



Weatherford®

6 3/4 in. & 4 3/4 in. WeatherfordM/LWD™
Spectral Gamma Ray
1 in. & 5 in. MEASURED DEPTH
RECORDED DATA
FINAL PRINT

Company: Anadarko
Well: Palyo 13N-11HZ
Field: Wattenberg
Rig: Xtreme 23
County: Weld

Location

Latitude: 40.158787° N x = 3,240,850.73 ft Mag Decl: 8.65°
Longitude: 104.638273° W y = 1,301,786.72 ft Mag Dip: 66.81°

Other Services: Directional and Temperature

COMPANY Anadarko
WELL Palyo 13N-11HZ
FIELD Wattenberg
RIG Xtreme 23
COUNTY Weld STATE Colorado
API # 05-123-35457-0000

Permanent Datum: Mean Sea Level

Log Measured From: Drill Floor Elev: 4872.0 ft above perm. datum

Depth Reference: Drillers Tally Total Depth: 11479 ft

Depth Logged: 3500 ft to 11479 ft Runs: 3

Date Logged: 21-Oct-12 to 29-Oct-12 Spud Date: 21-Oct-12

Elevation
K.B. Top Drive
G.L. 4856.0 ft
D.F. 4872.0 ft
W.D. Land

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
8.750 in.	896 ft	7325 ft	9.625 in.	53.5 lb/ft	Surface	880 ft
6.125 in.	7325 ft	11479 ft	7.000 in.	39.0 lb/ft	Surface	7300 ft

Borehole Deviation Record

Mud Record

Hole Size	Min. Inc.	Max. Inc.	Type	Weight	From	To
8.750 in.	0.22°	83.56°	WBM	8.40-10.10 ppg	896 ft	7325 ft
6.125 in.	87.04°	93.64°	WBM	9.35-9.80 ppg	7325 ft	11479 ft

All interpretations of log data are opinions based on inferences from electrical or other measurements. Weatherford International does not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

RUN SUMMARY							
M/LWD Run Number		1	2	3			
Bit Size	in.	8.750	8.750	6.125			
Bit Type		PDC	PDC	PDC			
Bit TFA	sq.in.	1.245	1.245	0.982			
Bit Start Depth	ft	896	6400	7325			
Bit End Depth	ft	6400	7325	11479			
Top Log Interval	ft	3500	6357	7286			
Bottom Log Interval	ft	6400	7325	11479			
Begin Log Time	hrs	14:58	3:11	2:22			
Begin Log Date	DD-MMM-YY	21-Oct-12	23-Oct-12	27-Oct-12			
End Log Time	hrs	14:58	15:59	6:10			
End Log Date	DD-MMM-YY	22-Oct-12	24-Oct-12	29-Oct-12			
Drill or Wipe		Drill	Drill	Drill			
Flow Rate	gal/min	557	582	290			
Max AV / CV @ MWD	ft/min	440 / 320	460 / 401	475 / 371			
Min Inc @ Depth	deg @ ft	0.22 @ 1064	1.19 @ 6340	87.04 @ 11018			
Max Inc @ Depth	deg @ ft	11.21 @ 2974	83.56 @ 7265	93.64 @ 7858			
MUD DATA							
Depth	ft	896	6400	7325			
Fluid Type		Water	WBM	WBM			
Mud Weight	ppg	8.40	9.00	9.35			
Plastic Viscosity	cP	1	7	10			
Solids / Sand	%	0.5 / 0.0	3.2 / 0.50	5.2 / 0.25			
Total Chlorides	ppm	1500	1500	1200			
pH		8.0	8.4	8.0			
Oil:Water Ratio	% Vol	0:100	0.5:99.5	1.6:98.4			
Rm @ Temperature	ohm-m @ deg F	N/A	N/A	N/A			
Rmc @ Temperature	ohm-m @ deg F	N/A	N/A	N/A			
Rmf @ Temperature	ohm-m @ deg F	N/A	N/A	N/A			
KCl	% Vol	0	0	0			
Client Representative		G. Williams	G. Williams	G. Williams			
WeatherfordM/LWD Engineer		D. Palmer	D. Palmer	E. Dearman			

EQUIPMENT SUMMARY						
M/LWD Run Number	1	2	3			
MWD Build Number	CP20696PDYBR-T01	CP20696PDYBR-T01	N/A			
HEL Serial Number	N/A	N/A	NW21991PDBB4.75			
MFR Serial Number	N/A	N/A	N/A			
IDS Serial Number	N/A	N/A	NW21996BI4.75			
SAGR Serial Number	N/A	N/A	NW21990JB4.75			
CMS	1884	1884	N/A			
UGR/GR-4	44775	44775	N/A			
BTR/CDS	1011 / 1104	1011 / 1104	N/A			
Sensor to Bit Offsets / Acquisition Rates						
Directional	ft / sec	57.11 / RT	57.11 / RT	55.47 / RT		
Gamma Ray	ft / sec	42.90 / 10	42.90 / 10	38.87 / 5		
Resistivity	ft / sec	N/A	N/A	N/A		
Other Information						
Total BHA Length	ft	97.79	97.81	111.60		
BHA Assembly Type		Steerable	Steerable	Steerable		
Stabilizer Location	ft	N/A	N/A	75.55		
Stabilizer Location	ft	N/A	N/A	N/A		
Run Circulating Time	hr	35.65	38.27	51.59		
Run Drilling Time	hr	23.19	20.08	32.14		

MUD SUMMARY

Date and Time	Run	Bit Depth	Mud Weight	% K	Rm @ Temp	Rmf @ Temp	Rmc @ Temp	BHCT
21 Oct 12 @ 15:51	01	896 ft	8.40 ppg	0	N/A	N/A	N/A	86 F
23 Oct 12 @ 03:11	02	6400 ft	9.00 ppg	0	N/A	N/A	N/A	133 F
27 Oct 12 @ 02:22	03	7325 ft	9.35 ppg	0	N/A	N/A	N/A	123 F

M/LWD RUN REMARKS

Run Number: 1 :: RECORDED DATA LOG

WFT Services Provided:

Recorded and Real Time Logging: Gamma Ray and Temperature.

Directional Services: On demand Inclination and Azimuth.

Borehole and Environmental Correction:

Collar O.D.: 6.750 in.

Gamma Ray: Collar O.D., collar I.D. and K1 factor.

Collar I.D.: 3.125 in.

K1 Factor: 3.167

Run Number: 2 :: RECORDED DATA LOG

WFT Services Provided:

Recorded and Real Time Logging: Gamma Ray and Temperature.

Directional Services: On demand Inclination and Azimuth.

Borehole and Environmental Correction:

Collar O.D.: 6.750 in.

Gamma Ray: Collar O.D., collar I.D. and K1 factor.

Collar I.D.: 3.125 in.

K1 Factor: 3.167

Run Number: 3 :: RECORDED DATA LOG

WFT Services Provided:

Recorded and Real Time Logging: Gamma Ray and Temperature.

Directional Services: On demand Inclination and Azimuth.

Borehole and Environmental Correction:

Hole Size: 6.125 in.

Gamma Ray: Corrected for mud weight, hole size and KCl concentration.

Mud Weight: 9.35 ppg

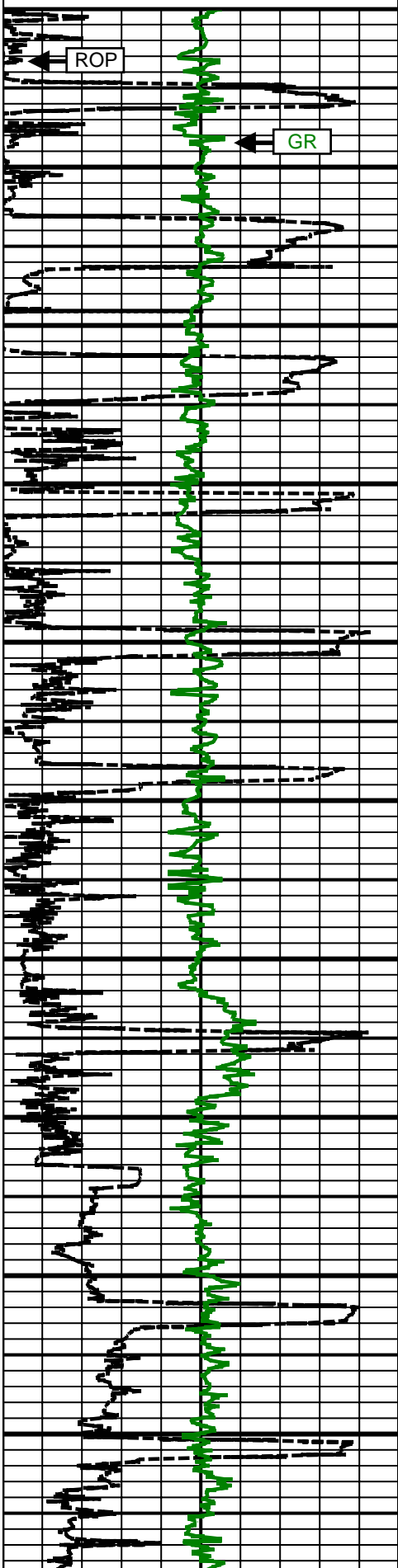
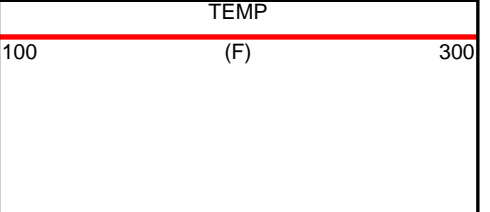
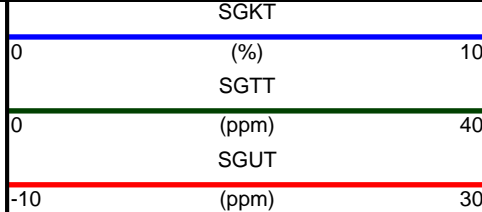
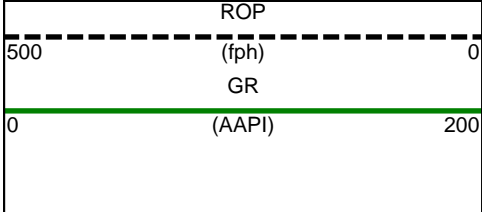
Borehole Temperature: 123° F

KCl Concentration: 0%

M/LWD LOG COMMENTS	
Comment No. 1-1	<p>RECORDED DATA LOG</p> <p>Start of MWD Drilling Run 01</p> <p>Weatherford International provided 6 3/4 in. Directional, Gamma Ray and Temperature for Run 01.</p> <p>Run 01 started formation drilling October 21, 2012 at 14:58 at 3500 MD / 3472 TVD. Weatherford International logged the 8.750 in. borehole.</p> <p>The WBM at the start of drilling was 8.40 ppg.</p>
Comment No. 1-2	<p>End of MWD Drilling Run 01</p> <p>Run 01 ended drilling formation October 22, 2012 at 14:58 at 6400 MD / 6342 TVD.</p> <p>The WBM at the end of drilling was 9.00 ppg.</p>
Comment No. 2-1	<p>RECORDED DATA LOG</p> <p>Start of MWD Drilling Run 02</p> <p>Weatherford International provided 6 3/4 in. Directional, Gamma Ray and Temperature for Run 02.</p> <p>Run 02 started formation drilling October 23, 2012 at 03:11 at 6400 MD / 6342 TVD. Weatherford International logged the 8.750 in. borehole.</p> <p>The WBM at the start of drilling was 9.00 ppg.</p>
Comment No. 2-2	<p>End of MWD Drilling Run 02</p> <p>Run 02 ended drilling formation October 24, 2012 at 15:59 at 7325 MD / 6926 TVD.</p> <p>The WBM at the end of drilling was 10.10 ppg.</p>
Comment No. 3-1	<p>RECORDED DATA LOG</p> <p>Start of LWD Drilling Run 03</p> <p>Weatherford International provided 4 3/4 in. Directional, Gamma Ray, and Temperature for Run 03.</p> <p>Run 03 started formation drilling October 27, 2012 at 02:22 at 7325 MD / 6926 TVD. Weatherford International logged the 6.125 in. borehole.</p> <p>The WBM at the start of drilling was 9.35 ppg.</p>
Comment No. 3-2	<p>End of LWD Drilling Run 03</p> <p>Run 03 ended drilling formation October 29, 2012 at 06:10 at 11479 MD / 6897 TVD.</p> <p>The WBM at the end of drilling was 9.80 ppg.</p>

CURVE SPECIFICATIONS				
CURVE TYPE	MNEMONIC	UNITS	COMMENTS	CORRECTIONS
Rate of Penetration	ROP	fph	Rate of Penetration 3.0 ft window 0.5 ft Exponential Smoothing	None
Gamma Ray	GR	AAP1	Gamma Ray 3.0 ft window 0.5 ft Exponential Smoothing	See M/LWD Run Remarks
Potassium Total	SGKT	%	Potassium Concentration 3.0 ft window 0.5 ft Two Stage Smoothing	
Thorium Total	SGTT	ppm	Thorium Concentration 3.0 ft window 0.5 ft Two Stage Smoothing	
Uranium Total	SGUT	ppm	Uranium Concentration 3.0 ft window 0.5 ft Two Stage Smoothing	
Temperature	TEMP	F	Temperature 3.0 ft window 0.5 ft Exponential Smoothing	None

1 Inch - Measured Depth



3500 MD

3600 MD

3700 MD

3800 MD

3900 MD

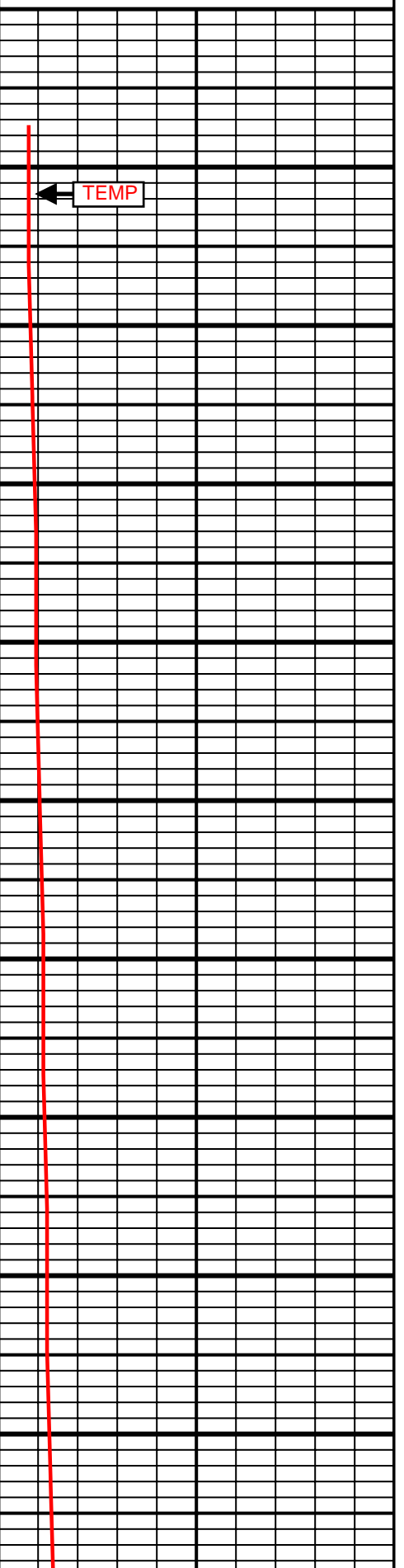
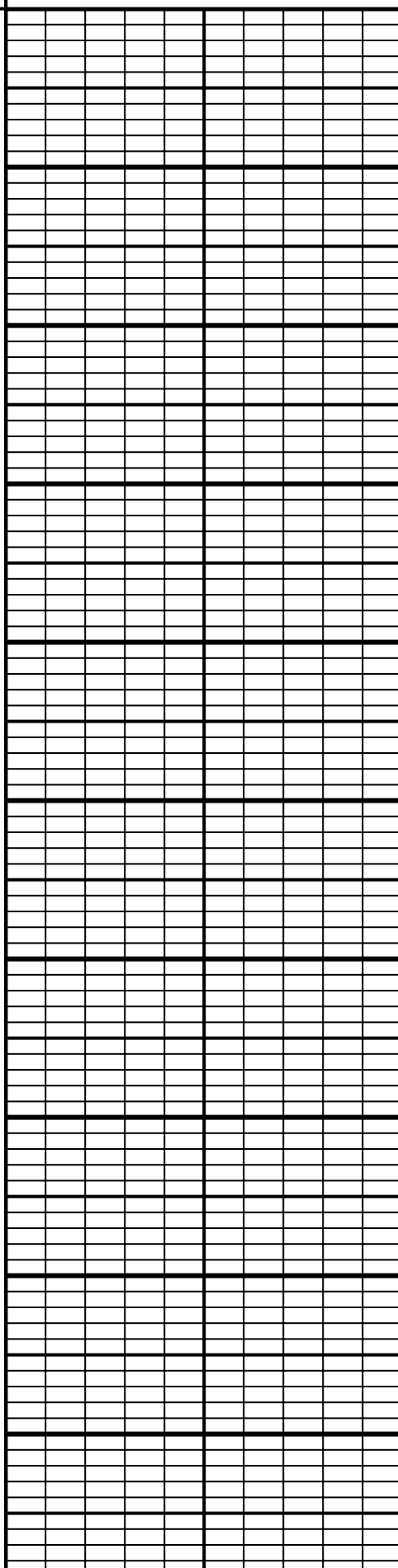
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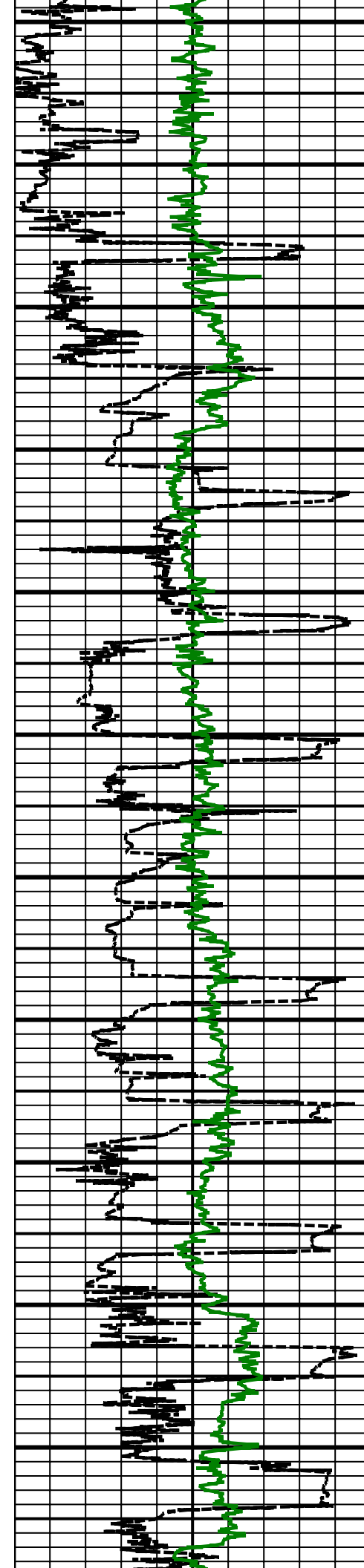
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4200 MD

4300 MD

4400 MD





4500 MD

4600 MD

4700 MD

4800 MD

4900 MD

5000 MD

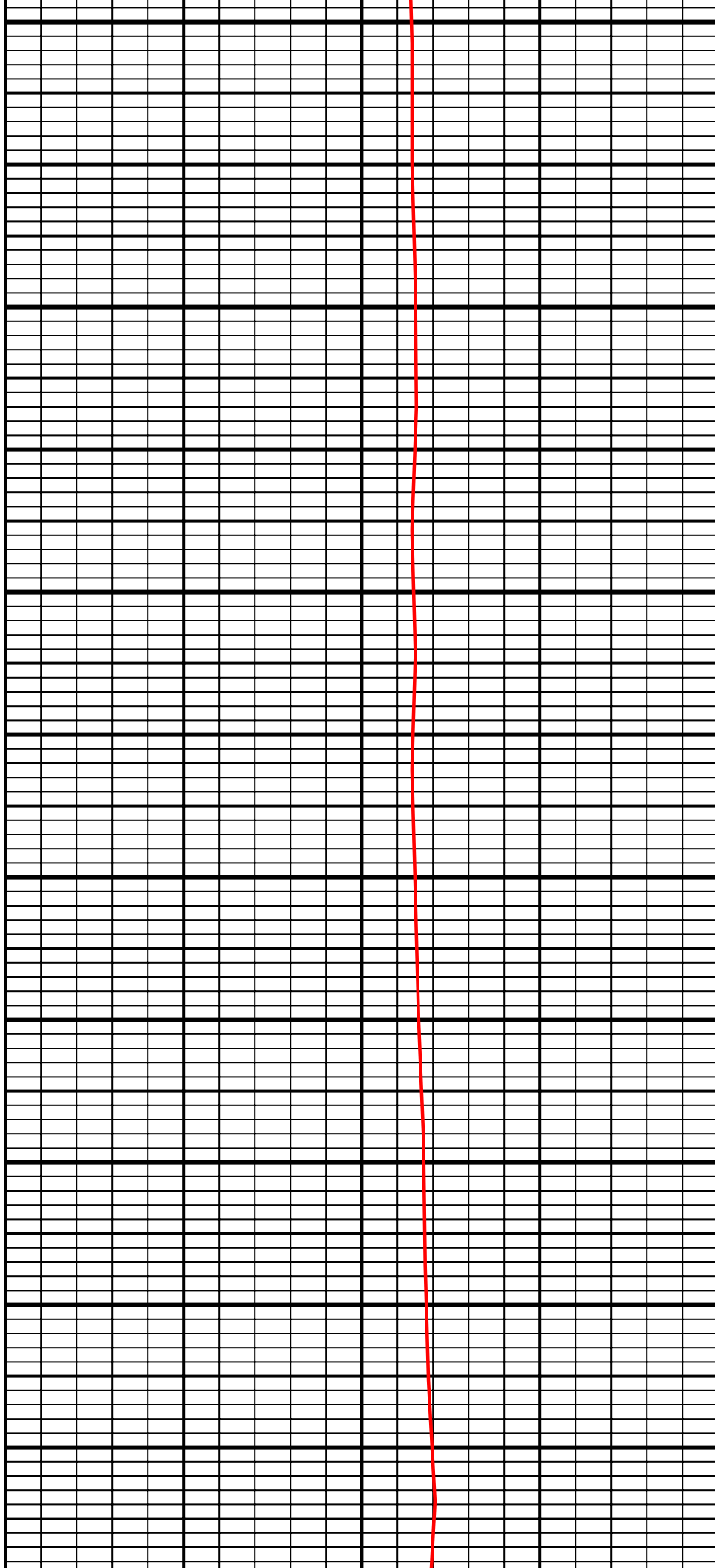
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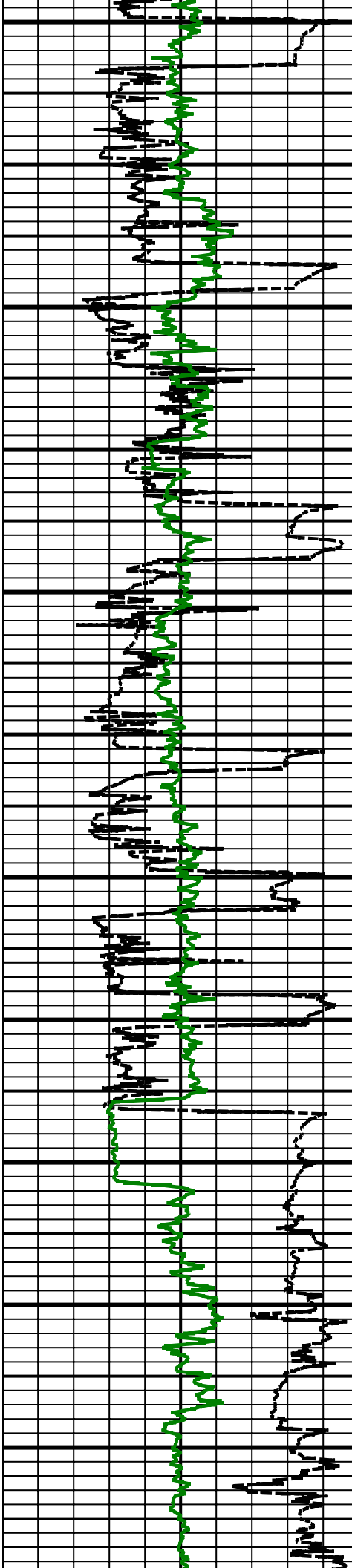
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5300 MD

5400 MD

5500 MD





5600 MD

5700 MD

5800 MD

5900 MD

6000 MD

6100 MD

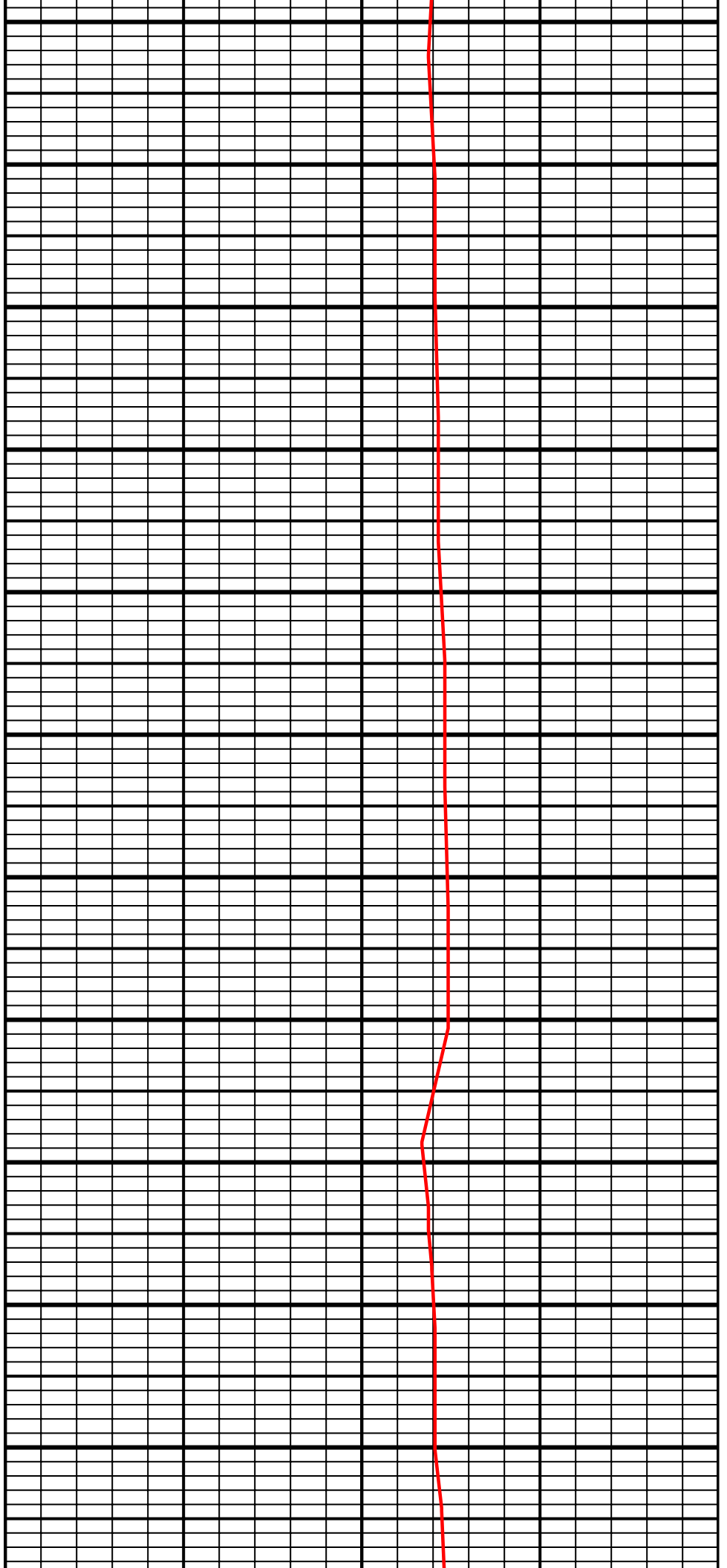
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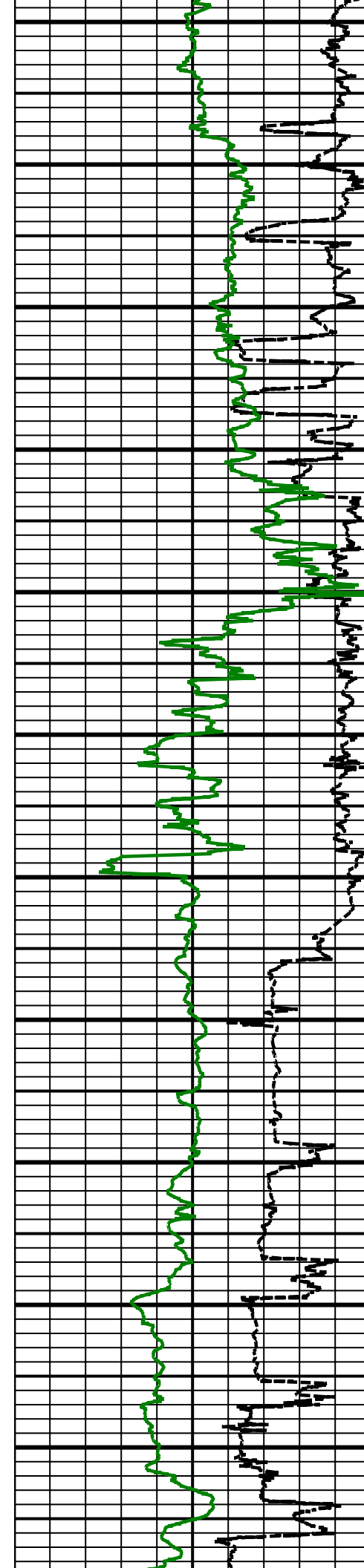
6300 MD

6400 MD

6500 MD

6600 MD





6700 MD

6800 MD

6900 MD

7000 MD

7100 MD

7200 MD

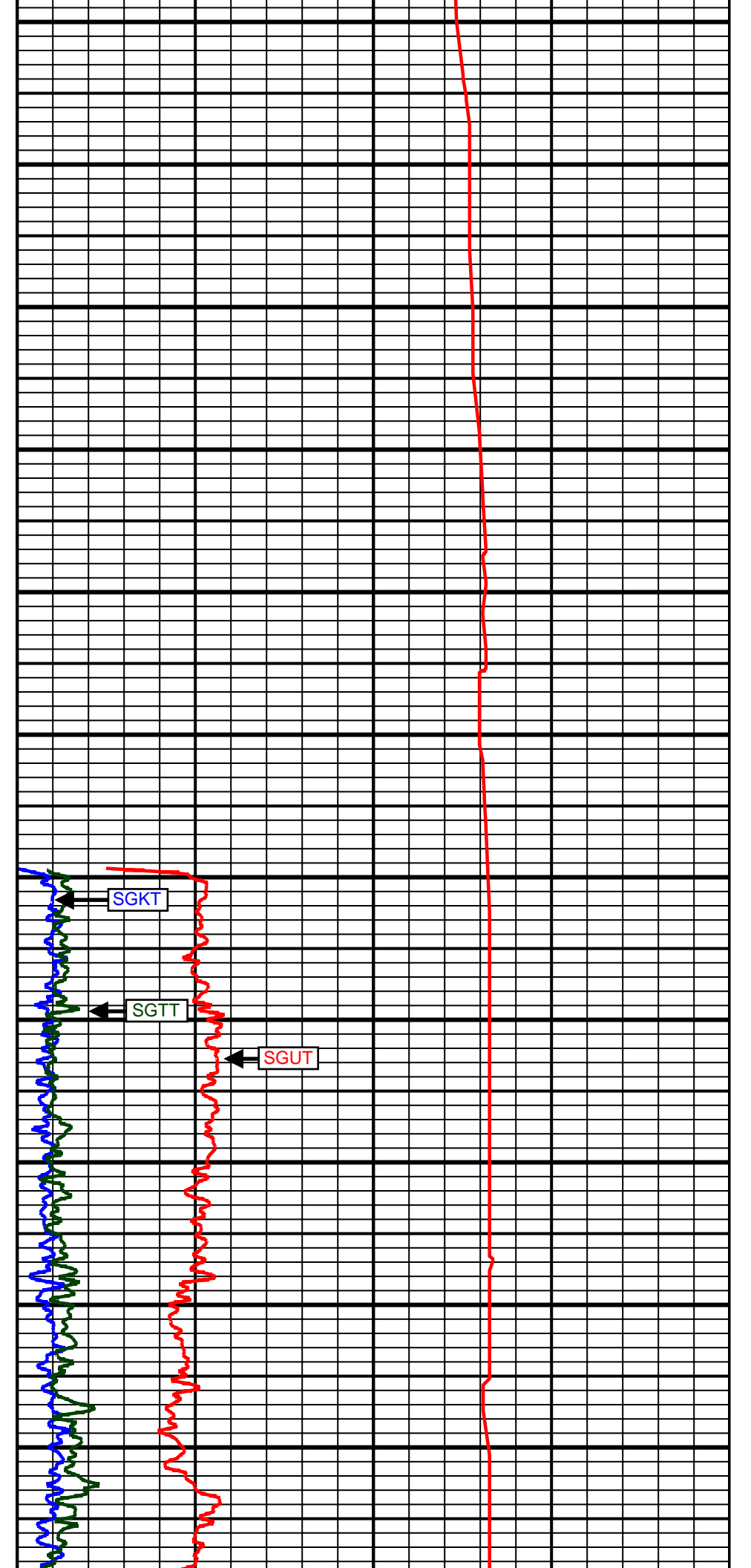
7300 MD

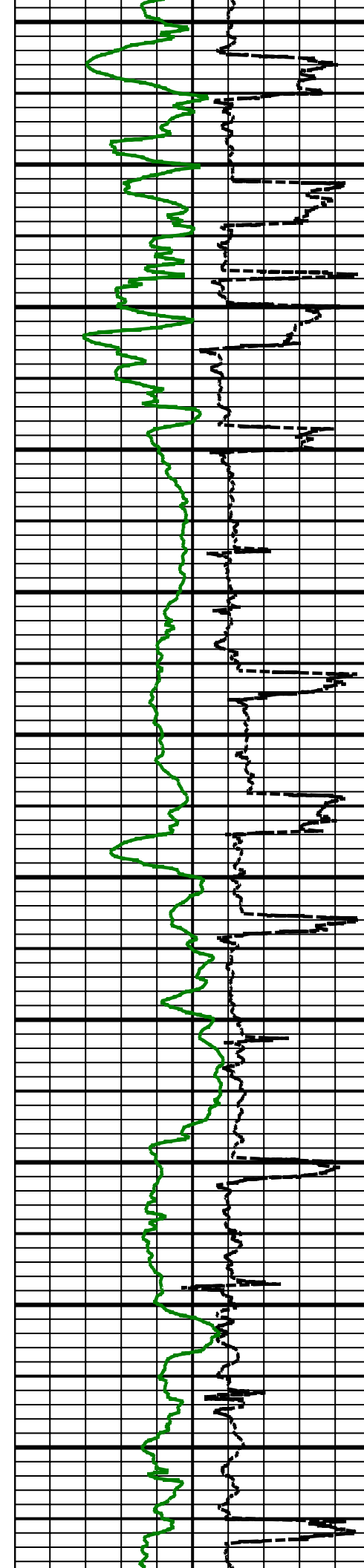
7400 MD

7500 MD

7600 MD

7700 MD





7800 MD

7900 MD

8000 MD

8100 MD

8200 MD

8300 MD

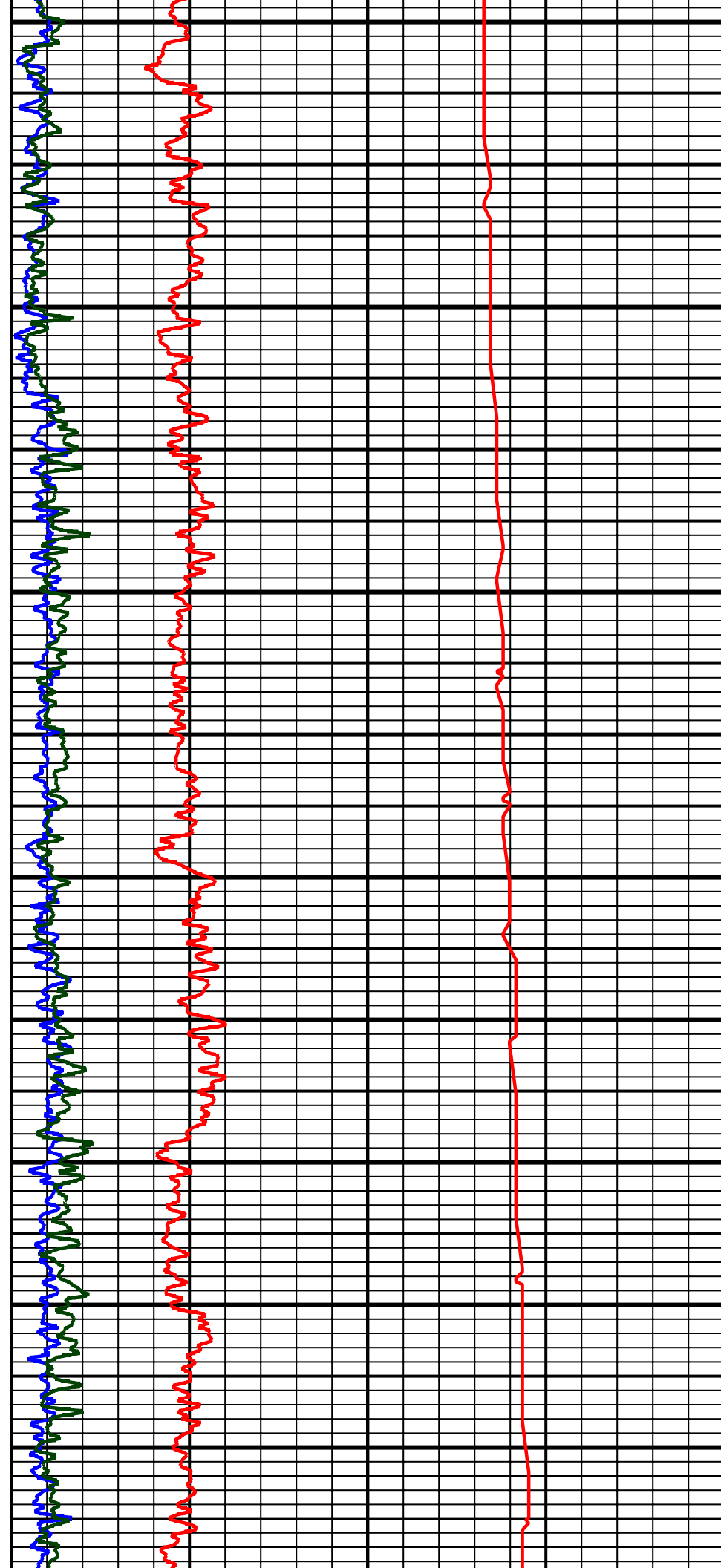
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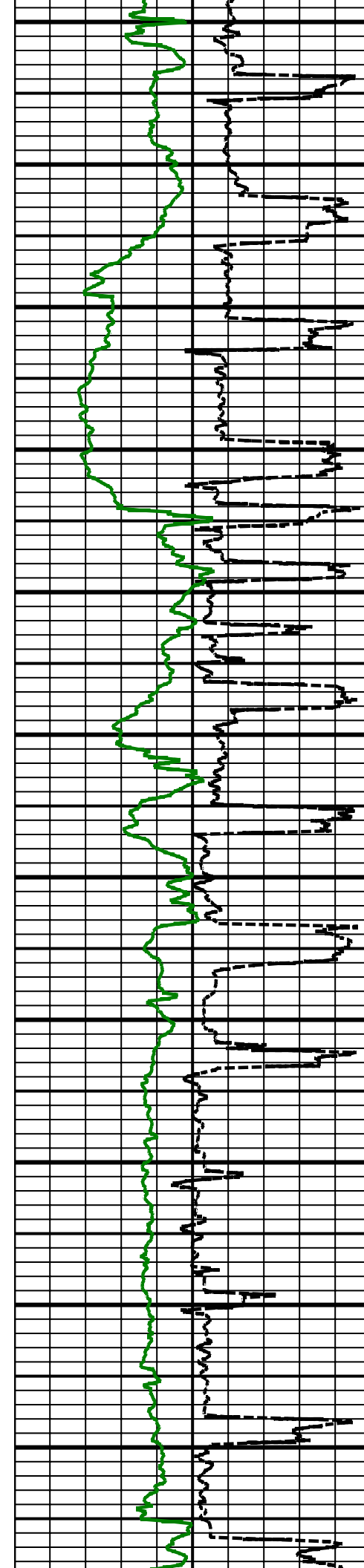
8500 MD

8600 MD

8700 MD

8800 MD





8900 MD

9000 MD

9100 MD

9200 MD

9300 MD

9400 MD

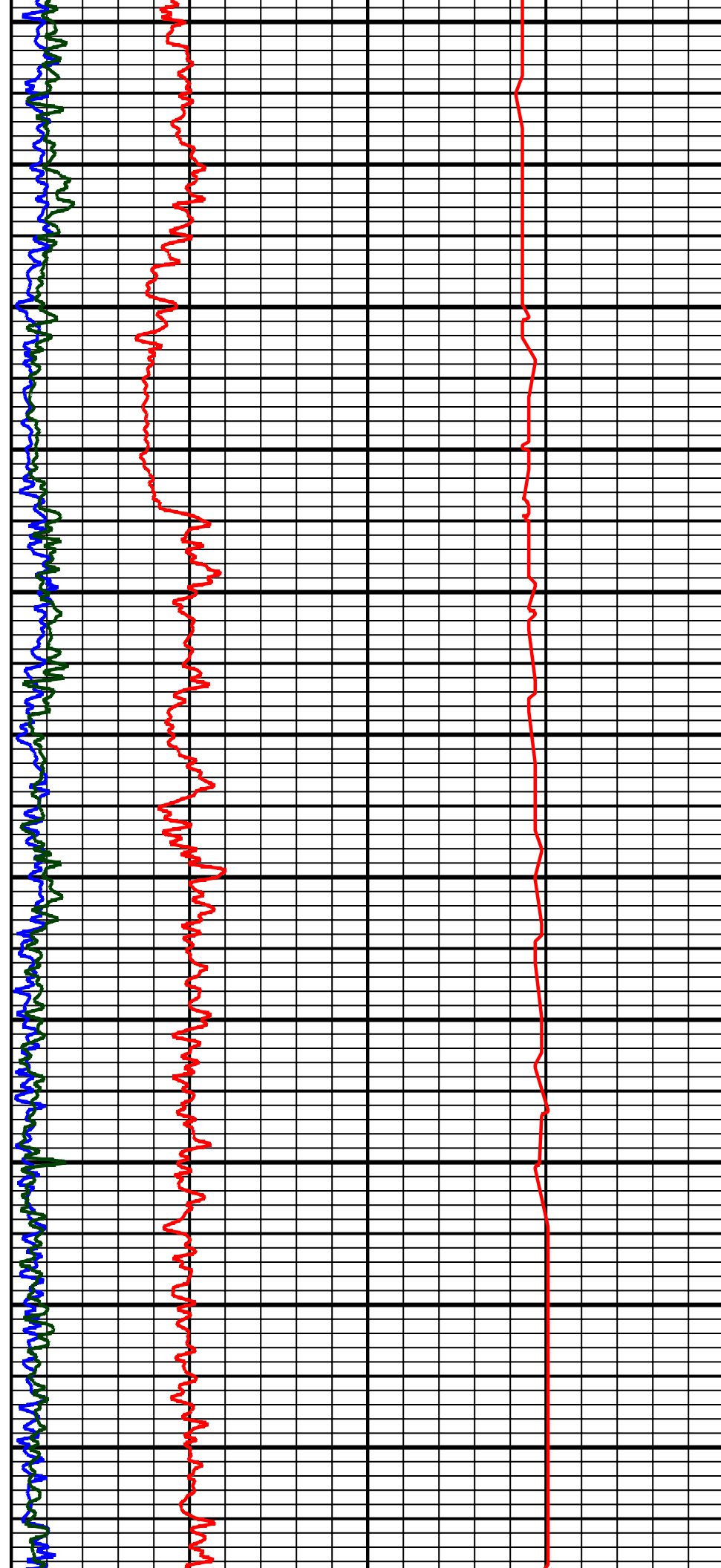
9500 MD

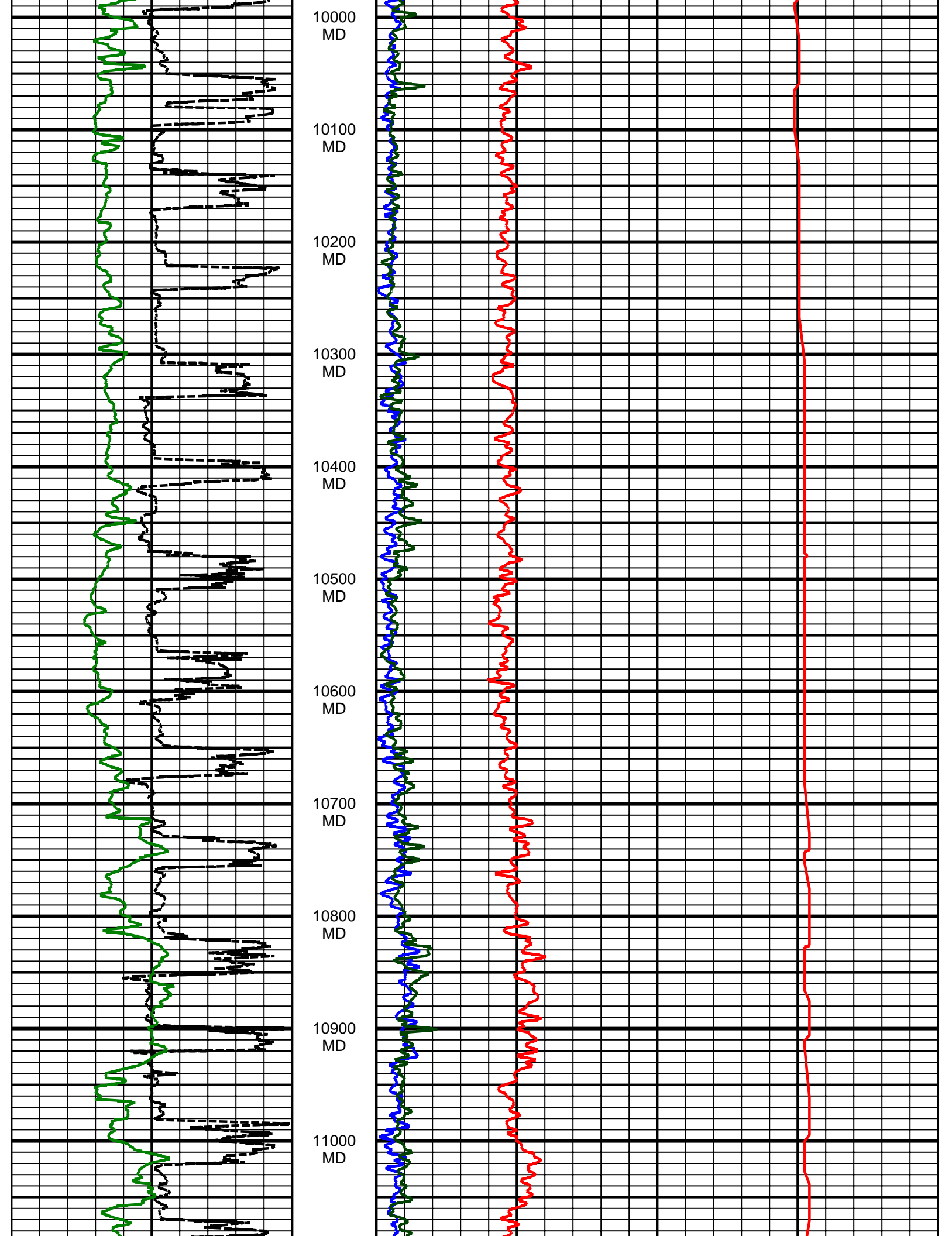
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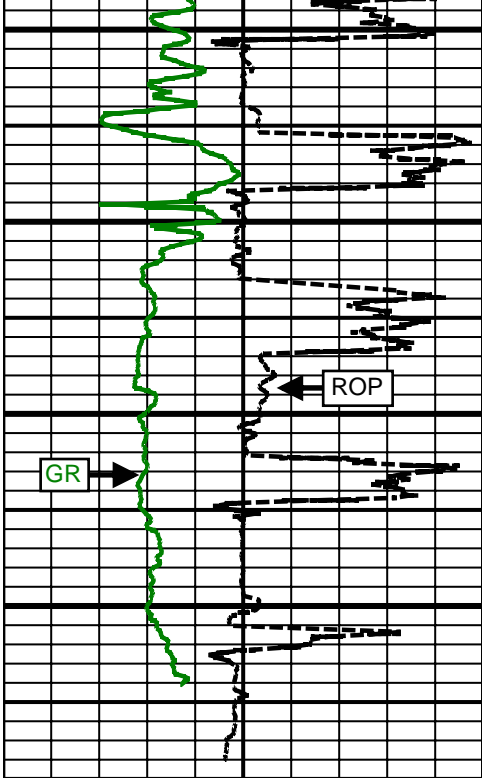
9700 MD

9800 MD

9900 MD



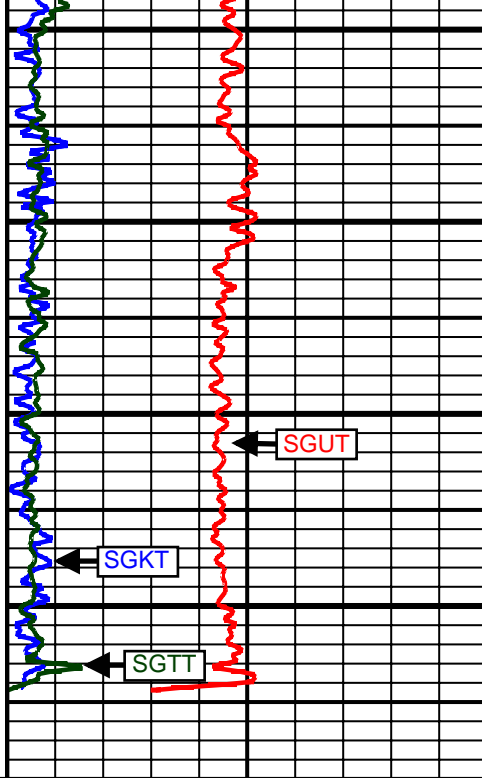
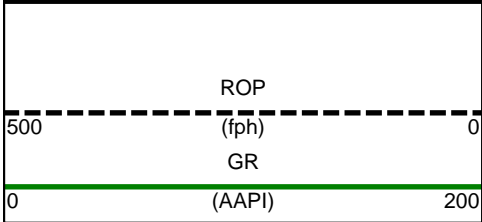




11100 MD
11200 MD
11300 MD
11400 MD

GR

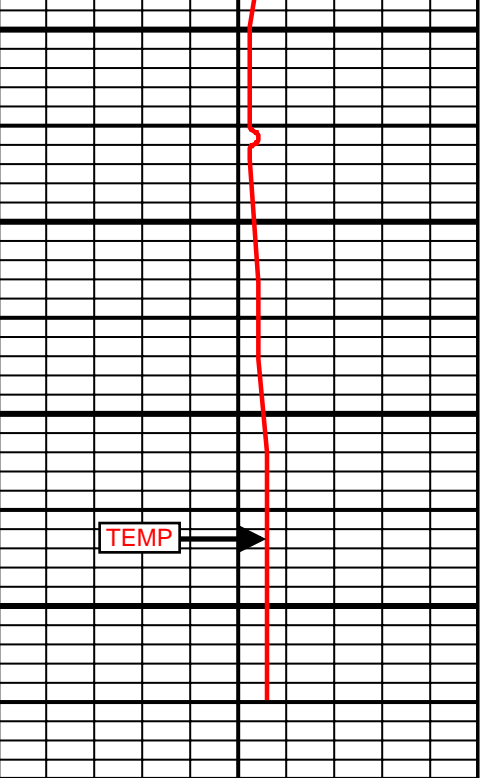
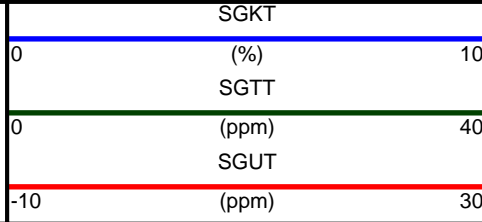
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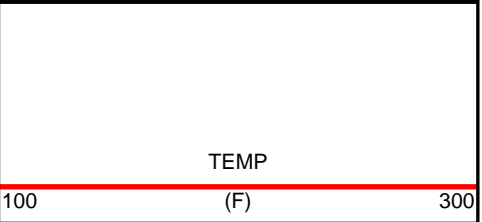
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SGKT

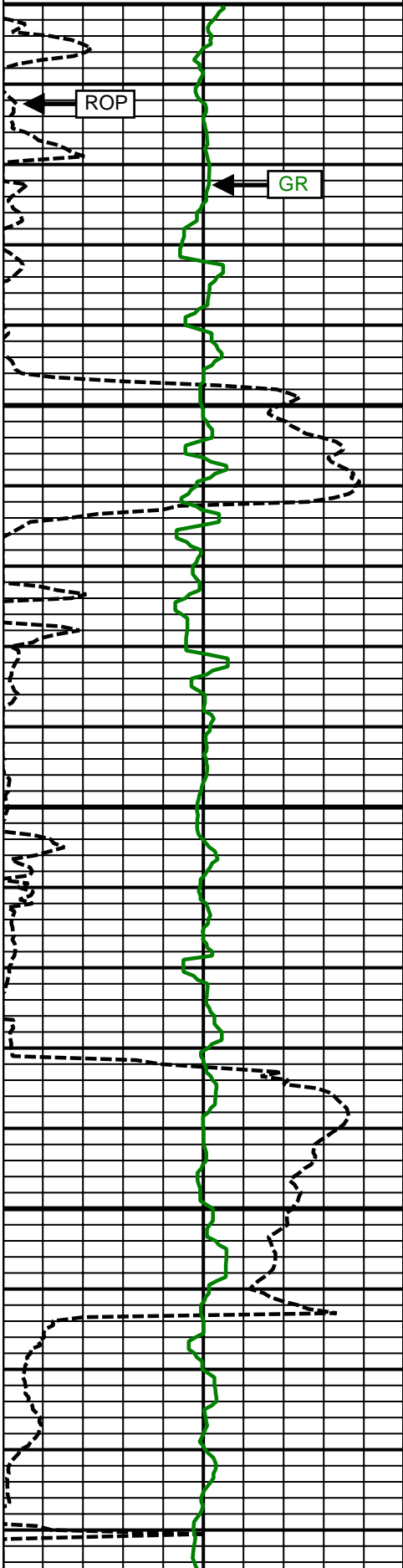
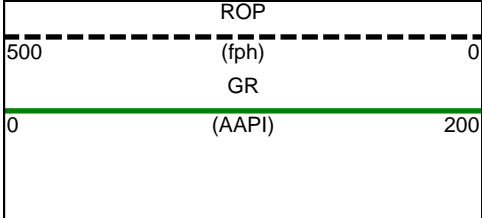
SGTT



TEMP

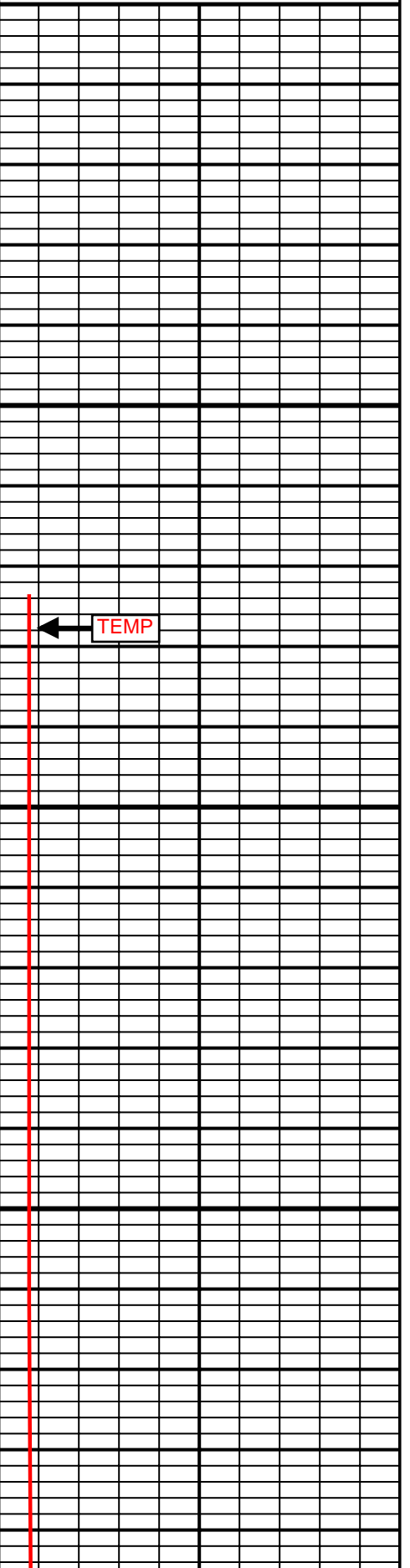
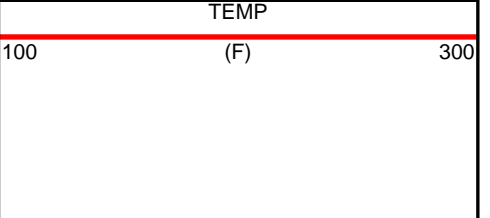
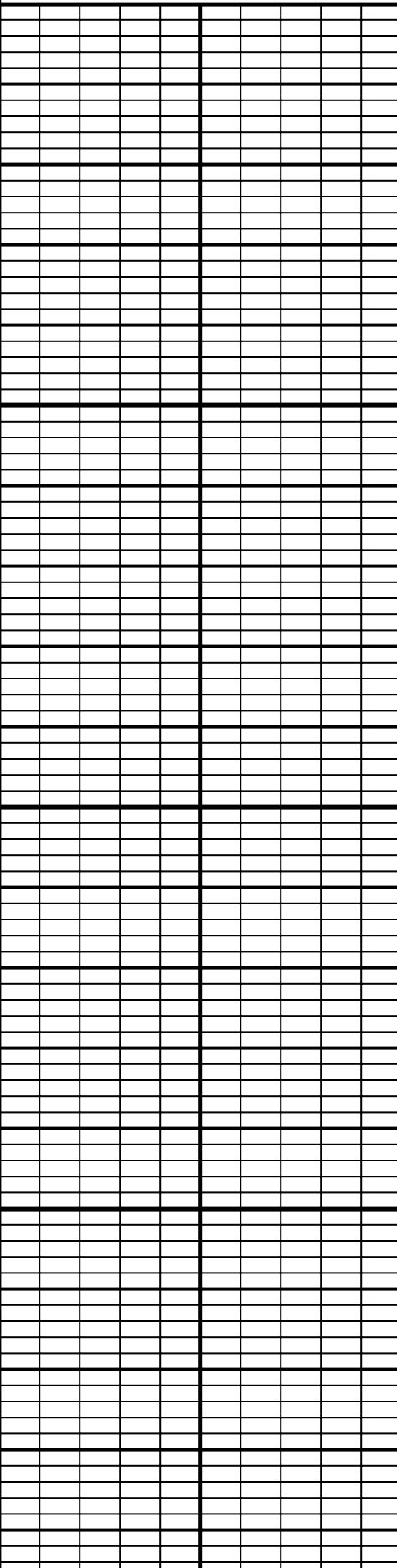
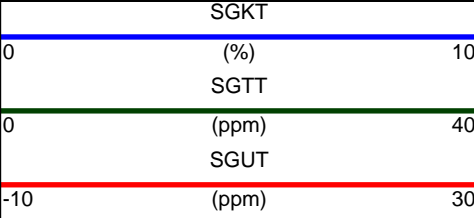


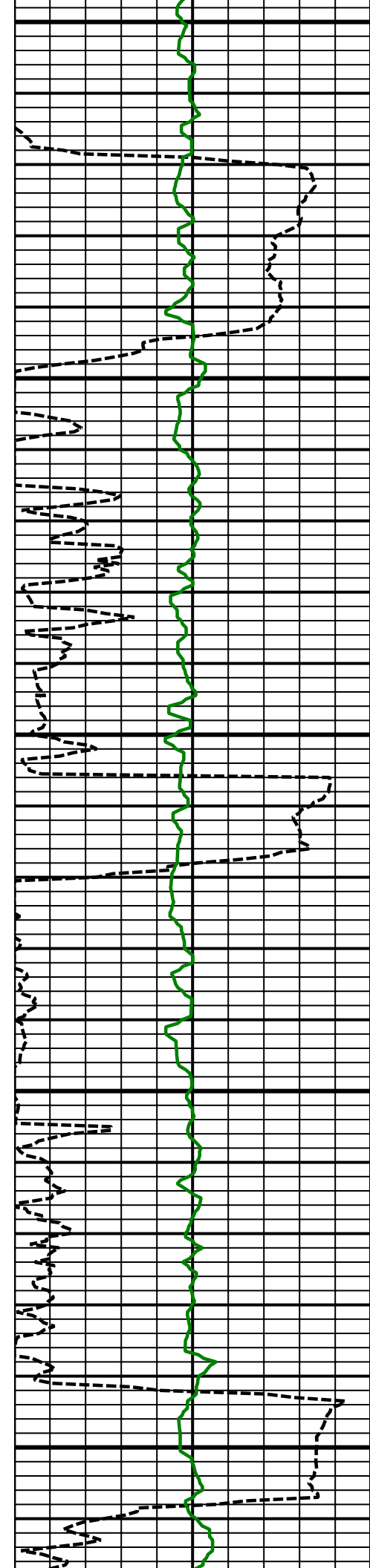
5 Inch - Measured Depth



3500 MD
Comment 1-1

3600 MD

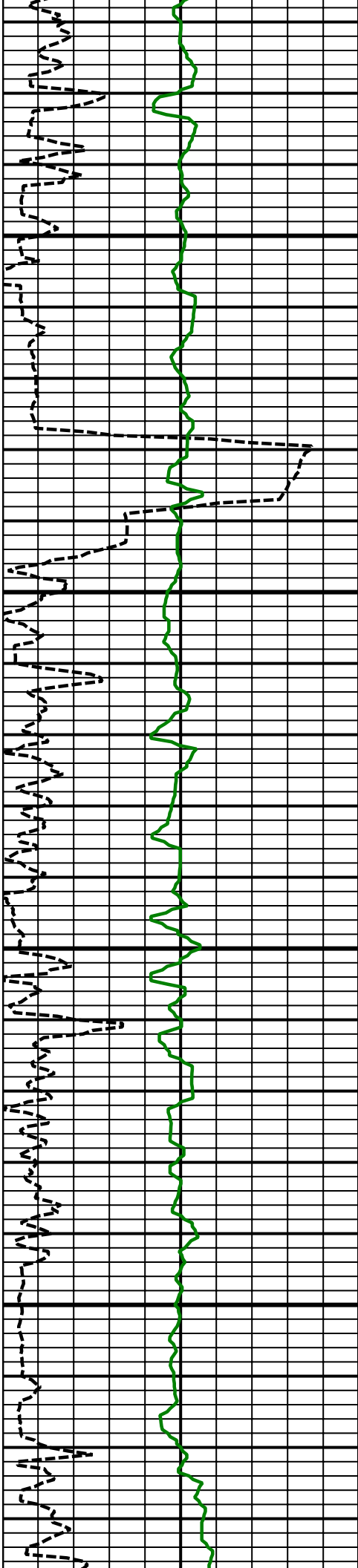




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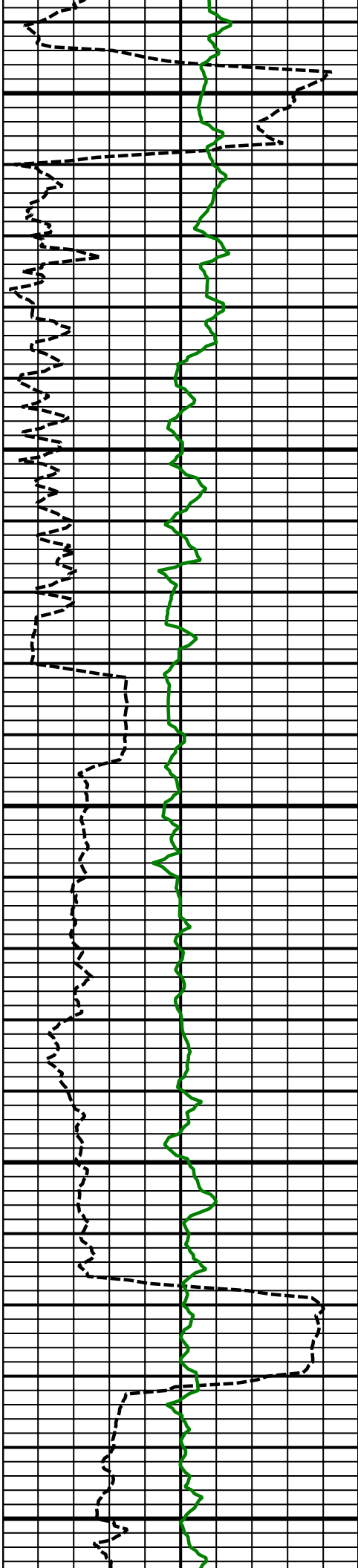
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MD

3900
MD



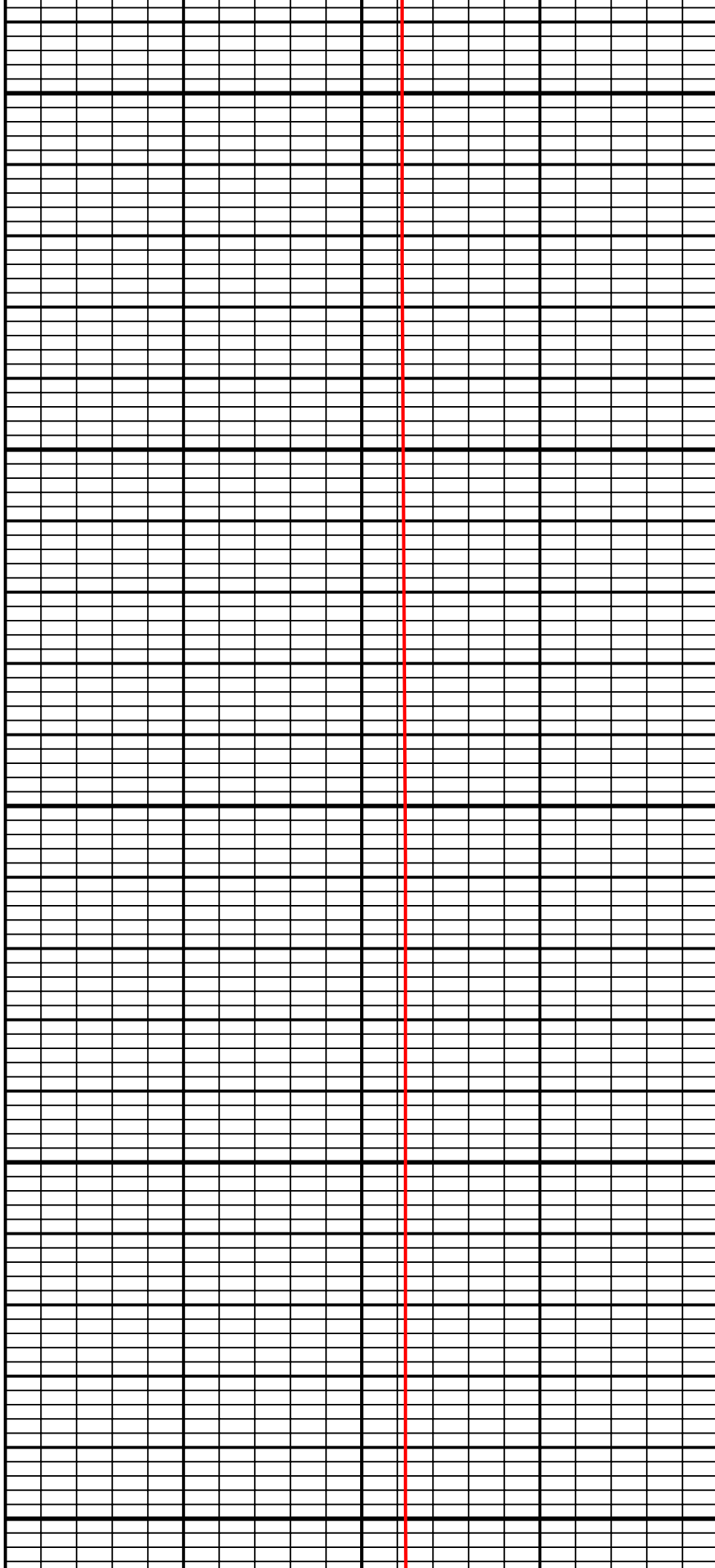
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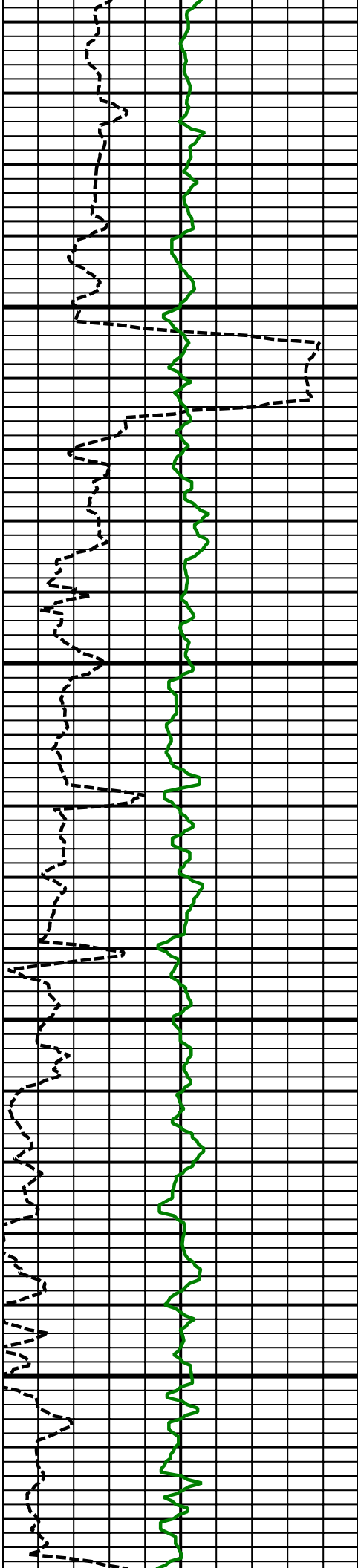
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MD



4200
MD

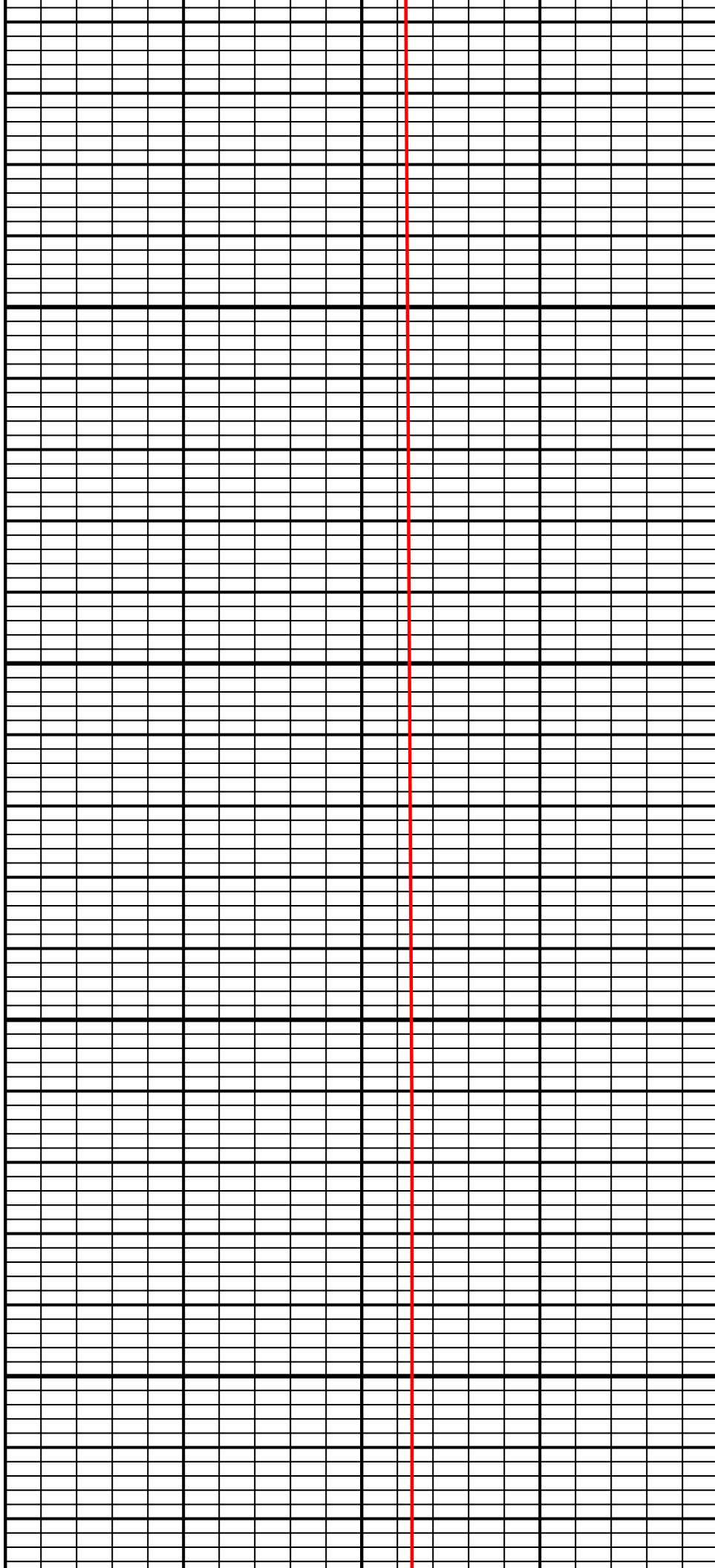
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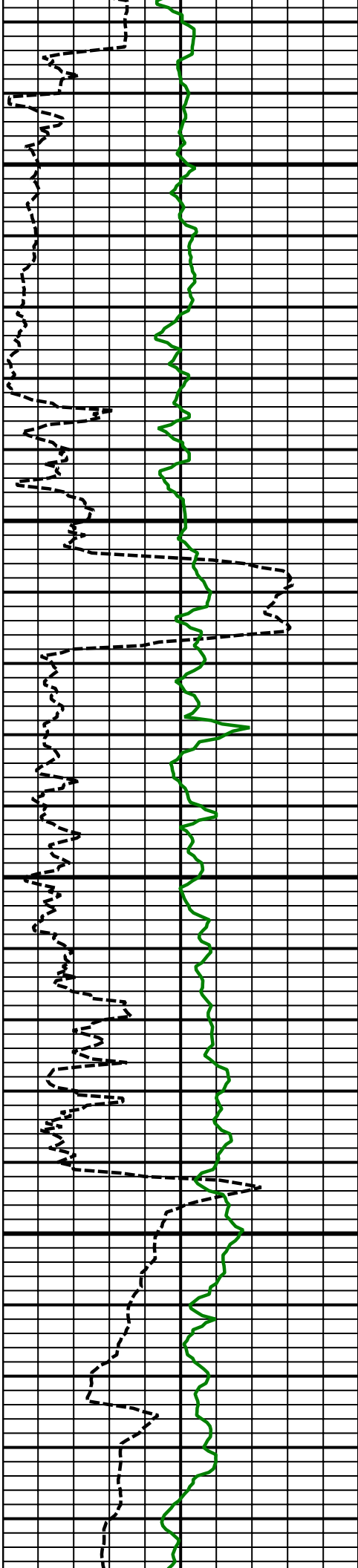




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MD

4500
MD

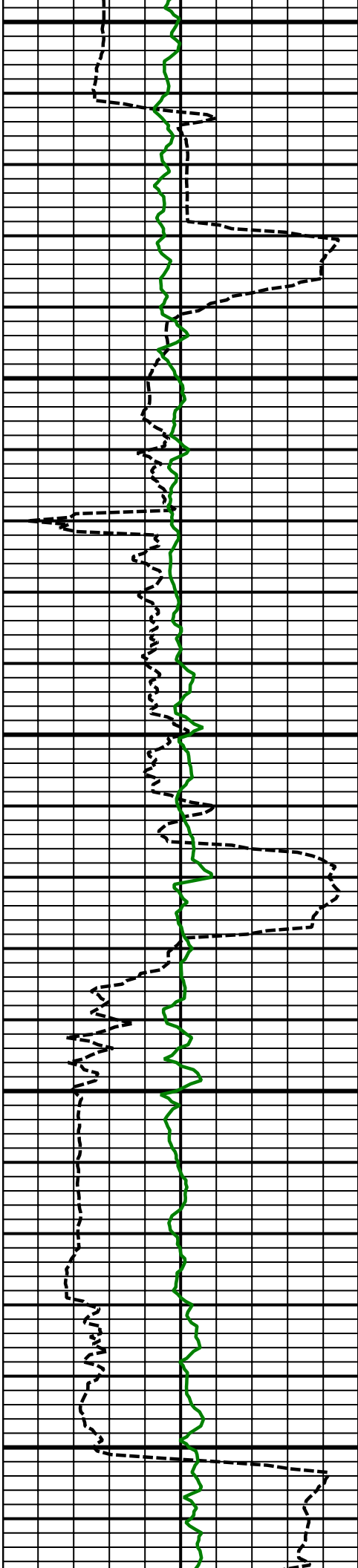




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MD

4700
MD

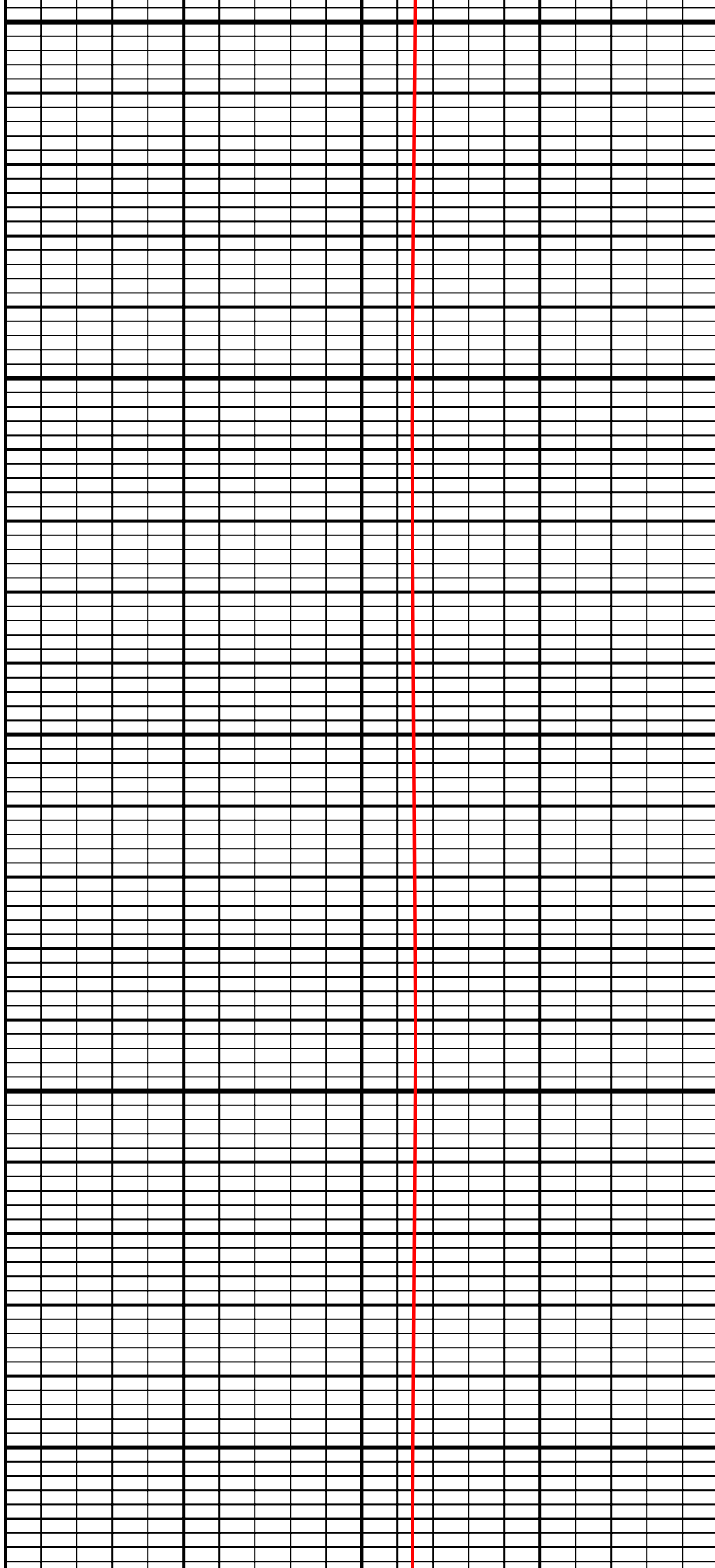
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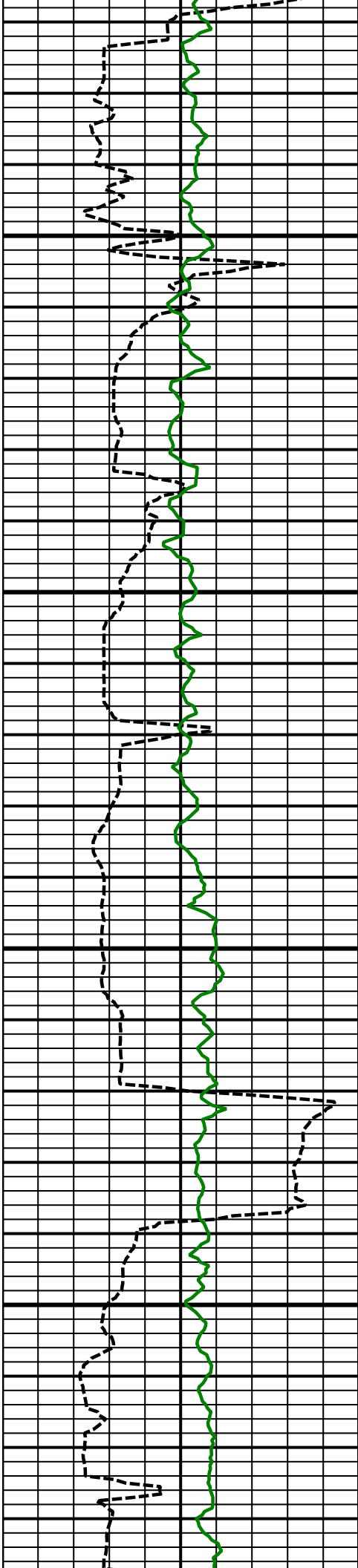


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4900
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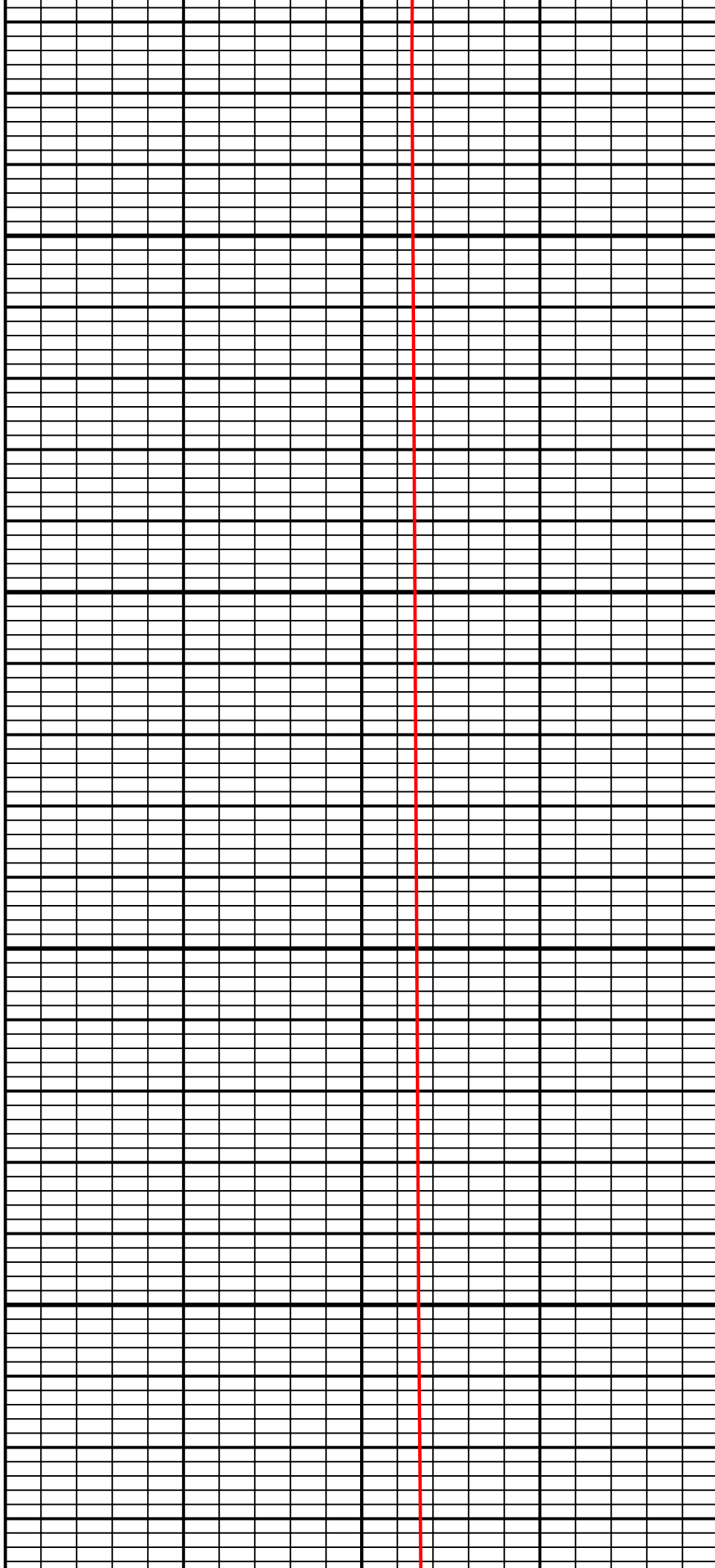
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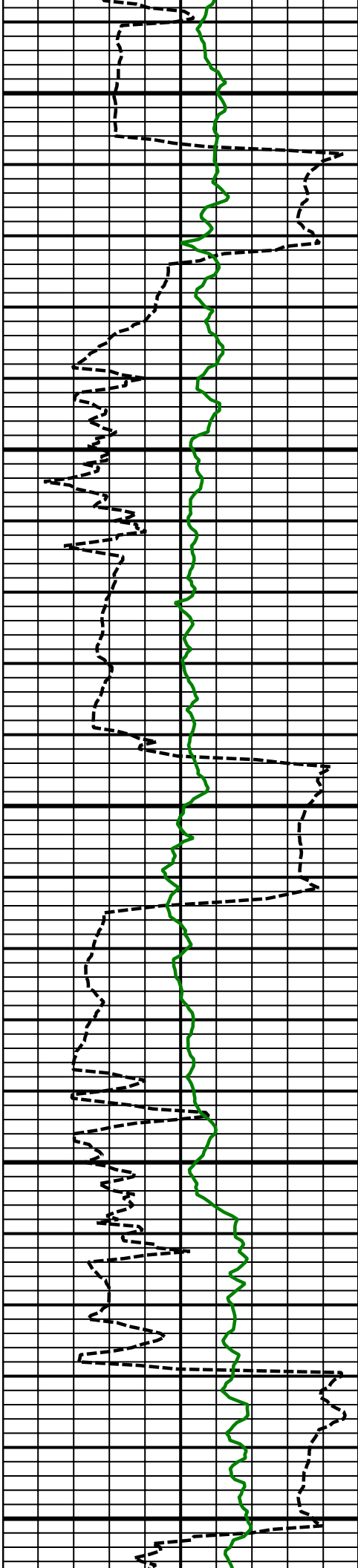




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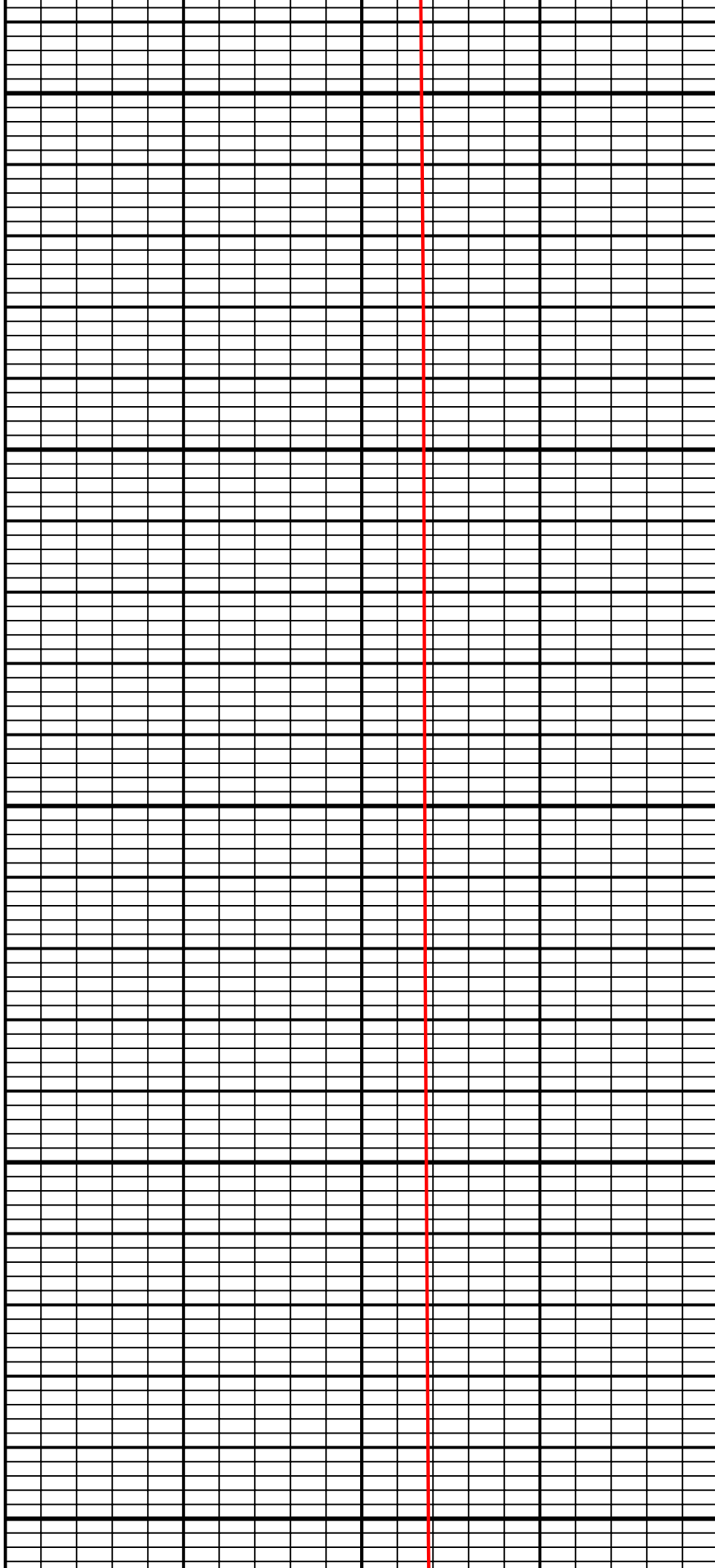
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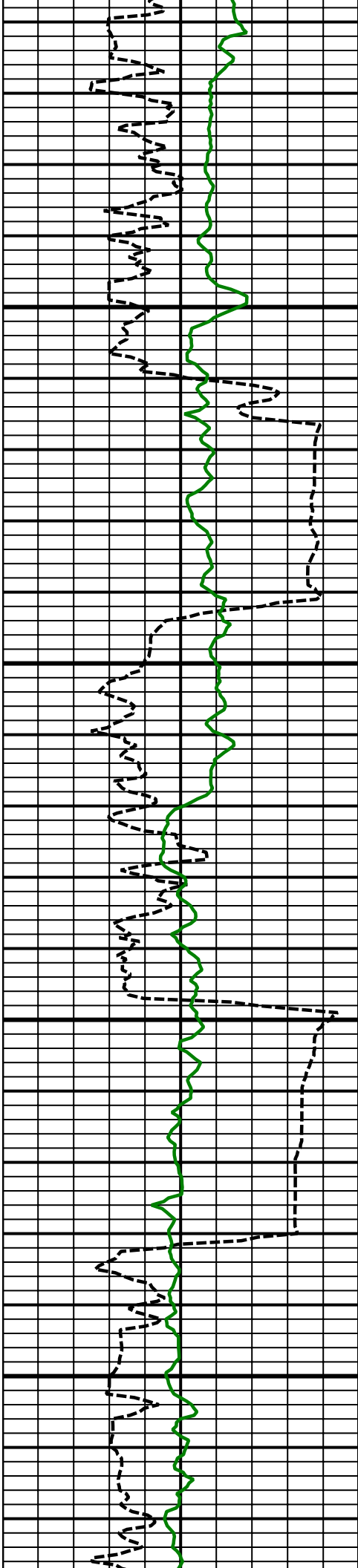




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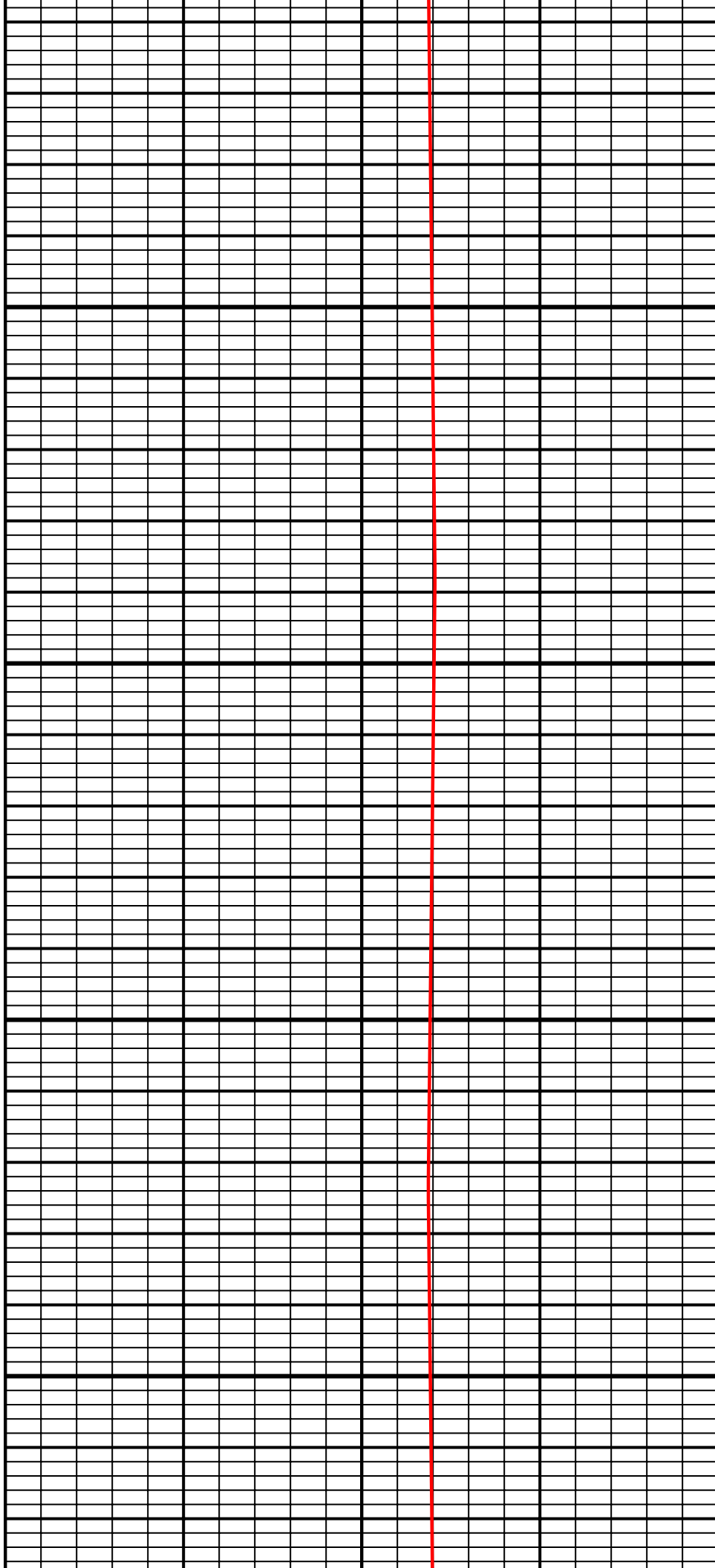
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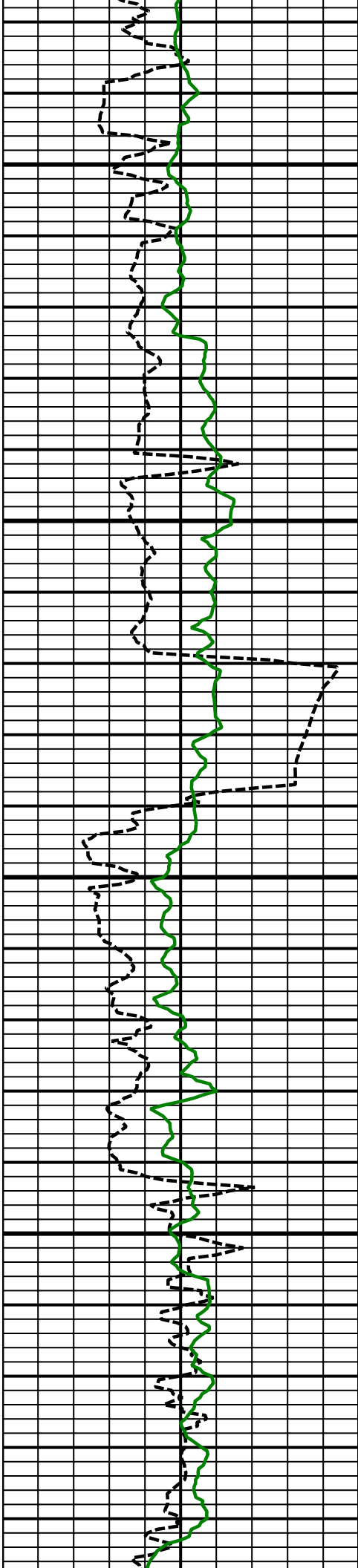




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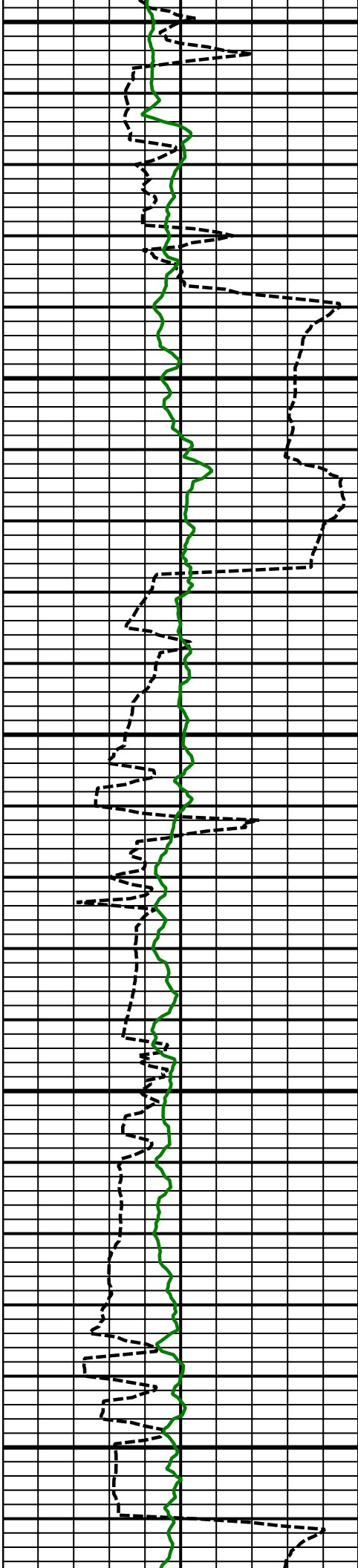
5600
MD





5700
MD

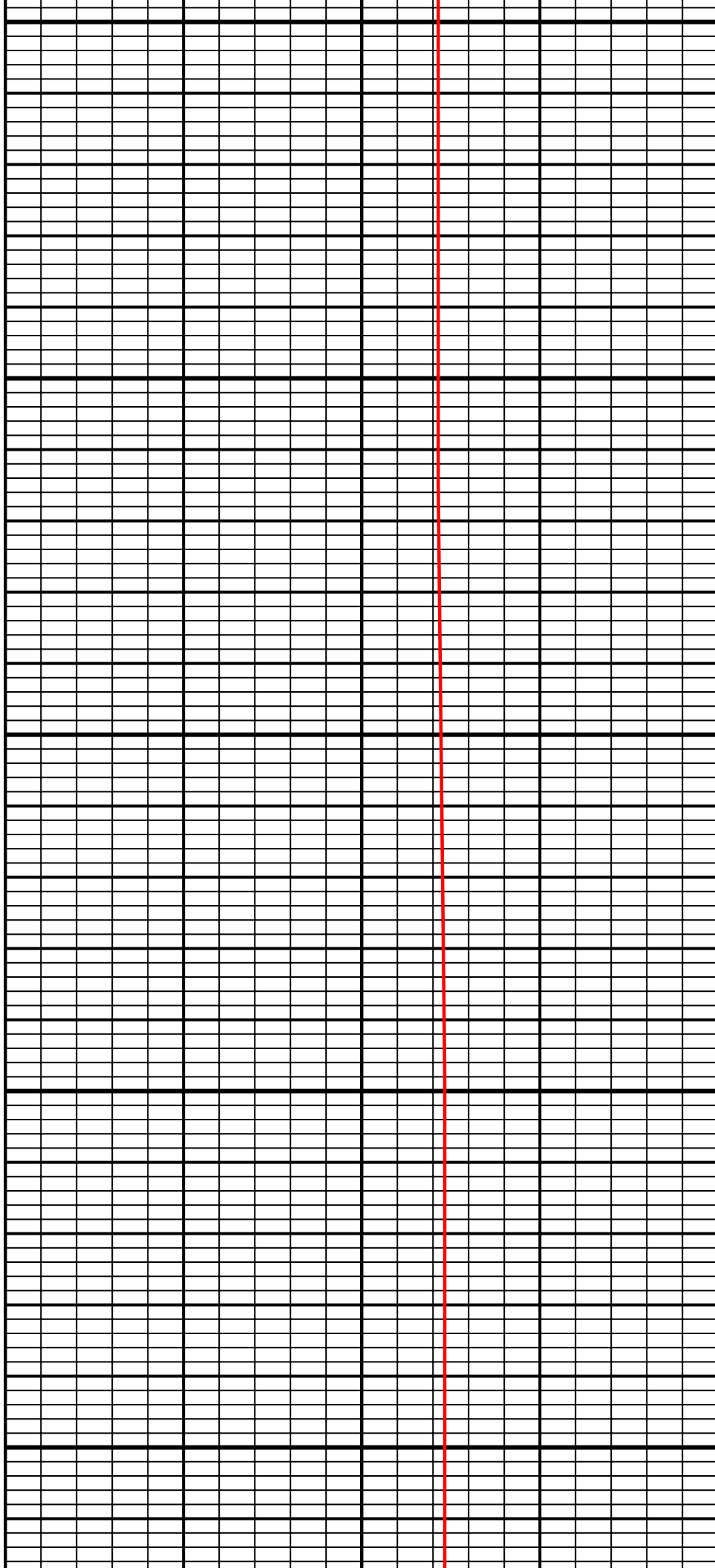
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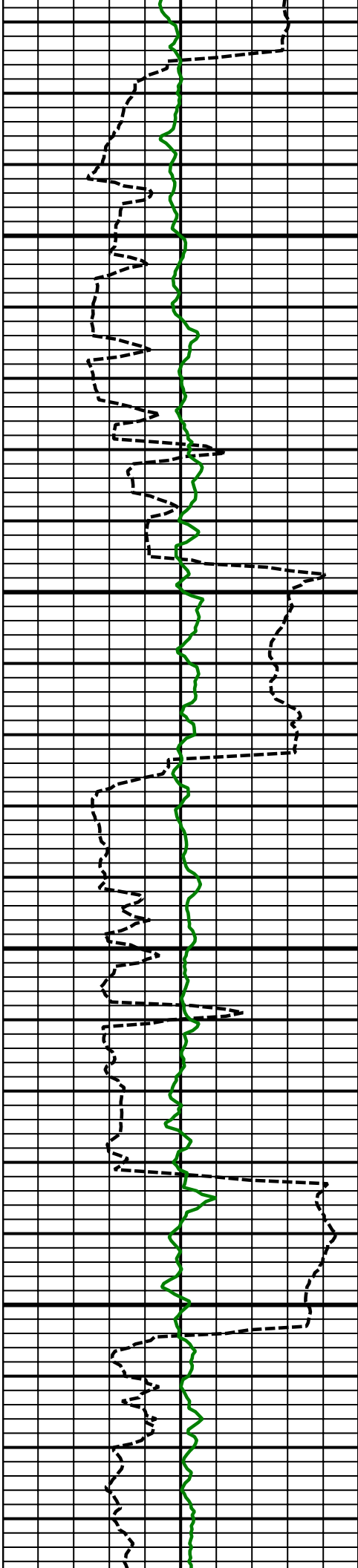


5900
MD

6000
MD

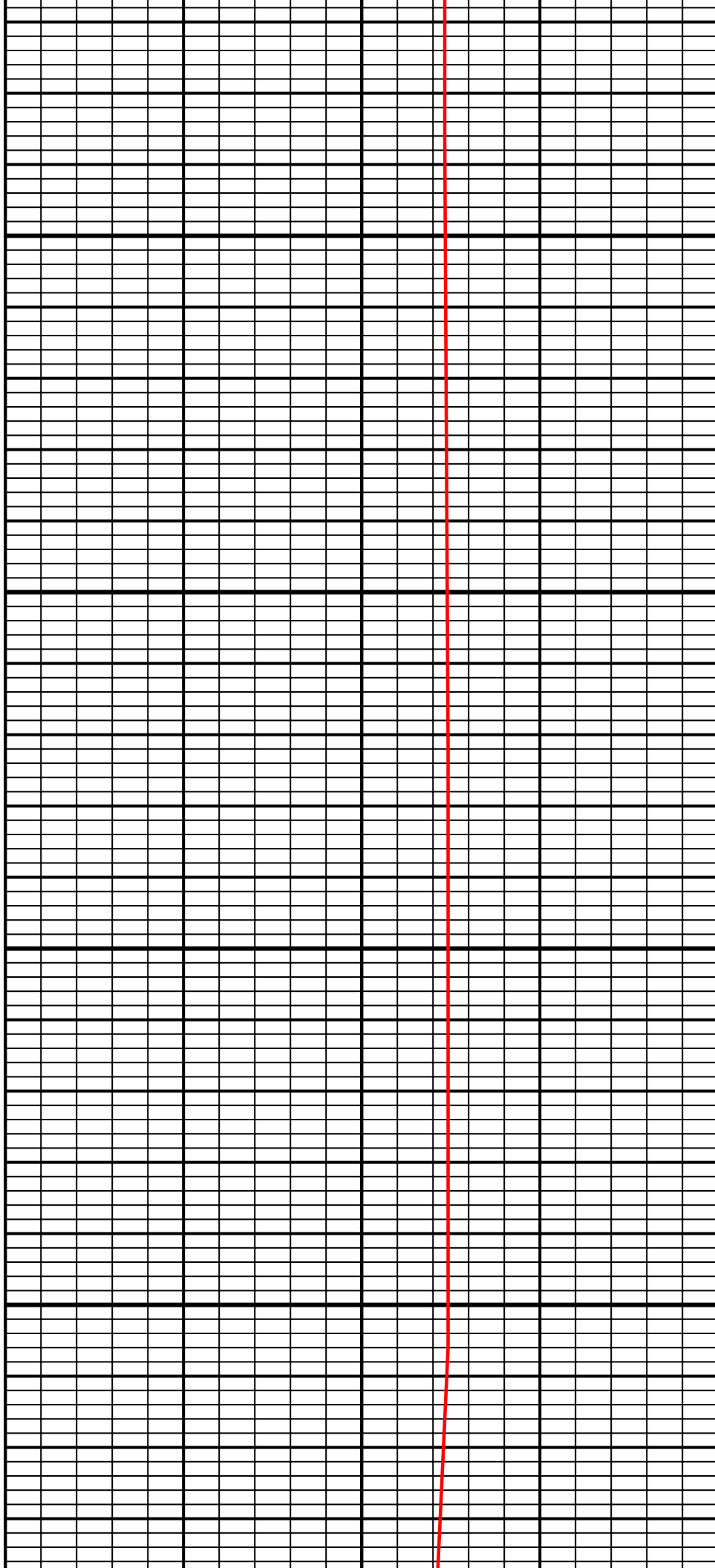
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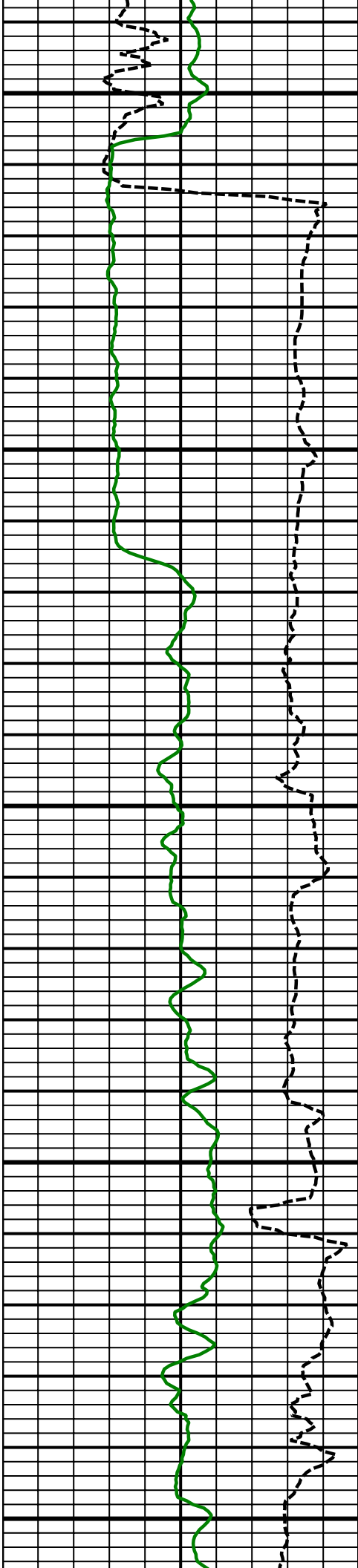




6200
MD

6300
MD



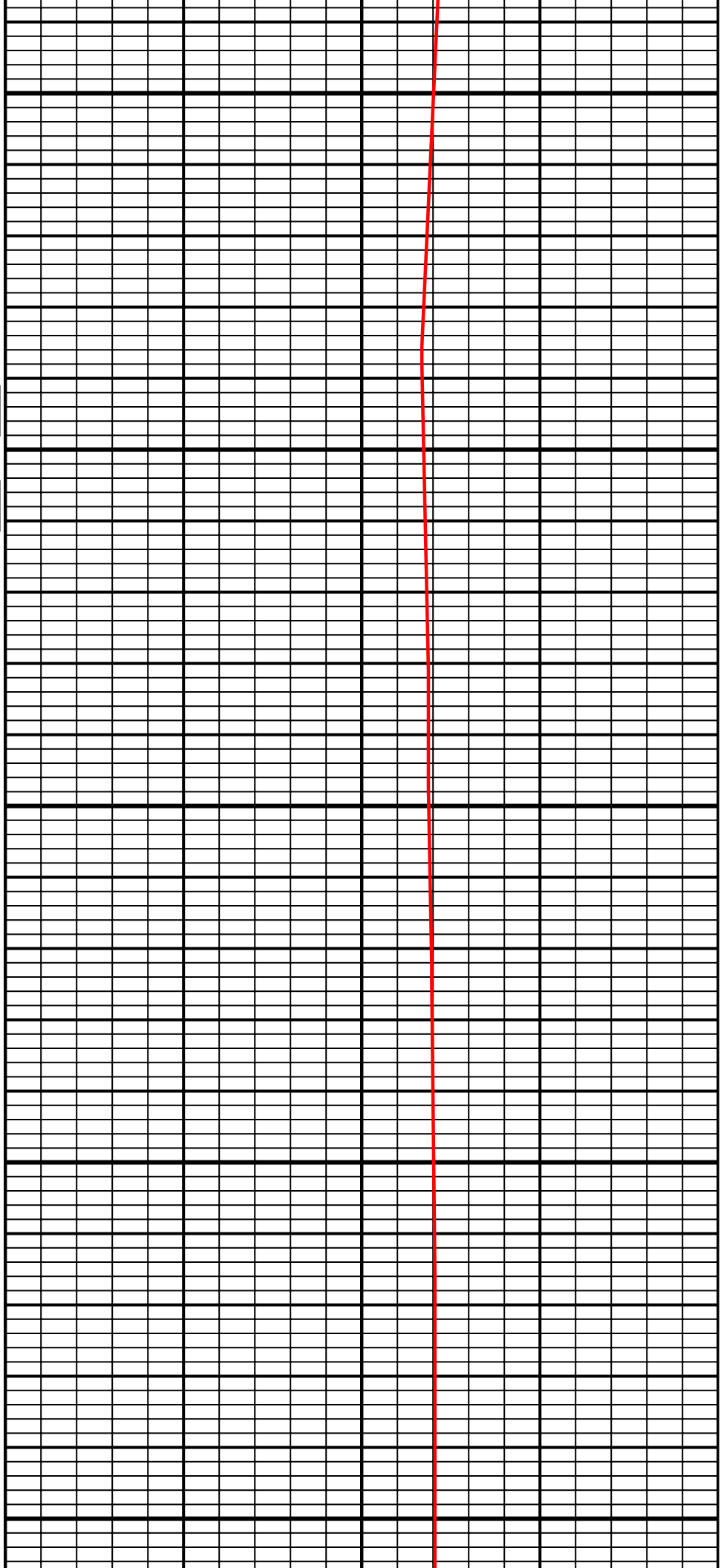


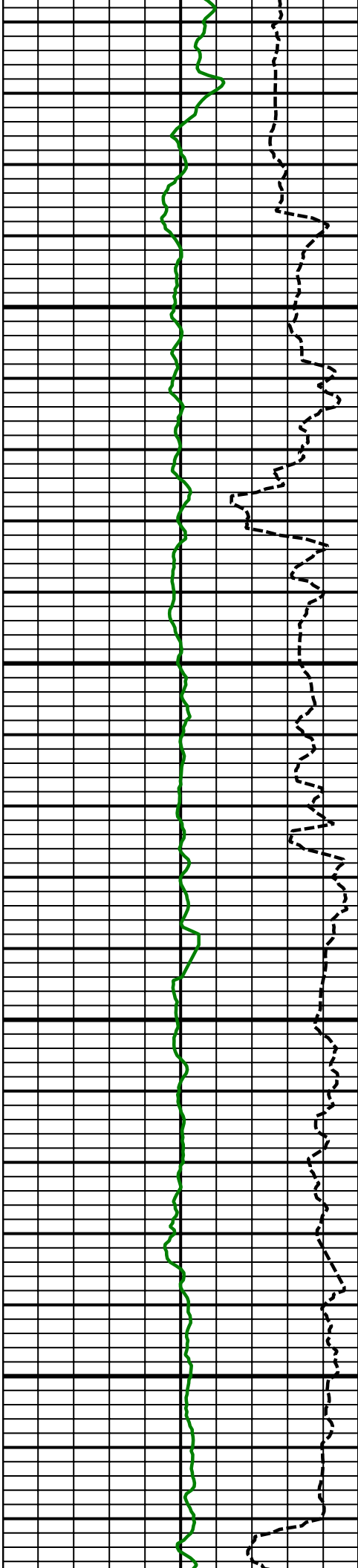
Comment
1-2

6400
MD

Comment
2-1

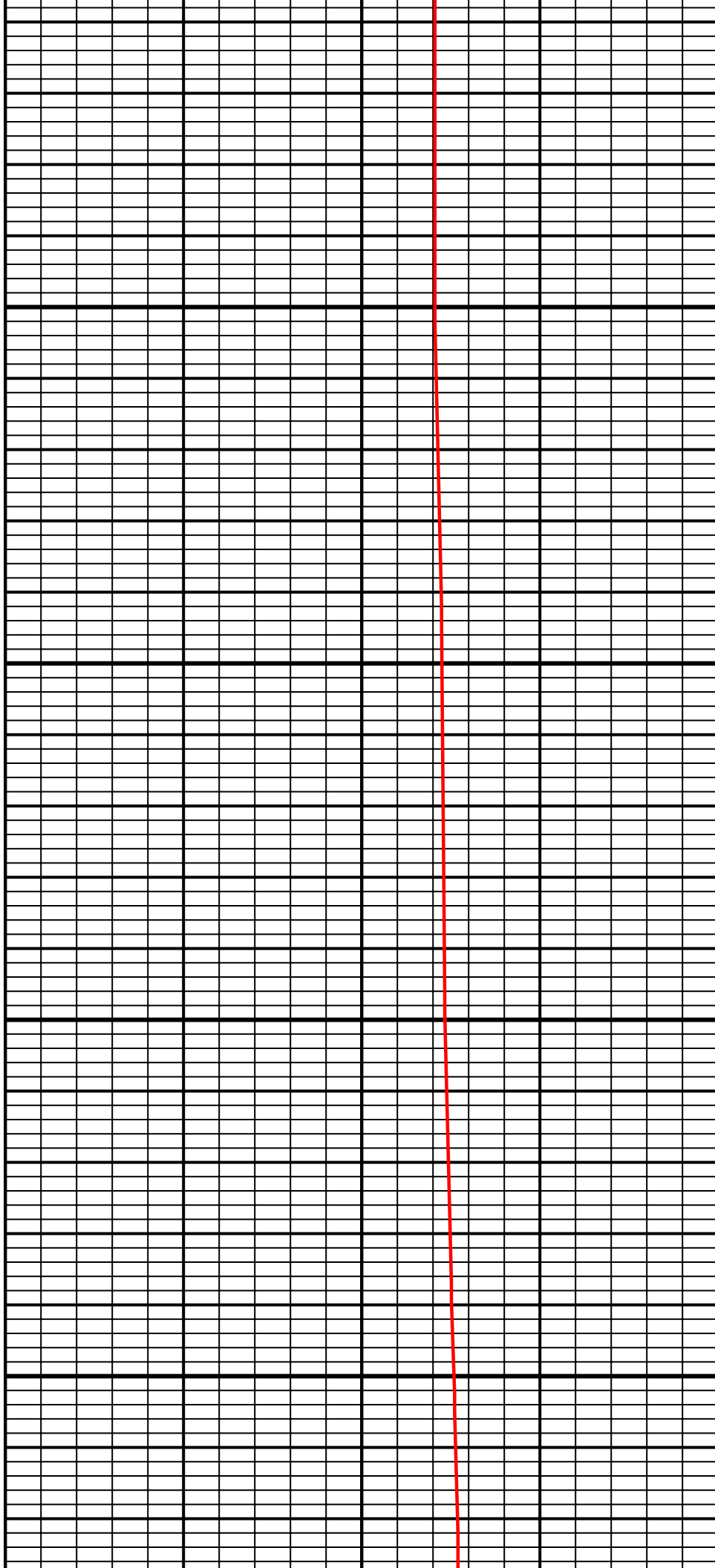
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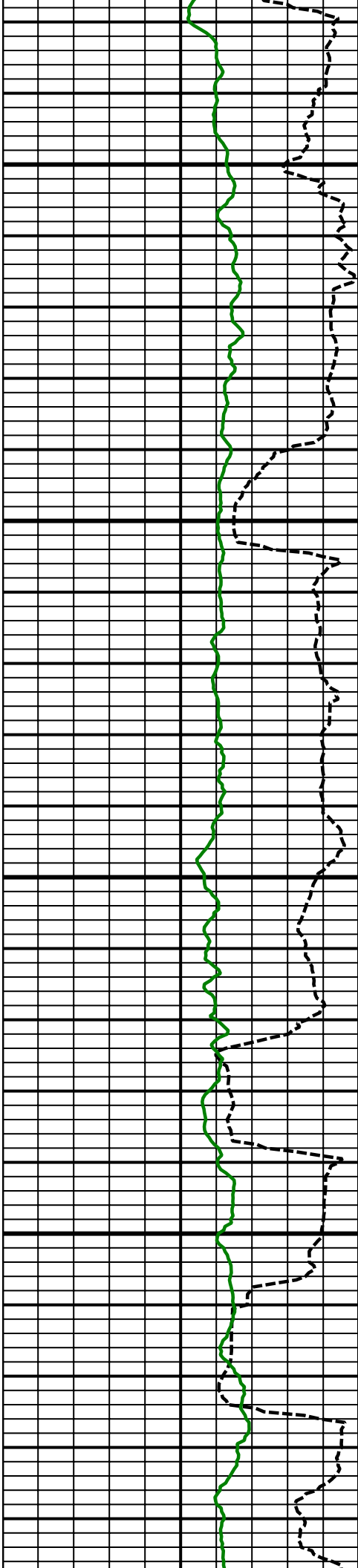




6600
MD

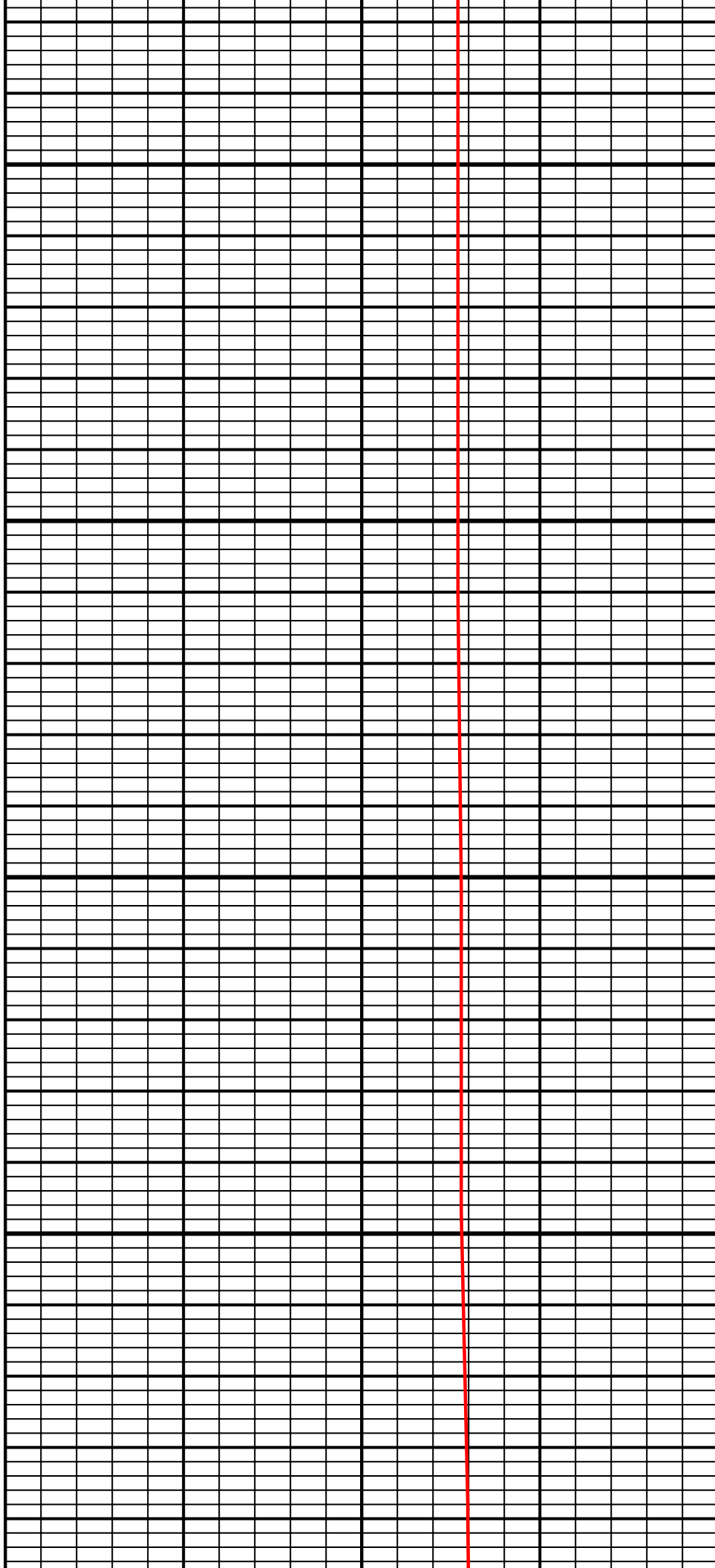
6700
MD

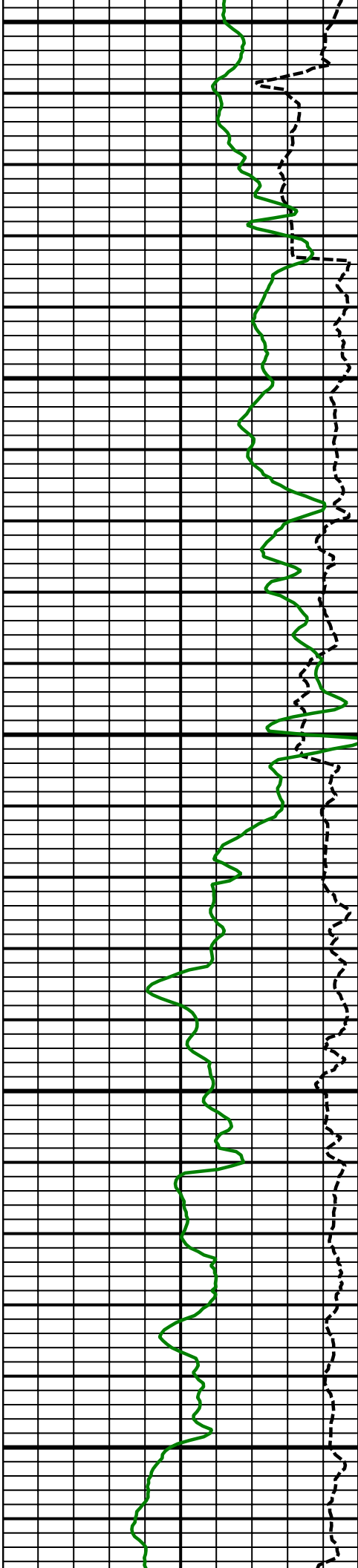




6800
MD

6900
MD

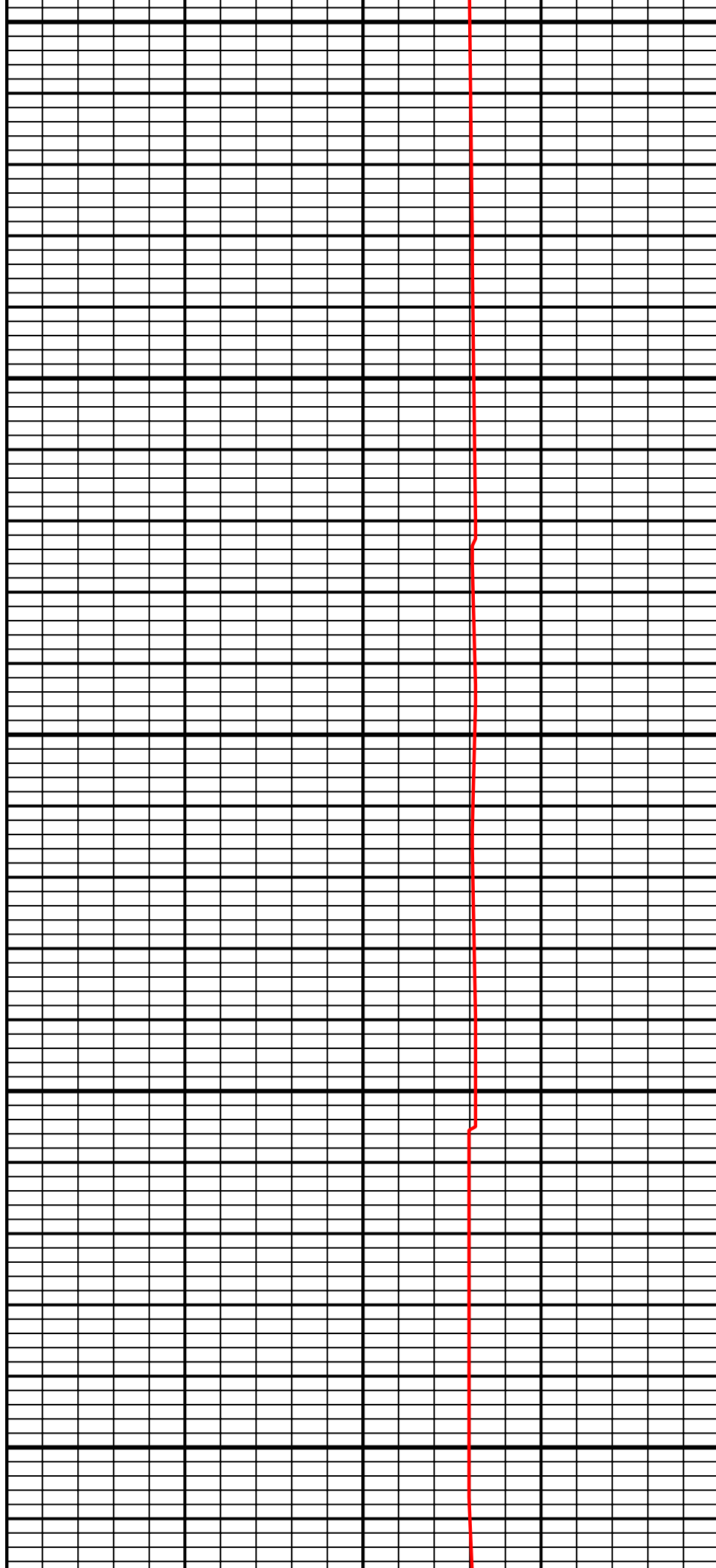


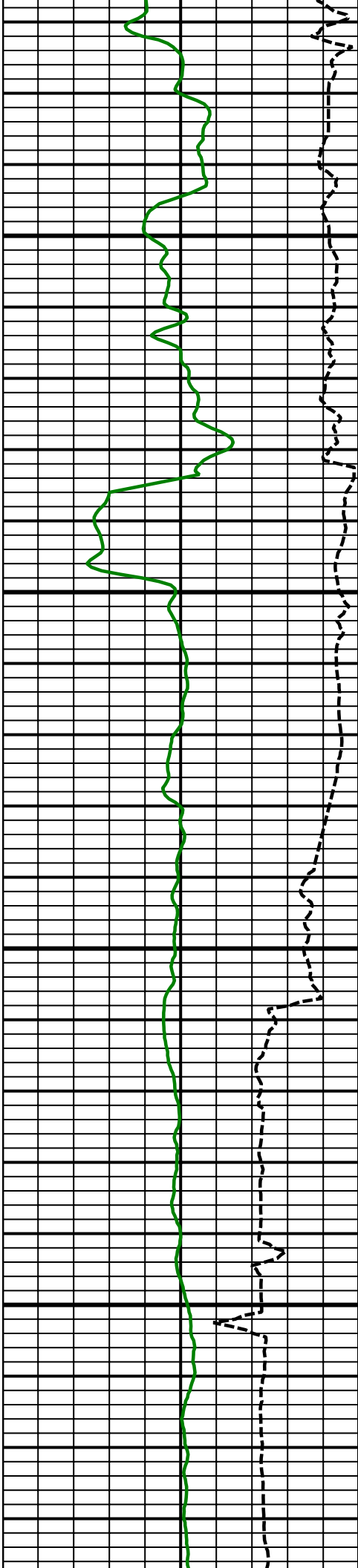


7000
MD

7100
MD

7200
MD



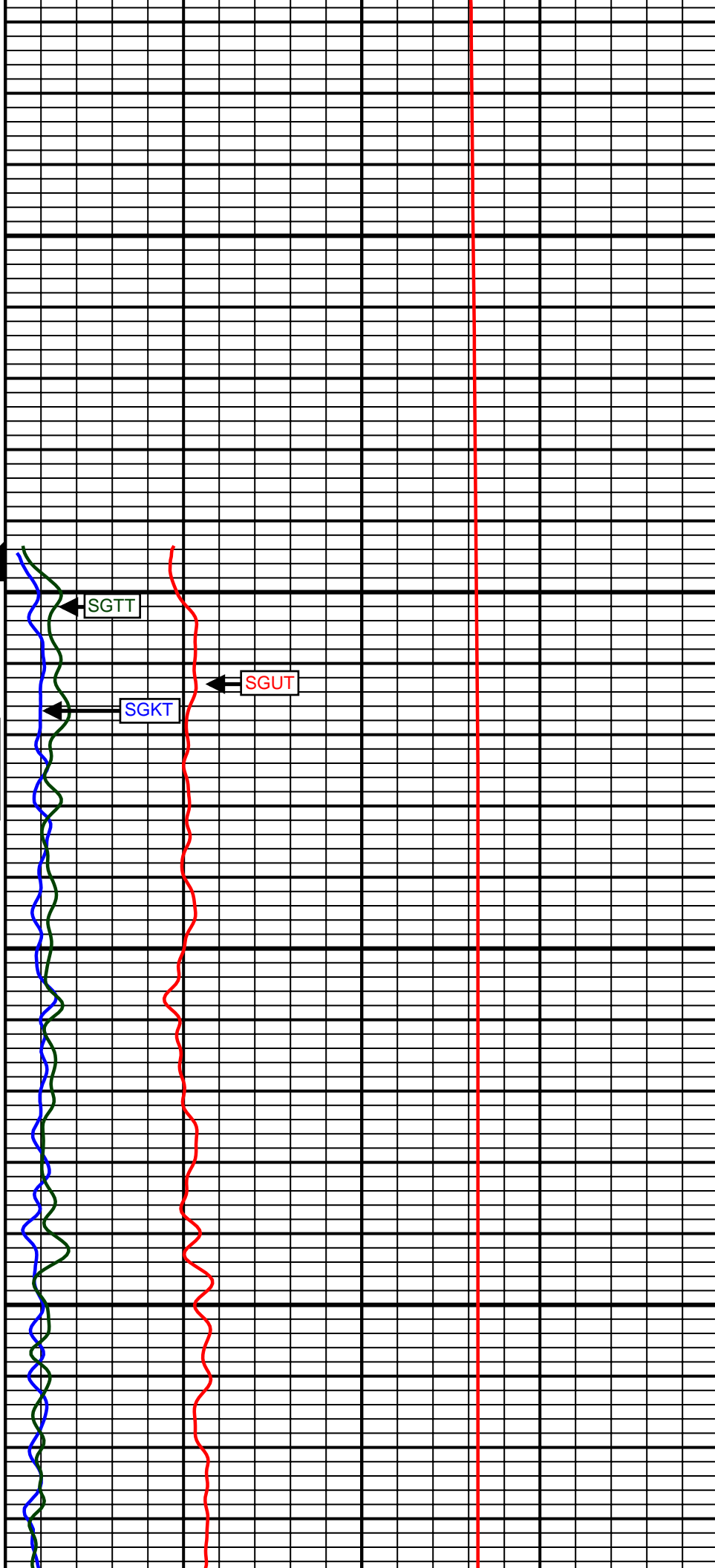


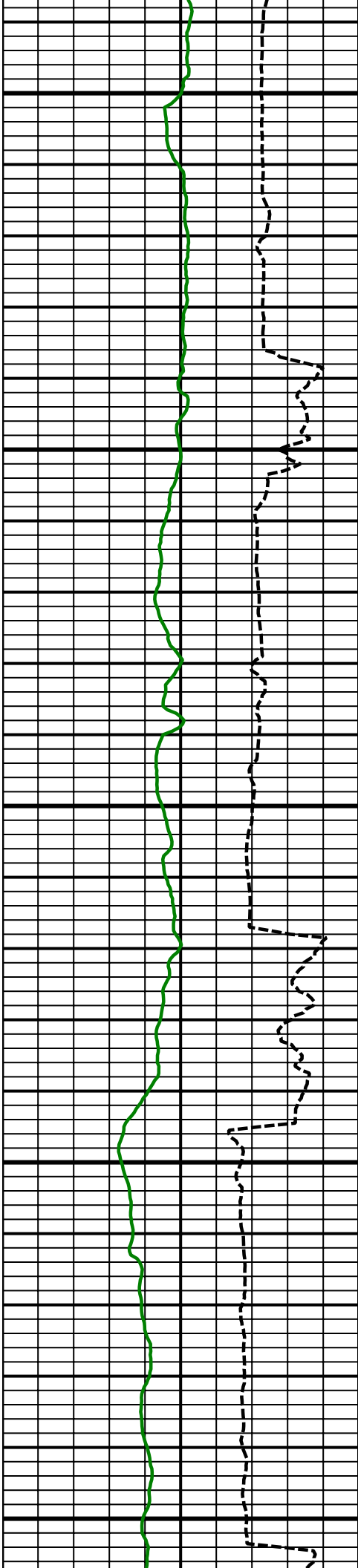
7300
MD

Comment
2-2

Comment
3-1

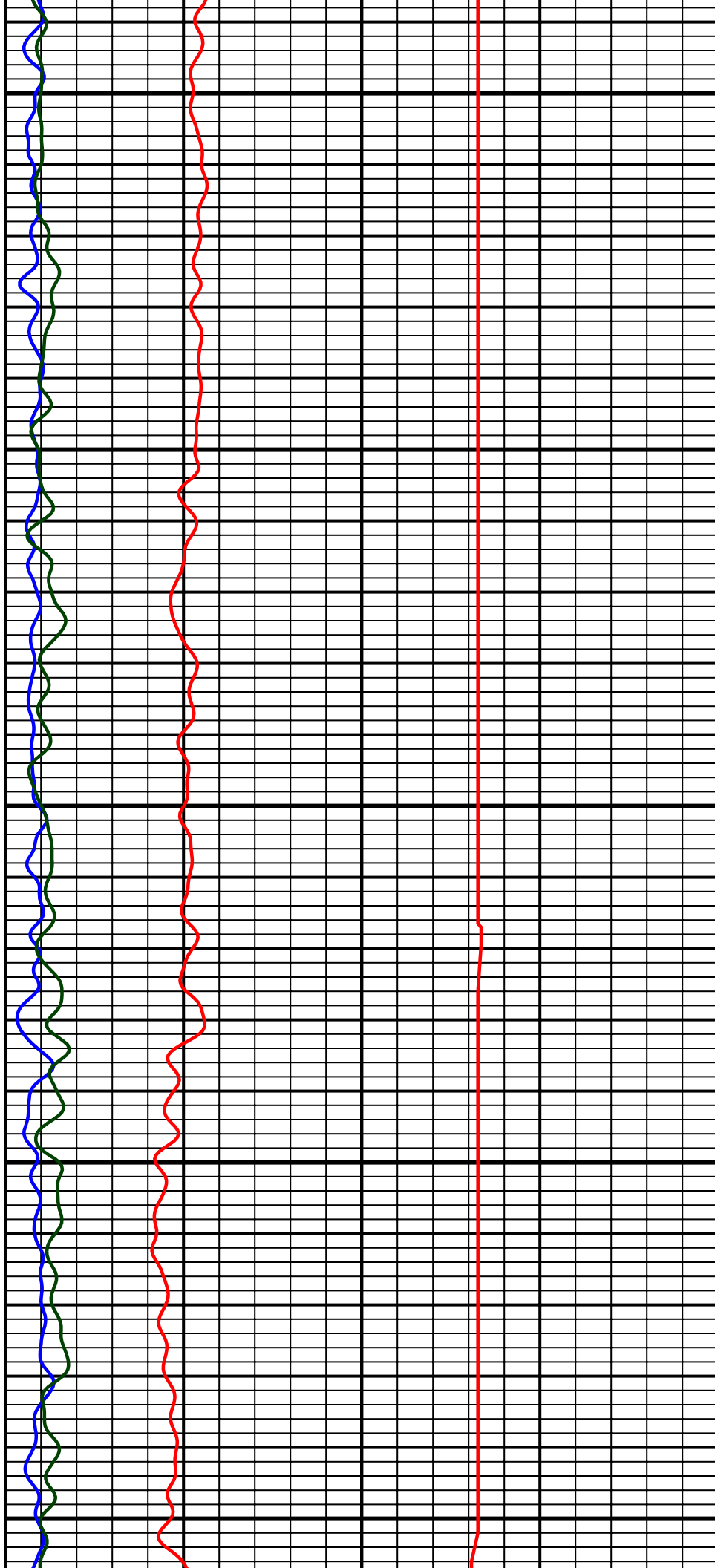
7400
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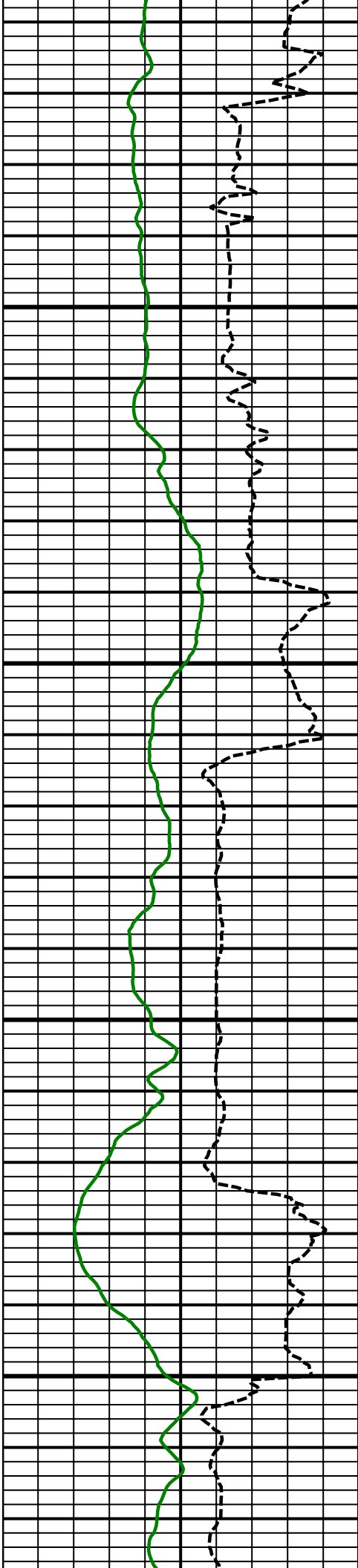




7500
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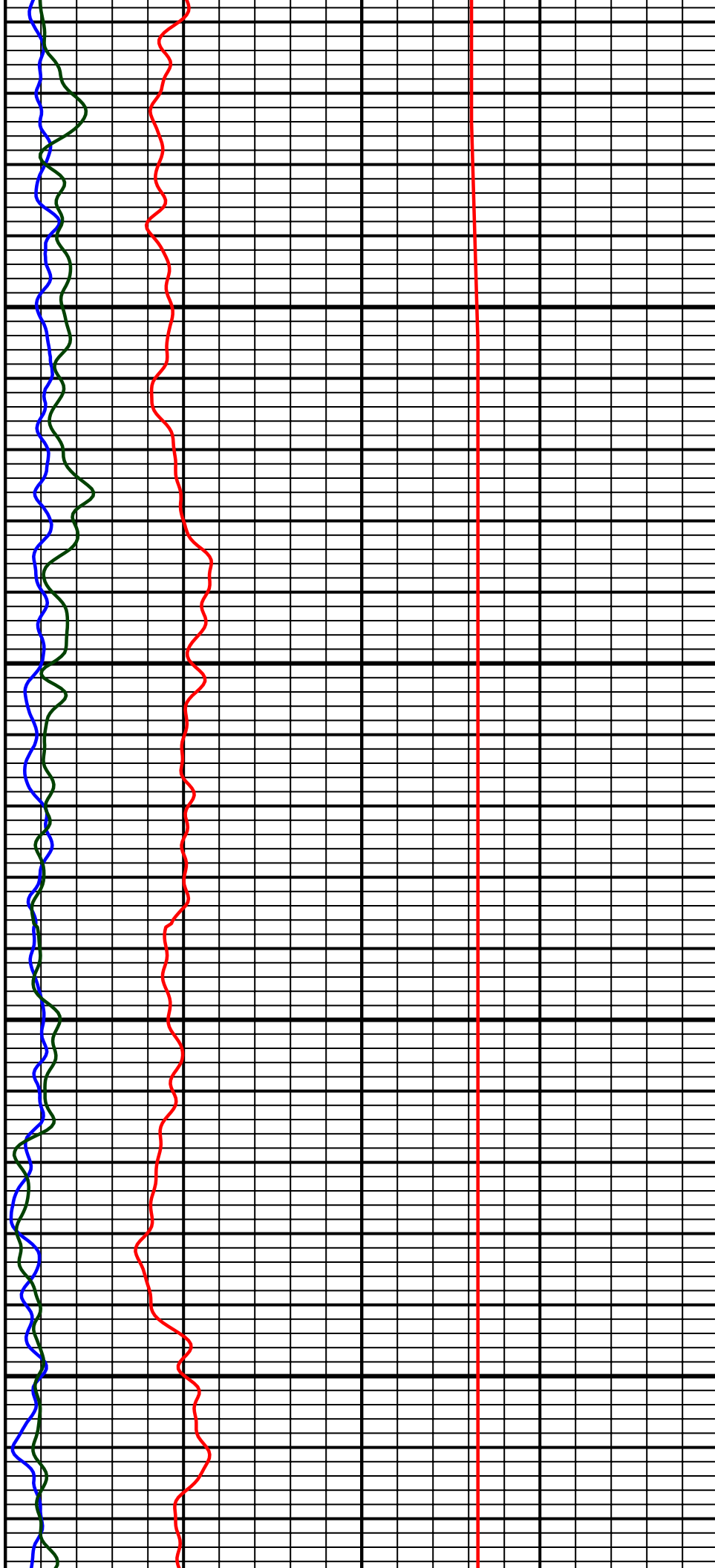
7600
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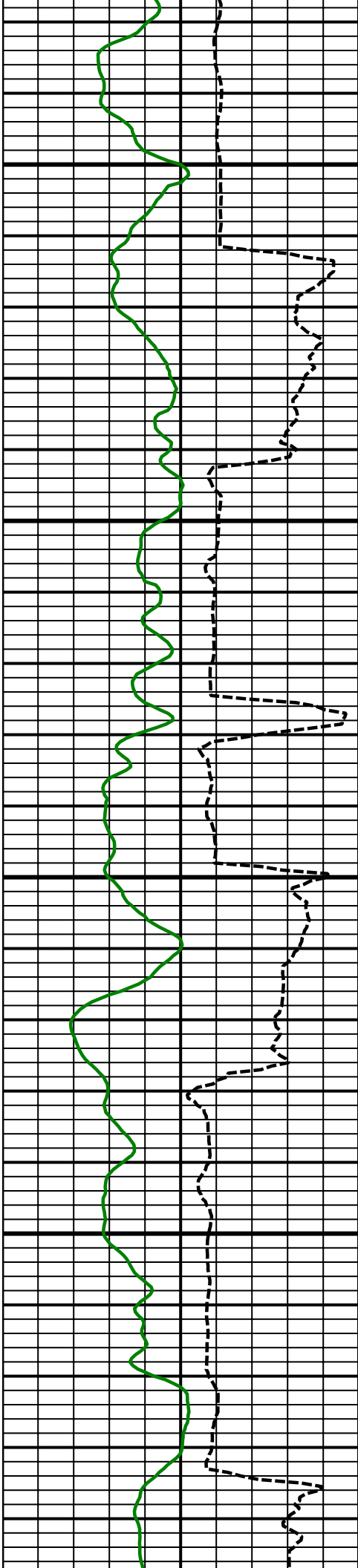




7700
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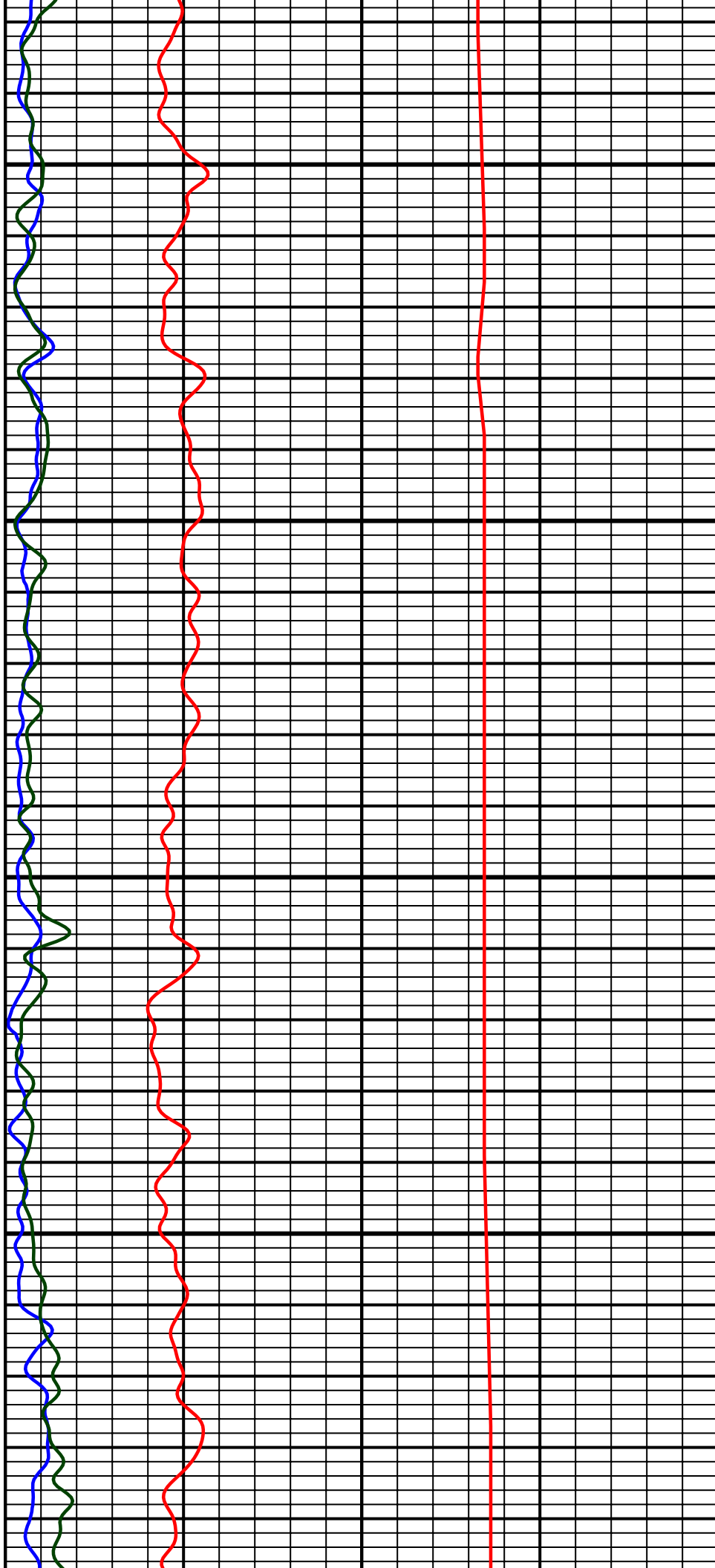
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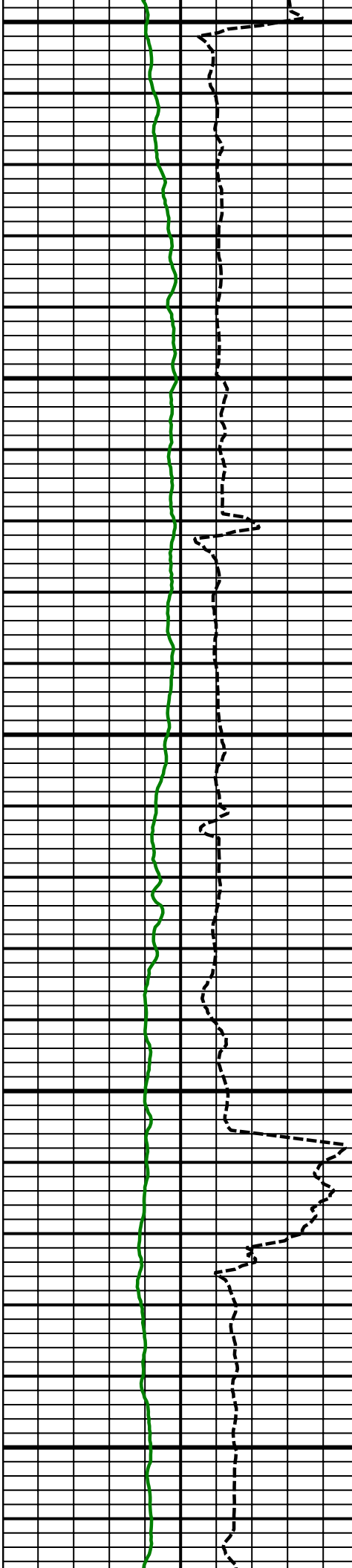




7900
MD

8000
MD

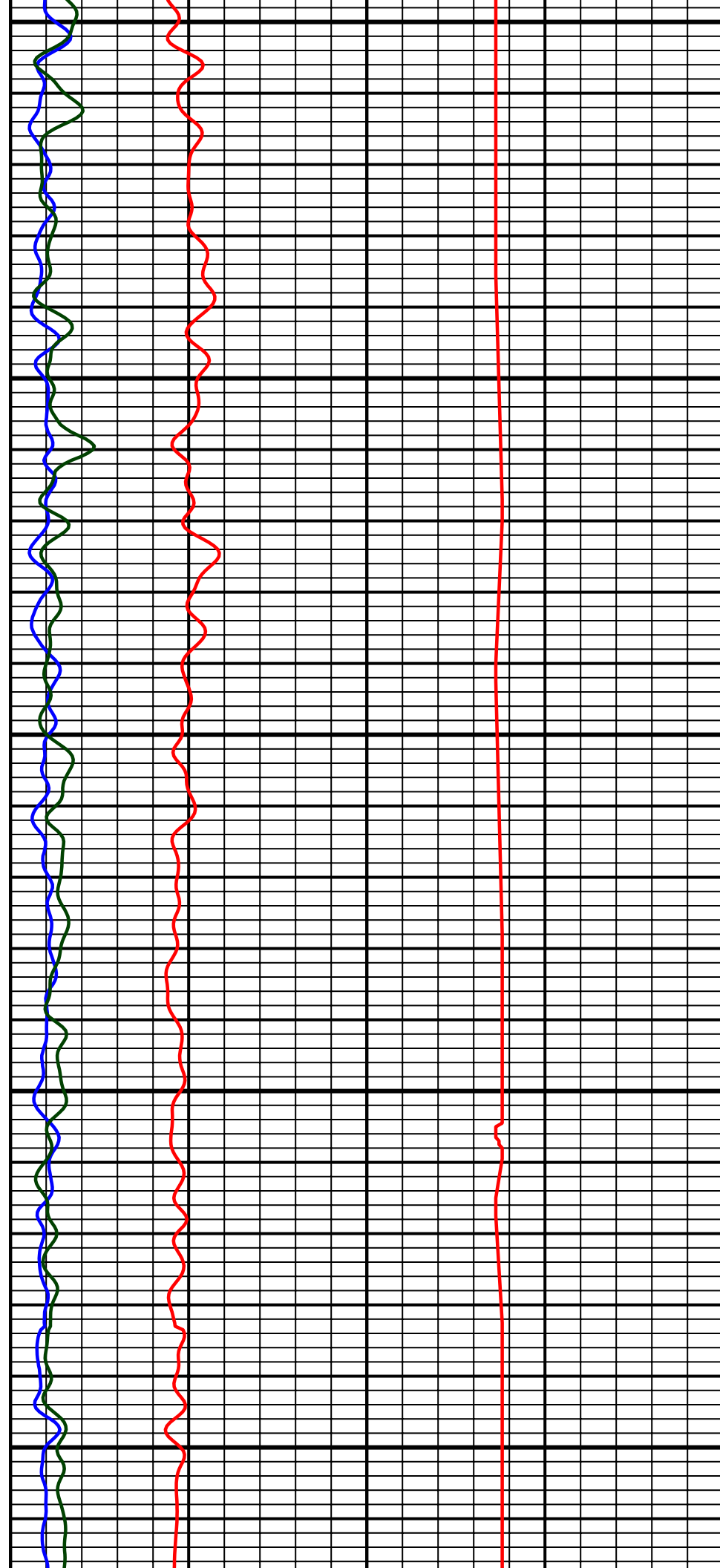


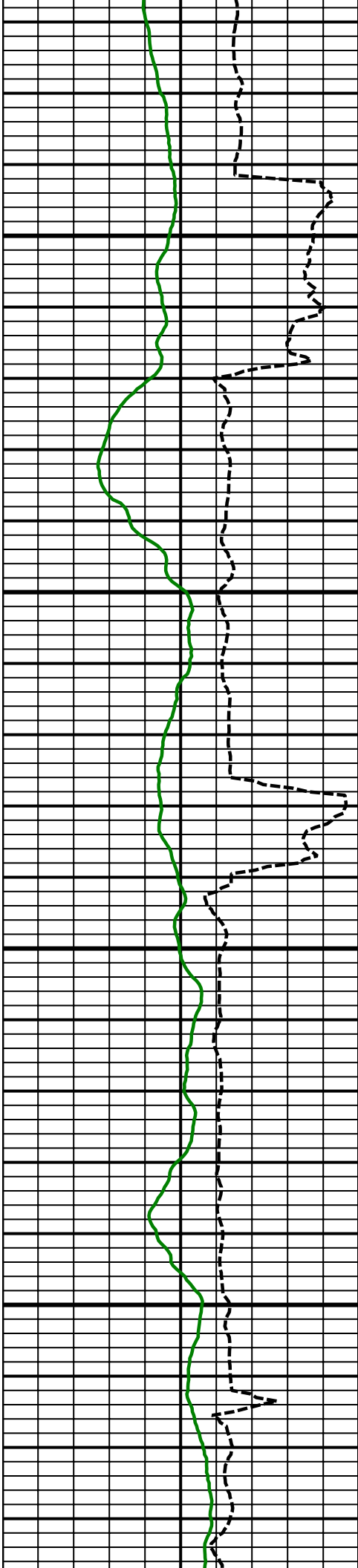


8100
MD

8200
MD

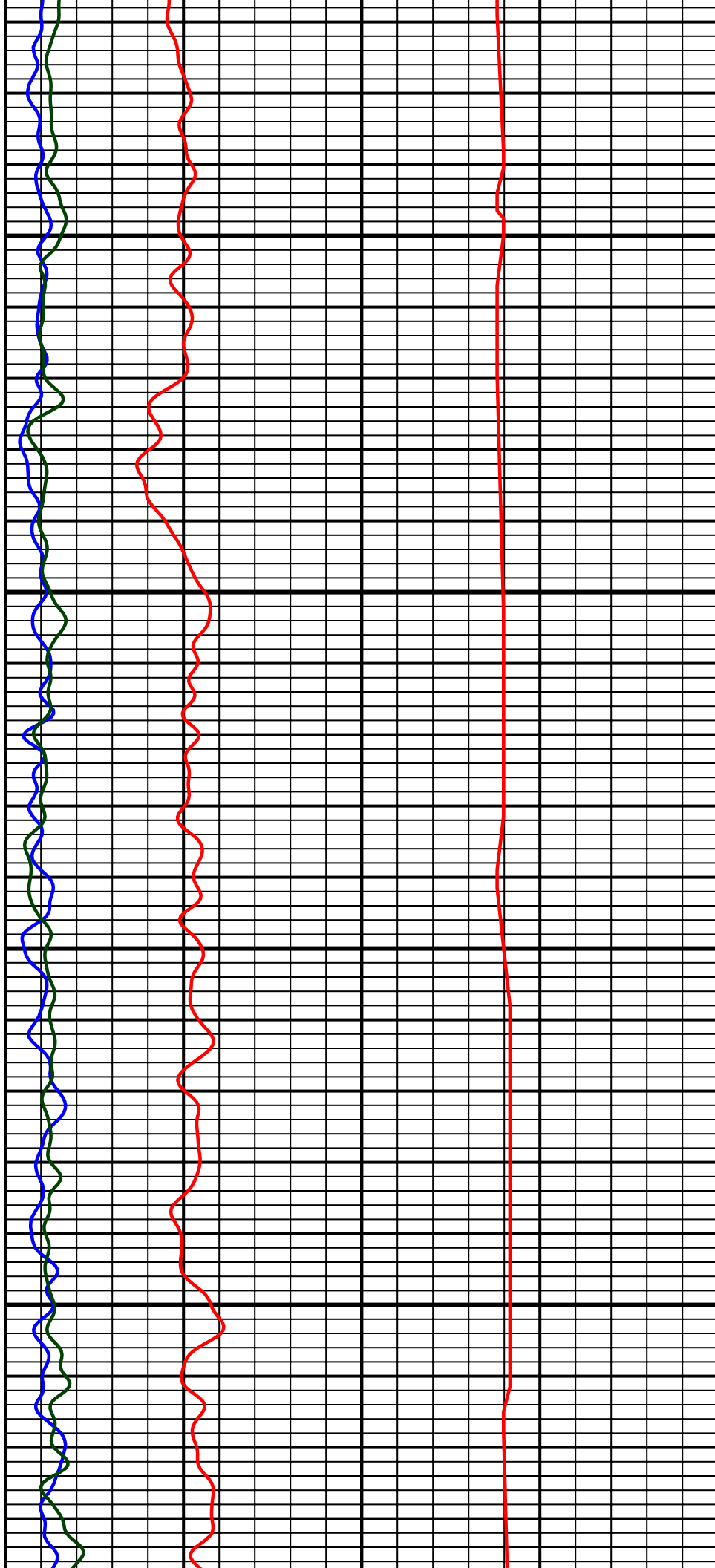
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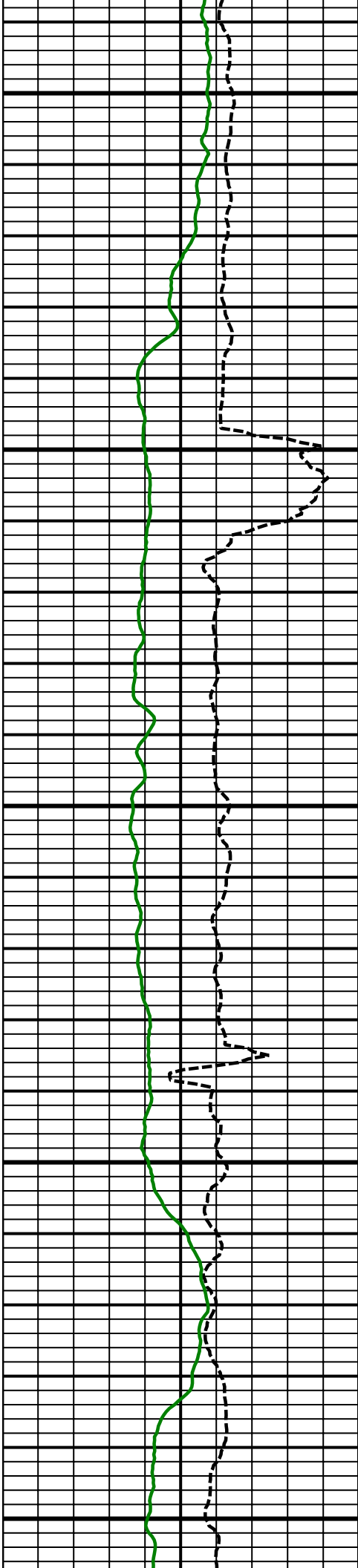




8400
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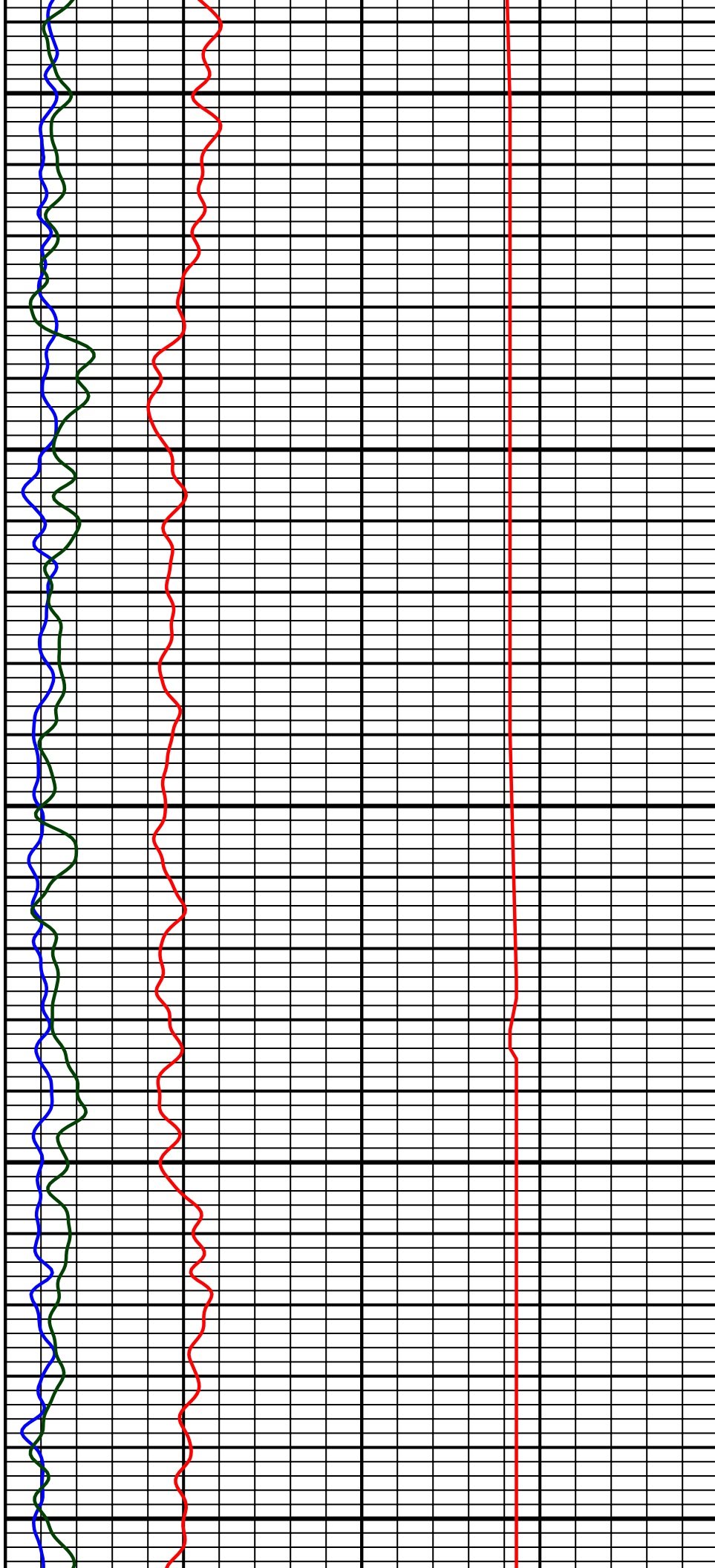
8500
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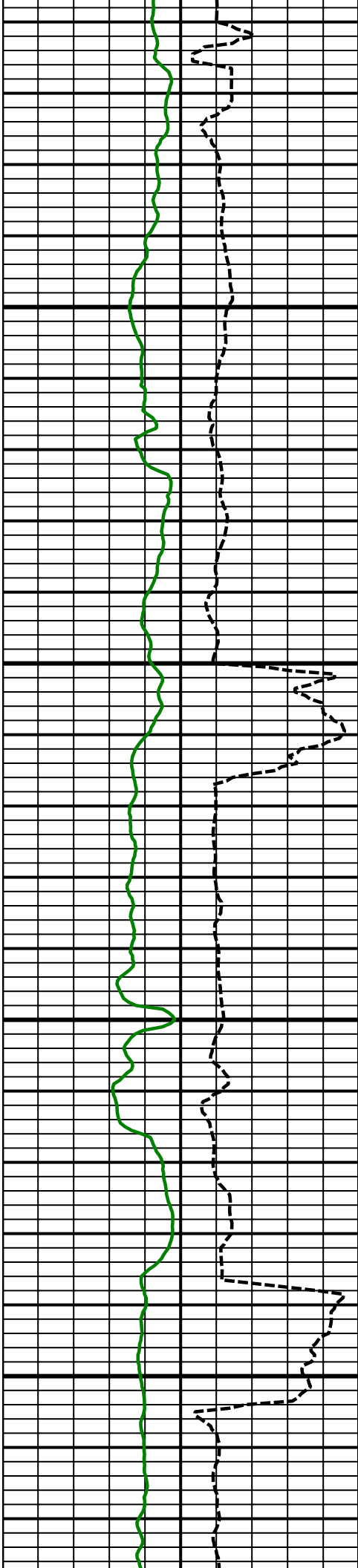




8600
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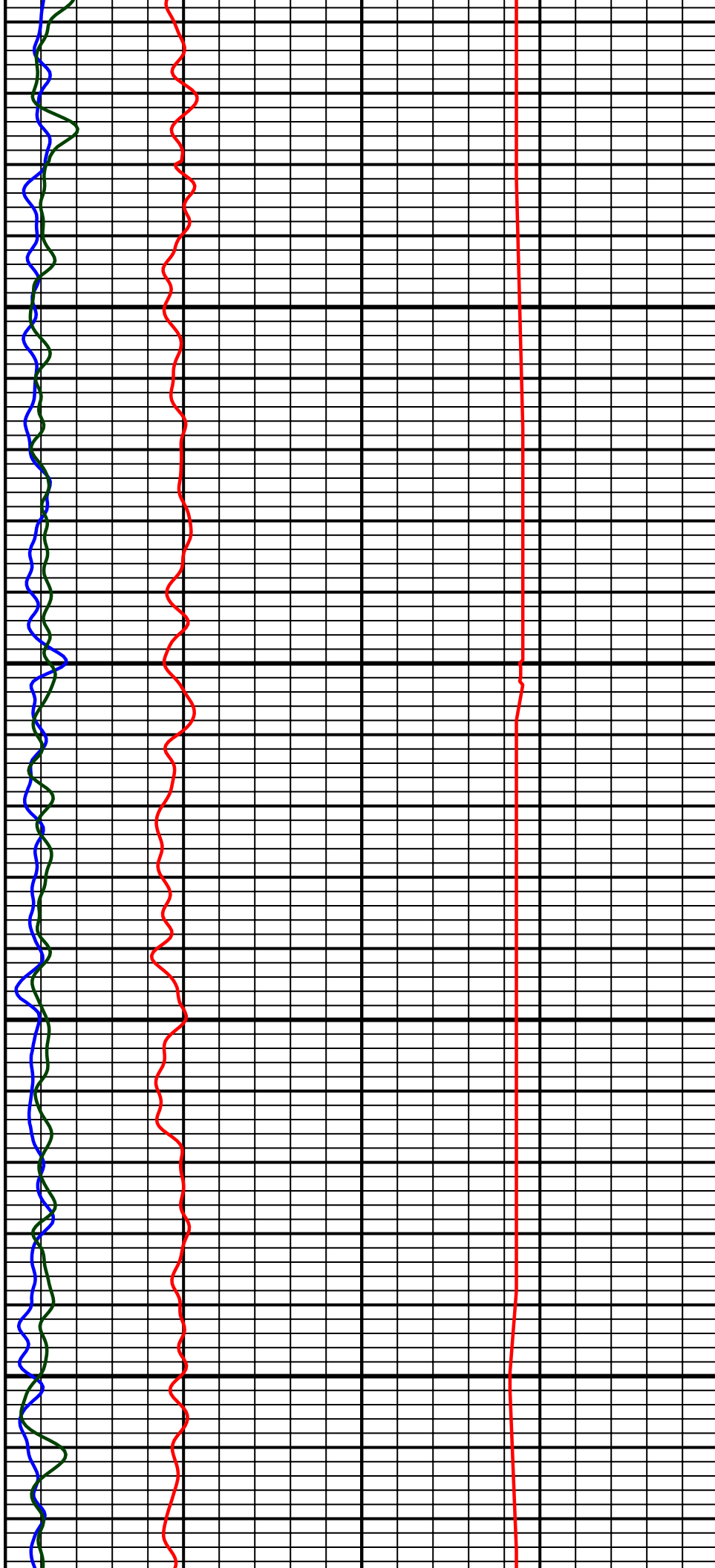
8700
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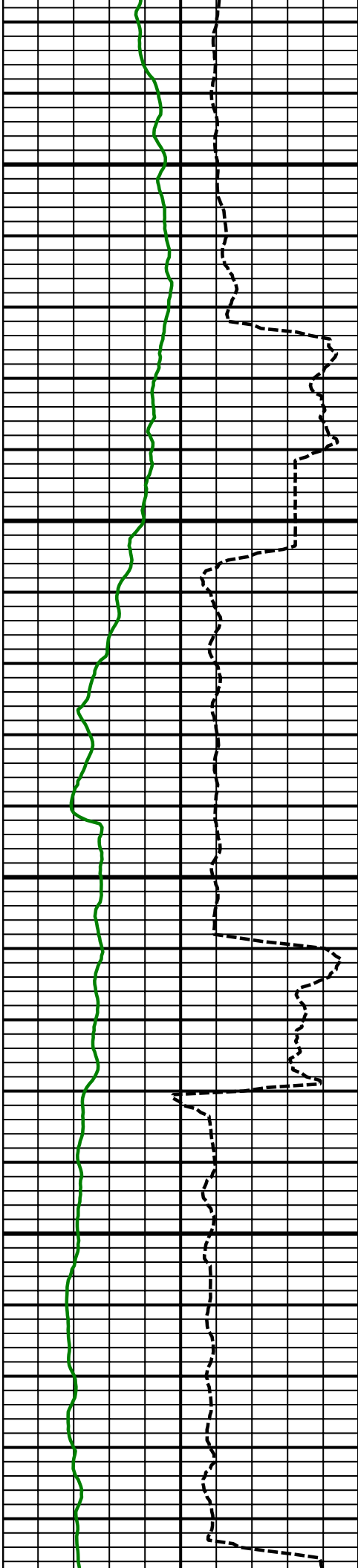




8800
MD

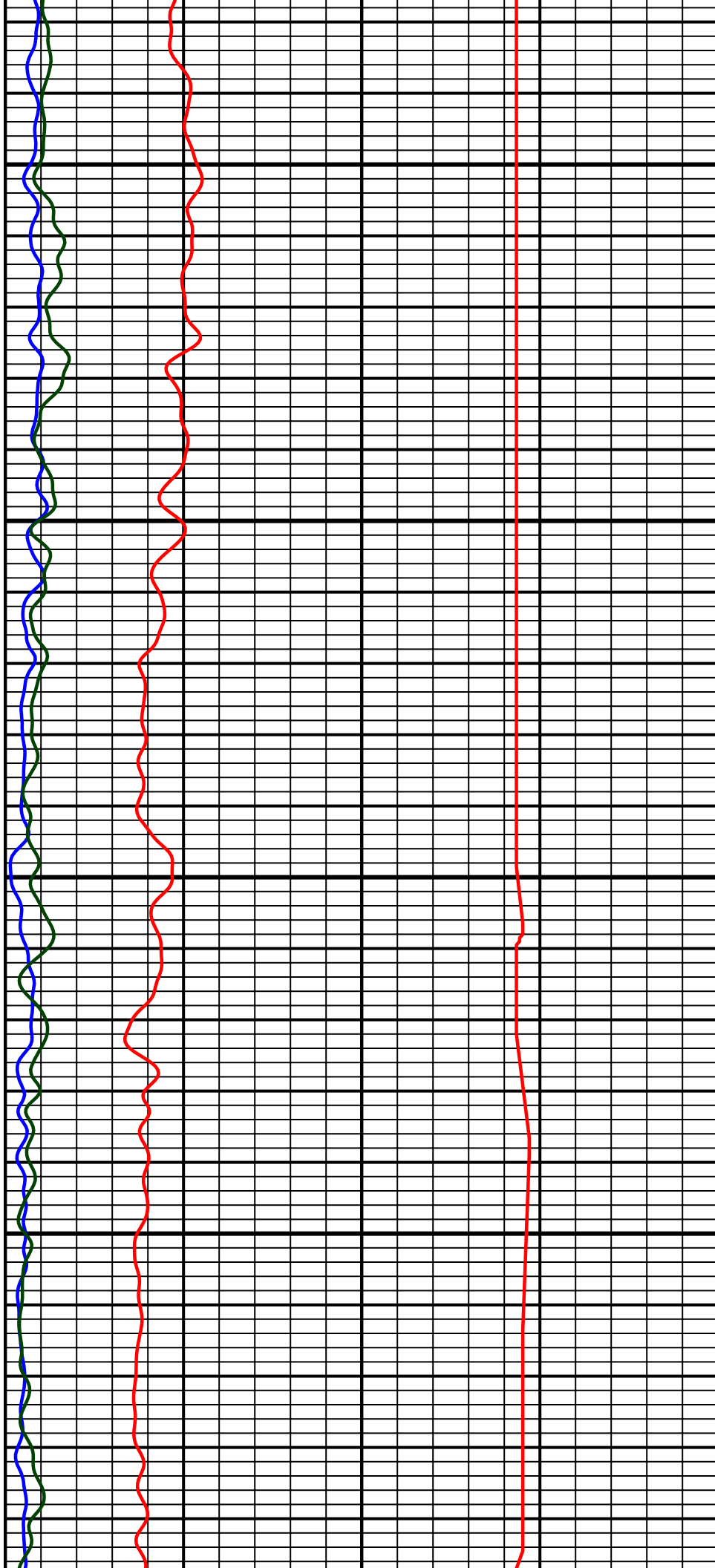
8900
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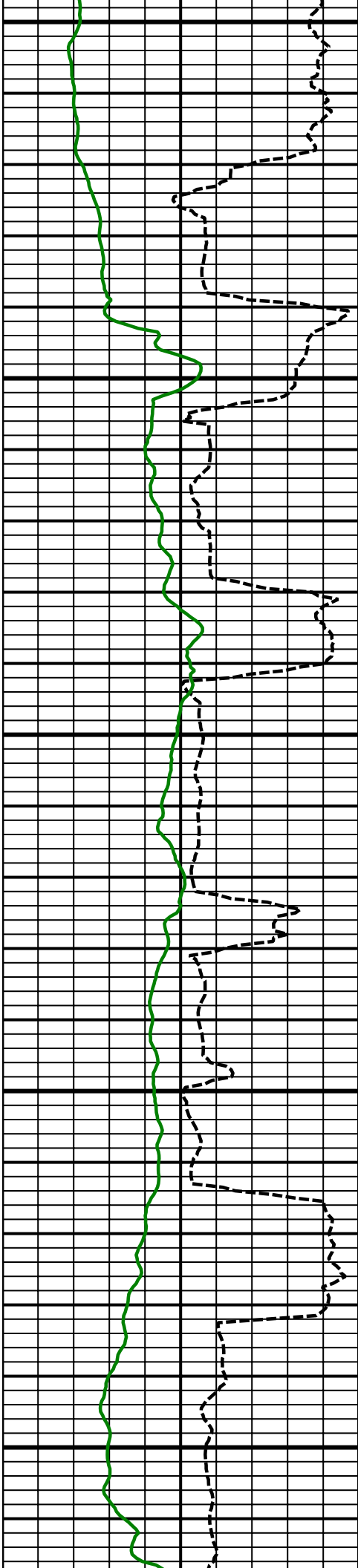




9000
MD

9100
MD

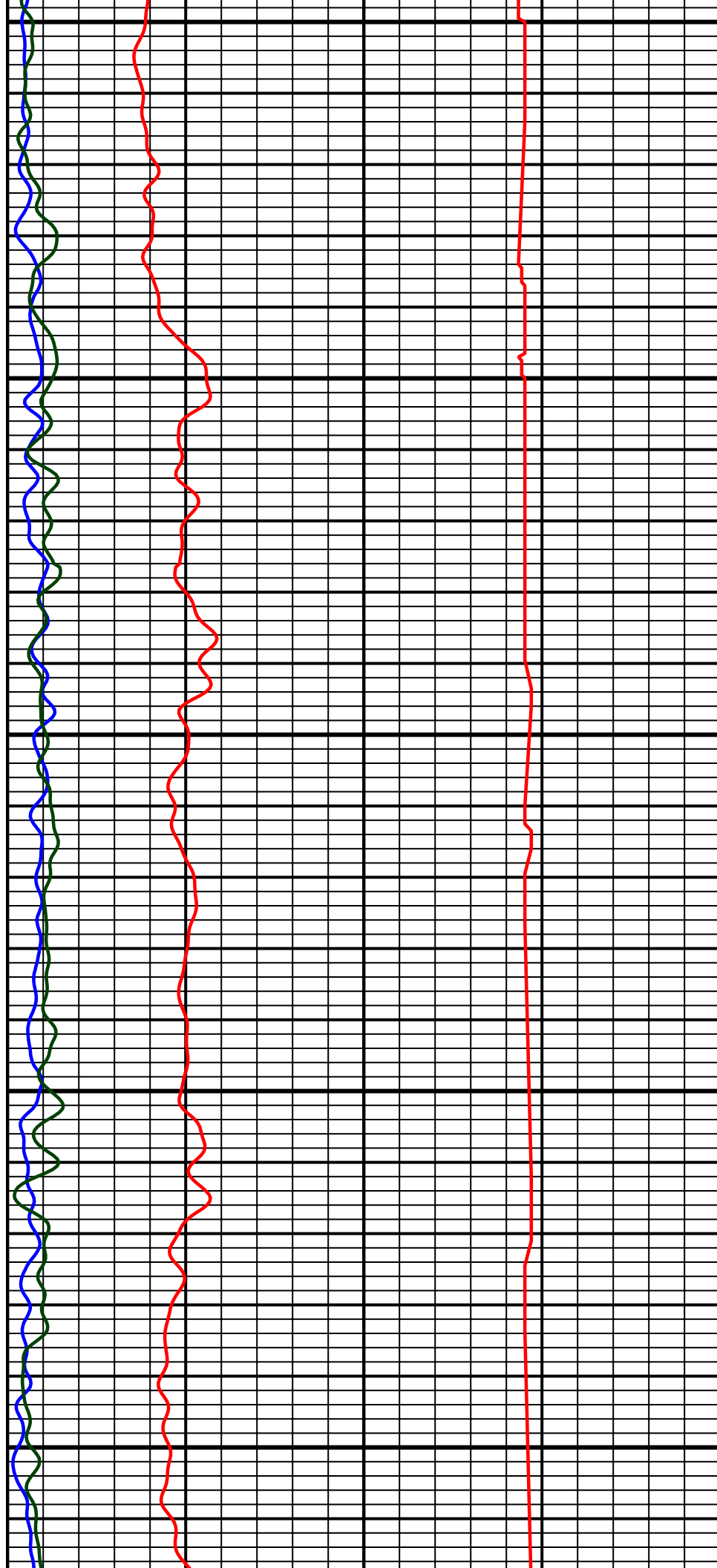


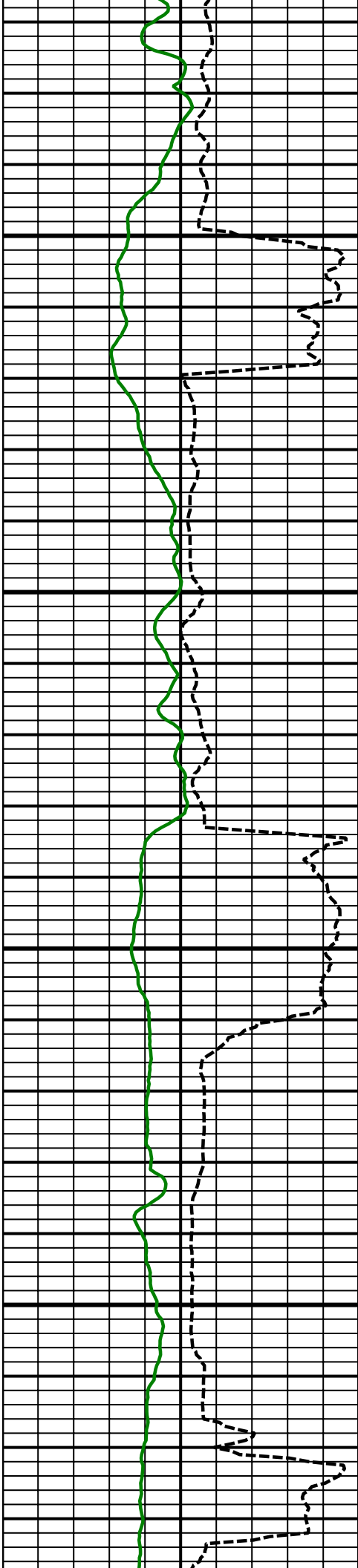


9200
MD

9300
MD

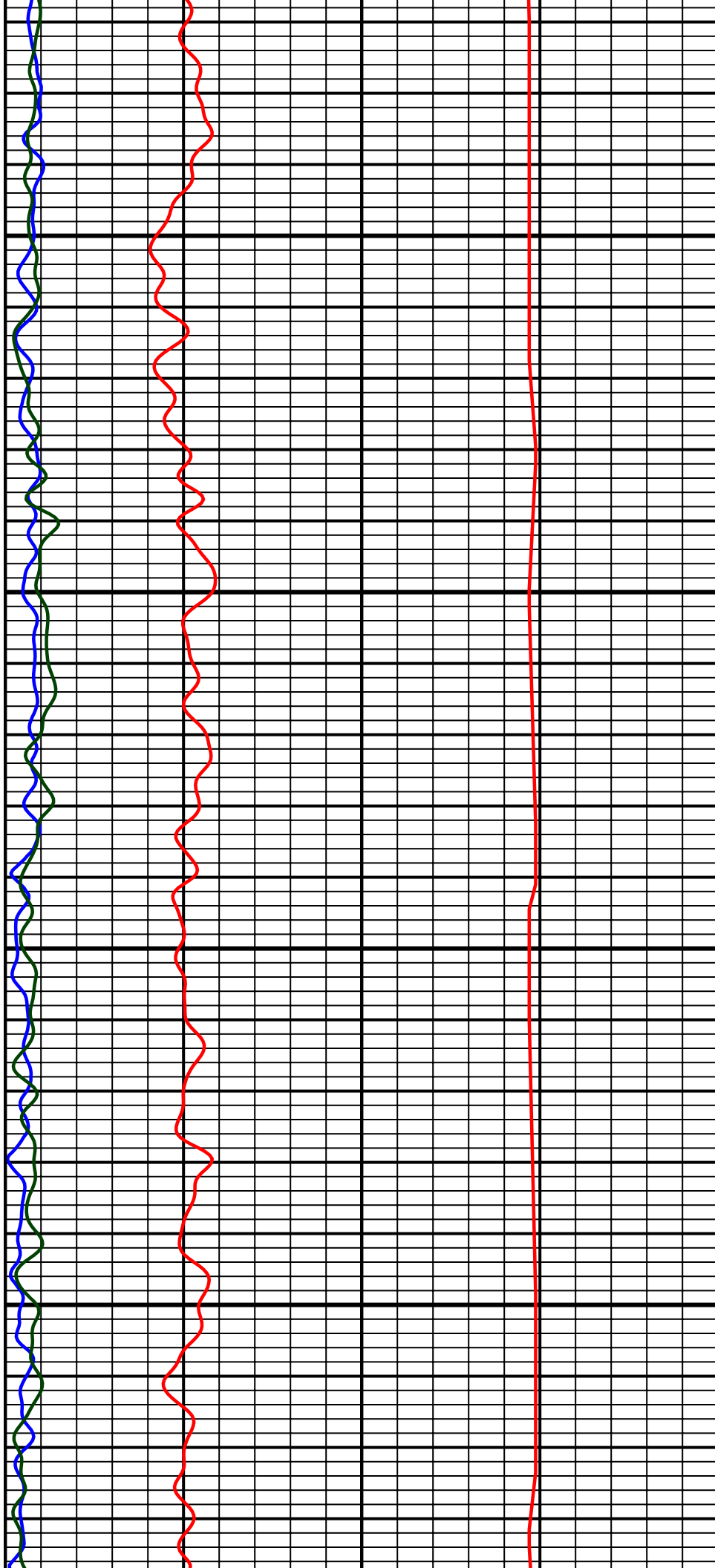
9400
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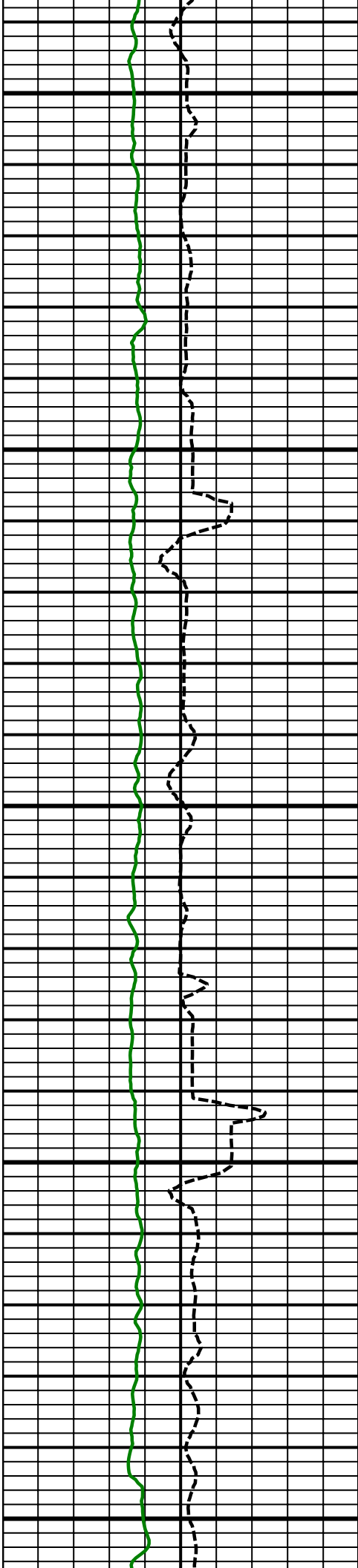




9500
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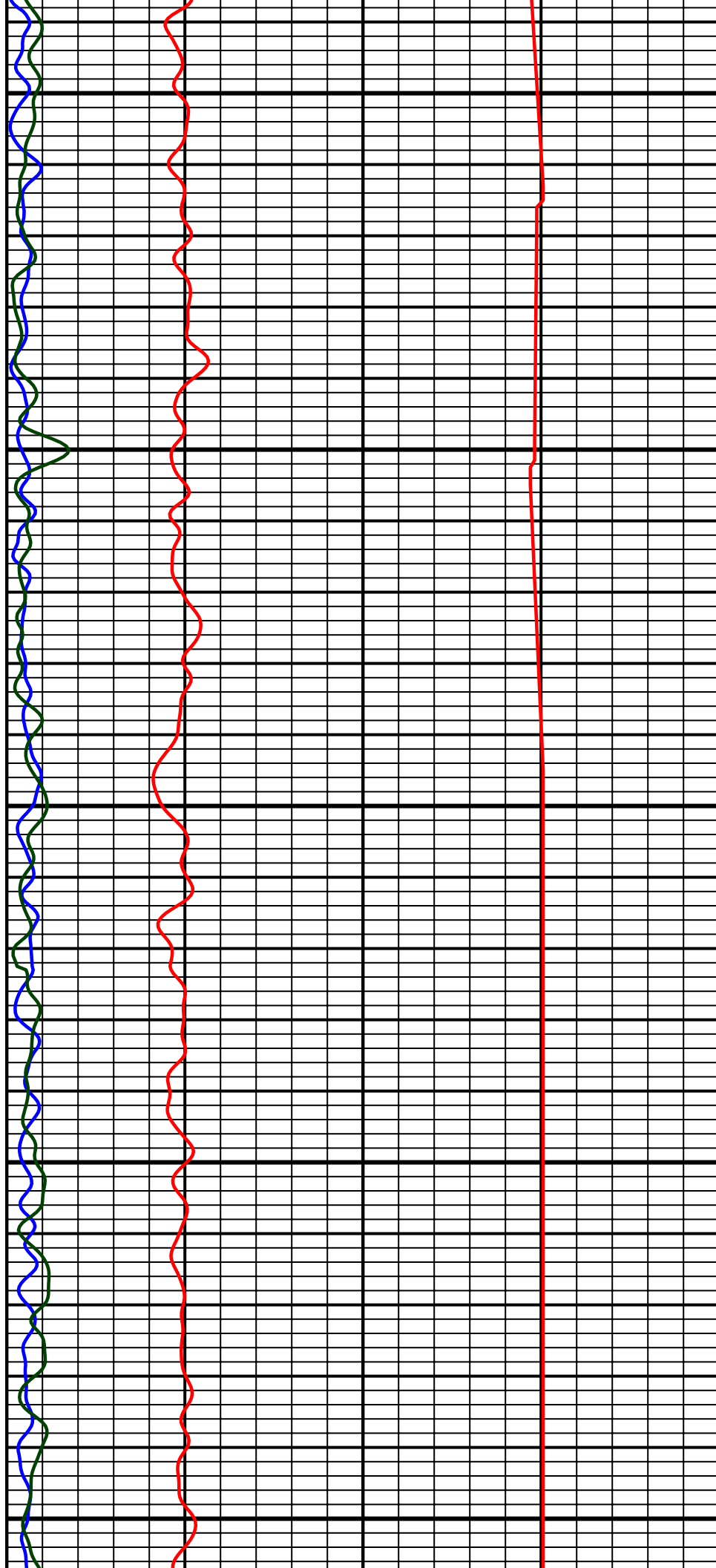
9600
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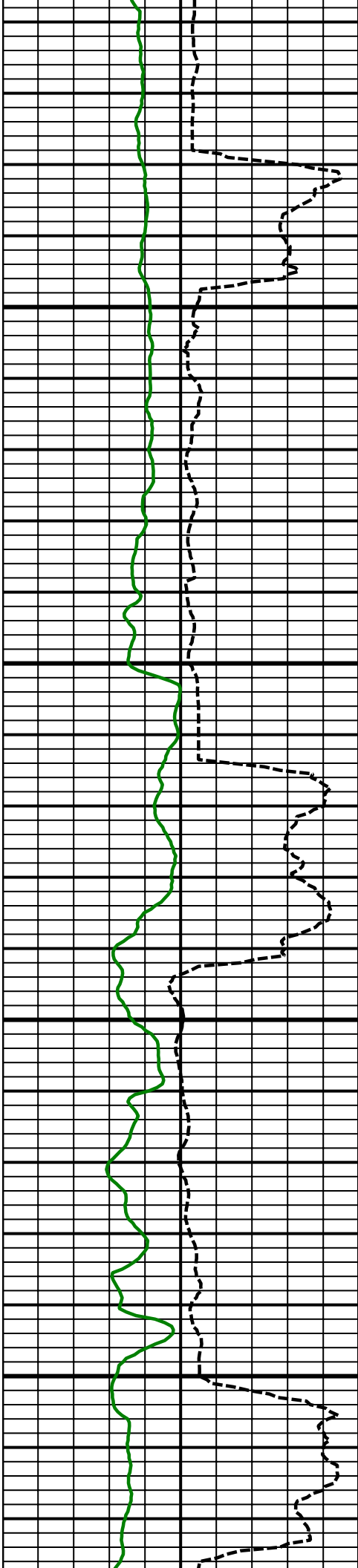




9700
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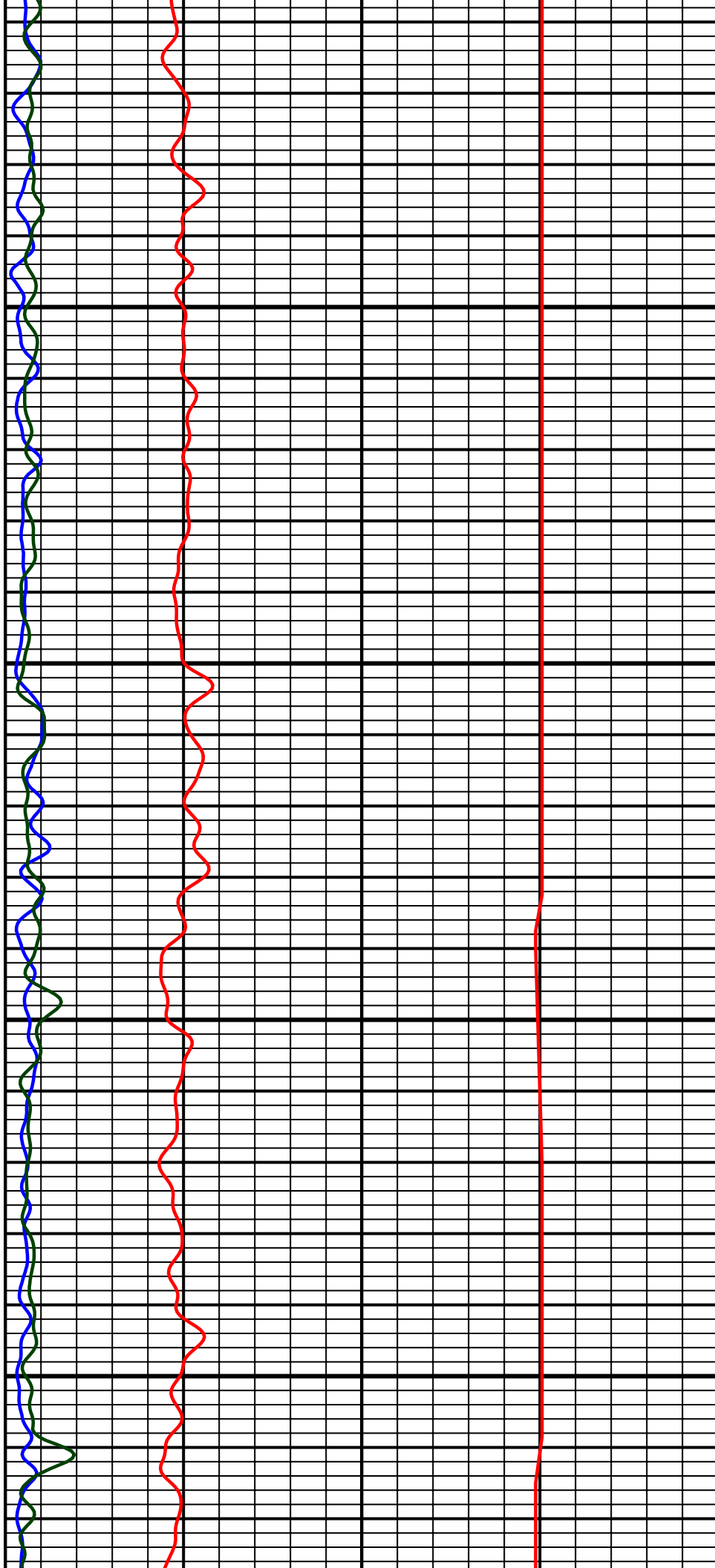
9800
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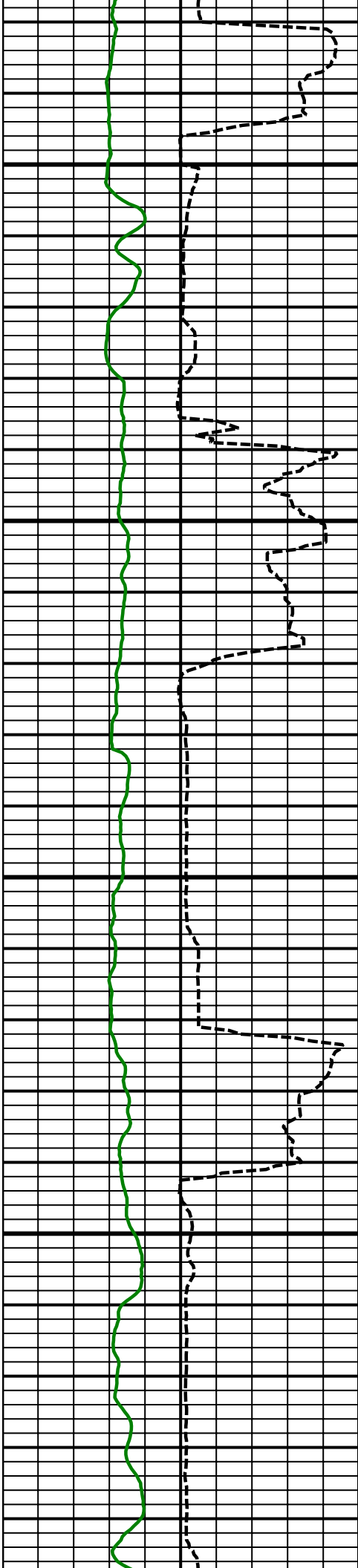




9900
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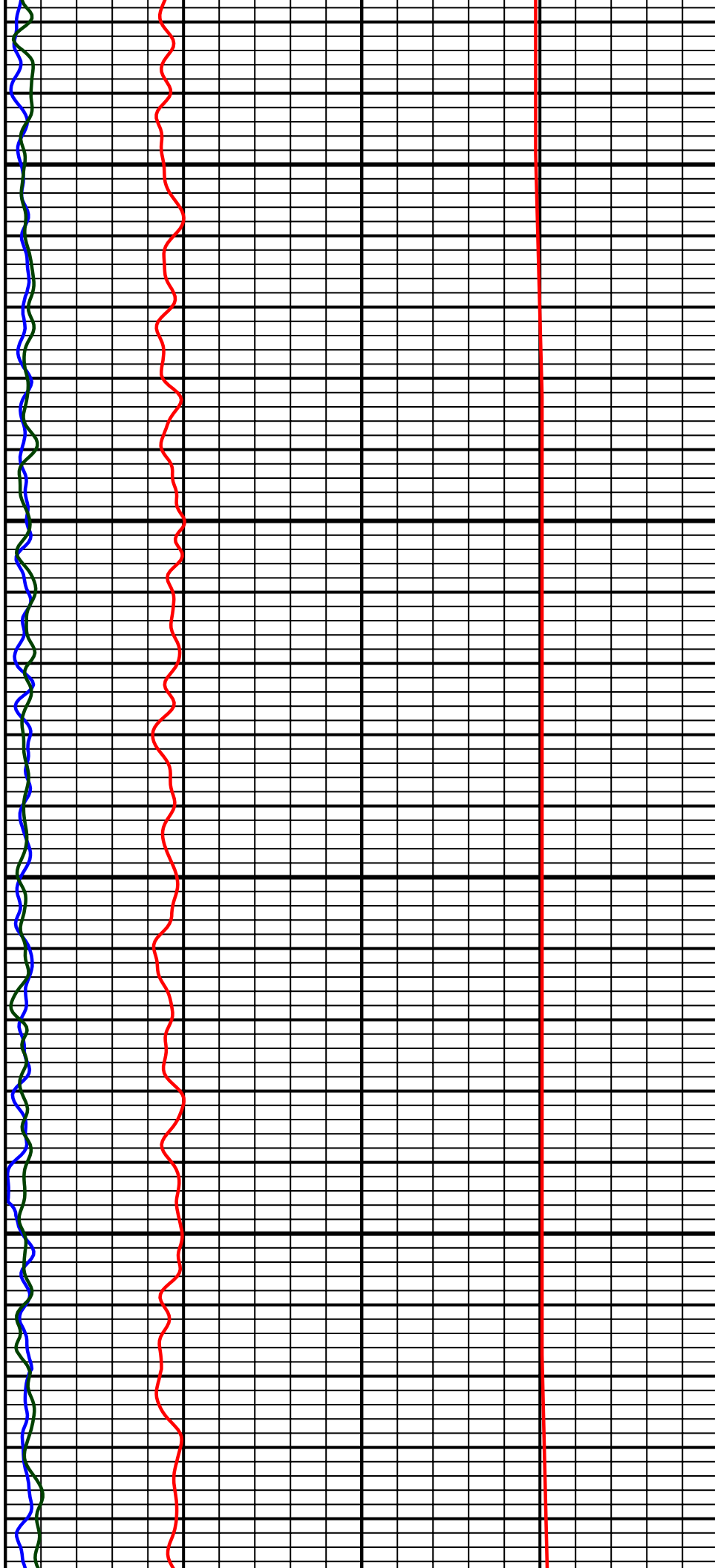
10000
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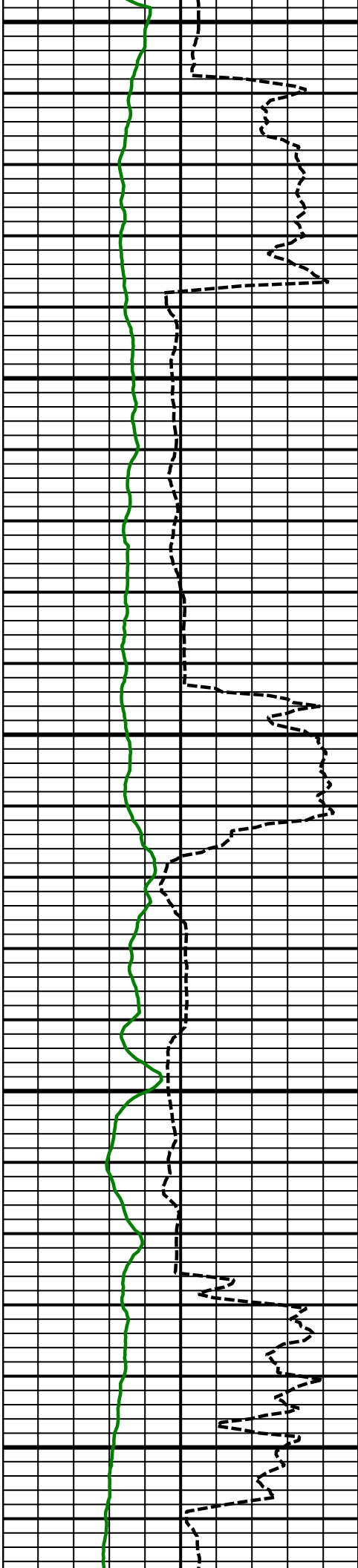




10100
MD

10200
MD

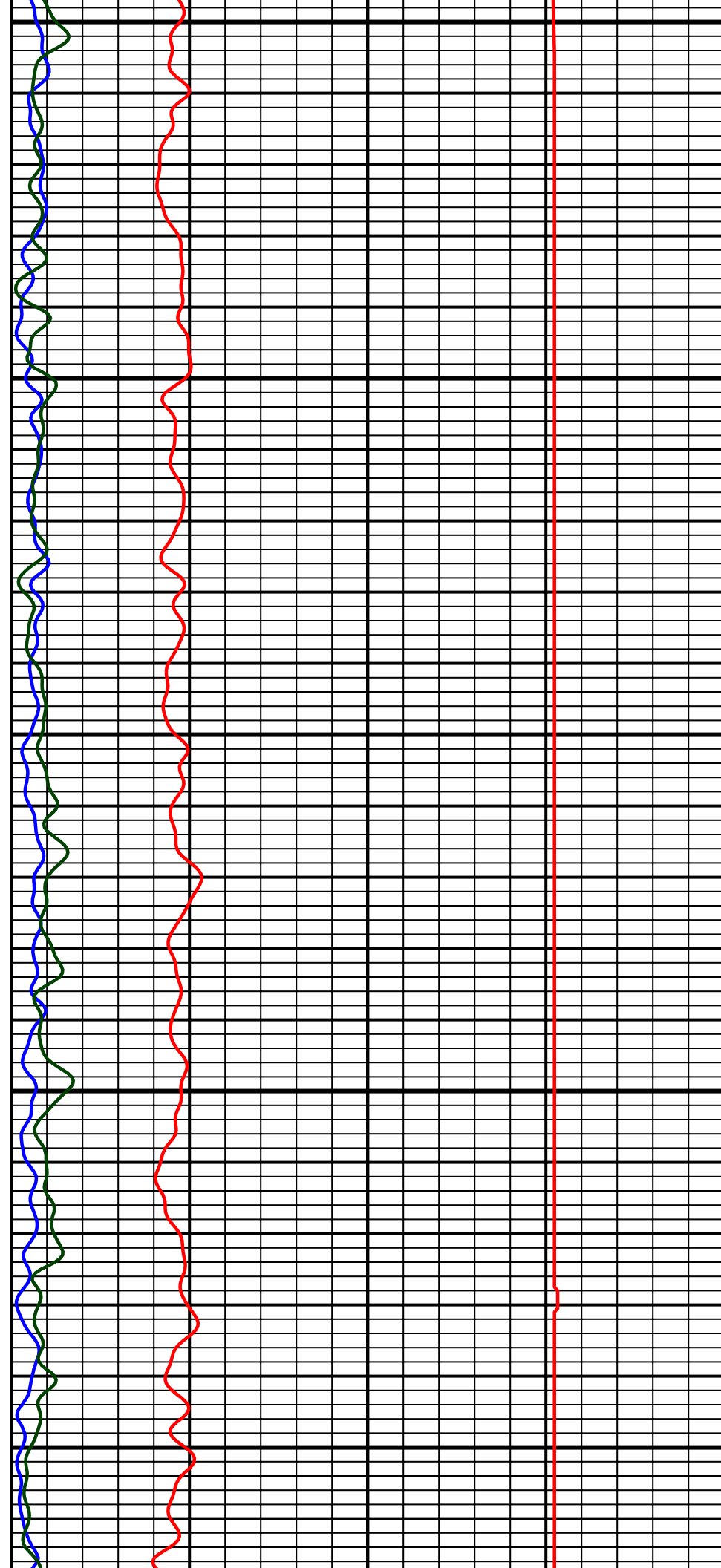


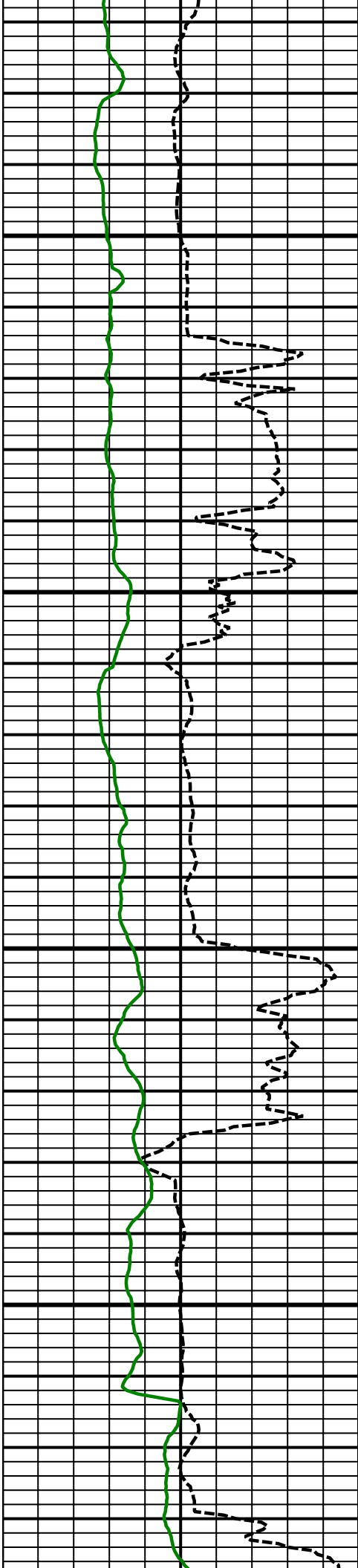


10300
MD

10400
MD

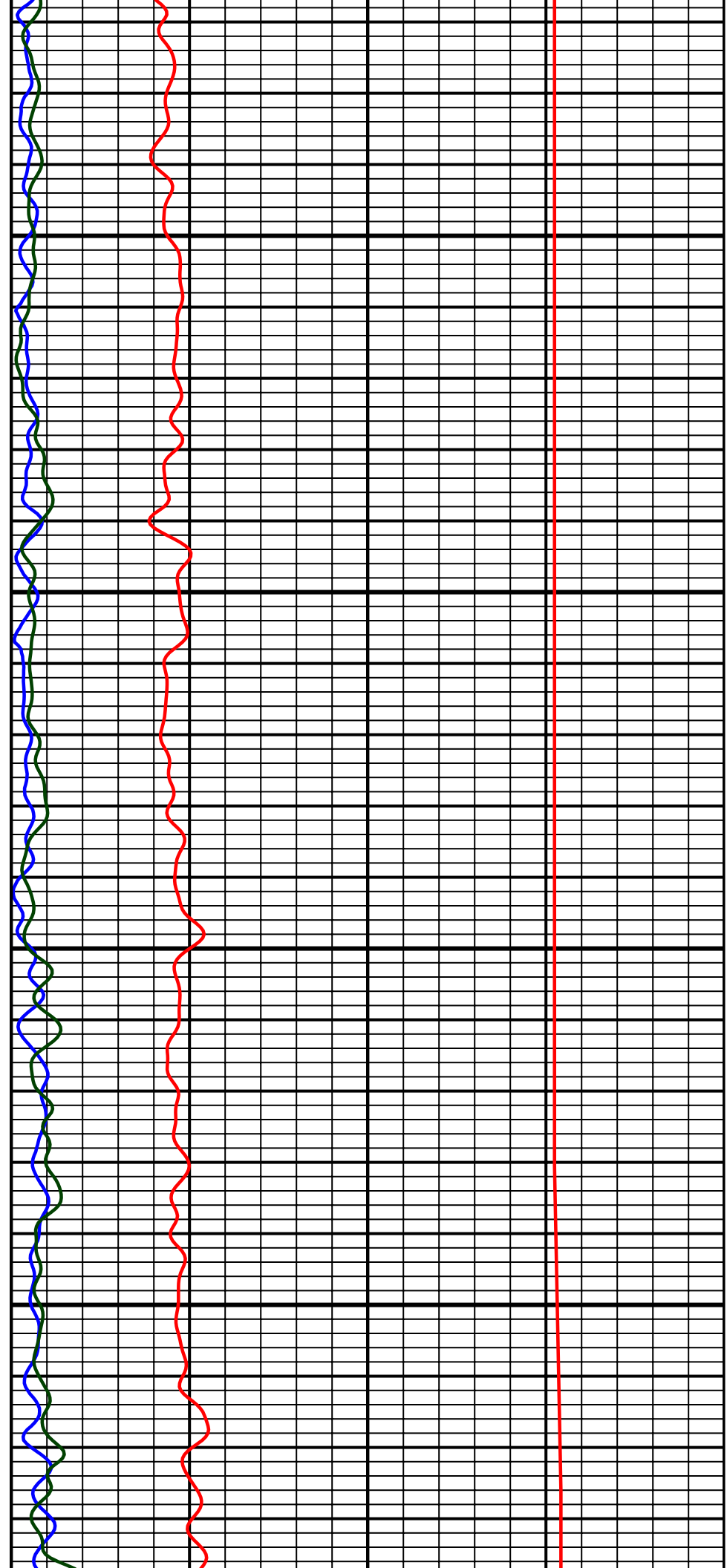
10500
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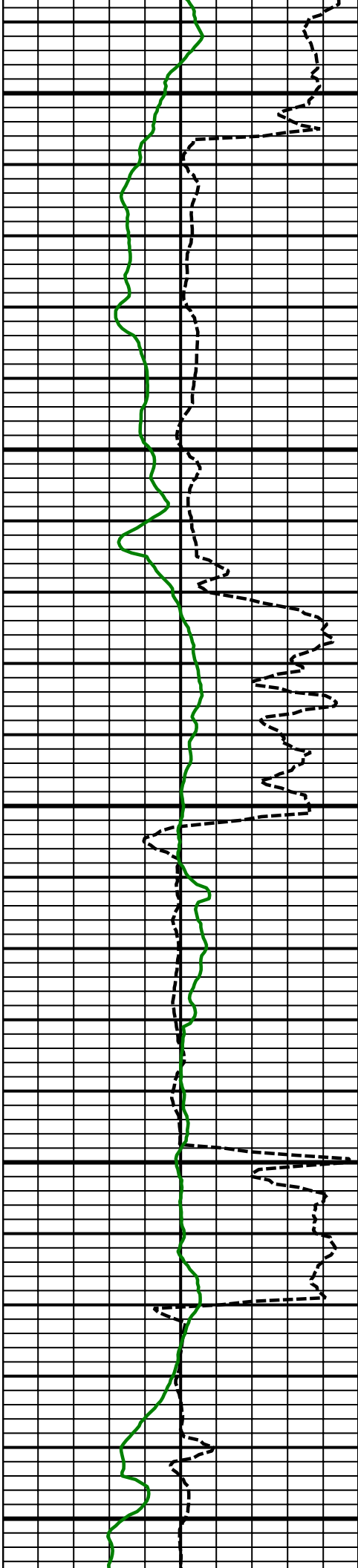




10600
MD

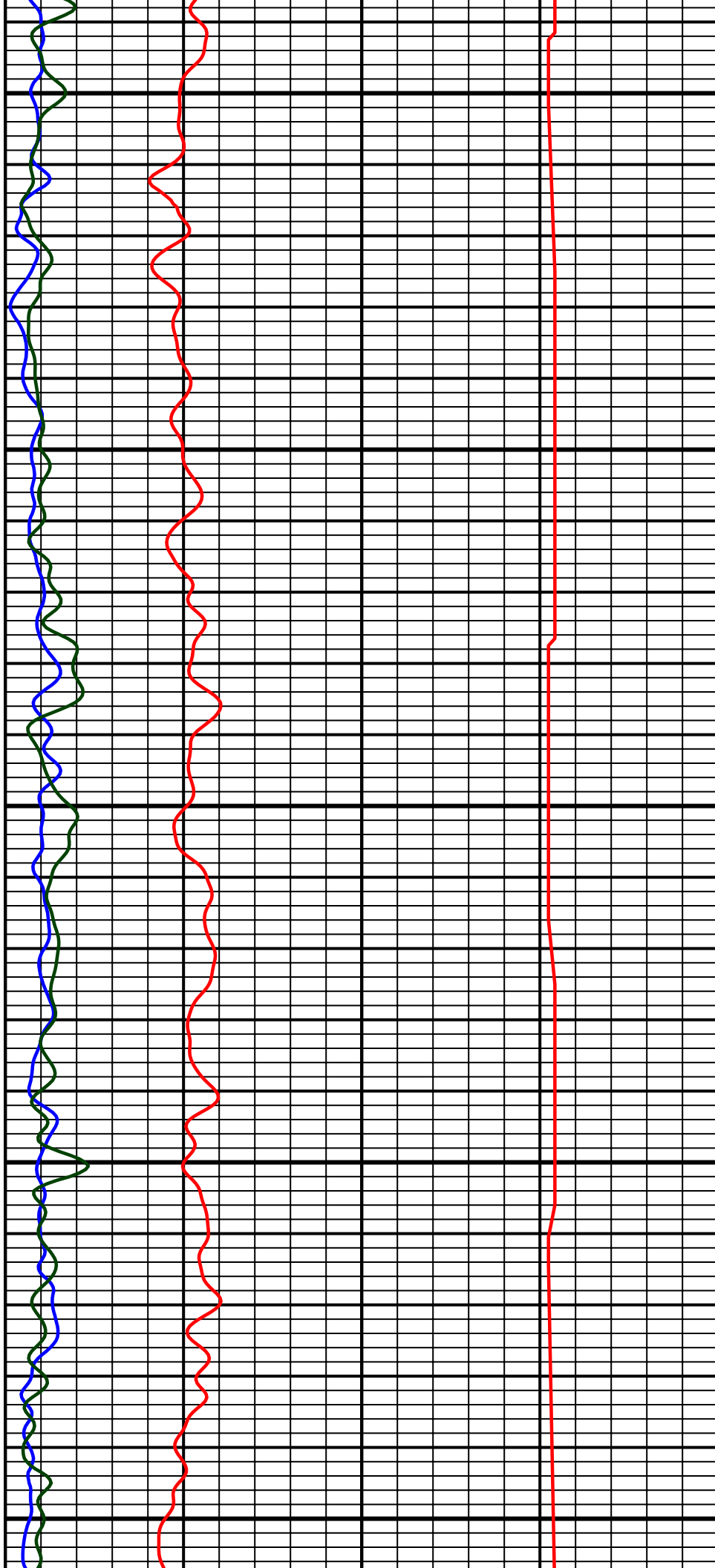
10700
MD

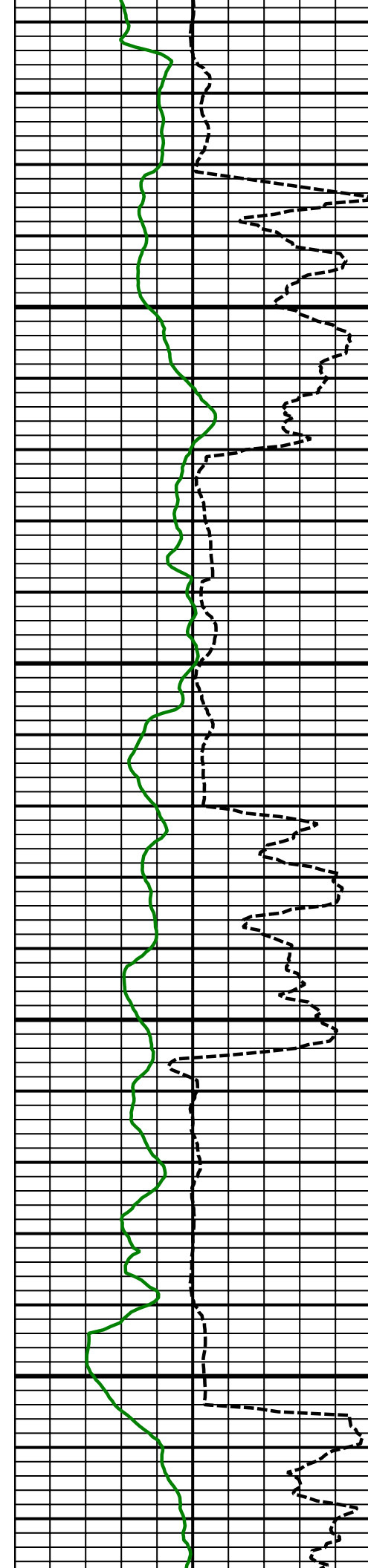




10800
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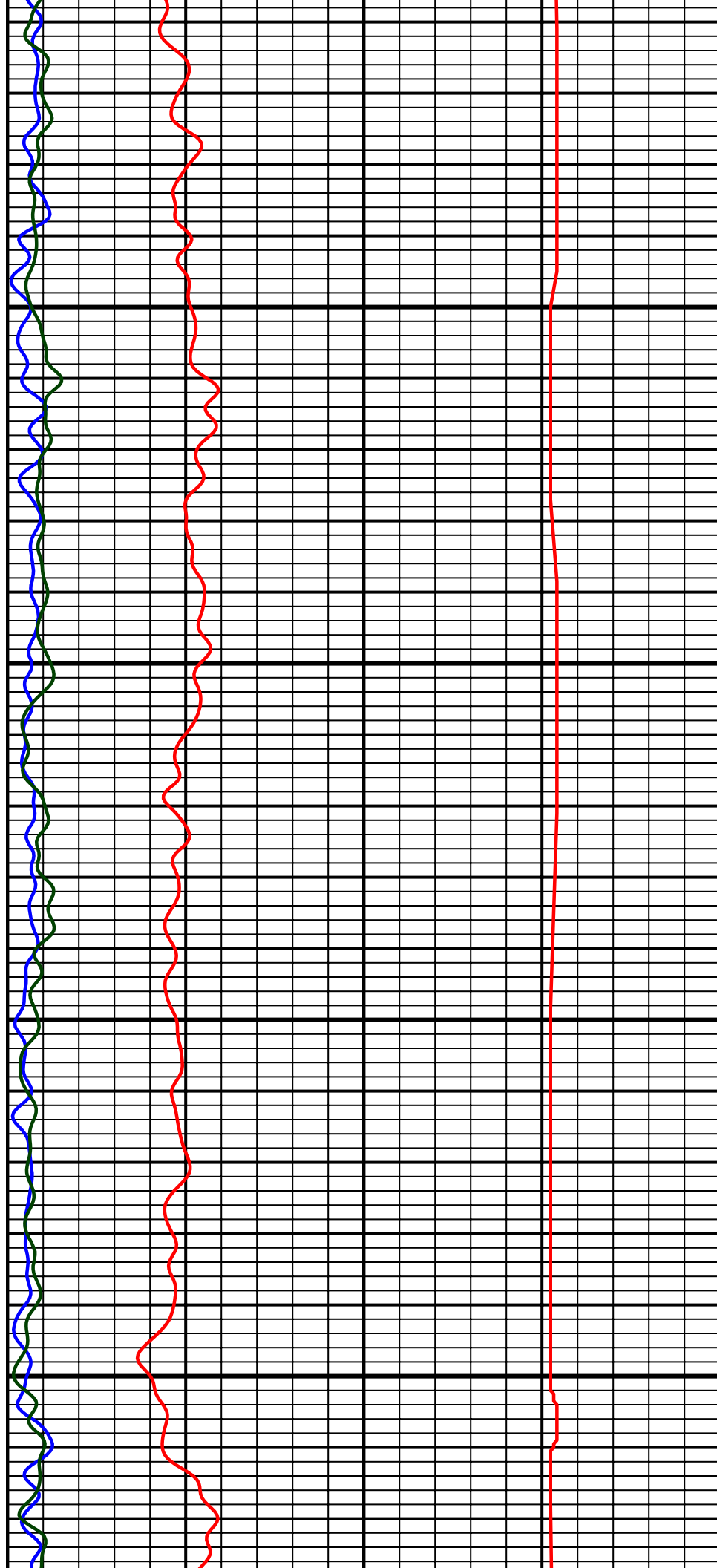
10900
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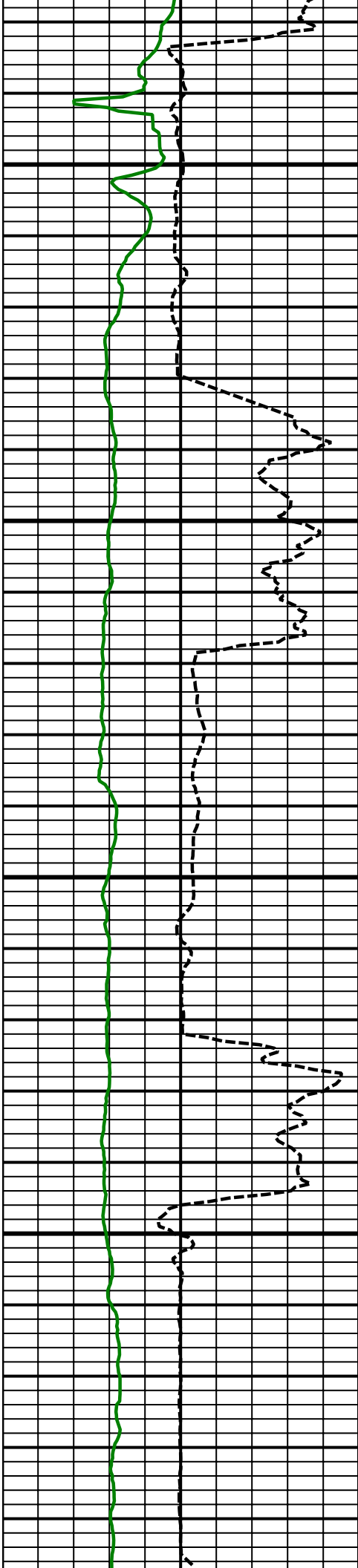




11000
MD

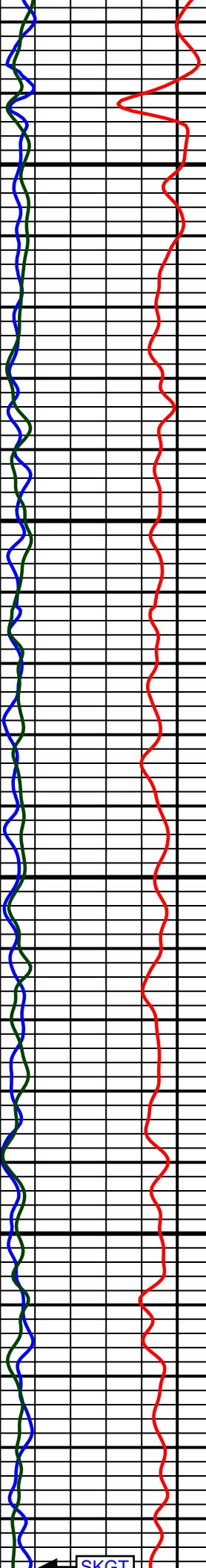
11100
MD



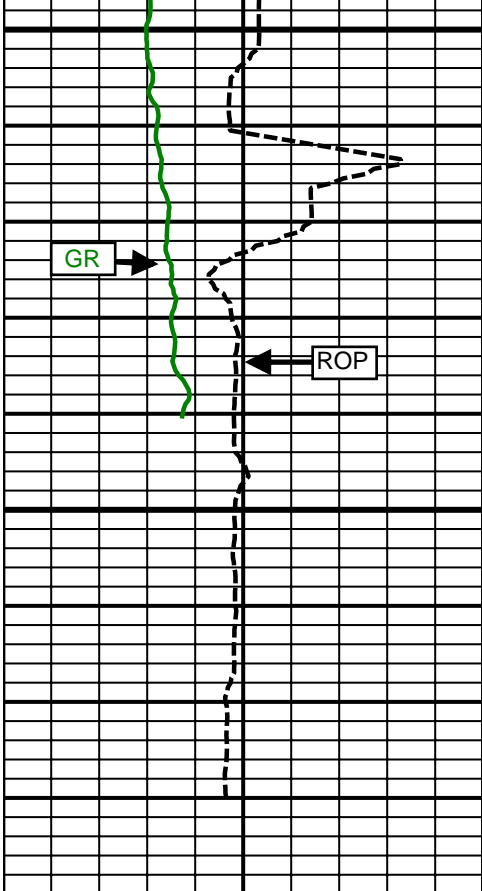


11200
MD

11300
MD

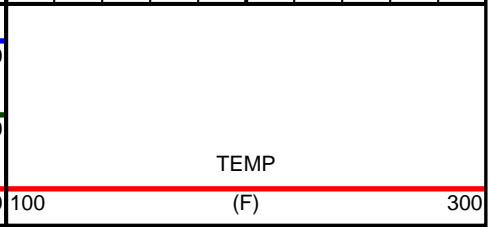
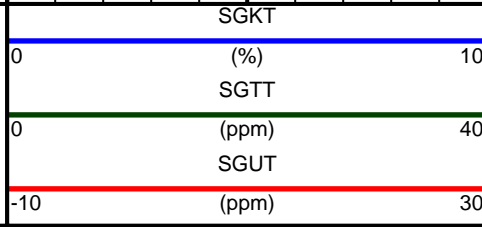
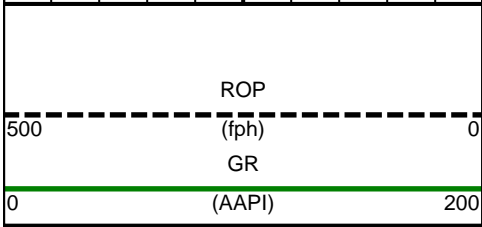
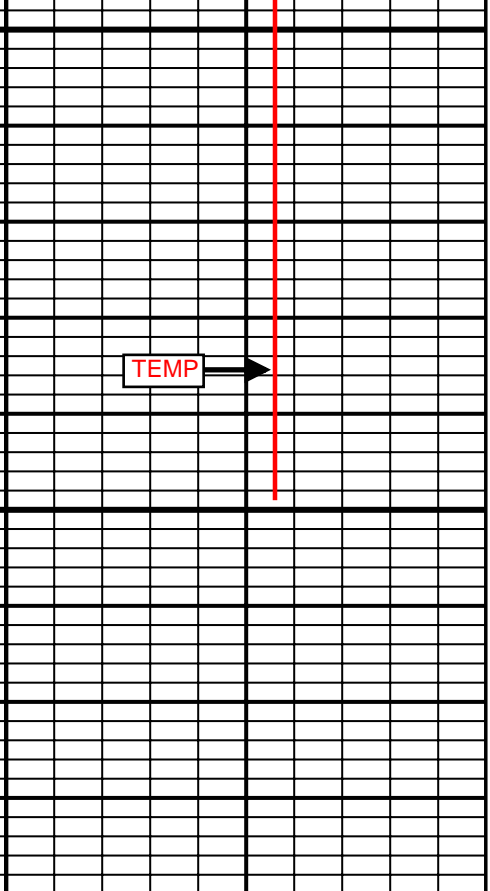
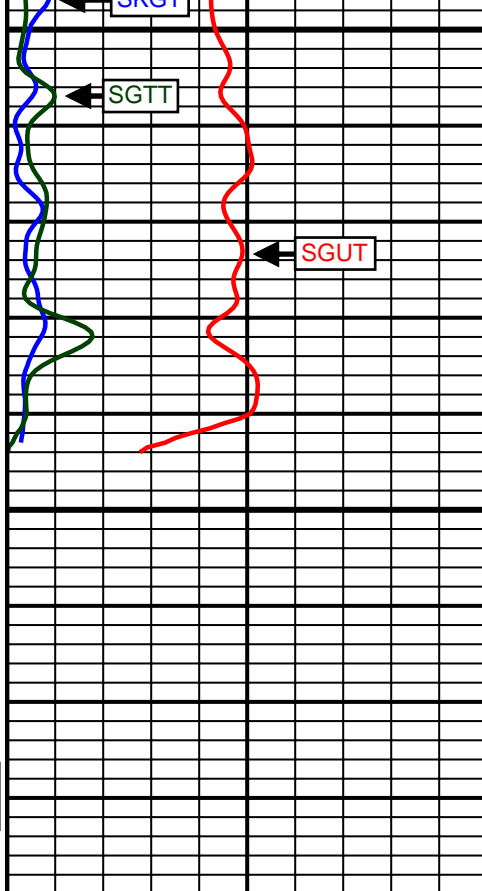


SKGT



11400 MD

Comment
3-2



SURVEY						
Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
True North	185.79 deg	52796 nT	66.81 deg	8.65 deg	0.00 deg	8.65 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	831.00 ft	0.26 deg	275.80 deg	830.99 ft	2.20 ft	-1.79 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
971.00	0.31	321.00	970.99	2.53	-2.34	-2.28	0.16
1064.00	0.22	5.33	1063.99	2.90	-2.49	-2.63	0.23
1158.00	2.26	8.38	1157.96	4.91	-2.20	-4.67	2.17
1251.00	4.14	347.31	1250.81	10.00	-2.67	-9.68	2.35
1345.00	6.14	337.63	1344.43	17.96	-5.33	-17.33	2.31
1438.00	7.76	325.09	1436.75	27.71	-10.82	-26.48	2.38
1523.00	9.20	326.19	1520.82	38.06	-17.88	-36.07	1.70
1609.00	9.50	324.65	1605.68	49.57	-25.81	-46.71	0.45
1694.00	8.83	330.94	1689.59	60.99	-33.04	-57.35	1.42
1779.00	8.87	331.09	1773.58	72.43	-39.38	-68.09	0.05
1865.00	8.56	324.53	1858.59	83.45	-46.30	-78.35	1.21
1950.00	8.48	325.09	1942.65	93.74	-53.55	-87.86	0.14
2035.00	7.79	325.58	2026.80	103.63	-60.40	-97.01	0.82
2120.00	7.66	332.38	2111.03	113.40	-66.28	-106.14	1.09
2205.00	9.06	327.17	2195.12	124.04	-72.53	-116.09	1.87
2291.00	10.17	328.28	2279.91	136.19	-80.20	-127.41	1.31
2376.00	9.59	326.83	2363.65	148.50	-88.02	-138.87	0.74
2462.00	9.04	326.31	2448.52	160.12	-95.68	-149.65	0.65
2547.00	8.05	323.73	2532.58	170.48	-102.91	-159.22	1.25
2633.00	9.16	329.70	2617.61	181.24	-109.93	-169.23	1.66
2718.00	8.72	327.02	2701.57	192.49	-116.85	-179.72	0.71
2803.00	8.06	324.88	2785.67	202.77	-123.78	-189.24	0.86
2889.00	9.16	330.34	2870.70	213.65	-130.64	-199.38	1.59
2974.00	11.21	332.96	2954.35	226.89	-137.74	-211.83	2.47
3059.00	10.86	333.28	3037.78	241.40	-145.10	-225.53	0.42
3145.00	10.83	330.47	3122.25	255.66	-152.72	-238.95	0.62
3230.00	9.85	331.39	3205.86	269.00	-160.14	-251.47	1.17
3315.00	9.04	330.45	3289.71	281.19	-166.92	-262.91	0.97
3400.00	8.94	326.66	3373.67	292.52	-173.84	-273.49	0.71
3486.00	7.90	329.48	3458.74	303.19	-180.51	-283.43	1.30
3571.00	7.38	329.73	3542.99	312.94	-186.23	-292.55	0.61
3656.00	8.28	320.87	3627.19	322.40	-192.85	-301.30	1.77
3742.00	9.00	321.10	3712.22	332.44	-200.98	-310.47	0.84
3827.00	8.46	327.42	3796.24	342.88	-208.52	-320.10	1.29
3913.00	8.79	333.39	3881.26	354.09	-214.87	-330.60	1.11
3998.00	9.85	331.40	3965.14	366.28	-221.26	-342.09	1.30
4084.00	10.37	331.30	4049.81	379.52	-228.50	-354.54	0.60
4170.00	8.83	330.04	4134.60	392.03	-235.51	-366.27	1.81
4255.00	8.22	330.22	4218.66	402.96	-241.79	-376.51	0.72
4340.00	8.67	327.62	4302.74	413.64	-248.24	-386.49	0.69
4426.00	9.73	322.83	4387.63	424.91	-256.10	-396.91	1.52
4511.00	9.77	321.92	4471.40	436.31	-264.89	-407.36	0.19

4597.00	9.40	320.23	4556.20	447.45	-273.88	-417.54	0.54
4682.00	9.09	323.84	4640.10	458.21	-282.28	-427.39	0.77
4768.00	8.24	326.36	4725.12	468.82	-289.71	-437.21	1.08
4853.00	8.38	327.48	4809.23	479.12	-296.41	-446.77	0.25
4938.00	8.61	326.14	4893.29	489.62	-303.28	-456.53	0.36
5024.00	9.18	326.03	4978.26	500.66	-310.70	-466.76	0.66
5109.00	8.61	328.68	5062.24	511.72	-317.80	-477.05	0.83
5195.00	8.93	326.64	5147.23	522.79	-324.82	-487.36	0.52
5280.00	8.72	327.91	5231.22	533.76	-331.87	-497.56	0.34
5365.00	9.10	327.34	5315.20	544.88	-338.92	-507.91	0.46
5450.00	8.71	331.09	5399.17	556.17	-345.66	-518.46	0.82
5536.00	8.84	329.43	5484.17	567.56	-352.17	-529.14	0.33
5621.00	9.85	327.62	5568.04	579.33	-359.38	-540.11	1.24
5707.00	8.36	327.52	5652.95	590.81	-366.68	-550.81	1.73
5792.00	7.89	332.63	5737.10	601.21	-372.68	-560.54	1.01
5877.00	6.44	333.26	5821.43	610.64	-377.51	-569.45	1.71
5963.00	7.35	329.25	5906.81	619.68	-382.49	-577.93	1.20
6048.00	6.60	331.04	5991.18	628.63	-387.63	-586.31	0.92
6134.00	5.26	325.03	6076.72	636.18	-392.29	-593.36	1.72
6219.00	3.28	323.63	6161.48	641.33	-395.96	-598.12	2.33
6304.00	1.78	328.86	6246.40	644.42	-398.09	-600.97	1.78
6340.00	1.19	328.27	6282.38	645.22	-398.57	-601.72	1.64
6387.00	1.82	203.43	6329.38	644.95	-399.13	-601.39	5.71
6430.00	7.26	181.38	6372.23	641.60	-399.46	-598.03	13.06
6473.00	12.49	179.23	6414.57	634.23	-399.47	-590.70	12.19
6515.00	17.10	179.97	6455.17	623.51	-399.40	-580.04	10.99
6558.00	21.30	181.90	6495.77	609.38	-399.66	-565.95	9.88
6601.00	24.61	183.20	6535.36	592.63	-400.42	-549.21	7.79
6643.00	27.42	185.83	6573.10	574.27	-401.89	-530.80	7.23
6686.00	31.28	185.83	6610.58	553.31	-404.03	-509.72	8.98
6729.00	35.84	185.14	6646.40	529.65	-406.29	-485.96	10.64
6772.00	40.35	182.61	6680.23	503.19	-408.05	-459.46	11.10
6814.00	42.56	181.73	6711.71	475.41	-409.10	-431.71	5.44
6857.00	46.55	180.94	6742.34	445.25	-409.80	-401.64	9.37
6900.00	51.73	182.14	6770.47	412.76	-410.68	-369.22	12.23
6942.00	54.63	181.22	6795.63	379.15	-411.67	-335.69	7.12
6985.00	56.99	180.18	6819.80	343.59	-412.10	-300.26	5.84
7028.00	58.94	179.35	6842.60	307.14	-411.94	-264.02	4.82
7070.00	62.63	179.53	6863.10	270.49	-411.59	-227.59	8.79
7113.00	65.77	180.93	6881.81	231.78	-411.75	-189.06	7.87
7156.00	69.21	182.17	6898.27	192.08	-412.83	-149.45	8.43
7199.00	76.24	181.31	6911.04	151.07	-414.07	-108.52	16.46
7241.00	80.95	181.20	6919.34	109.92	-414.97	-67.49	11.22
7265.00	83.56	180.75	6922.57	86.14	-415.37	-43.80	11.03
7346.00	90.68	178.07	6926.64	5.31	-414.53	36.54	9.39
7431.00	90.00	178.02	6926.14	-79.64	-411.63	120.76	0.80
7517.00	89.82	176.74	6926.27	-165.55	-407.70	205.83	1.50
7602.00	91.11	178.45	6925.58	-250.47	-404.14	289.96	2.52
7687.00	91.85	177.43	6923.39	-335.38	-401.08	374.13	1.48
7773.00	93.00	178.07	6919.75	-421.24	-397.71	459.21	1.53
7858.00	93.64	180.24	6914.82	-506.08	-396.46	543.49	2.66
7943.00	92.84	181.80	6910.02	-590.93	-397.97	628.06	2.06
8029.00	91.42	183.48	6906.82	-676.77	-401.93	713.87	2.56
8114.00	90.12	183.69	6905.68	-761.59	-407.24	798.79	1.55
8199.00	89.14	184.01	6906.23	-846.40	-412.95	883.74	1.21
8284.00	88.27	182.13	6908.15	-931.25	-417.50	968.62	2.44
8370.00	90.06	181.10	6909.40	-1017.20	-419.92	1054.38	2.40
8455.00	90.86	179.11	6908.72	-1102.20	-420.08	1138.95	2.52
8541.00	90.55	178.55	6907.66	-1188.17	-418.32	1224.31	0.74
8626.00	91.23	179.39	6906.34	-1273.15	-416.80	1308.70	1.27
8712.00	91.17	180.65	6904.54	-1359.12	-416.83	1394.24	1.47

8797.00	90.25	180.46	6903.49	-1444.11	-417.65	1478.88	1.11
8883.00	88.89	179.53	6904.13	-1530.11	-417.64	1564.43	1.92
8968.00	89.12	180.19	6905.61	-1615.09	-417.43	1648.97	0.82
9054.00	89.01	179.10	6907.01	-1701.08	-416.90	1734.46	1.27
9139.00	88.59	177.19	6908.79	-1786.01	-414.15	1818.68	2.30
9224.00	89.94	177.12	6909.88	-1870.90	-409.93	1902.71	1.59
9310.00	91.42	176.94	6908.86	-1956.77	-405.48	1987.70	1.73
9395.00	92.34	177.95	6906.08	-2041.64	-401.69	2071.75	1.61
9481.00	92.65	180.02	6902.33	-2127.54	-400.17	2157.06	2.43
9566.00	91.42	181.12	6899.31	-2212.48	-401.01	2241.65	1.94
9652.00	90.99	181.62	6897.50	-2298.44	-403.07	2327.37	0.77
9737.00	90.18	181.95	6896.64	-2383.39	-405.72	2412.16	1.03
9822.00	89.69	182.36	6896.73	-2468.33	-408.91	2496.99	0.75
9908.00	89.47	181.25	6897.36	-2554.28	-411.62	2582.78	1.32
9993.00	88.77	179.79	6898.67	-2639.27	-412.39	2667.41	1.90
10079.00	89.51	177.61	6899.96	-2725.23	-410.44	2752.73	2.68
10164.00	91.36	176.90	6899.31	-2810.13	-406.37	2836.79	2.33
10249.00	92.96	177.77	6896.11	-2894.97	-402.42	2920.80	2.14
10334.00	91.30	179.48	6892.95	-2979.88	-400.38	3005.07	2.80
10420.00	88.77	180.51	6892.90	-3065.87	-400.38	3090.62	3.18
10505.00	89.38	179.13	6894.27	-3150.86	-400.11	3175.15	1.77
10591.00	91.11	179.28	6893.90	-3236.85	-398.92	3260.58	2.02
10676.00	92.96	180.93	6890.89	-3321.79	-399.07	3345.10	2.92
10762.00	92.22	181.48	6887.00	-3407.68	-400.88	3430.74	1.07
10847.00	90.86	183.11	6884.71	-3492.57	-404.28	3515.54	2.50
10932.00	87.72	183.41	6885.77	-3577.42	-409.11	3600.44	3.71
11018.00	87.04	180.94	6889.70	-3663.26	-412.37	3686.17	2.98
11103.00	87.18	178.42	6893.99	-3748.14	-411.90	3770.58	2.97
11188.00	88.09	178.60	6897.49	-3833.04	-409.69	3854.82	1.09
11273.00	89.32	180.96	6899.41	-3918.01	-409.37	3939.32	3.13
11359.00	90.74	181.39	6899.37	-4003.99	-411.13	4025.04	1.73
11424.00	90.86	181.11	6898.46	-4068.97	-412.55	4089.83	0.47
11479.00	90.86	181.11	6897.64	-4123.95	-413.61	4144.64	0.00

Weatherford M/LWD surveys from 971.00 ft MD to 11424 ft MD.

TD at 11479.00 ft MD.

The total correction is 8.65 deg relative to True North.



Weatherford®

Final Print

COMPANY	<u>Anadarko</u>		
WELL	<u>Palyo 13N-11HZ</u>		
FIELD	<u>Wattenberg</u>		
RIG	<u>Xtreme 23</u>		
LOC.	<u>Colorado</u>	COUNTY	<u>Weld</u>