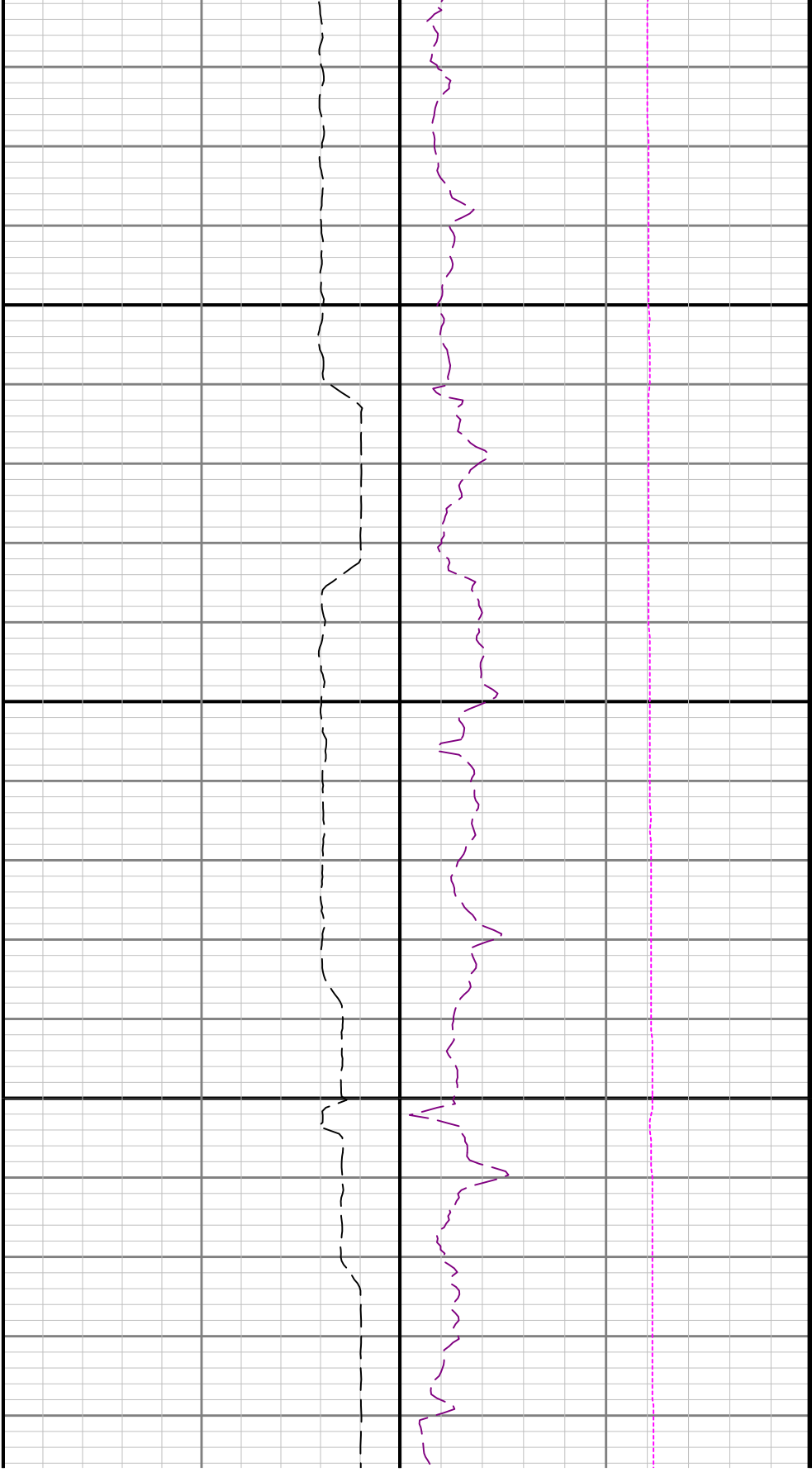


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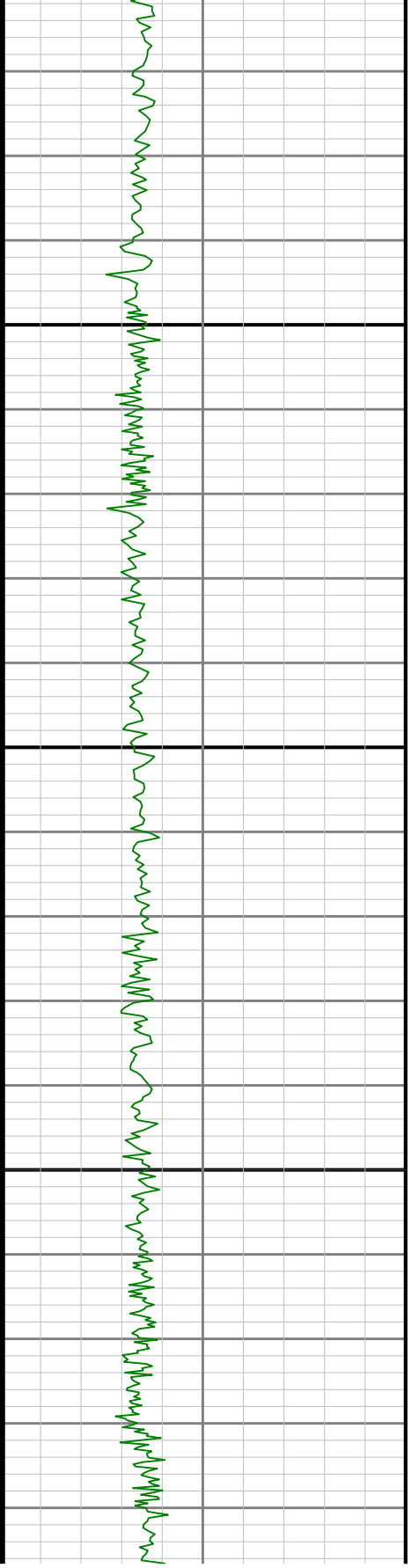
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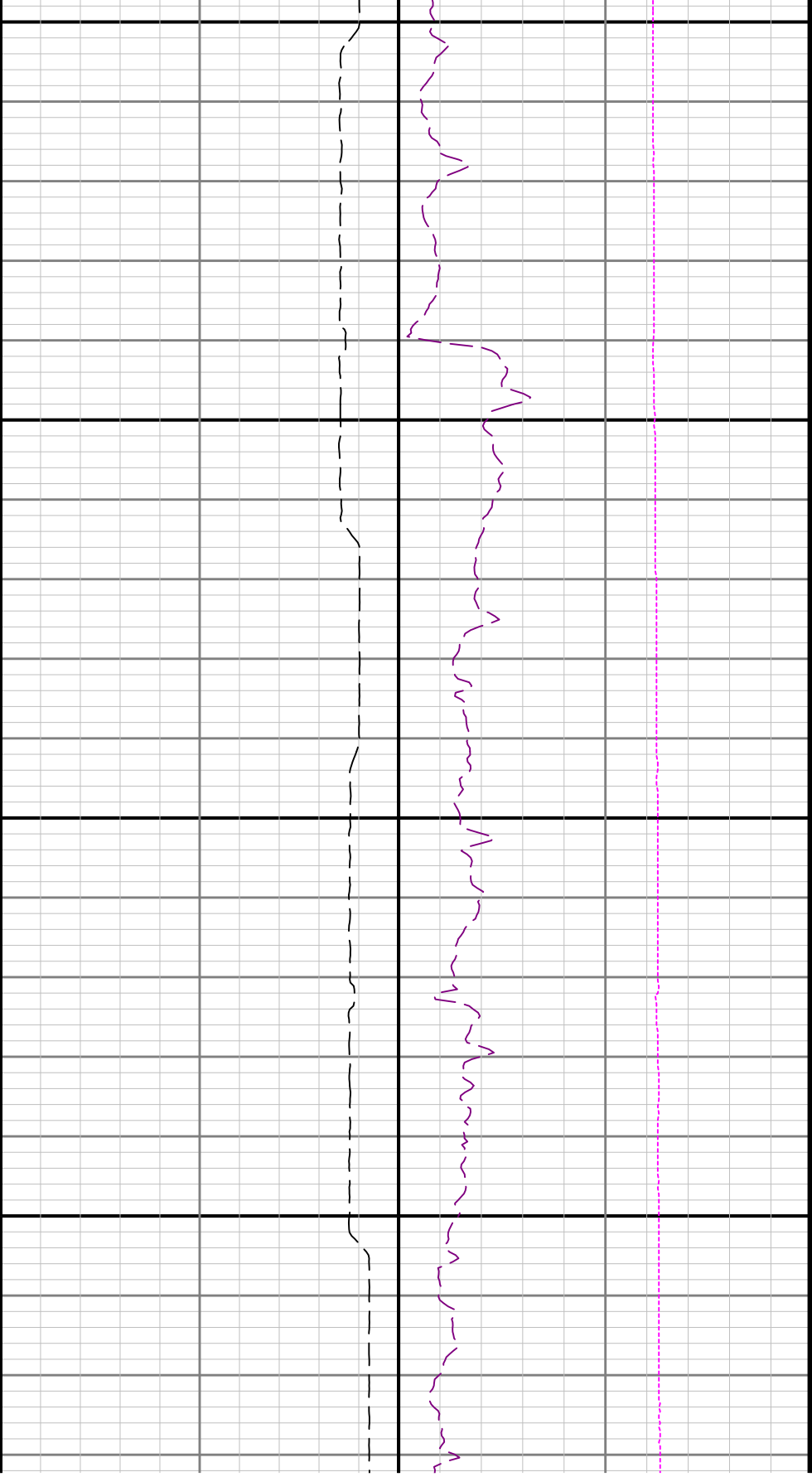






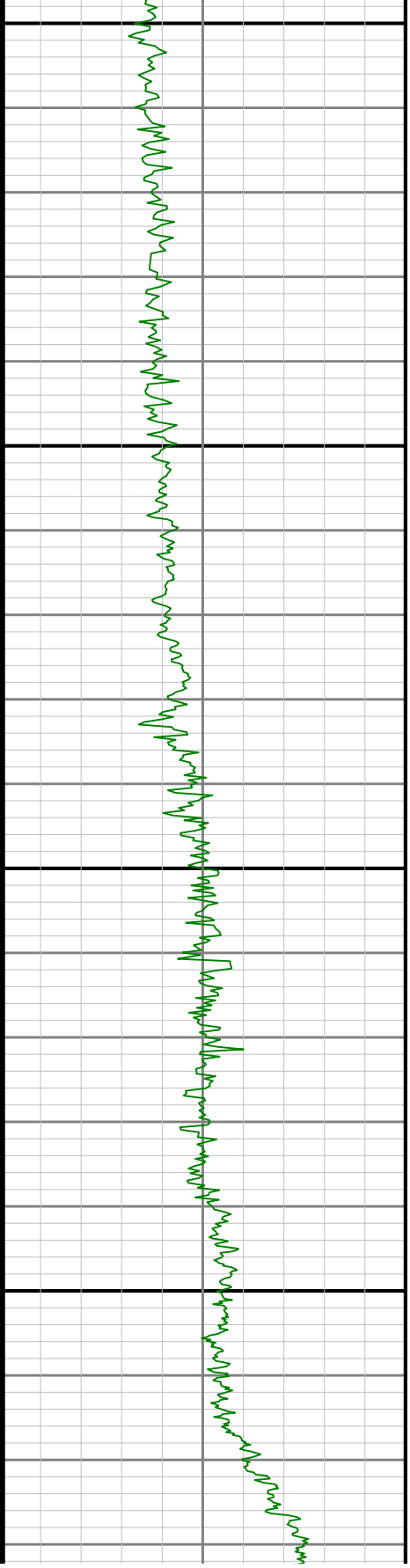
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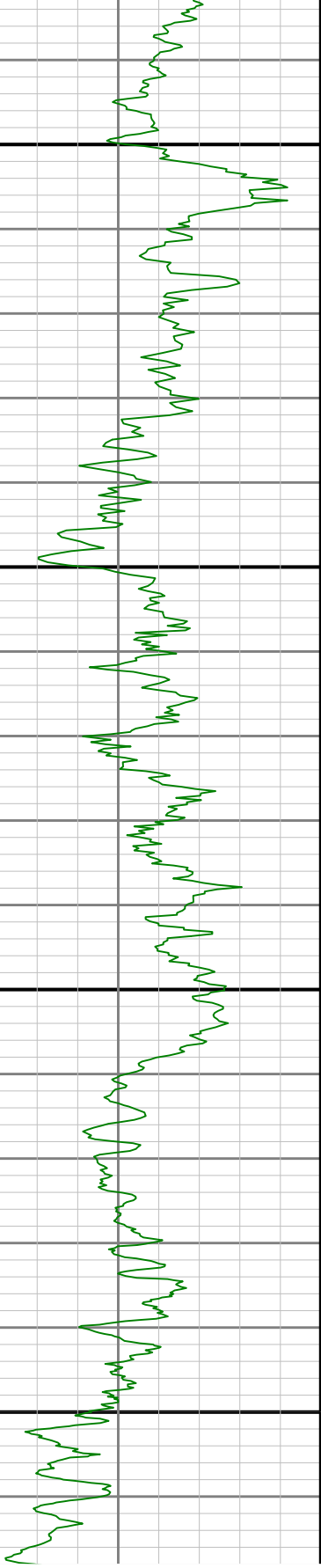




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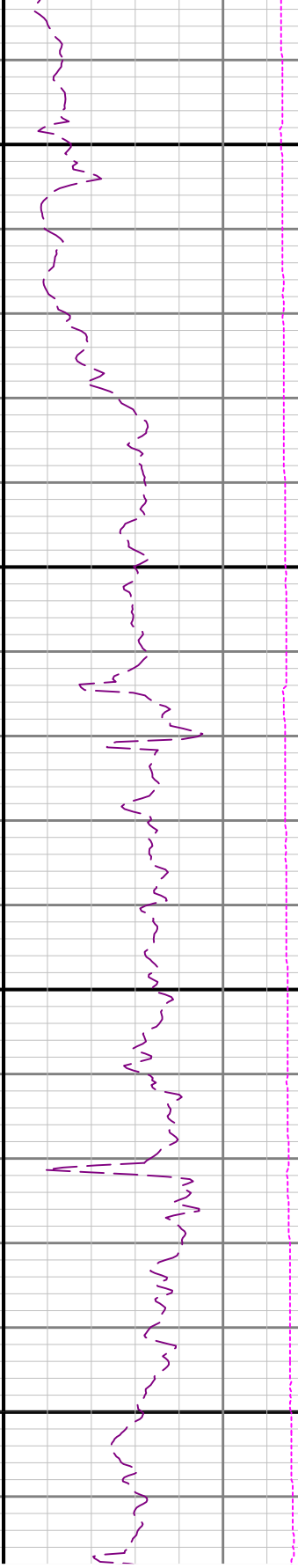
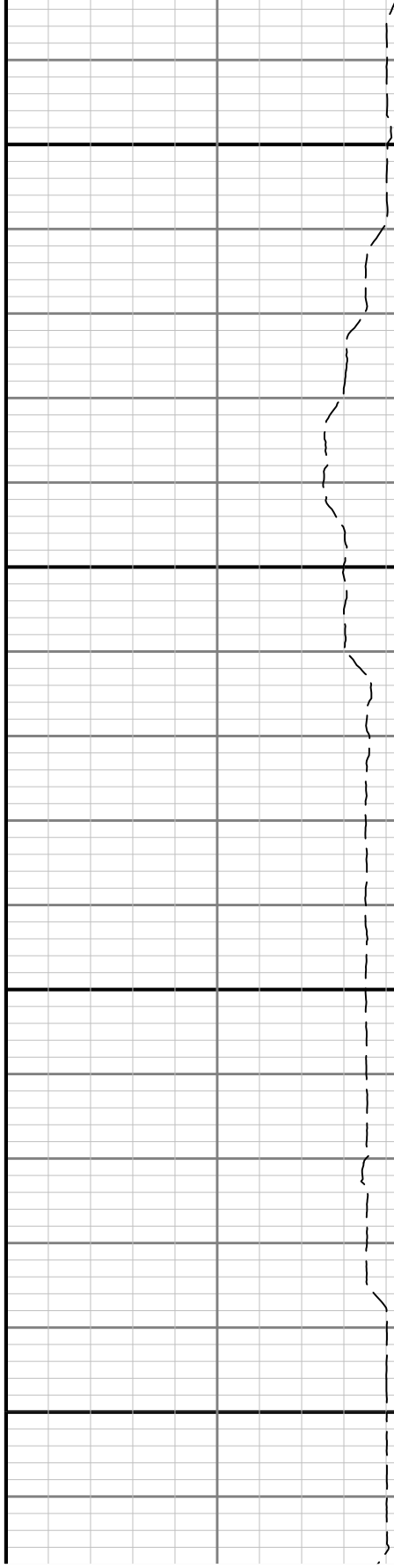
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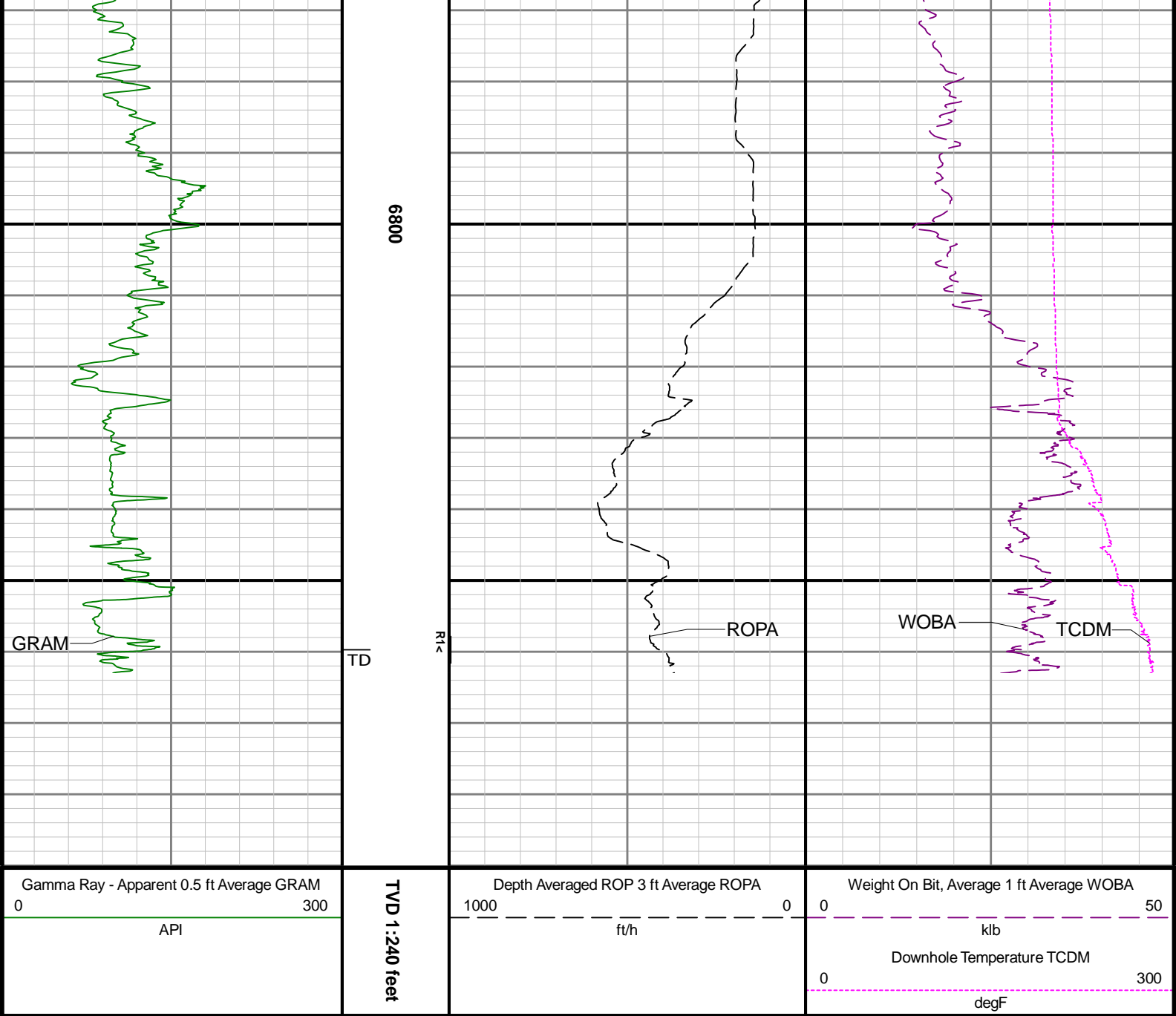




6700

0099





Directional Survey Summary

Latitude:	40° 27' 54.964" N	Longitude:	104° 34' 10.891" W
North Reference:	Grid	Drill Depth Zero:	Rig Floor
Vertical Datum is:	Mean Sea Level	Vertical Datum to DDZ: (ft)	4736.00
Vertical Section North: (ft)	0.00	Vertical Section East: (ft)	0.00
Vertical Section Azimuth: (deg)	178.86		
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)	51901
Local Magnetic Dip Angle: (deg)	66.78	Local Gravity Field: (m/s2)	9.800

Tie-In / Projection	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Temperature (degF)	North (ft)	East (ft)	True Vertical Depth (ft)	TVD Subsea (ft)	Vertical Section (ft)	Course Length (ft)	Dog Leg Severity (deg/100ft)	Build Rate (deg/100ft)	Turn Rate (deg/100ft)
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	(ft)	(deg)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg /ft)	(deg /ft)	(deg /ft)
Tie-In	0.00	0.00	0.00	N/A	0.00	0.00	0.00	-4736.00	0.00	0.00	0.00	0.00	0.00
	80.00	0.09	126.84	N/A	-0.04	0.05	80.00	-4656.00	0.04	80.00	0.11	0.11	158.55
	173.00	0.08	156.53	N/A	-0.14	0.13	173.00	-4563.00	0.14	93.00	0.05	-0.01	31.92
	264.00	0.34	67.95	N/A	-0.10	0.41	264.00	-4472.00	0.11	91.00	0.38	0.29	-97.34
	359.00	0.08	97.97	N/A	-0.00	0.74	359.00	-4377.00	0.02	95.00	0.29	-0.27	31.60
	453.00	0.13	267.64	N/A	-0.01	0.70	453.00	-4283.00	0.03	94.00	0.22	0.05	180.50
	547.00	0.41	101.83	N/A	-0.09	0.92	547.00	-4189.00	0.11	94.00	0.57	0.30	-176.39
	642.00	0.44	91.27	N/A	-0.17	1.62	642.00	-4094.00	0.20	95.00	0.09	0.03	-11.12
	736.00	0.55	86.30	N/A	-0.14	2.43	735.99	-4000.01	0.19	94.00	0.13	0.12	-5.29
	831.00	0.38	117.96	N/A	-0.26	3.16	830.99	-3905.01	0.33	95.00	0.32	-0.18	33.33
	925.00	0.74	86.06	N/A	-0.37	4.04	924.98	-3811.02	0.45	94.00	0.49	0.38	-33.94
	1020.00	0.73	98.76	N/A	-0.42	5.25	1019.98	-3716.02	0.52	95.00	0.17	-0.01	13.37
	1114.00	1.12	105.44	N/A	-0.75	6.73	1113.96	-3622.04	0.89	94.00	0.43	0.41	7.11
	1209.00	1.24	122.99	N/A	-1.56	8.49	1208.94	-3527.06	1.73	95.00	0.40	0.13	18.47
	1303.00	0.96	103.87	N/A	-2.30	10.10	1302.93	-3433.07	2.50	94.00	0.49	-0.30	-20.34
	1398.00	0.80	107.17	N/A	-2.69	11.51	1397.92	-3338.08	2.92	95.00	0.18	-0.17	3.47
	1493.00	0.94	103.98	N/A	-3.07	12.90	1492.91	-3243.09	3.33	95.00	0.16	0.15	-3.36
	1587.00	0.79	118.37	N/A	-3.57	14.22	1586.89	-3149.11	3.85	94.00	0.28	-0.16	-15.31
	1681.00	1.03	132.80	N/A	-4.45	15.41	1680.88	-3055.12	4.76	94.00	0.35	0.26	-15.35
	1776.00	1.09	174.61	N/A	-5.93	16.12	1775.87	-2960.13	6.25	95.00	0.80	0.06	44.01
	1871.00	1.03	207.77	N/A	-7.58	15.81	1870.85	-2865.15	7.90	95.00	0.64	-0.06	34.91
	1951.00	0.79	224.57	N/A	-8.61	15.08	1950.84	-2785.16	8.91	80.00	0.45	-0.30	21.00
	1989.00	1.19	267.20	117.6	-8.82	14.51	1988.84	-2747.16	9.11	38.00	2.13	1.05	112.18
	2083.00	0.16	110.80	125.7	-8.91	13.65	2082.83	-2653.17	9.18	94.00	1.42	-1.10	-166.38
	2178.00	0.04	178.29	68.9	-8.99	13.78	2177.83	-2558.17	9.27	95.00	0.16	-0.13	71.04
	2273.00	0.14	202.12	128.4	-9.13	13.74	2272.83	-2463.17	9.41	95.00	0.11	0.11	25.08
	2367.00	0.25	211.34	128.4	-9.42	13.59	2366.83	-2369.17	9.68	94.00	0.12	0.12	9.81
	2462.00	0.34	183.13	82.4	-9.87	13.46	2461.83	-2274.17	10.14	95.00	0.18	0.09	-29.69
	2556.00	0.41	4.25	133.8	-9.82	13.47	2555.83	-2180.17	10.08	94.00	0.80	0.07	-190.30
	2745.00	0.31	300.72	133.8	-8.88	13.08	2744.83	-1991.17	9.14	189.00	0.21	-0.05	-33.61
	2840.00	0.50	111.72	136.5	-8.90	13.25	2839.82	-1896.18	9.17	95.00	0.85	0.20	180.00
	2935.00	0.32	309.05	136.5	-8.89	13.43	2934.82	-1801.18	9.16	95.00	0.85	-0.19	-171.23
	3029.00	0.60	29.94	139.2	-8.30	13.47	3028.82	-1707.18	8.56	94.00	0.67	0.30	86.05
	3124.00	0.58	295.08	139.2	-7.66	13.28	3123.82	-1612.18	7.93	95.00	0.91	-0.02	-99.85
	3218.00	0.34	185.35	141.9	-7.74	12.82	3217.82	-1518.18	7.99	94.00	0.81	-0.26	-116.73
	3313.00	0.62	185.49	141.9	-8.53	12.75	3312.81	-1423.19	8.78	95.00	0.29	0.29	0.15
	3408.00	0.16	84.66	144.6	-9.03	12.83	3407.81	-1328.19	9.28	95.00	0.70	-0.48	-106.14
	3502.00	0.54	28.02	144.6	-8.63	13.17	3501.81	-1234.19	8.89	94.00	0.50	0.40	-60.26
	3597.00	0.32	166.13	144.6	-8.49	13.44	3596.81	-1139.19	8.76	95.00	0.85	-0.23	145.38
	3692.00	0.07	203.60	147.3	-8.80	13.48	3691.81	-1044.19	9.07	95.00	0.28	-0.26	39.44
	3786.00	0.07	54.55	147.3	-8.82	13.51	3785.81	-950.19	9.09	94.00	0.14	0.00	-158.56
	3881.00	0.04	204.69	150.0	-8.82	13.54	3880.81	-855.19	9.08	95.00	0.11	-0.03	158.04
	3975.00	0.10	136.86	150.0	-8.91	13.58	3974.81	-761.19	9.18	94.00	0.10	0.06	-72.16
	4070.00	0.11	114.48	152.7	-9.00	13.72	4069.81	-666.19	9.28	95.00	0.04	0.01	-23.56
	4165.00	0.03	139.74	155.4	-9.06	13.82	4164.81	-571.19	9.33	95.00	0.09	-0.08	26.59
	4259.00	0.03	85.49	155.4	-9.08	13.86	4258.81	-477.19	9.35	94.00	0.03	0.00	-57.71
	4354.00	0.03	66.41	158.1	-9.07	13.91	4353.81	-382.19	9.34	95.00	0.01	0.00	-20.08
	4449.00	0.00	97.00	158.1	-9.06	13.93	4448.81	-287.19	9.33	95.00	0.03	-0.03	32.20
	4544.00	0.07	168.80	160.8	-9.11	13.94	4543.81	-192.19	9.39	95.00	0.07	0.07	75.58
	4638.00	0.09	216.11	163.5	-9.23	13.91	4637.81	-98.19	9.50	94.00	0.07	0.02	50.33
	4733.00	0.15	193.98	163.5	-9.41	13.84	4732.81	-3.19	9.68	95.00	0.08	0.06	-23.29
	4827.00	0.99	155.62	166.2	-10.27	14.14	4826.80	90.80	10.55	94.00	0.93	0.89	-40.81
	4922.00	3.09	154.68	166.2	-13.33	15.58	4921.74	185.74	13.64	95.00	2.21	2.21	-0.99
	5017.00	5.25	153.35	168.9	-19.53	18.62	5016.48	280.48	19.90	95.00	2.28	2.27	-1.40
	5111.00	6.09	156.47	171.6	-27.95	22.54	5110.02	374.02	28.39	94.00	0.95	0.89	3.32
	5206.00	6.48	158.63	171.6	-37.56	26.51	5204.45	468.45	38.08	95.00	0.48	0.41	2.27
	5300.00	6.29	158.74	174.3	-47.30	30.31	5297.86	561.86	47.89	94.00	0.20	-0.20	0.12
	5395.00	6.31	152.56	174.3	-56.78	34.60	5392.29	656.29	57.46	95.00	0.71	0.02	-6.51
	5490.00	6.42	150.15	177.0	-66.02	39.65	5486.71	750.71	66.80	95.00	0.30	0.12	-2.54
	5584.00	5.43	151.31	174.3	-74.48	44.40	5580.20	844.20	75.35	94.00	1.06	-1.05	1.23
	5679.00	4.65	153.01	177.0	-81.86	48.31	5674.83	938.83	82.80	95.00	0.84	-0.82	1.79

	5773.00	5.67	152.96	179.7	-89.39	52.15	5768.45	1032.45	90.41	94.00	1.09	1.09	-0.05
	5868.00	6.33	152.45	179.7	-98.21	56.70	5862.93	1126.93	99.32	95.00	0.70	0.69	-0.54
	6057.00	5.83	153.41	177.0	-116.03	65.82	6050.87	1314.87	117.32	189.00	0.27	-0.26	0.51
	6152.00	5.77	152.28	179.7	-124.57	70.20	6145.38	1409.38	125.95	95.00	0.14	-0.06	-1.19
	6246.00	10.37	186.73	179.7	-137.17	71.41	6238.47	1502.47	138.57	94.00	6.90	4.89	36.65
	6341.00	17.07	187.90	182.5	-159.50	68.49	6330.71	1594.71	160.83	95.00	7.06	7.05	1.23
	6435.00	24.12	180.65	185.2	-192.42	66.37	6418.66	1682.66	193.70	94.00	7.96	7.50	-7.71
	6530.00	31.02	173.90	187.9	-236.23	68.75	6502.84	1766.84	237.55	95.00	7.96	7.26	-7.11
	6625.00	38.71	177.78	187.9	-290.34	72.51	6580.74	1844.74	291.73	95.00	8.42	8.09	4.08
	6719.00	47.52	177.37	190.6	-354.47	75.25	6649.29	1913.29	355.89	94.00	9.38	9.37	-0.44
	6814.00	54.95	177.05	193.3	-428.40	78.86	6708.74	1972.74	429.88	95.00	7.83	7.82	-0.34
	6908.00	63.11	179.84	196.0	-508.89	80.96	6757.07	2021.07	510.40	94.00	9.04	8.68	2.97
	7003.00	71.71	179.20	198.7	-596.52	81.71	6793.53	2057.53	598.02	95.00	9.07	9.05	-0.67
	7097.00	80.10	179.30	204.1	-687.60	82.90	6816.40	2080.40	689.11	94.00	8.93	8.93	0.11
	7192.00	87.84	179.26	206.8	-781.99	84.09	6826.37	2090.37	783.51	95.00	8.15	8.15	-0.04
	7287.00	89.51	179.39	206.8	-876.96	85.21	6828.57	2092.57	878.48	95.00	1.76	1.76	0.14
	7381.00	89.26	179.07	212.2	-970.94	86.47	6829.58	2093.58	972.47	94.00	0.43	-0.27	-0.34
	7476.00	89.57	179.39	214.9	-1065.93	87.75	6830.55	2094.55	1067.46	95.00	0.47	0.33	0.34
	7570.00	89.69	179.06	214.9	-1159.92	89.02	6831.16	2095.16	1161.46	94.00	0.37	0.13	-0.35
	7665.00	90.00	179.11	217.6	-1254.90	90.53	6831.41	2095.41	1256.46	95.00	0.33	0.33	0.05
	7759.00	89.82	179.17	220.3	-1348.89	91.94	6831.56	2095.56	1350.46	94.00	0.20	-0.19	0.06
	7854.00	89.88	178.96	220.3	-1443.88	93.49	6831.81	2095.81	1445.46	95.00	0.23	0.06	-0.22
	7948.00	89.42	179.56	223.0	-1537.87	94.71	6832.39	2096.39	1539.45	94.00	0.80	-0.49	0.64
	8043.00	90.03	179.68	223.0	-1632.87	95.34	6832.84	2096.84	1634.44	95.00	0.65	0.64	0.13
	8137.00	89.69	178.96	225.7	-1726.86	96.45	6833.07	2097.07	1728.44	94.00	0.85	-0.36	-0.77
	8232.00	89.69	179.27	225.7	-1821.85	97.92	6833.58	2097.58	1823.43	95.00	0.33	0.00	0.33
	8326.00	89.91	179.61	225.7	-1915.84	98.84	6833.91	2097.91	1917.43	94.00	0.43	0.23	0.36
	8515.00	89.72	178.95	228.4	-2104.82	101.22	6834.52	2098.52	2106.42	189.00	0.36	-0.10	-0.35
	8610.00	89.42	179.03	231.1	-2199.81	102.89	6835.24	2099.24	2201.42	95.00	0.33	-0.32	0.08
	8705.00	89.78	179.46	231.1	-2294.80	104.14	6835.90	2099.90	2296.41	95.00	0.59	0.38	0.45
	8799.00	89.51	179.14	233.8	-2388.79	105.29	6836.48	2100.48	2390.41	94.00	0.45	-0.29	-0.34
	8894.00	89.60	179.35	233.8	-2483.78	106.54	6837.22	2101.22	2485.40	95.00	0.24	0.09	0.22
	8989.00	89.63	179.36	236.5	-2578.77	107.61	6837.86	2101.86	2580.40	95.00	0.03	0.03	0.01
	9083.00	90.71	179.39	236.5	-2672.76	108.64	6837.58	2101.58	2674.39	94.00	1.15	1.15	0.03
	9178.00	89.11	178.40	239.2	-2767.74	110.47	6837.73	2101.73	2769.39	95.00	1.98	-1.68	-1.04
	9272.00	89.48	179.01	231.1	-2861.71	112.59	6838.88	2102.88	2863.38	94.00	0.76	0.39	0.65
	9367.00	89.72	178.88	233.8	-2956.69	114.34	6839.55	2103.55	2958.38	95.00	0.29	0.25	-0.14
	9461.00	89.63	178.77	236.5	-3050.67	116.27	6840.08	2104.08	3052.38	94.00	0.15	-0.10	-0.12
	9556.00	89.82	179.11	239.2	-3145.65	118.03	6840.54	2104.54	3147.37	95.00	0.41	0.20	0.36
	9650.00	89.88	179.33	239.2	-3239.64	119.31	6840.78	2104.78	3241.37	94.00	0.24	0.06	0.23
	9745.00	89.78	179.42	241.9	-3334.63	120.34	6841.07	2105.07	3336.37	95.00	0.14	-0.11	0.09
	9840.00	89.29	178.95	241.9	-3429.62	121.69	6841.84	2105.84	3431.36	95.00	0.71	-0.52	-0.49
	9934.00	89.51	178.98	244.6	-3523.60	123.39	6842.82	2106.82	3525.36	94.00	0.24	0.23	0.03
	10029.00	89.35	178.97	247.3	-3618.58	125.09	6843.77	2107.77	3620.35	95.00	0.17	-0.17	-0.01
	10123.00	89.72	179.02	247.3	-3712.56	126.74	6844.53	2108.53	3714.35	94.00	0.40	0.39	0.05
	10218.00	89.54	179.79	239.2	-3807.55	127.73	6845.14	2109.14	3809.34	95.00	0.83	-0.19	0.81
	10312.00	89.66	179.42	241.9	-3901.55	128.37	6845.80	2109.80	3903.33	94.00	0.41	0.13	-0.39
	10407.00	89.78	179.10	244.6	-3996.54	129.60	6846.26	2110.26	3998.33	95.00	0.36	0.13	-0.34
	10502.00	89.66	179.39	247.3	-4091.53	130.85	6846.73	2110.73	4093.32	95.00	0.33	-0.13	0.31
	10596.00	89.72	179.86	247.3	-4185.53	131.47	6847.24	2111.24	4187.31	94.00	0.50	0.06	0.50
	10691.00	89.60	179.00	250.0	-4280.52	132.41	6847.80	2111.80	4282.31	95.00	0.91	-0.13	-0.91
	10785.00	89.75	179.56	250.0	-4374.51	133.59	6848.33	2112.33	4376.30	94.00	0.62	0.16	0.60
	10880.00	89.45	179.44	366.3	-4469.50	134.42	6849.00	2113.00	4471.29	95.00	0.34	-0.32	-0.13
	10974.00	89.32	179.73	252.7	-4563.50	135.10	6850.00	2114.00	4565.28	94.00	0.34	-0.14	0.31
	11069.00	89.85	179.08	252.7	-4658.49	136.09	6850.69	2114.69	4660.27	95.00	0.88	0.56	-0.68
	11163.00	91.08	178.91	252.7	-4752.47	137.74	6849.93	2113.93	4754.27	94.00	1.32	1.31	-0.18
	11258.00	89.94	179.25	255.4	-4847.45	139.26	6849.08	2113.08	4849.26	95.00	1.25	-1.20	0.36
	11352.00	89.97	179.28	255.4	-4941.44	140.47	6849.16	2113.16	4943.26	94.00	0.05	0.03	0.03
	11447.00	89.29	178.55	258.1	-5036.42	142.27	6849.77	2113.77	5038.26	95.00	1.05	-0.72	-0.77
	11541.00	90.46	179.12	255.4	-5130.40	144.18	6849.98	2113.98	5132.25	94.00	1.38	1.24	0.61
	11636.00	90.22	178.99	258.1	-5225.39	145.75	6849.41	2113.41	5227.25	95.00	0.29	-0.25	-0.14
	11730.00	90.31	178.83	258.1	-5319.37	147.54	6848.98	2112.98	5321.25	94.00	0.20	0.10	-0.17

	11825.00	89.94	179.29	260.8	-5414.36	149.09	6848.77	2112.77	5416.25	95.00	0.62	-0.39	0.48
	11919.00	90.25	178.98	263.5	-5508.34	150.51	6848.61	2112.61	5510.25	94.00	0.47	0.33	-0.33
	12014.00	89.82	178.83	258.1	-5603.33	152.33	6848.56	2112.56	5605.25	95.00	0.48	-0.45	-0.16
	12108.00	90.18	178.90	260.8	-5697.31	154.19	6848.56	2112.56	5699.25	94.00	0.39	0.38	0.07
	12203.00	89.66	179.21	260.8	-5792.29	155.76	6848.69	2112.69	5794.25	95.00	0.64	-0.55	0.33
	12298.00	90.52	179.28	255.4	-5887.29	157.01	6848.54	2112.54	5889.24	95.00	0.91	0.91	0.07
	12392.00	89.94	180.34	258.1	-5981.28	157.32	6848.16	2112.16	5983.23	94.00	1.29	-0.62	1.13
	12487.00	89.54	180.34	260.8	-6076.28	156.76	6848.59	2112.59	6078.20	95.00	0.42	-0.42	-0.00
	12581.00	89.48	180.31	260.8	-6170.27	156.22	6849.40	2113.40	6172.16	94.00	0.07	-0.06	-0.03
	12676.00	90.40	179.87	260.8	-6265.27	156.07	6849.50	2113.50	6267.14	95.00	1.07	0.97	-0.46
	12771.00	89.38	179.25	263.5	-6360.27	156.80	6849.68	2113.68	6362.13	95.00	1.26	-1.07	-0.65
	12865.00	89.60	178.66	263.5	-6454.25	158.52	6850.52	2114.52	6456.12	94.00	0.67	0.23	-0.63
	12960.00	89.11	178.57	263.5	-6549.21	160.81	6851.59	2115.59	6551.12	95.00	0.52	-0.52	-0.09
	13149.00	90.52	180.88	260.8	-6738.19	161.72	6852.20	2116.20	6740.08	189.00	1.43	0.75	1.22
	13244.00	89.23	181.21	263.5	-6833.18	159.99	6852.40	2116.40	6835.01	95.00	1.40	-1.36	0.35
	13338.00	89.78	180.74	263.5	-6927.16	158.39	6853.22	2117.22	6928.94	94.00	0.77	0.59	-0.50
	13433.00	89.66	180.75	263.5	-7022.15	157.15	6853.68	2117.68	7023.89	95.00	0.13	-0.13	0.01
	13527.00	89.85	181.20	266.2	-7116.13	155.55	6854.08	2118.08	7117.82	94.00	0.52	0.20	0.48
	13622.00	89.88	180.64	266.2	-7211.12	154.03	6854.31	2118.31	7212.76	95.00	0.59	0.03	-0.59
	13716.00	89.75	180.87	266.2	-7305.11	152.79	6854.61	2118.61	7306.71	94.00	0.28	-0.14	0.24
	13810.00	89.72	179.90	266.2	-7399.11	152.16	6855.04	2119.04	7400.67	94.00	1.03	-0.03	-1.03
	13905.00	89.72	180.48	269.0	-7494.11	151.84	6855.51	2119.51	7495.64	95.00	0.61	0.00	0.61
	14000.00	89.88	180.09	269.0	-7589.10	151.37	6855.84	2119.84	7590.61	95.00	0.44	0.17	-0.41
	14094.00	89.63	178.38	271.7	-7683.09	152.63	6856.24	2120.24	7684.61	94.00	1.84	-0.27	-1.82
	14189.00	89.54	177.97	271.7	-7778.04	155.65	6856.93	2120.93	7779.60	95.00	0.44	-0.09	-0.43
	14283.00	89.78	177.44	269.0	-7871.96	159.42	6857.49	2121.49	7873.58	94.00	0.62	0.26	-0.56
	14378.00	90.15	177.68	274.4	-7966.88	163.46	6857.55	2121.55	7968.55	95.00	0.46	0.39	0.25
	14472.00	89.97	178.01	274.4	-8060.81	166.99	6857.45	2121.45	8062.54	94.00	0.40	-0.19	0.35
	14567.00	89.88	177.43	274.4	-8155.73	170.77	6857.57	2121.57	8157.52	95.00	0.62	-0.09	-0.61
	14662.00	89.72	176.86	274.4	-8250.61	175.51	6857.90	2121.90	8252.47	95.00	0.62	-0.17	-0.60
	14756.00	89.82	177.41	277.1	-8344.50	180.20	6858.28	2122.28	8346.43	94.00	0.59	0.11	0.59
	14851.00	89.42	177.46	277.1	-8439.40	184.46	6858.91	2122.91	8441.40	95.00	0.42	-0.42	0.05
	14945.00	89.48	176.50	277.1	-8533.26	189.41	6859.81	2123.81	8535.34	94.00	1.02	0.06	-1.02
	15039.00	89.57	177.92	277.1	-8627.15	193.98	6860.59	2124.59	8629.30	94.00	1.51	0.10	1.51
	15134.00	89.66	178.55	279.8	-8722.10	196.91	6861.23	2125.23	8724.29	95.00	0.67	0.09	0.66
	15229.00	90.28	178.22	277.1	-8817.06	199.59	6861.28	2125.28	8819.29	95.00	0.74	0.65	-0.35
	15323.00	89.57	177.38	279.8	-8910.99	203.19	6861.40	2125.40	8913.27	94.00	1.17	-0.76	-0.89
	15418.00	89.63	178.04	279.8	-9005.91	206.99	6862.07	2126.07	9008.25	95.00	0.70	0.06	0.69
	15512.00	89.42	178.67	279.8	-9099.87	209.69	6862.85	2126.85	9102.24	94.00	0.71	-0.22	0.67
	15607.00	90.37	180.63	282.5	-9194.86	210.27	6863.02	2127.02	9197.22	95.00	2.29	1.00	2.06
	15702.00	90.71	180.59	282.5	-9289.85	209.26	6862.12	2126.12	9292.17	95.00	0.36	0.36	-0.04
	15796.00	89.82	180.71	282.5	-9383.84	208.19	6861.69	2125.69	9386.13	94.00	0.96	-0.95	0.13
	15891.00	90.28	179.93	282.5	-9478.84	207.66	6861.61	2125.61	9481.10	95.00	0.95	0.48	-0.82
	15985.00	90.18	179.66	282.5	-9572.84	208.00	6861.23	2125.23	9575.08	94.00	0.31	-0.11	-0.29
	16080.00	90.25	179.02	282.5	-9667.83	209.09	6860.87	2124.87	9670.08	95.00	0.68	0.07	-0.67
	16174.00	89.72	179.64	282.5	-9761.82	210.19	6860.90	2124.90	9764.07	94.00	0.87	-0.56	0.66
	16269.00	90.22	179.64	285.2	-9856.82	210.79	6860.95	2124.95	9859.06	95.00	0.53	0.53	0.00
	16363.00	89.94	179.85	285.2	-9950.82	211.21	6860.82	2124.82	9953.05	94.00	0.37	-0.30	0.22
	16458.00	90.12	180.27	285.2	-10045.82	211.11	6860.77	2124.77	10048.03	95.00	0.48	0.19	0.44
	16552.00	90.06	179.58	301.4	-10139.82	211.23	6860.62	2124.62	10142.01	94.00	0.74	-0.06	-0.73
	16741.00	90.22	180.17	282.5	-10328.82	211.64	6860.16	2124.16	10330.98	189.00	0.32	0.08	0.31
	16836.00	89.91	180.19	282.5	-10423.82	211.34	6860.05	2124.05	10425.96	95.00	0.33	-0.33	0.02
Projection	16872.00	89.91	180.19	N/A	-10459.82	211.22	6860.11	2124.11	10461.95	36.00	0.00	0.01	-0.00