



# Weatherford®

**6 3/4 in. & 4 3/4 in. WeatherfordLWD™  
Spectral Gamma Ray & Resistivity  
5 in. MEASURED DEPTH  
RECORDED DATA  
FINAL PRINT**

Company: Anadarko Petroleum Corp.  
Well: Camp 24N-30HZ  
Field: Wattenberg  
Rig: H&P 307  
County: Weld

Location		Other Services: Directional and Temperature	
Latitude:	40.17594° N	X = 3,223,102.37 ft	Mag Decl: 8.67°
Longitude:	104.70157° W	Y = 1,307,943.67 ft	Mag Dip: 66.82°

COMPANY	Anadarko Petroleum Corp.		
WELL	Camp 24N-30HZ		
FIELD	Wattenberg		
RIG	H&P 307		
COUNTY	Weld	STATE	Colorado
API #	05-123-35256		

Permanent Datum: <u>Mean Sea Level</u>						
Log Measured From: <u>Drill Floor</u>	Elev: <u>4974 ft</u>	above perm. datum				
Depth Reference: <u>Drillers Tally</u>	Total Depth: <u>13978 ft</u>			<u>Elevation</u>		
Depth Logged: 6550 ft	to 13978 ft	Runs: 3	K.B. na			
Date Logged: 20-Jun-12	to 26-Jun-12	Spud Date: 1-May-12	G.L. 4949 ft			
			D.F. 4974 ft			
			W.D. na			
Borehole Record		Casing Record				
Hole Size	From	To	Size	Weight	From	To
13.500 in.	0 ft	864 ft	9.625 in.	52.00 lb/ft	Surface	864 ft
8.750 in.	864 ft	7539 ft	7.000 in.	39.0 lb/ft	Surface	7530ft
6.125 in.	7539 ft	13978 ft				
Borehole Deviation Record			Mud Record			
Hole Size	Min. Inc.	Max. Inc.	Type	Weight	From	To
8.750 in.	0.07°	84.64°	WBM	8.40 - 10.20 ppg	864 ft	13978 ft
6.125 in.	85.56°	93.95°				

**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							
MWD/LWD Run Number	1	2	3	4	5	6	7
Bit Size in.	8.750	8.750	6.125				
Bit Type	PDC	PDC	PDC				
Bit TFA sq.in.	0.632	1.011	0.610				
Bit Start Depth ft	864	6585	7539				
Bit End Depth ft	6585	7539	13978				
Top Log Interval ft	-	6540	7464				
Bottom Log Interval ft	-	7497	13978				
Begin Log Time hrs	-	15:23	2:08				
Begin Log Date DD-MMM-YY	-	20-Jun-12	24-Jun-12				
End Log Time hrs	-	1:00	22:58				
End Log Date DD-MMM-YY	-	22-Jun-12	26-Jun-12				
Drill or Wipe	Drill	Drill	Drill				
Flow Rate gal/min	569	526	308				
Max AV / CV @ MWD ft/min	450 / 357	327/ 395	494 / 314				
Min Inc @ Depth deg @ ft	0.07 @ 3287	0.75 @ 6562	85.56 @ 11128				
Max Inc @ Depth deg @ ft	6.67 @ 4710	84.68 @ 7479	93.95 @ 13126				
MUD DATA							
Depth ft	6585	7539	13978				
Fluid Type	WBM	WBM	WBM				
Mud Weight ppg	9.20	9.70	10.02				
Plastic Viscosity cP	12	13	11				
Solids / Sand %	3.7 / 0.20	5.7 / 0.40	9.5 / 0.08				
NaCl Equiv. Chlorides ppm	1000	1000	1650				
pH	9	8.5	WBM				
Oil:Water Ratio % Vol	0.0 : 96.00	2.0 : 92.0	3.3 : 96.7				
Rm @ Temperature ohm-m @ deg F	na	na	1.95 @ 75 F				
Rmc @ Temperature ohm-m @ deg F	na	na	1.15 @ 75 F				
Rmf @ Temperature ohm-m @ deg F	na	na	2.20 @ 75 F				
KCl % Vol	0	0	0				
Client Representative	D. Barrone	D. Barrone	P. Cain				
WeatherfordLWD Engineer	J. Leger	J. Leger	J. Hunter				

## EQUIPMENT SUMMARY

MWD/LWD Run Number	1	2	3	4	5
PP Serial Number	CP20404PDIRHY-T01	CP20404PDIRHY-T01	na		
HEL Serial Number	na	na	NW20802PDDB4.75		
MFR Serial Number	na	na	NW20799RBBK4.75M1		
IDS Serial Number	na	na	NW20800BI4.75		
SAGR Serial Number	na	na	NW20801JB4.75-M1		
<b>Sensor to Bit Offsets / Acquisition Rates</b>					
Directional	ft / sec	58.67 / RT	59.09 / RT	54.48 / RT	
Gamma Ray	ft / sec	na	44.85 / 16	39.79 / 10	
Resistivity	ft / sec	na	na	75.65 / 10	
<b>Other Information</b>					
Total BHA Length	ft	96.44	97.32	144.36	
BHA Assembly Type		Steerable	Steerable	Steerable	
Stabilizer Location	ft	na	na	31.76	
Stabilizer Location	ft	na	na	107.42	
Stabilizer Location	ft	na	na	na	
Run Circulating Time	hr	40.29	37.55	68.07	
Run Drilling Time	hr	26.75	18.09	38.83	

## MUD SUMMARY

Date and Time	Run	Bit Depth	Mud Weight	% K	Rm @ Temp	Rmf @ Temp	Rmc @ Temp	BHCT
20 Jun 12 @ 00:00	01	6585 ft	9.2 ppg	0	na	na	na	170 F
22 Jun 12 @ 06:00	02	7539 ft	9.70 ppg	0	na	na	na	174 F
27 Jun 12 @ 00:00	03	13978 ft	10.20 ppg	0	1.95 @ 75 F	2.20 @ 75 F	1.15 @ 75 F	260 F

## MWD/LWD RUN REMARKS

**Run Number: 1 :: RECORDED DATA LOG**

**WFT Services Provided:**

Real Time Logging: Temperature.

Directional Services: On demand Inclination and Azimuth.

**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.: 3.250 in.

K1 Factor: 4.5590

**Run Number: 3 :: RECORDED DATA LOG**

**WFT Services Provided:**

Recorded and Real Time Logging: Gamma Ray, Deep and Shallow Resistivity 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: 10.20 ppg

**Resistivities:** Corrected for borehole temperature, hole size, drilling fluid resistivity

Borehole Temperature: 260 F

and dielectric correction.

Mud Type: WBM

Drilling Fluid Resistivity: 1.95 ohm-m

KCl Concentration: 0%

## MWD/LWD LOG COMMENTS

### Comment No. 1-1

#### RECORDED DATA LOG

Start of MWD Drilling Run 02

Weatherford International provided 6 3/4 in. Directional, Gamma Ray and Temperature for Run 02.

Run 02 started formation drilling June 20, 2012 at 15:23 at 6585 MD / 6576 TVD. Weatherford International logged the 8.750 in. borehole.

The WBM at the start of drilling was 9.35 ppg.

### Comment No. 1-2

End of MWD Drilling Run 02

Run 02 ended drilling formation June 22, 2012 at 1:00 at 7539 MD / 7120 TVD.

The WBM at the end of drilling was 9.70 ppg.

### Comment No. 2-1

#### RECORDED DATA LOG

Start of LWD Drilling Run 03

Weatherford International provided 4 3/4 in. Directional, Resistivity, Spectral Gamma Ray and Temperature for Run 03.

Run 03 started formation drilling June 24, 2012 at 2:08 at 7539 MD / 7120 TVD. Weatherford International logged the 6.125 in. borehole.

The WBM at the start of drilling was 9.85 ppg.

### Comment No. 2-2

End of LWD Drilling Run 03

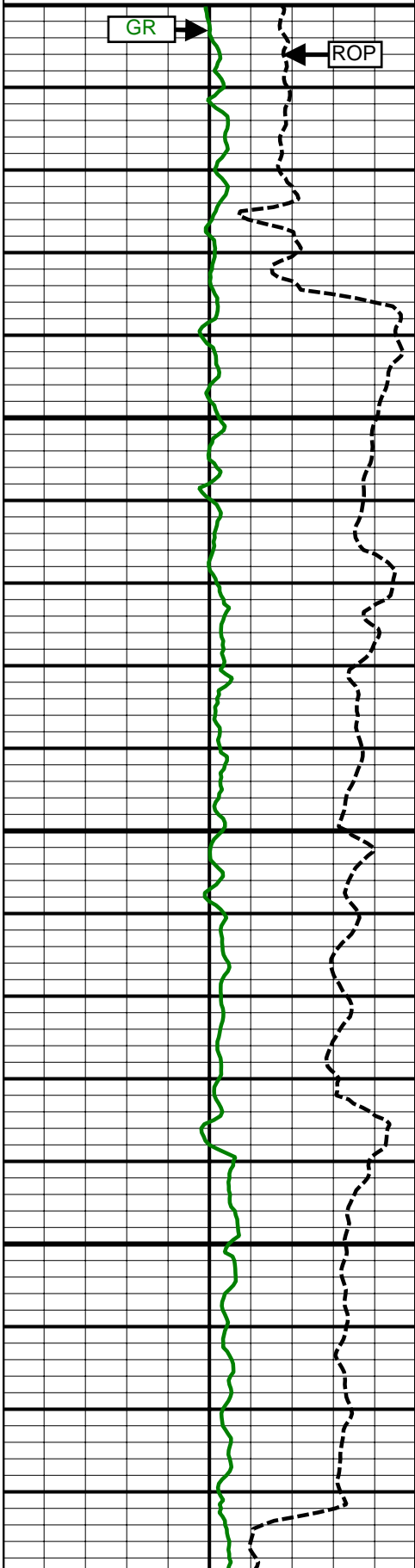
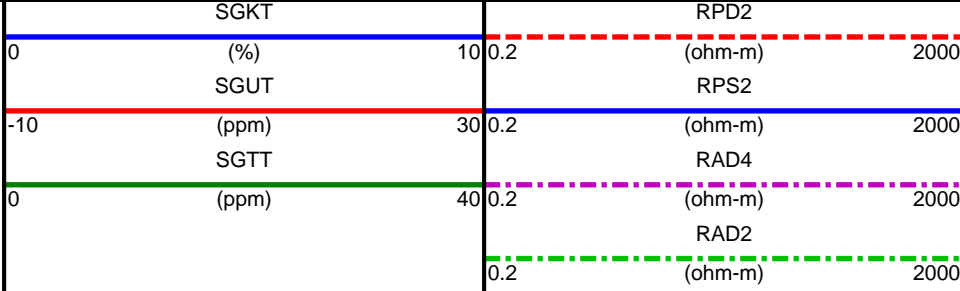
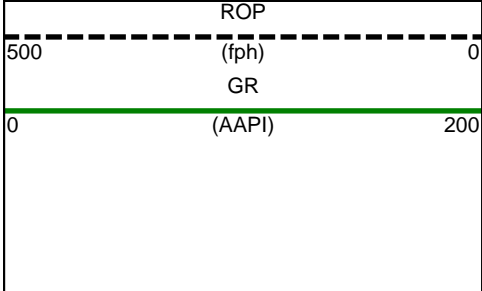
Run 03 ended drilling formation June 26, 2012 at 22:58 at 13978 MD / 7124 TVD.

The WBM at the end of drilling was 10.20 ppg.

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	AAPI	Gamma Ray 3.0 ft window 0.5 ft Exponential Smoothing	See LWD Run Remarks
Deep Phase Resistivity	RPD2	ohm-m	2MHz Deep Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Deep Attenuation Resistivity	RAD4	ohm-m	400kHz Deep Attenuation Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Shallow Phase Resistivity	RPS2	ohm-m	2MHz Shallow Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Deep Attenuation Resistivity	RAD2	ohm-m	2MHz Deep Attenuation Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Potassium Total	SGKT	%	Potassium 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	
Thorium Total	SGTT	ppm	Thorium Concentration 3.0 ft window 0.5 ft Two Stage Smoothing	



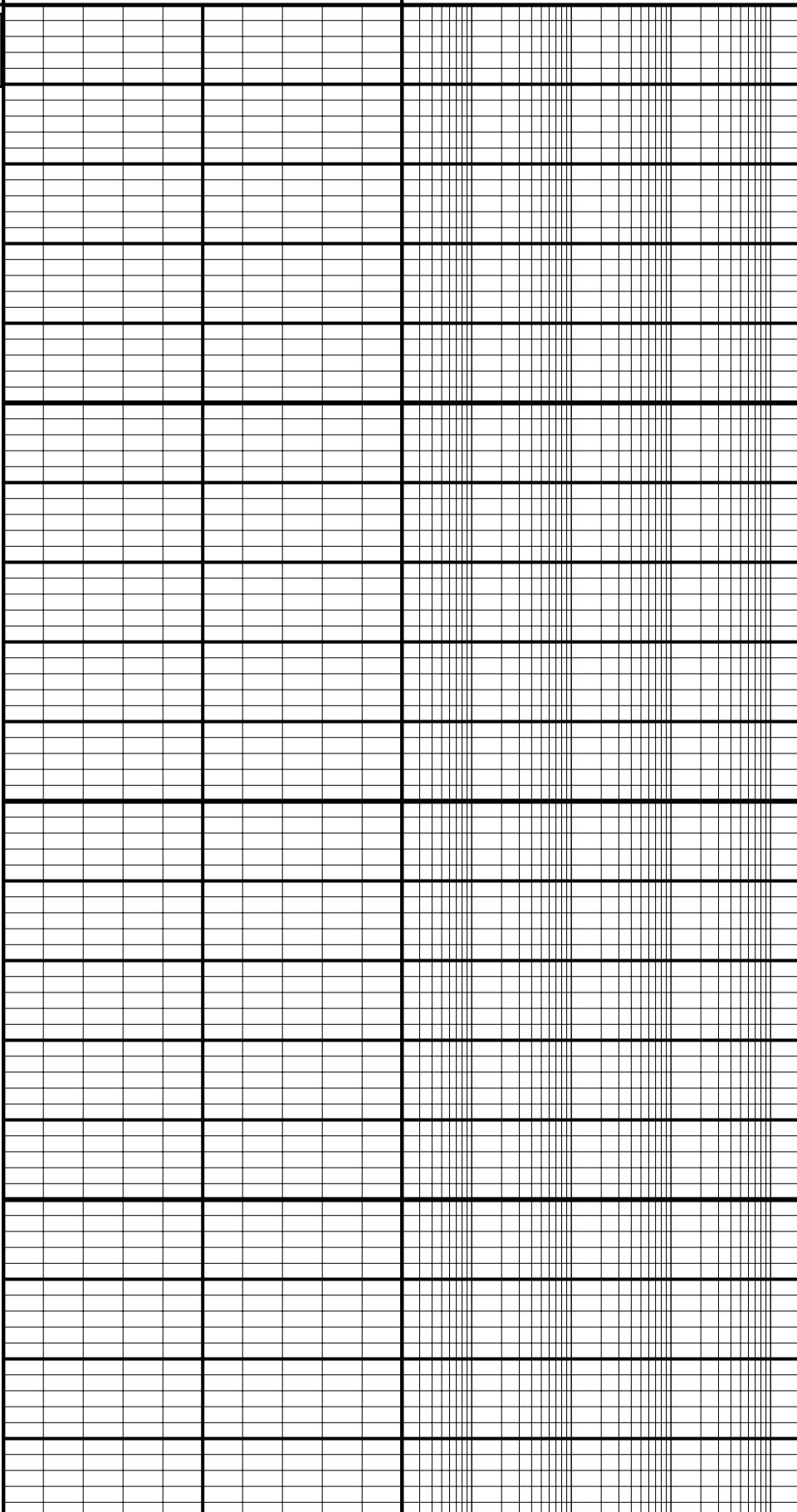
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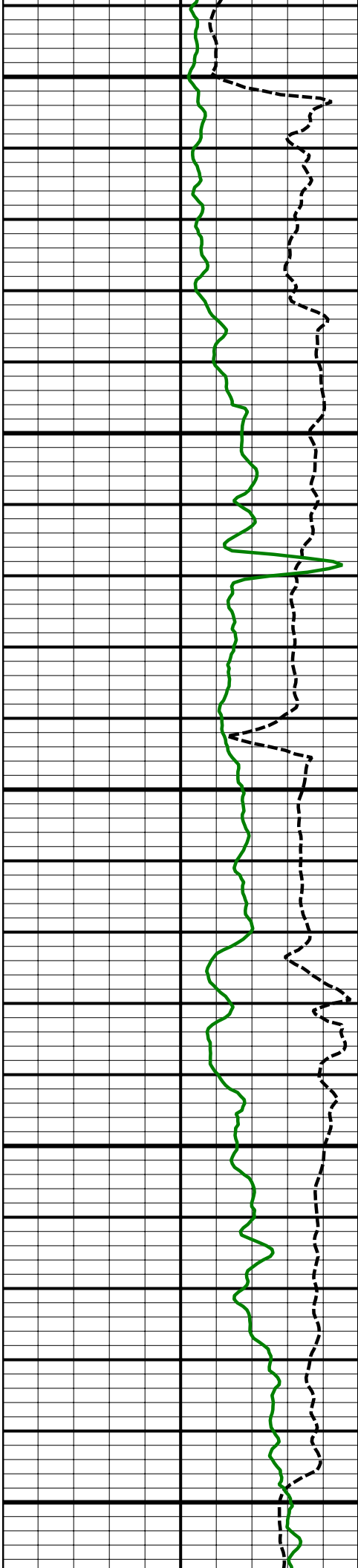


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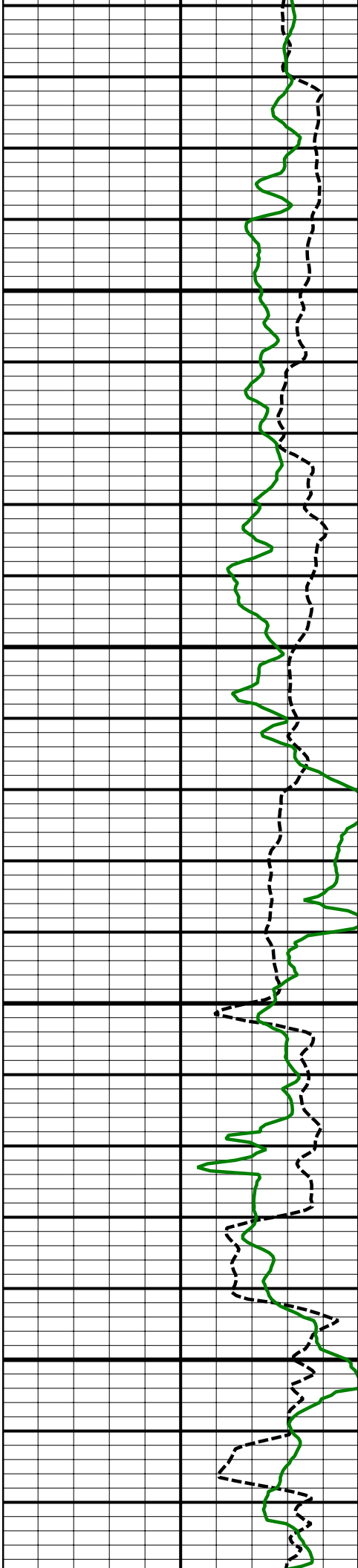
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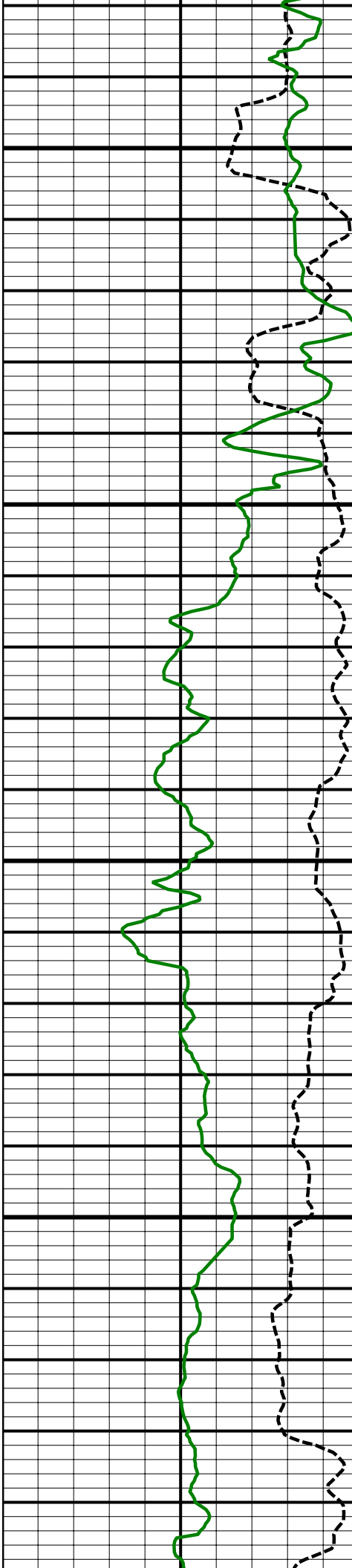
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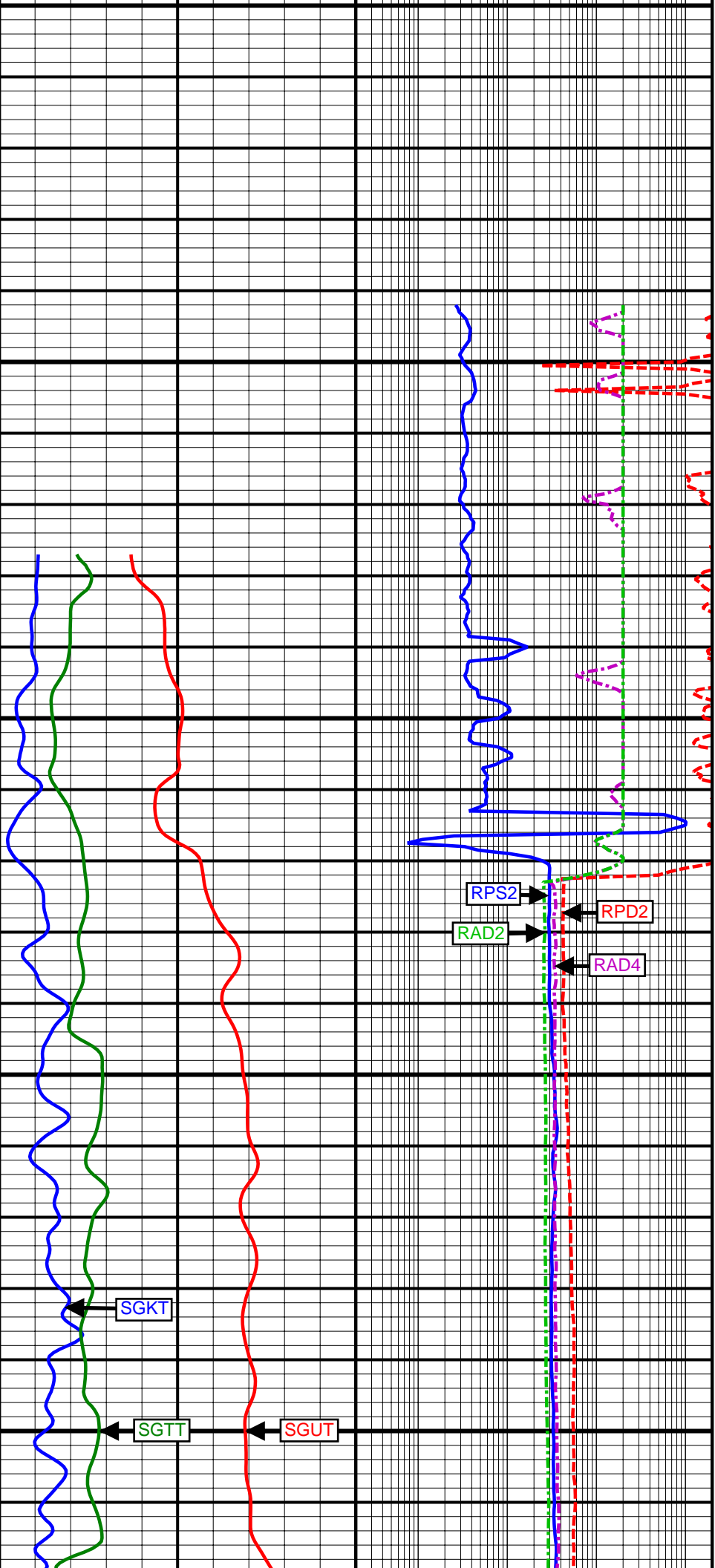
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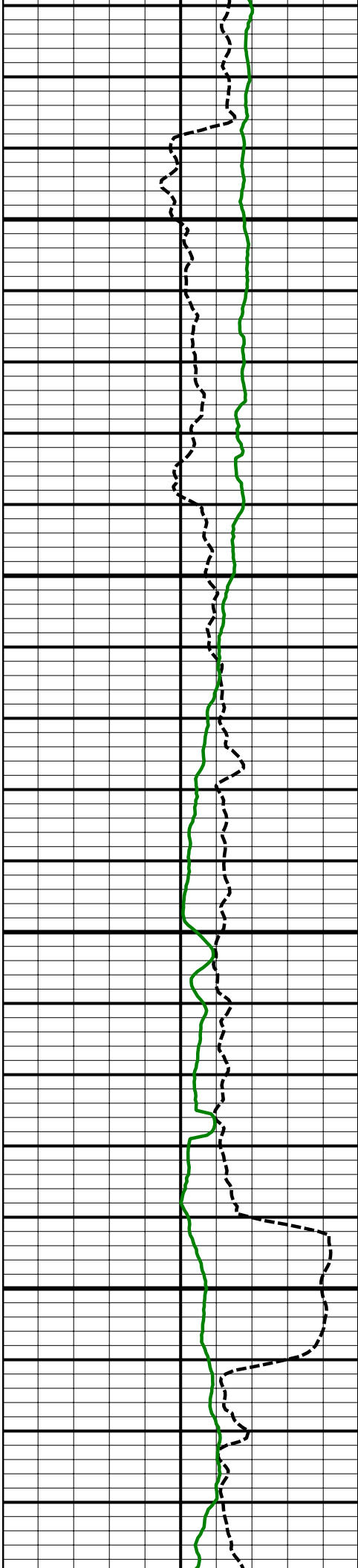
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Comment  
No. 1-2

Comment  
No. 2-1

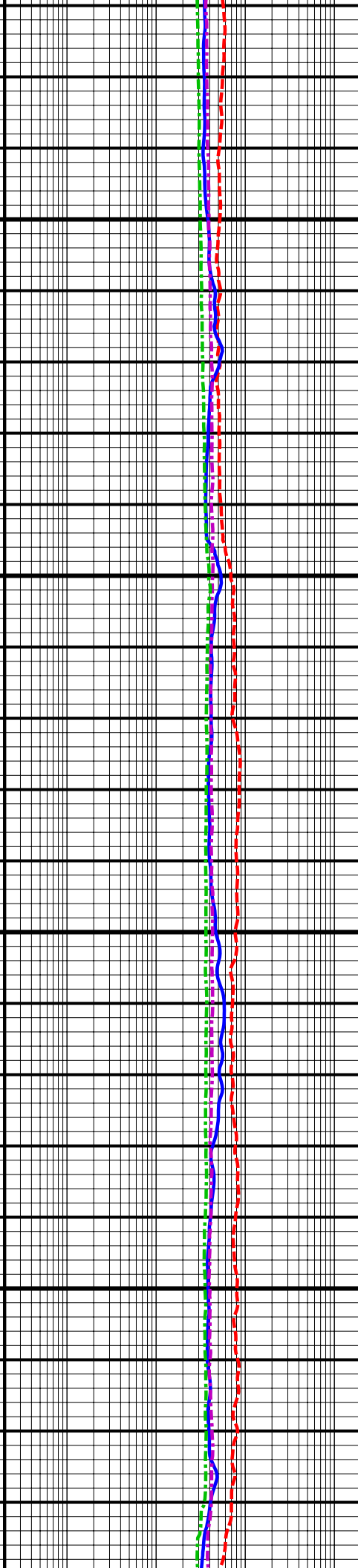
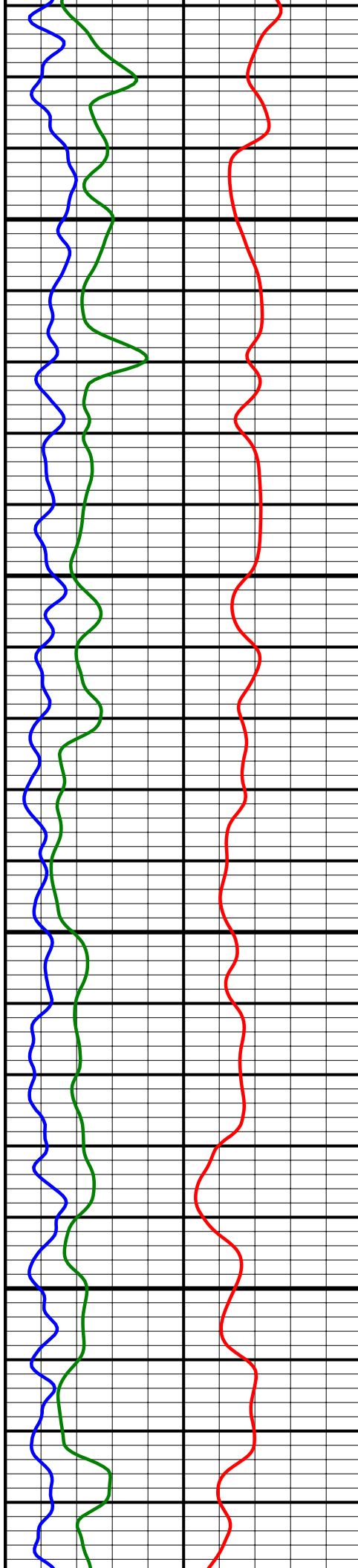
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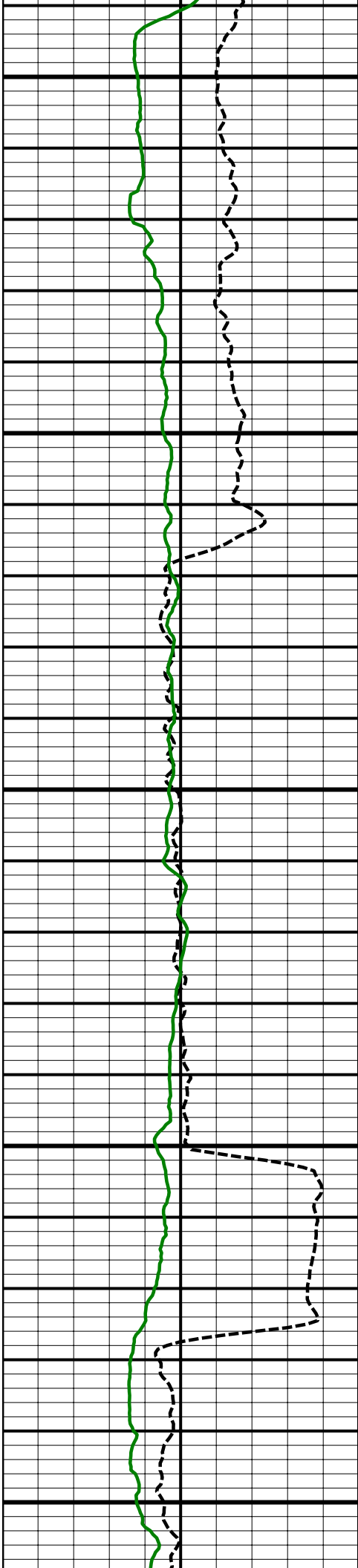




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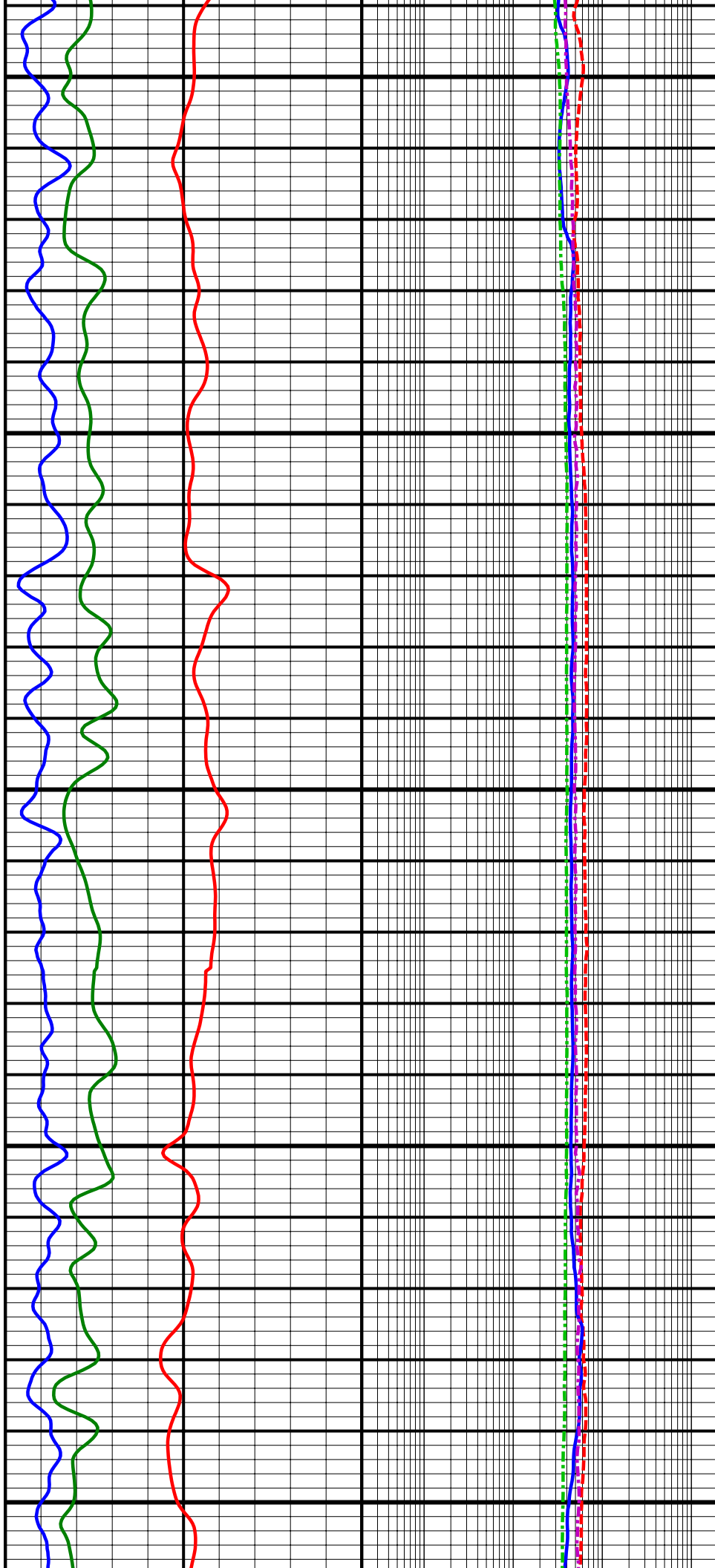
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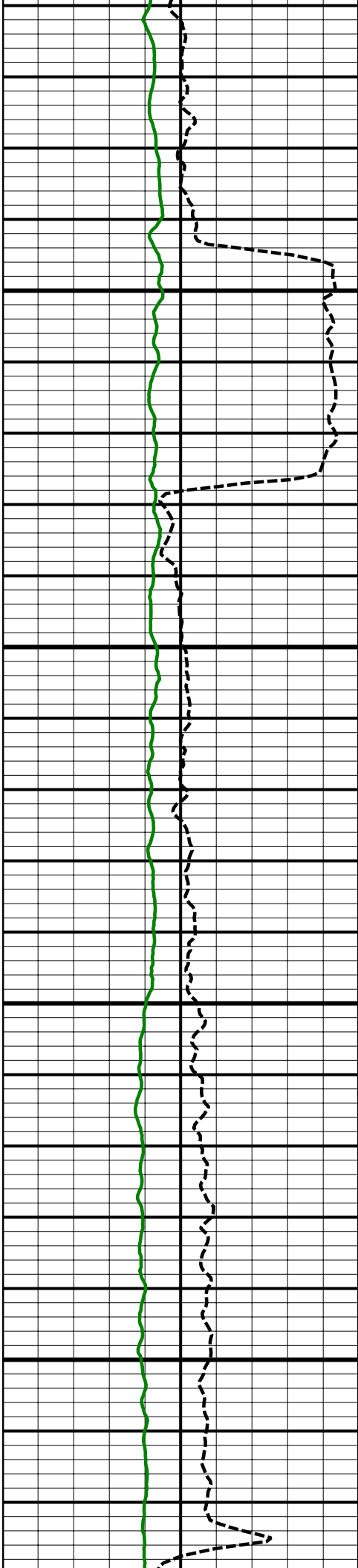


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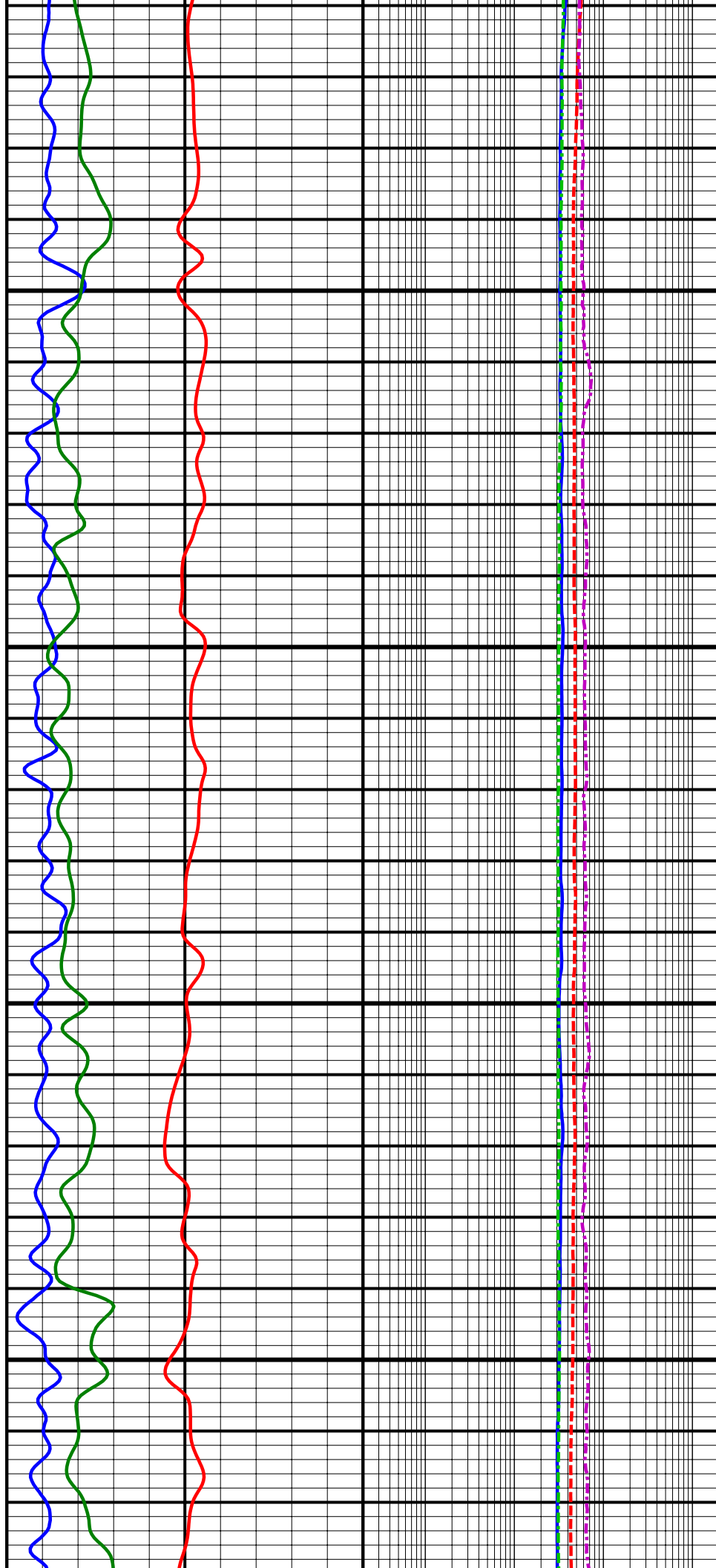


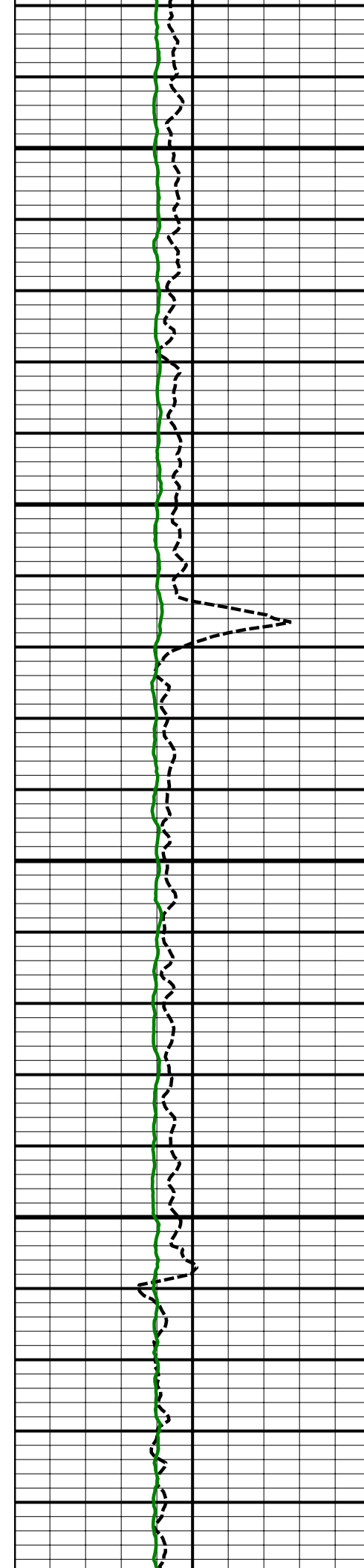




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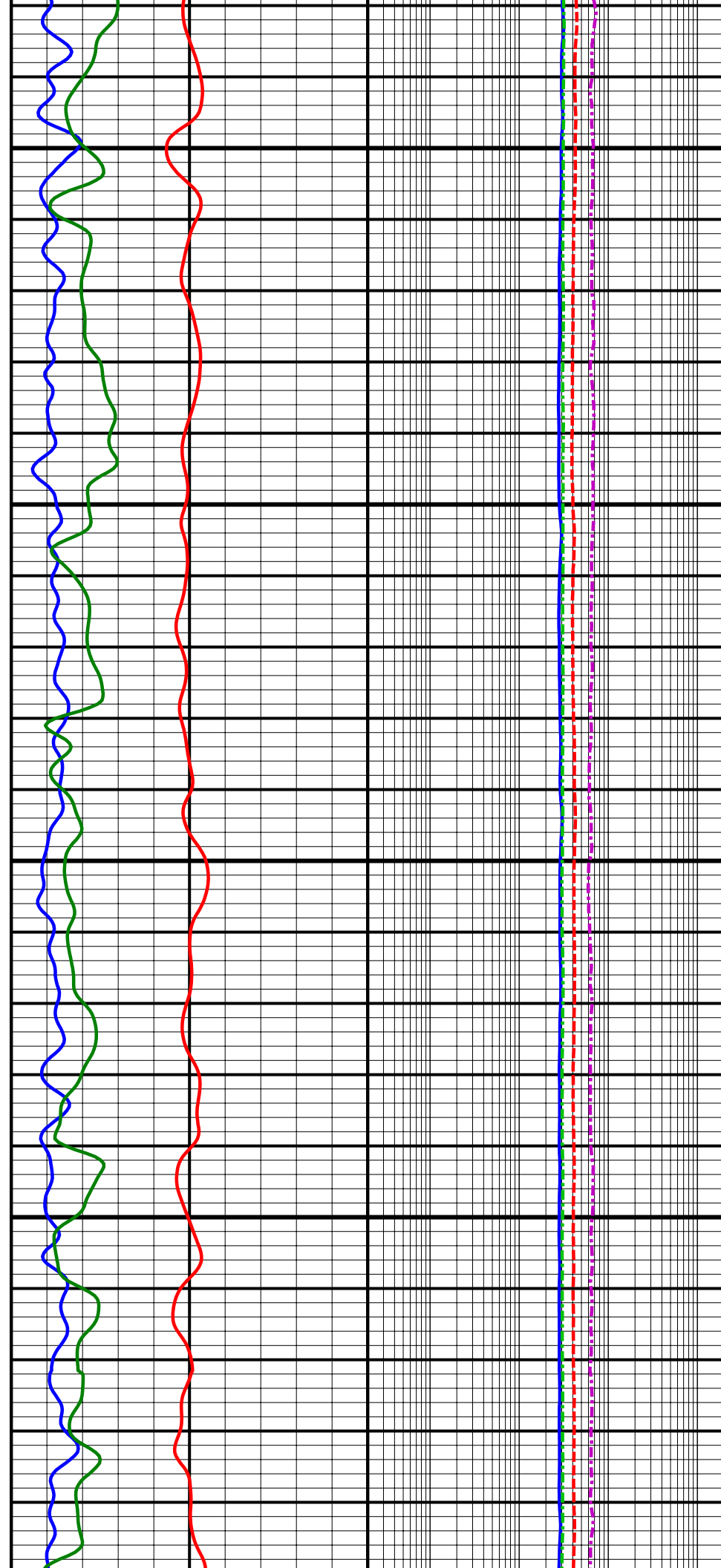


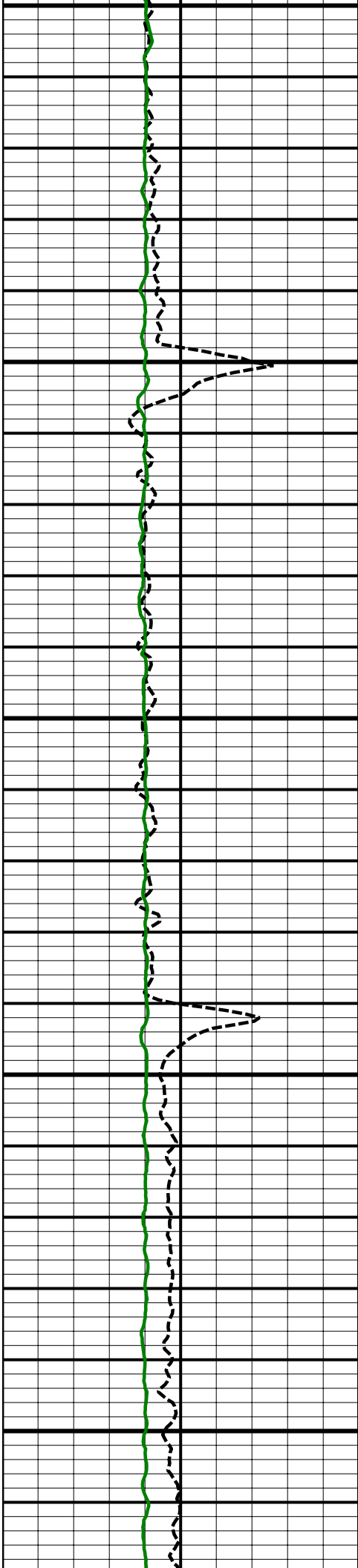


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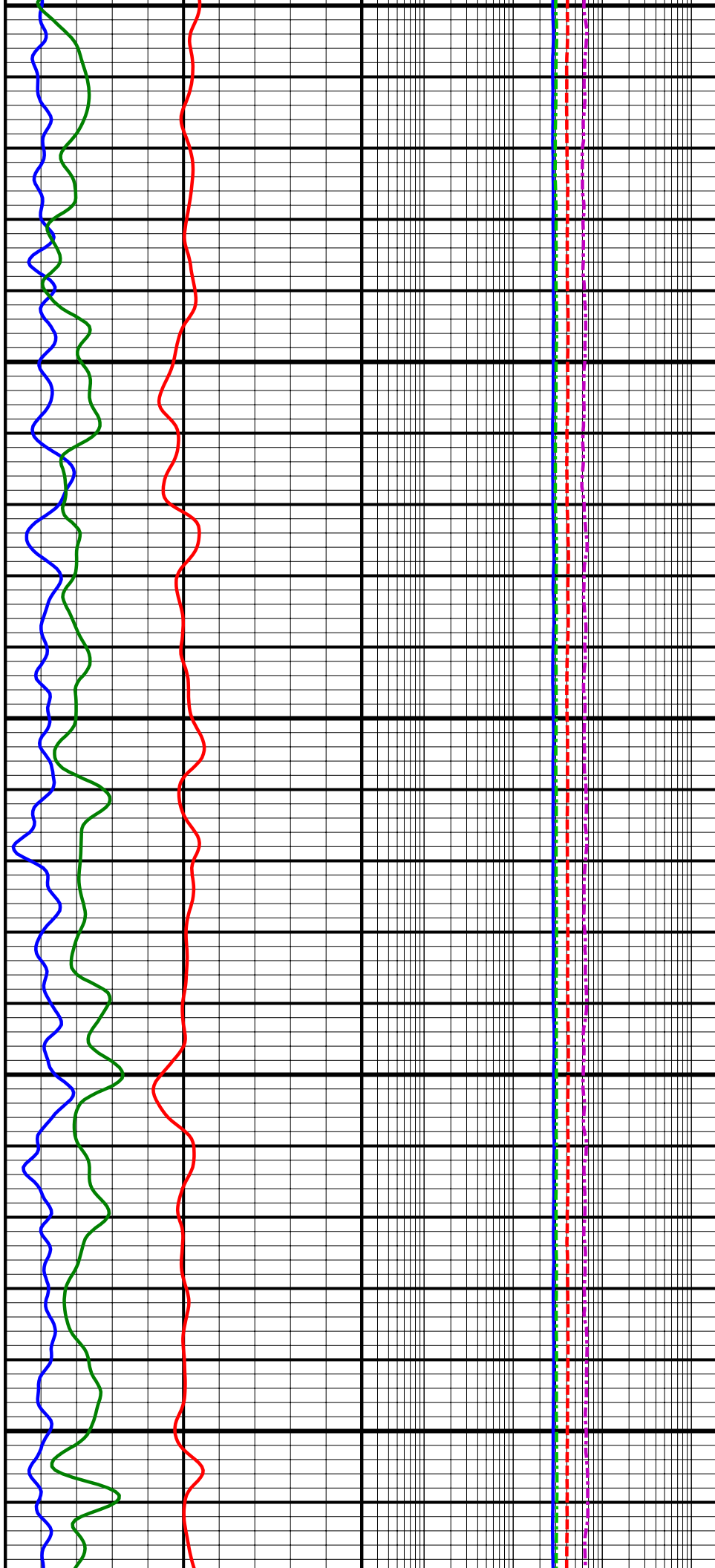


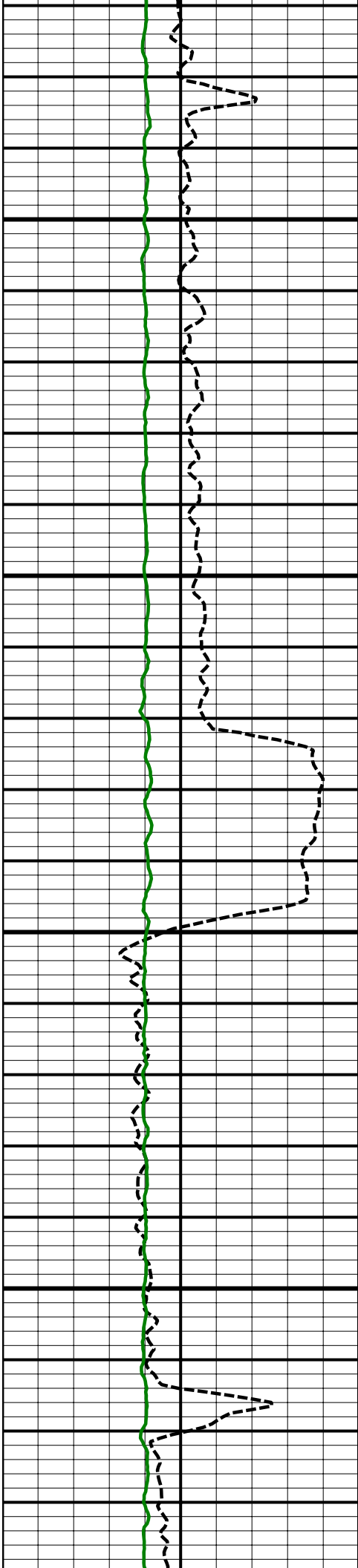


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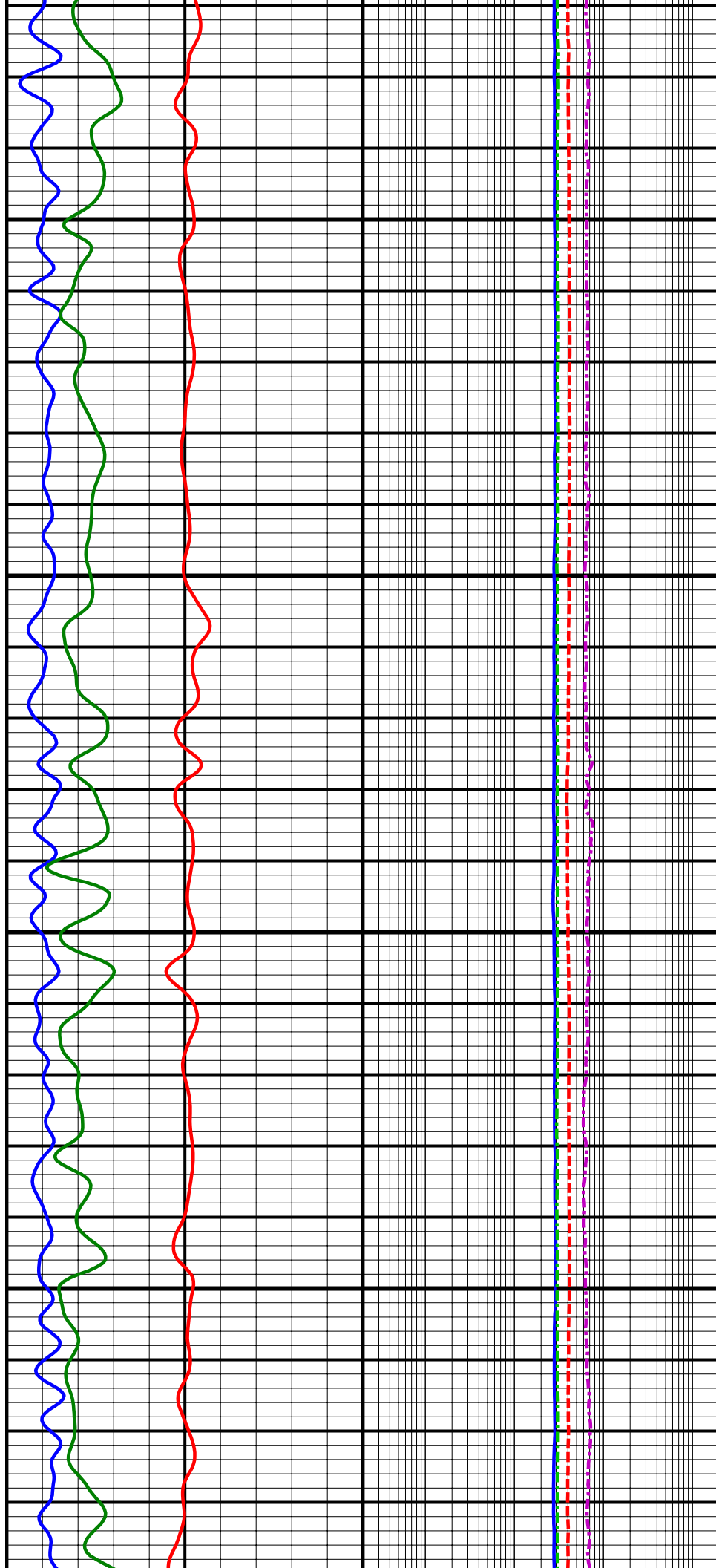
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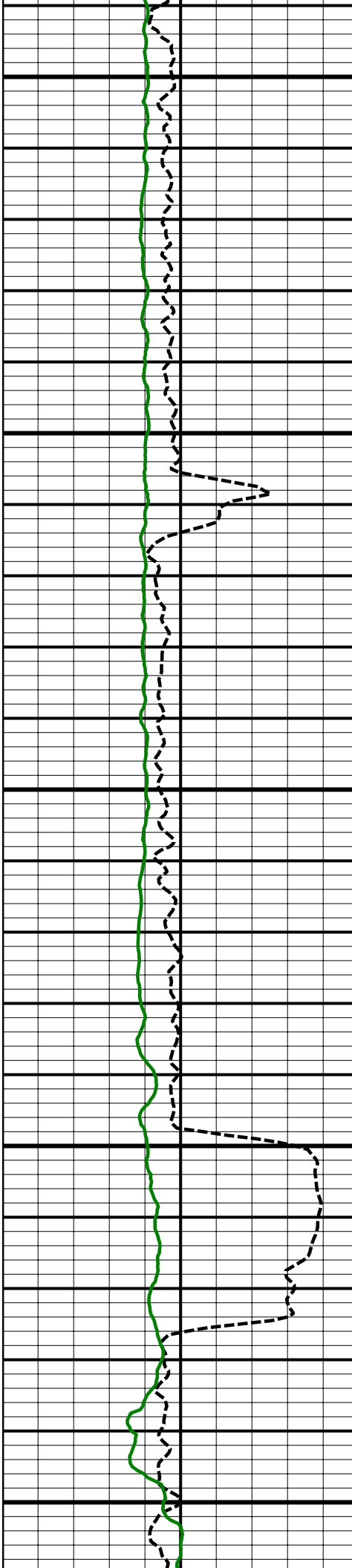




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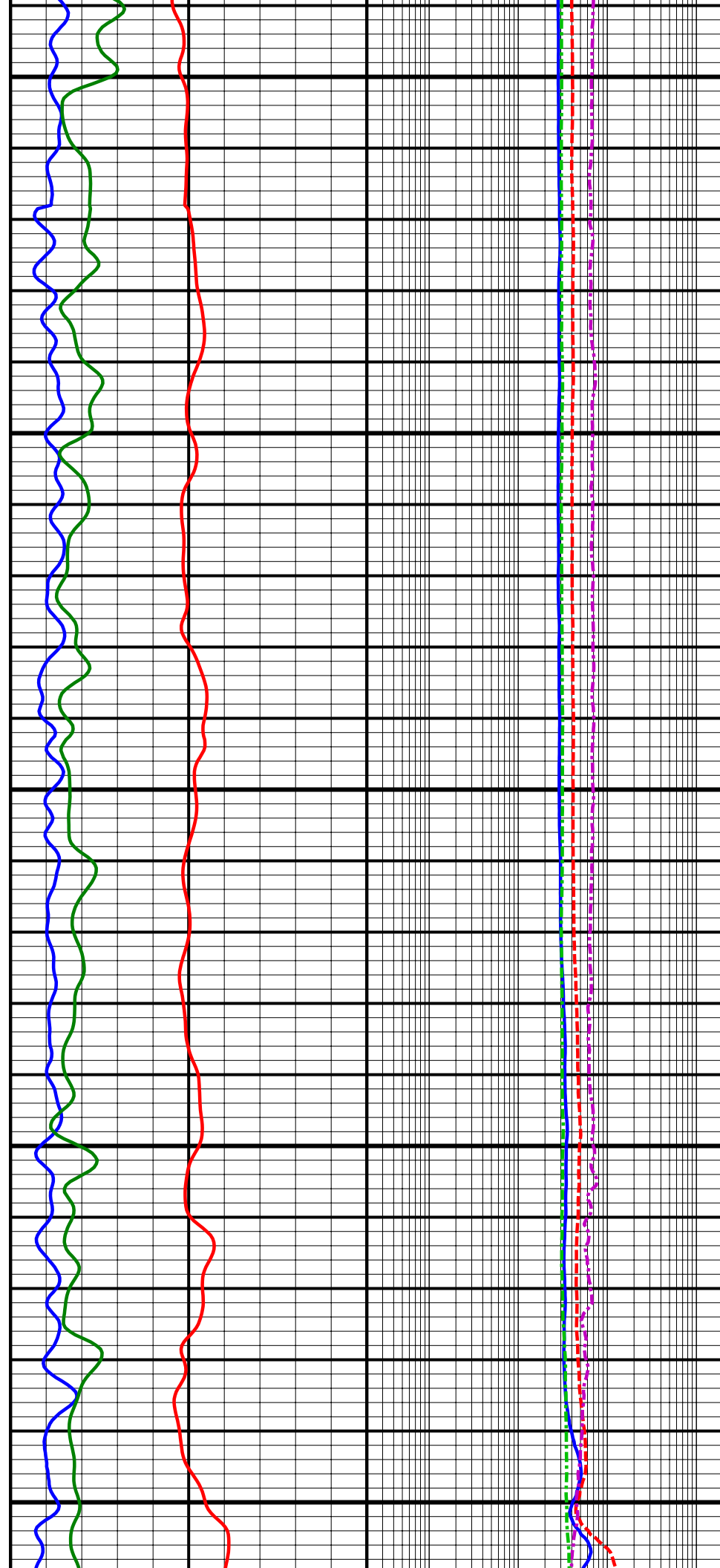
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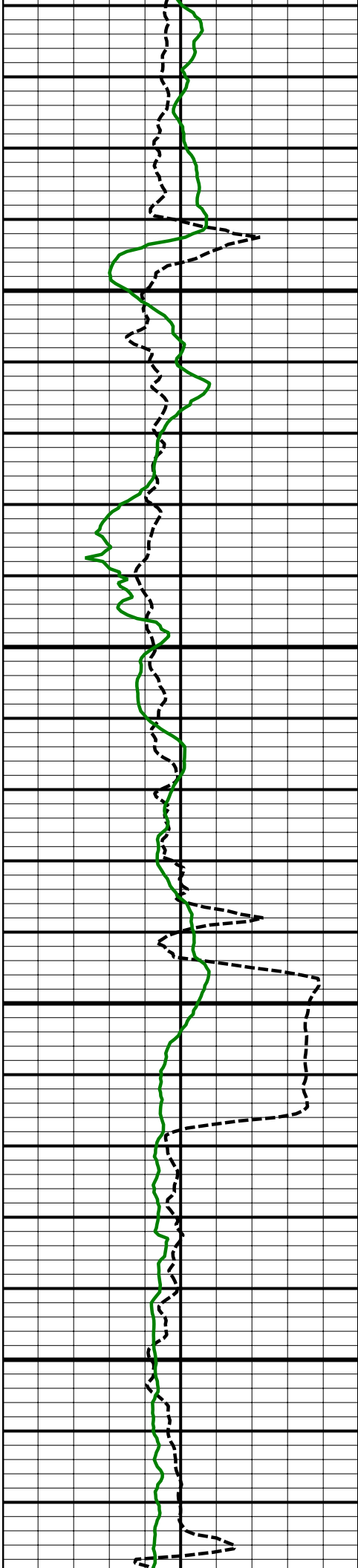




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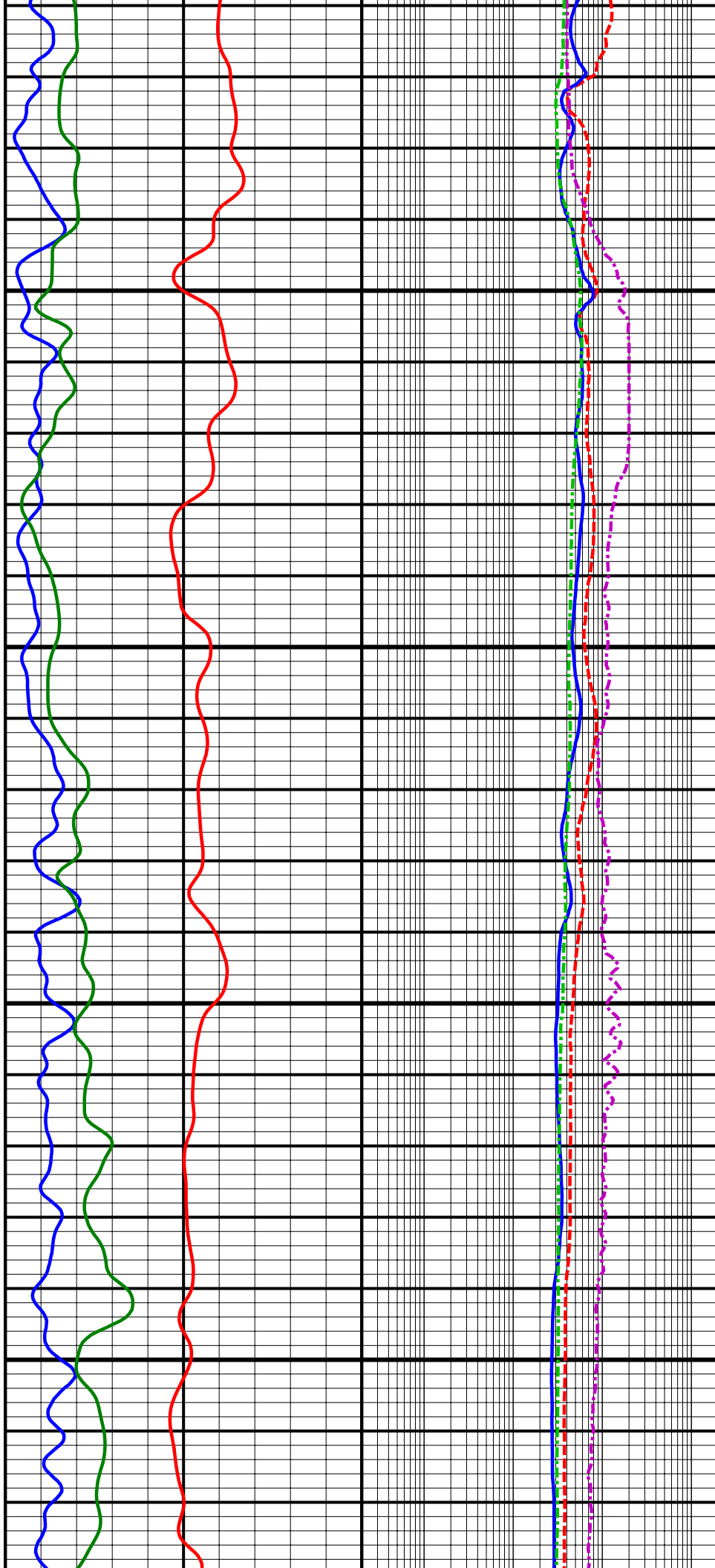
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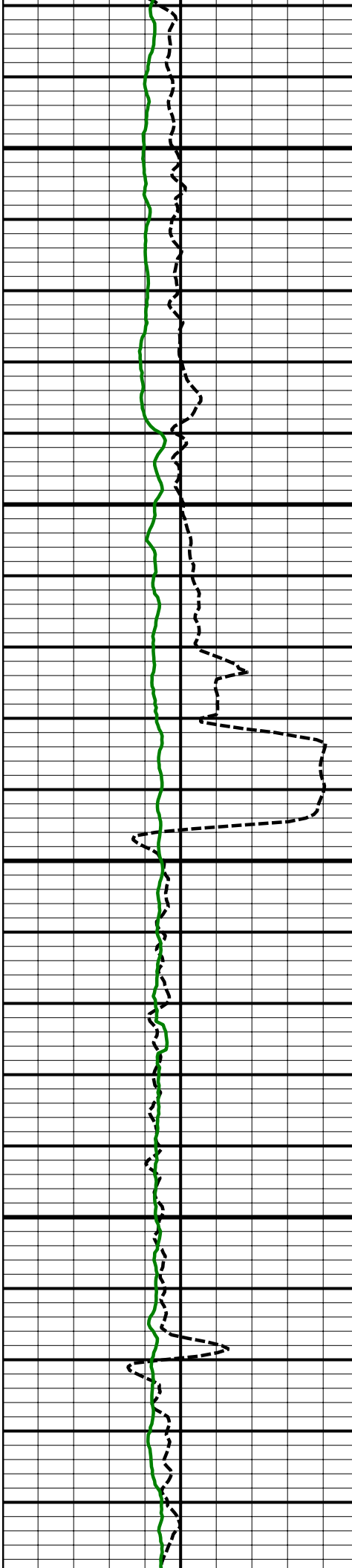




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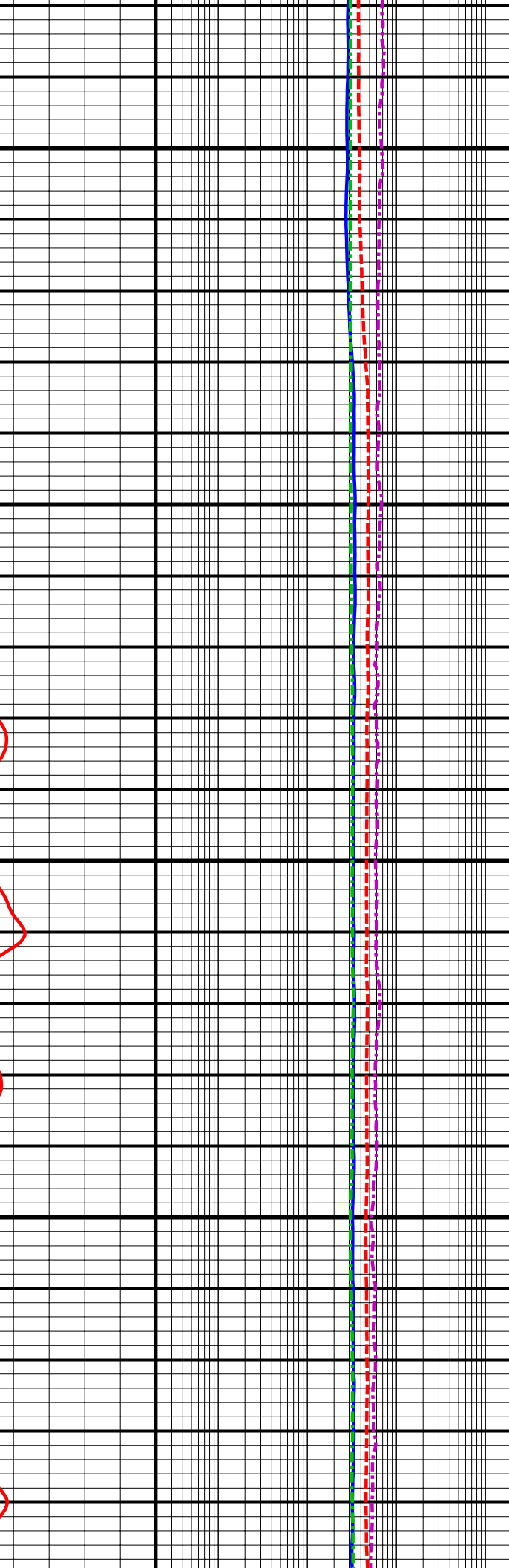
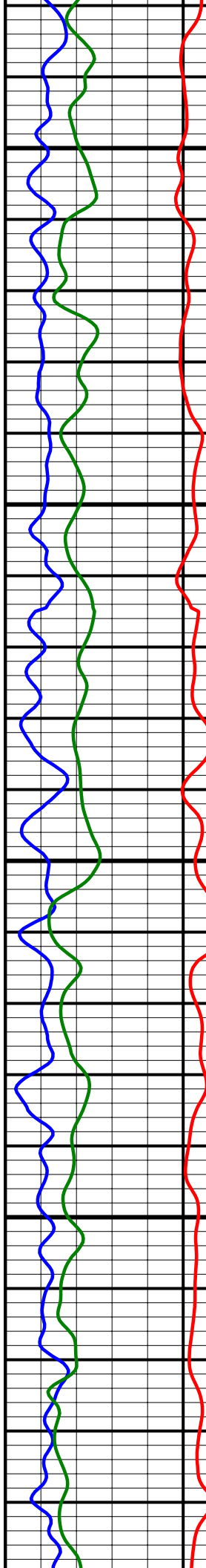




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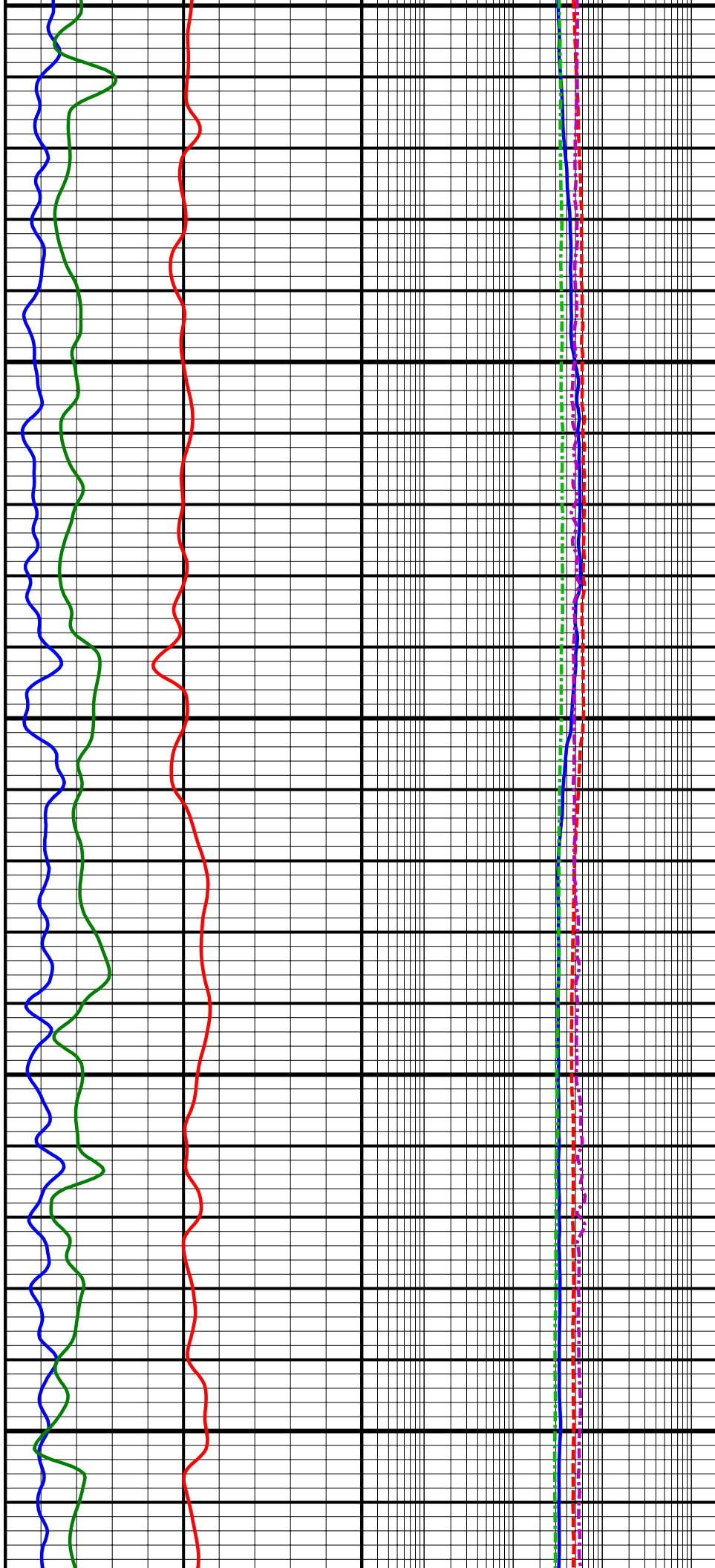
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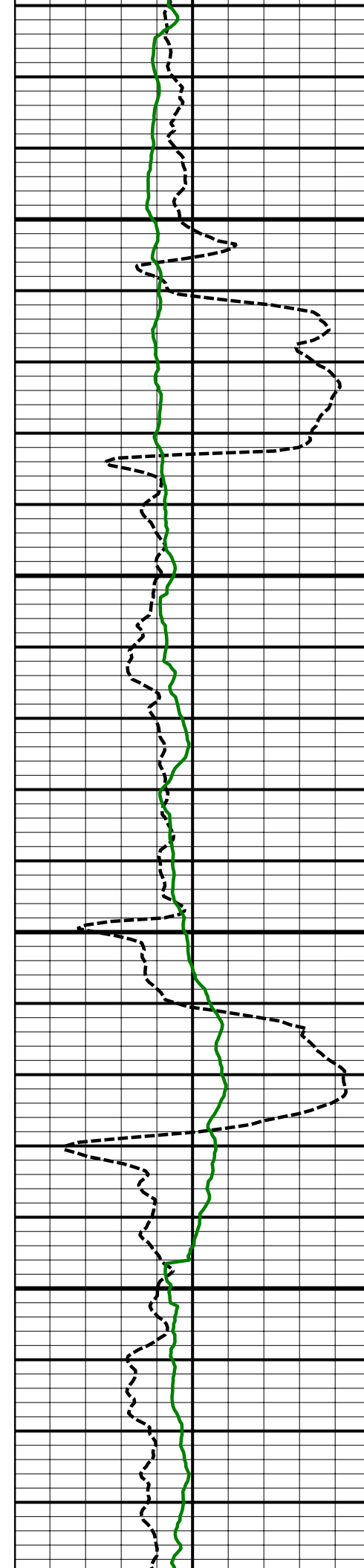
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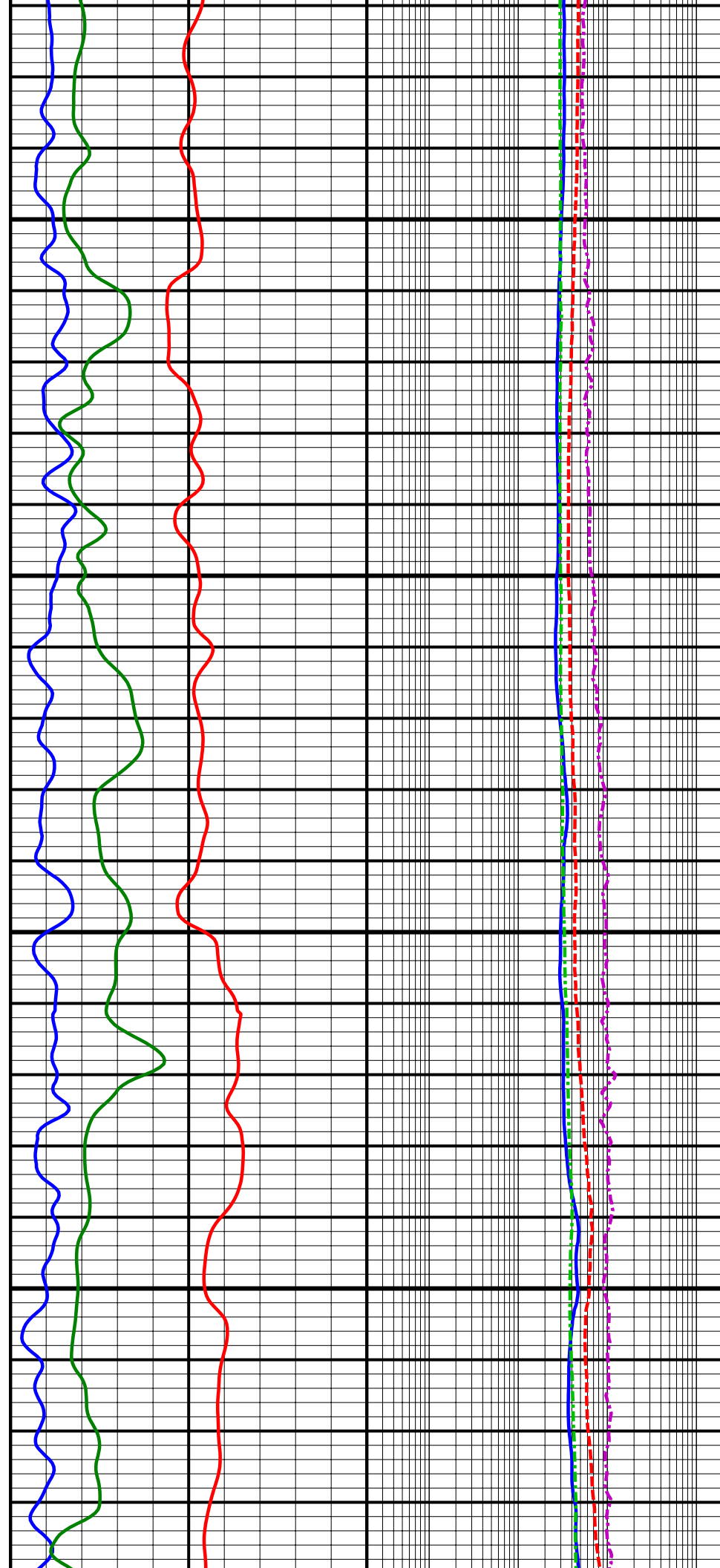


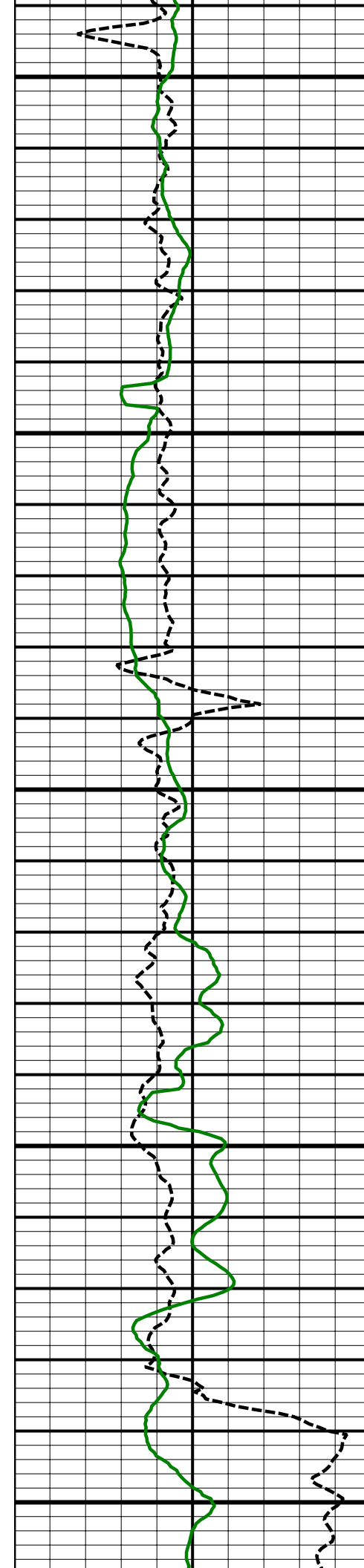




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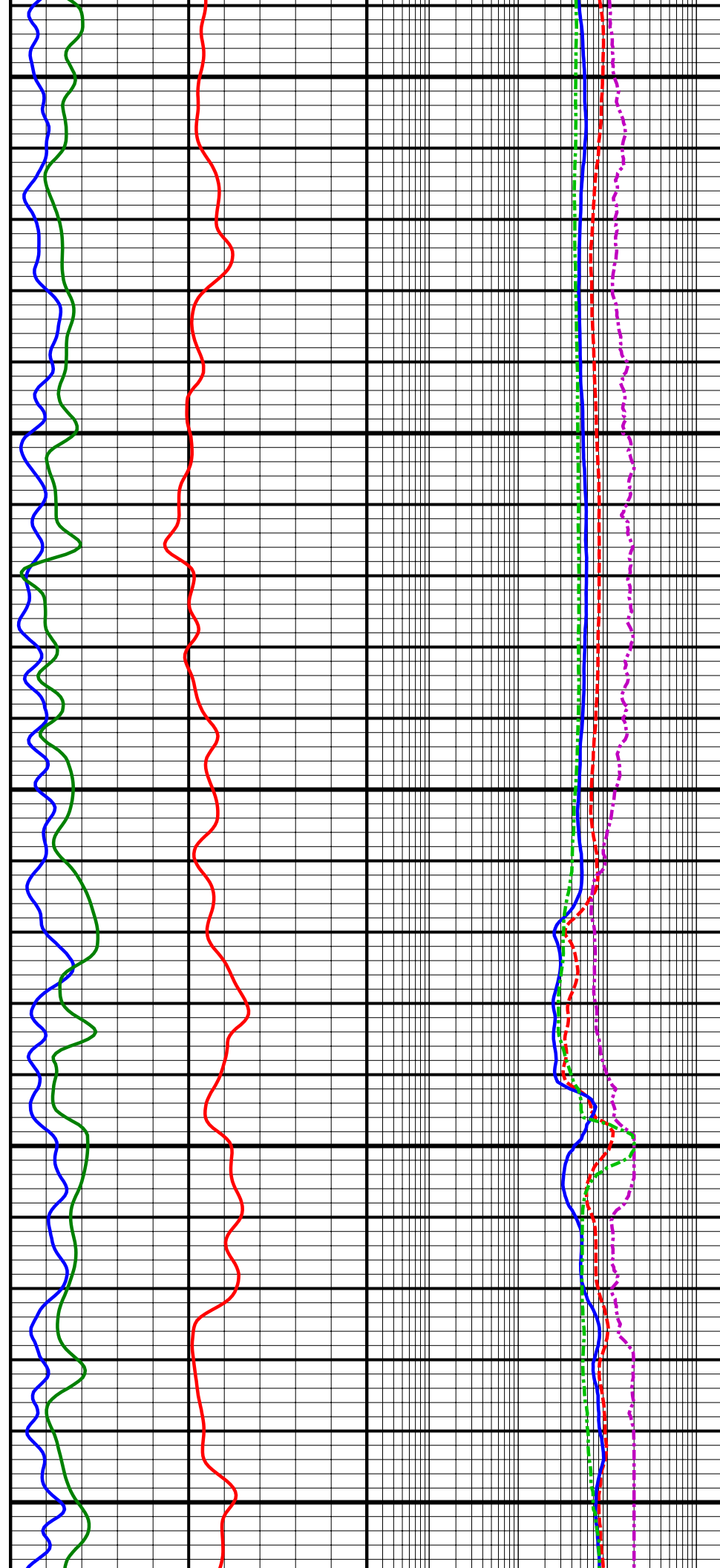
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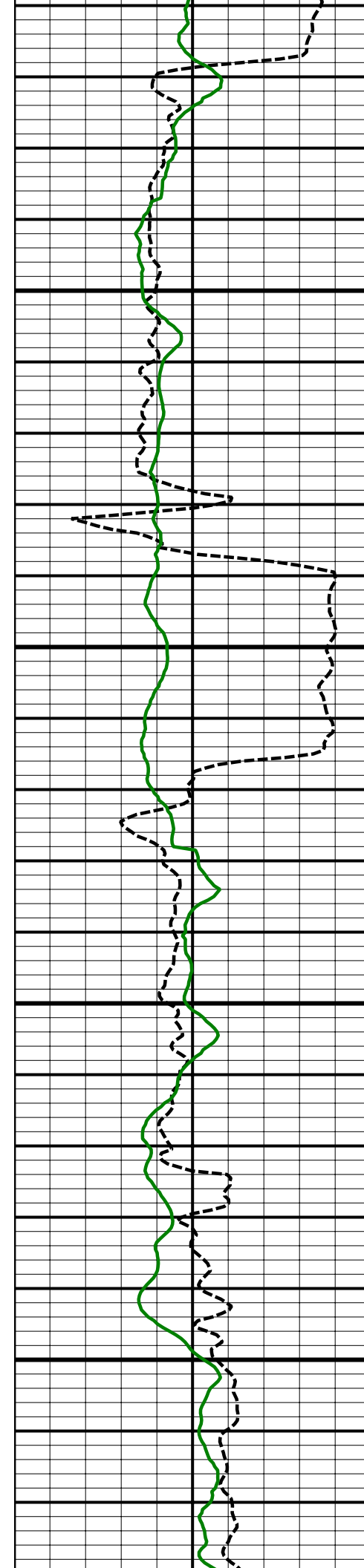




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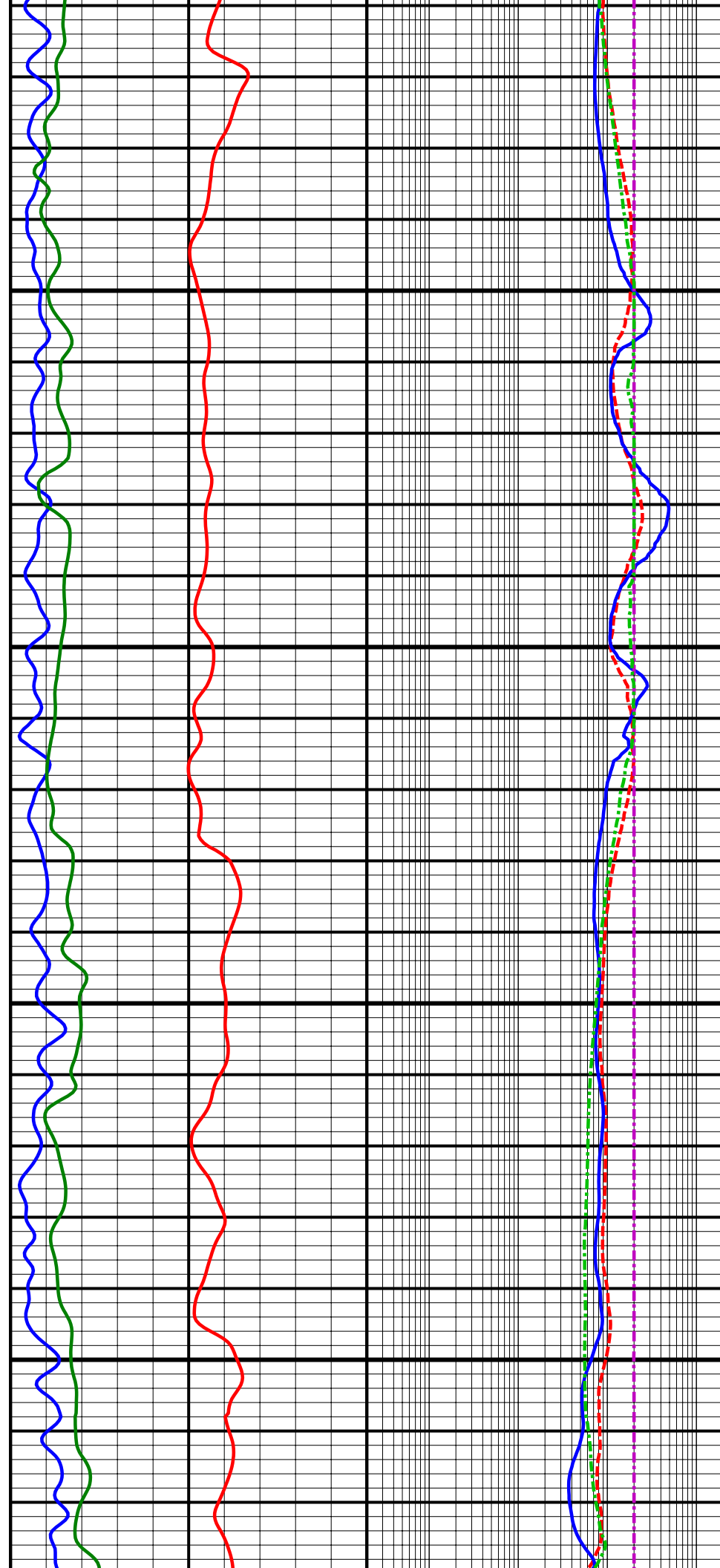
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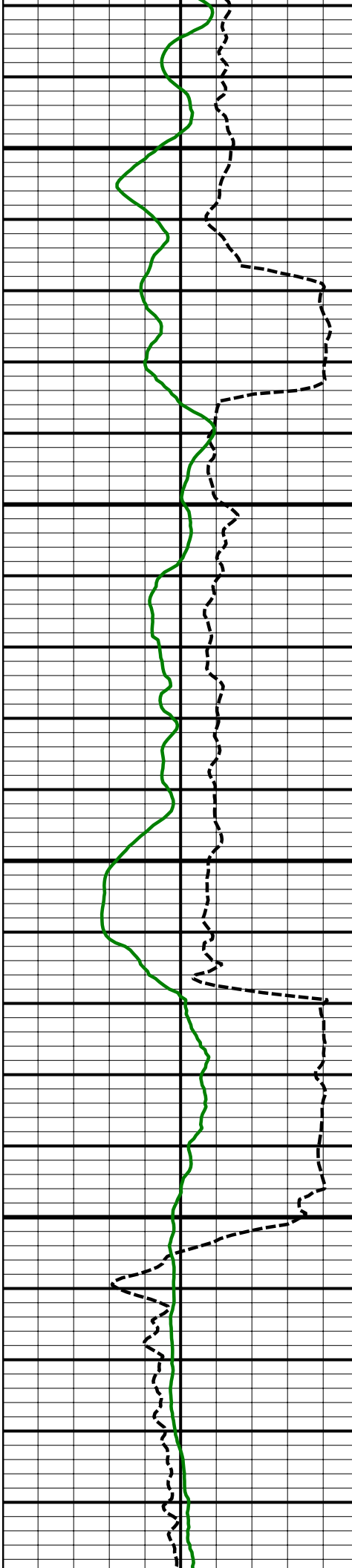




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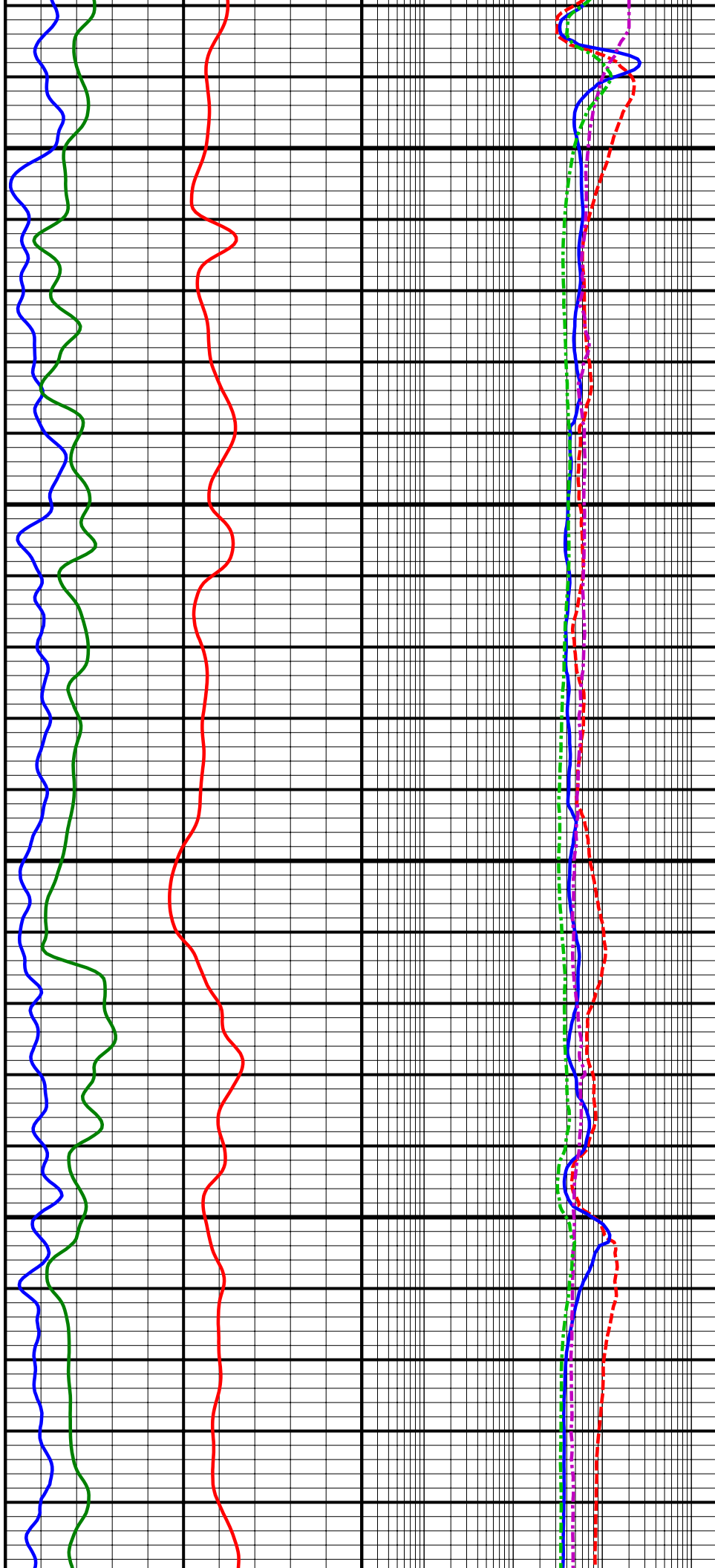


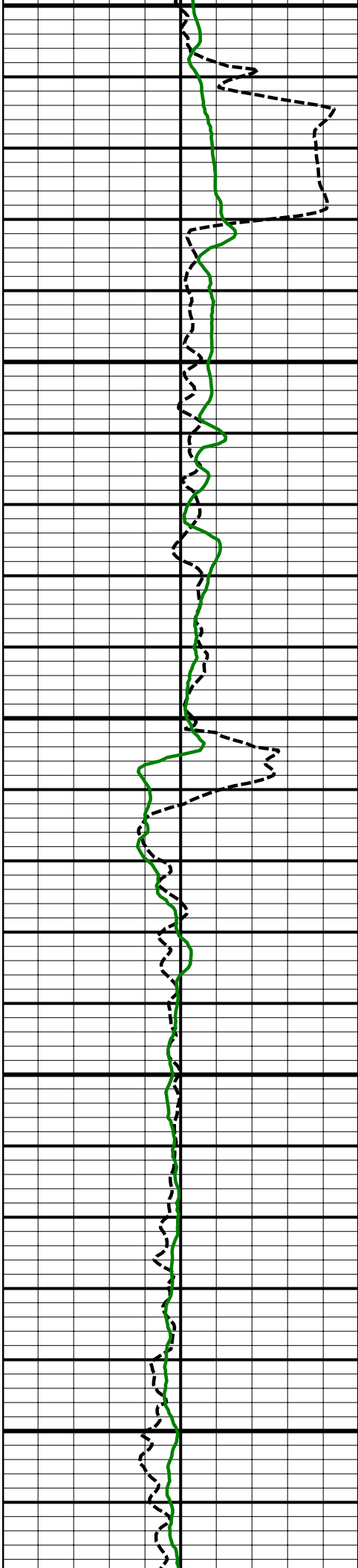


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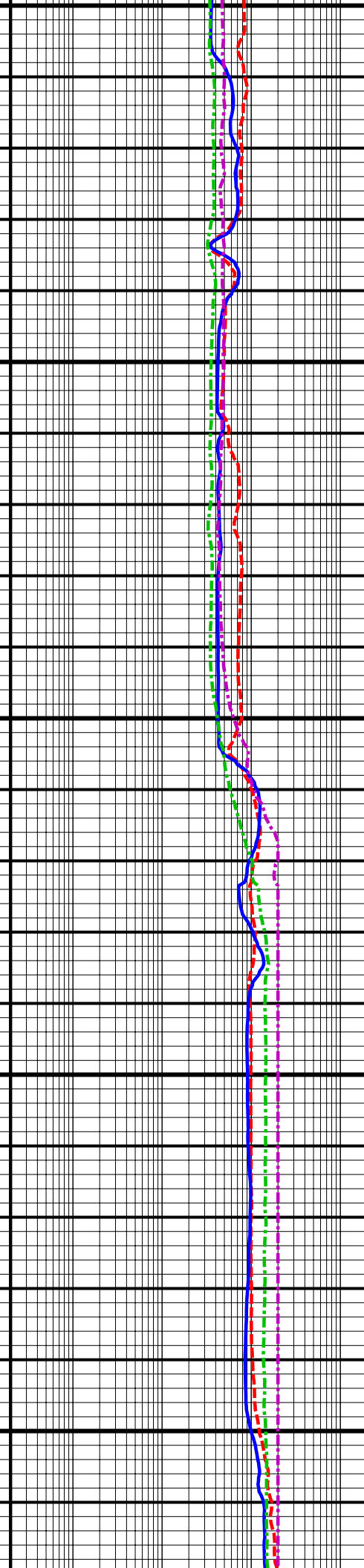
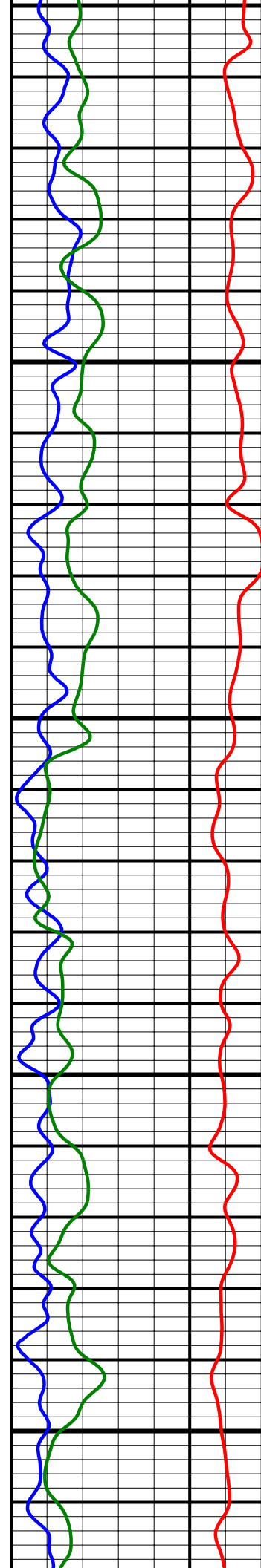


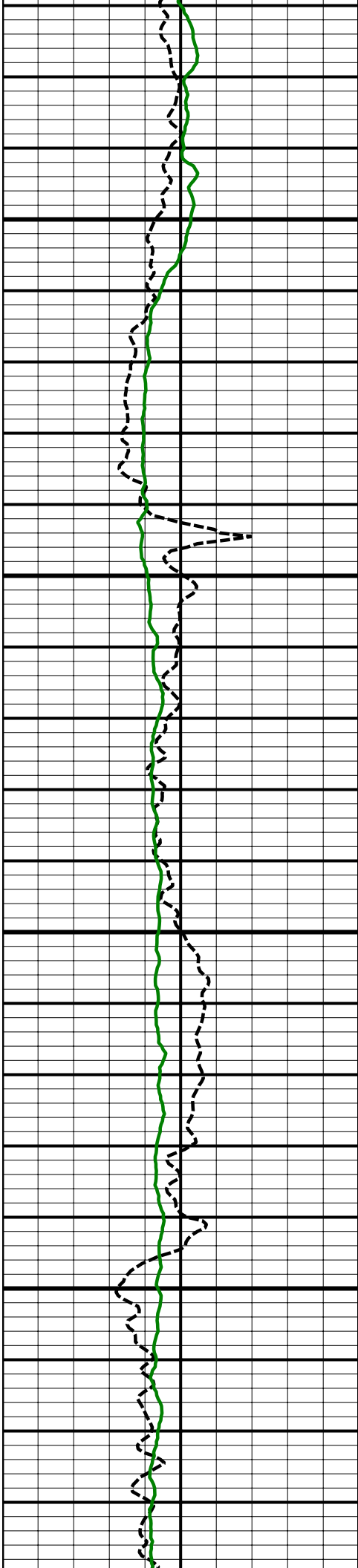


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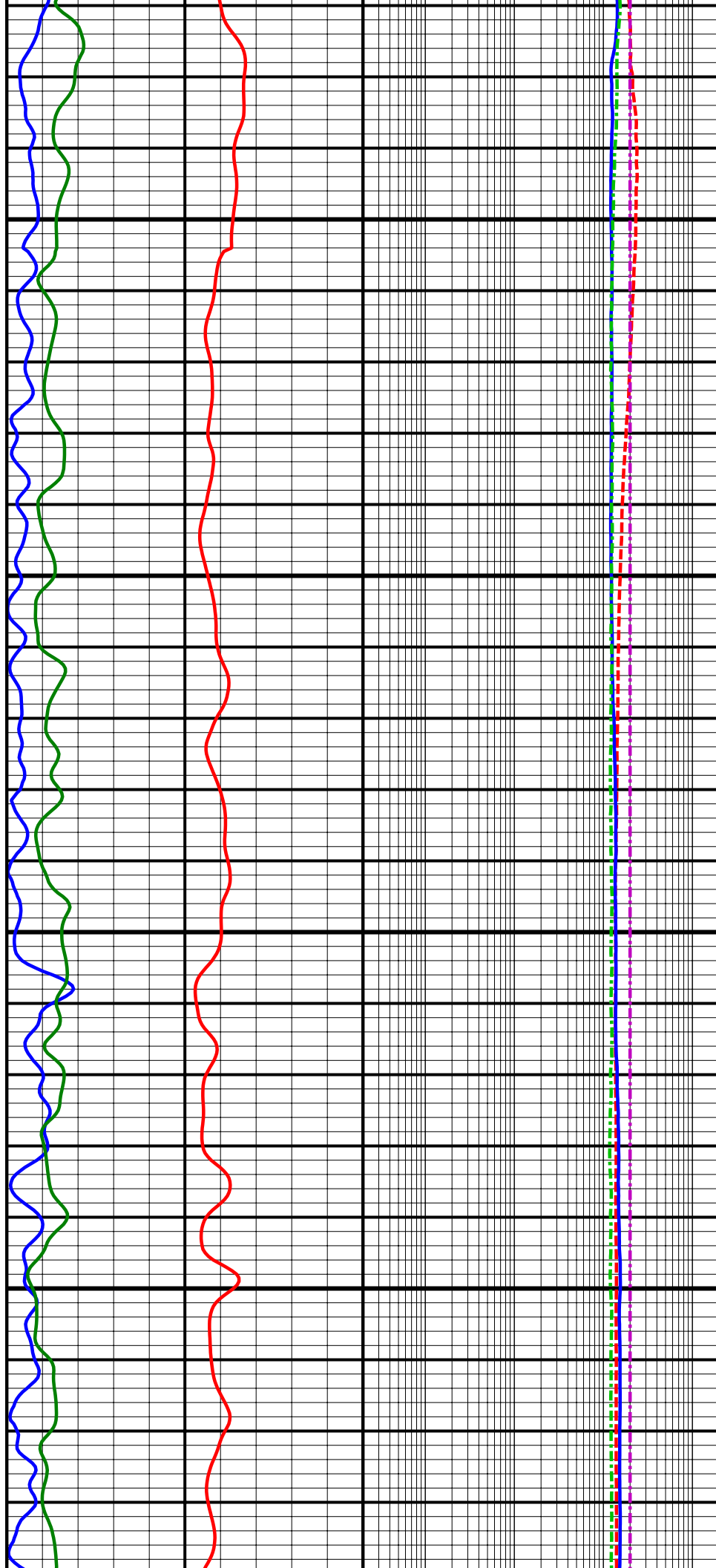
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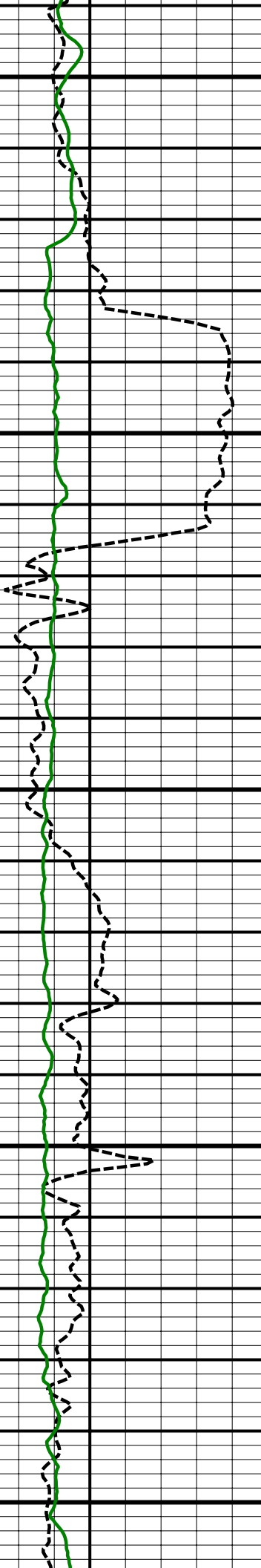




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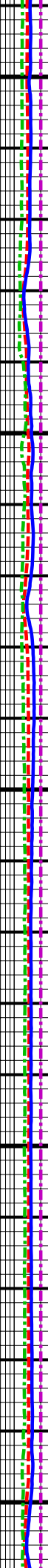
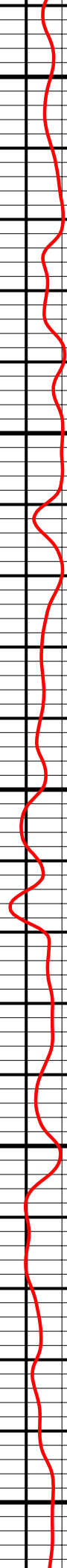
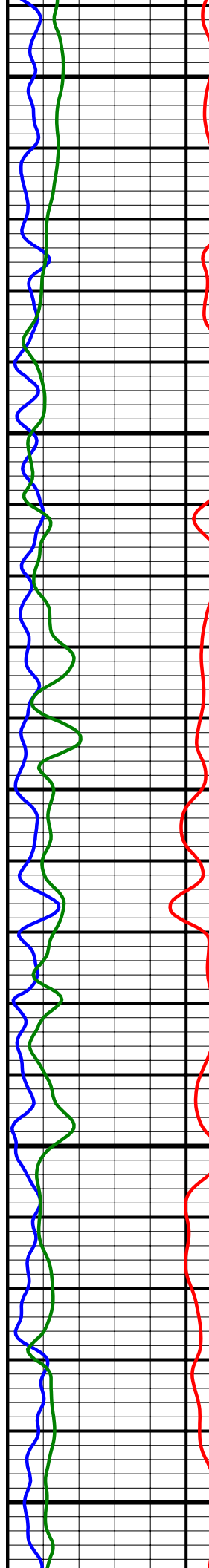
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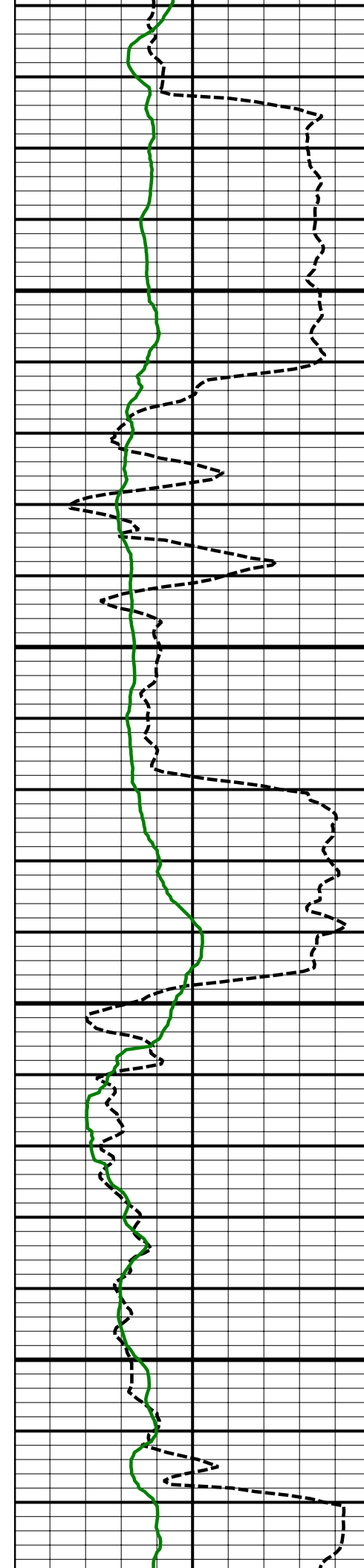




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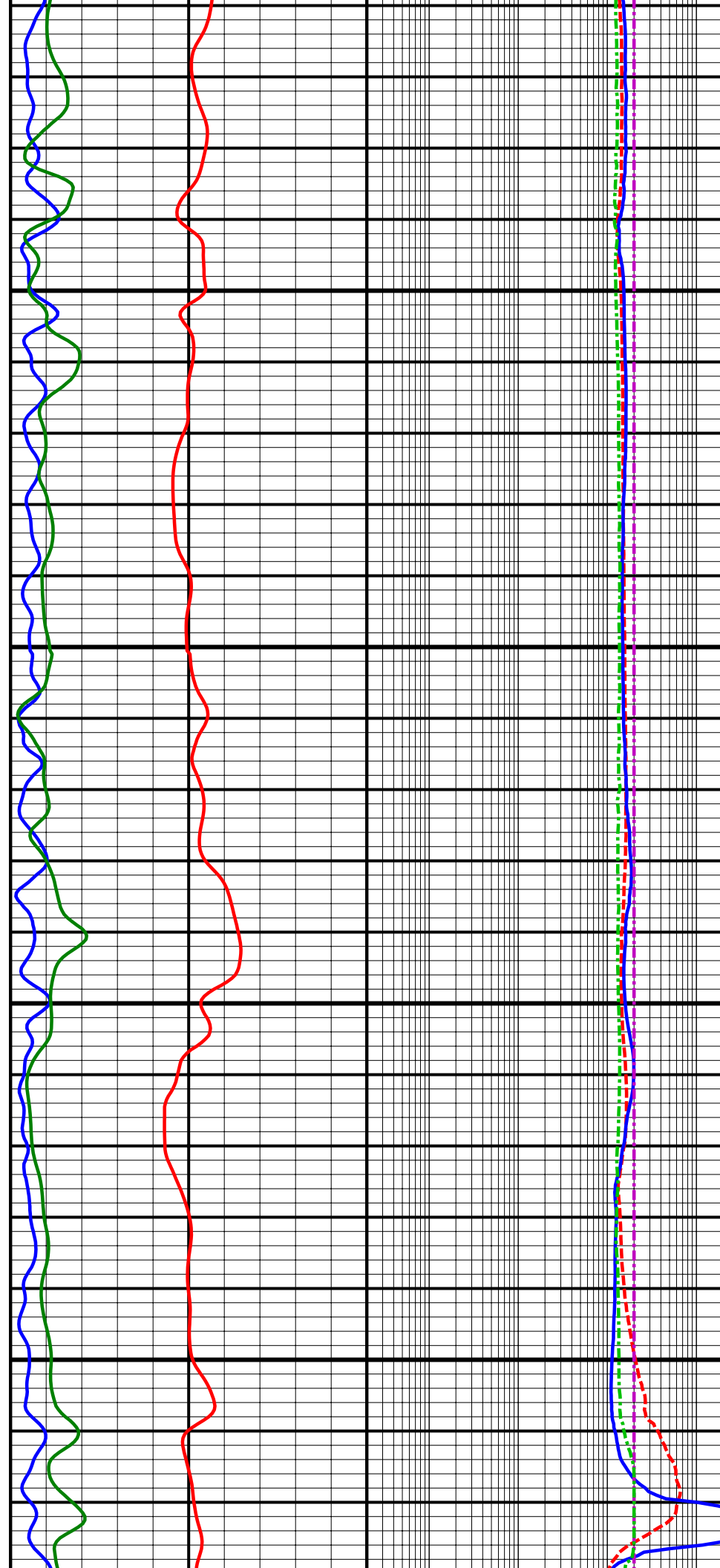
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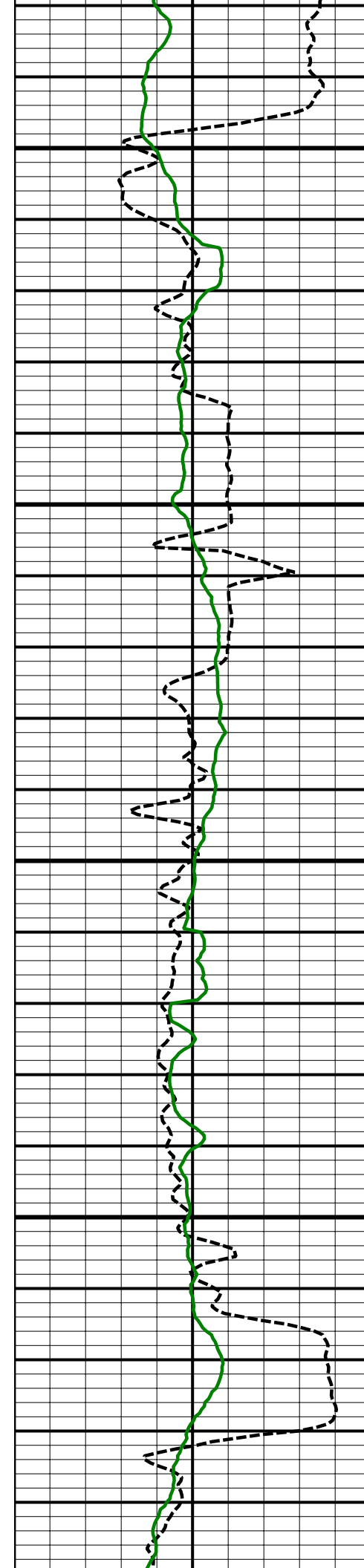


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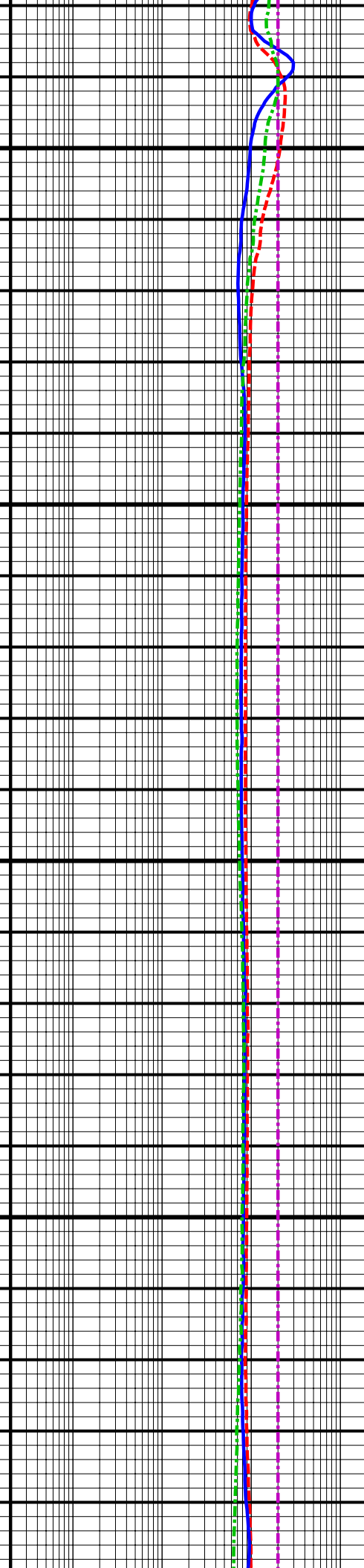
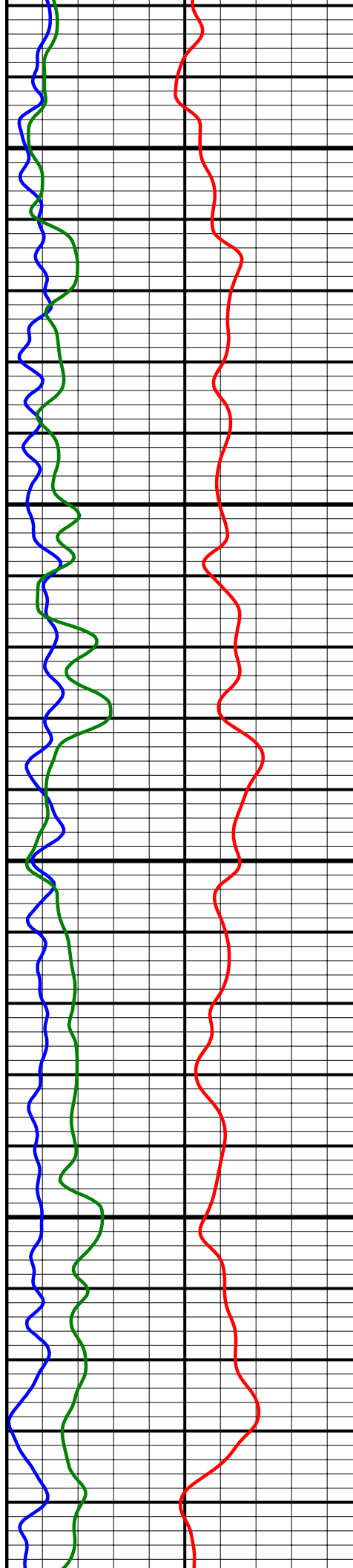


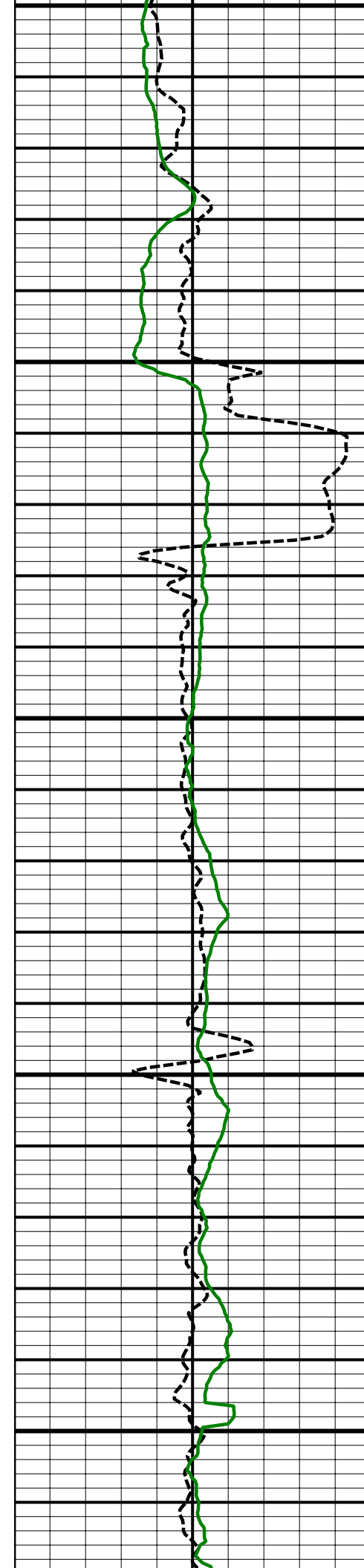


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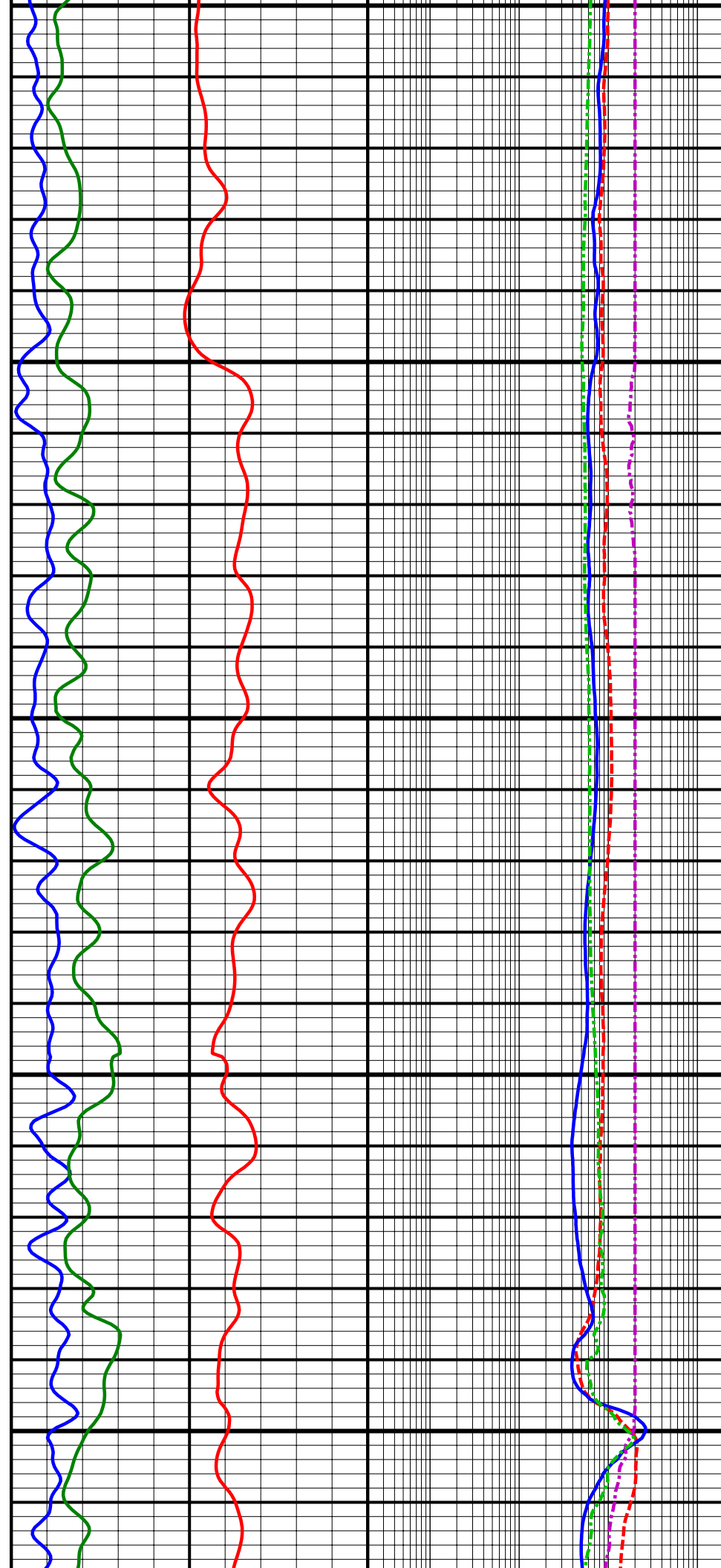


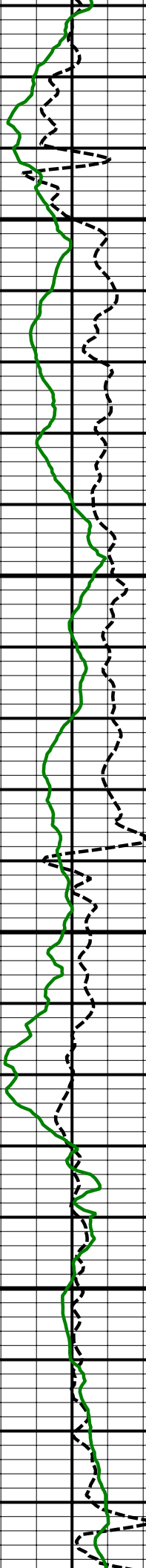


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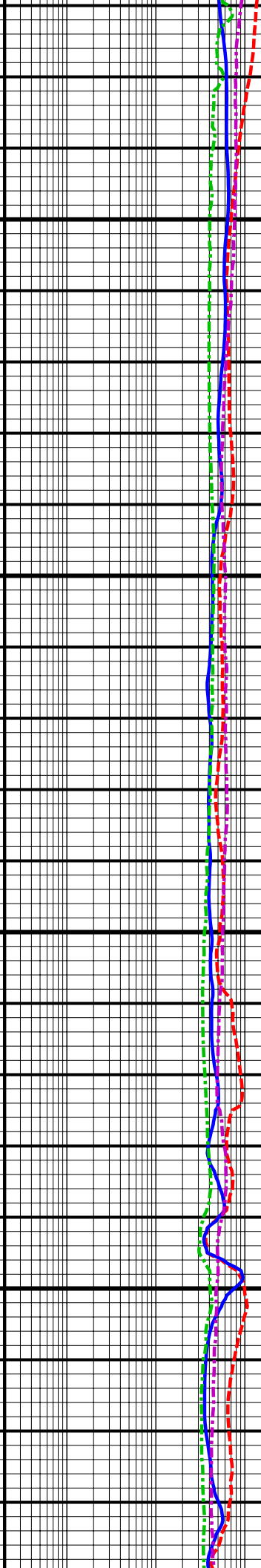
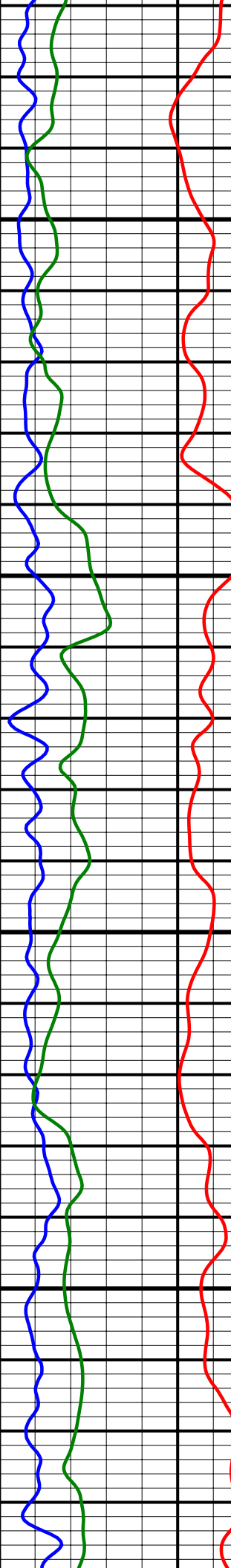
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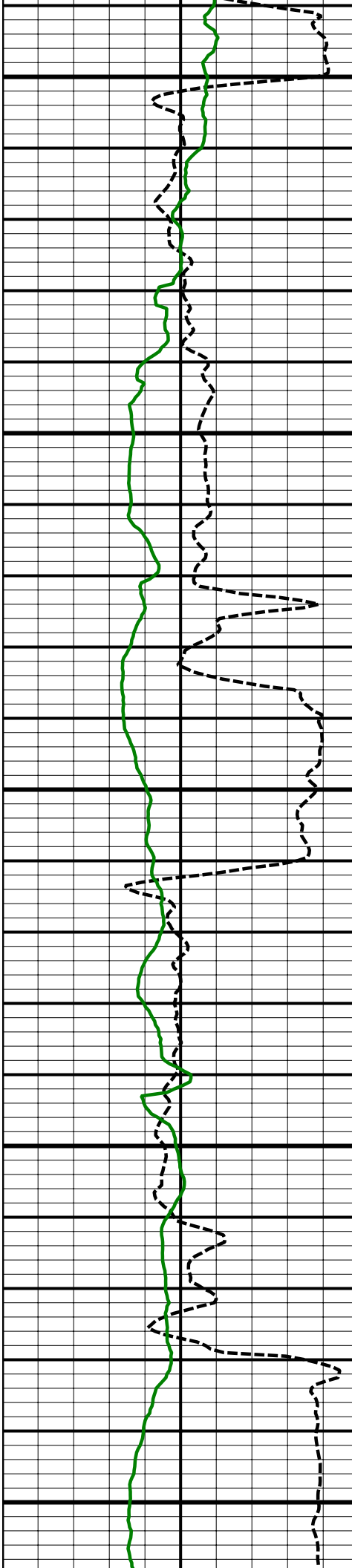




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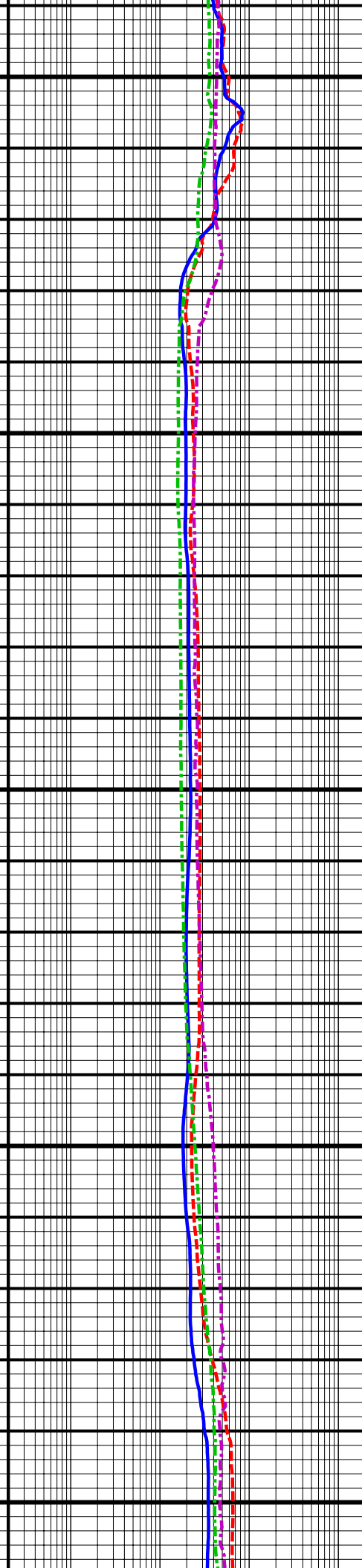
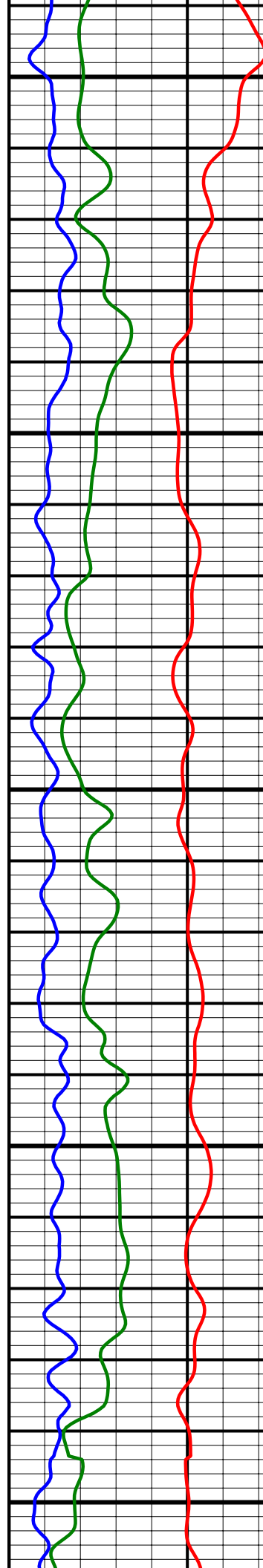
12200  
MD





12300  
MD

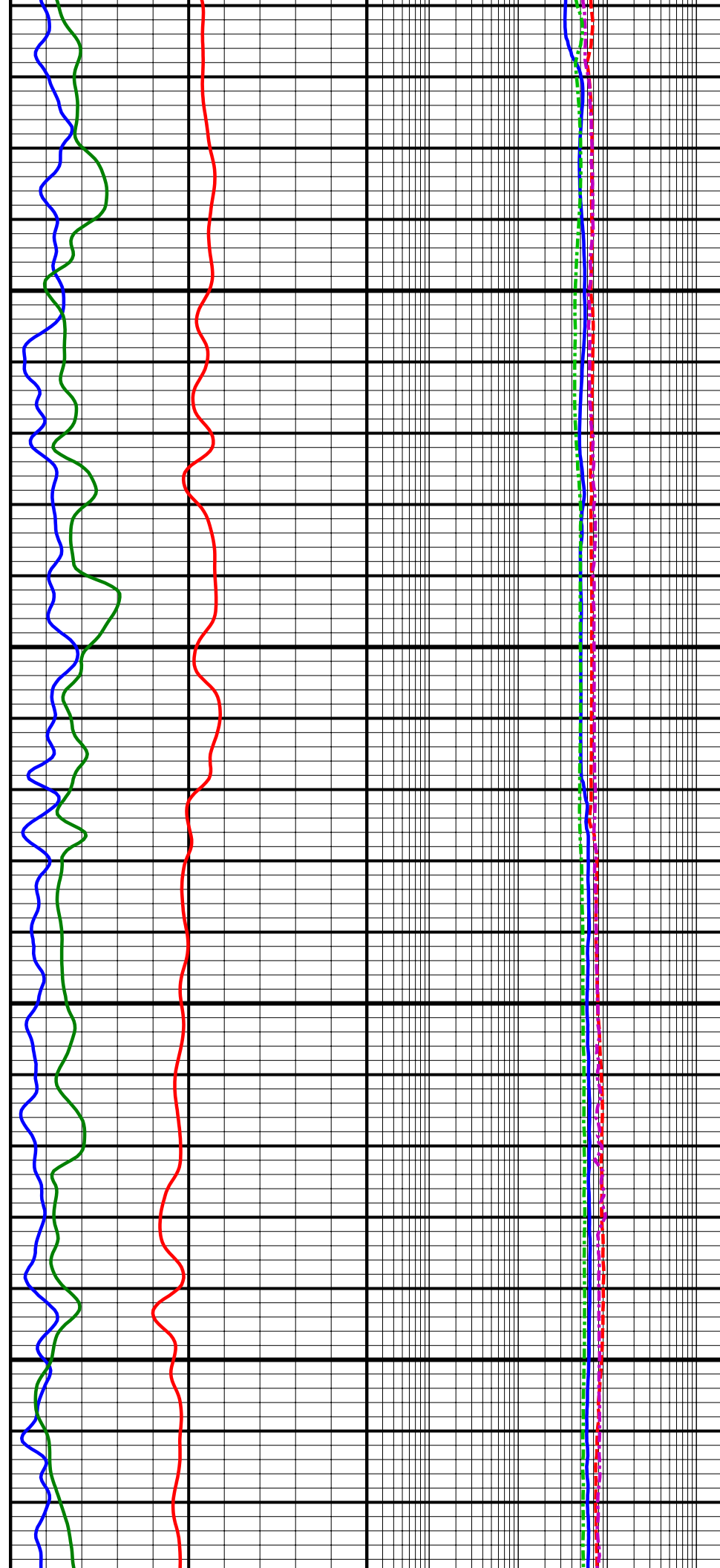
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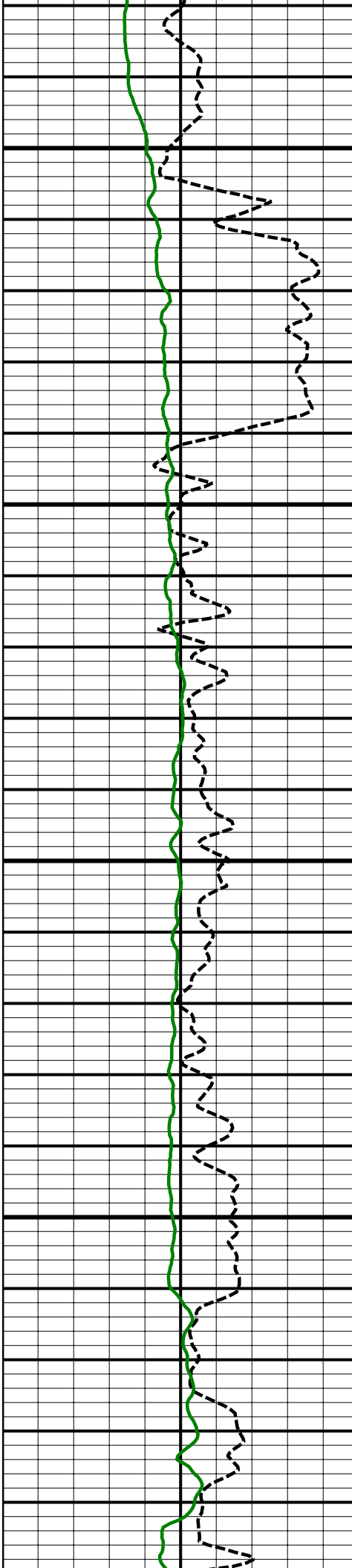




12500  
MD

12600  
MD

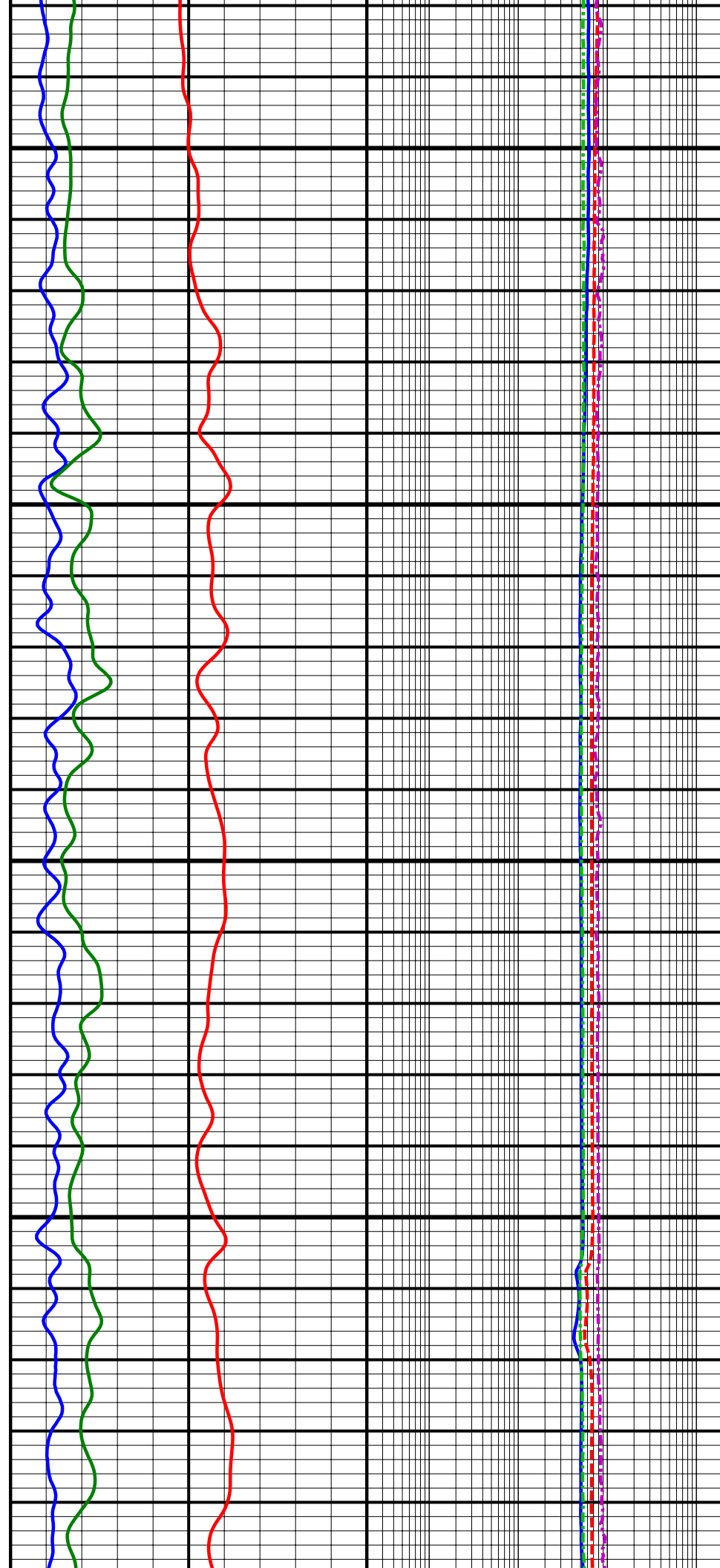


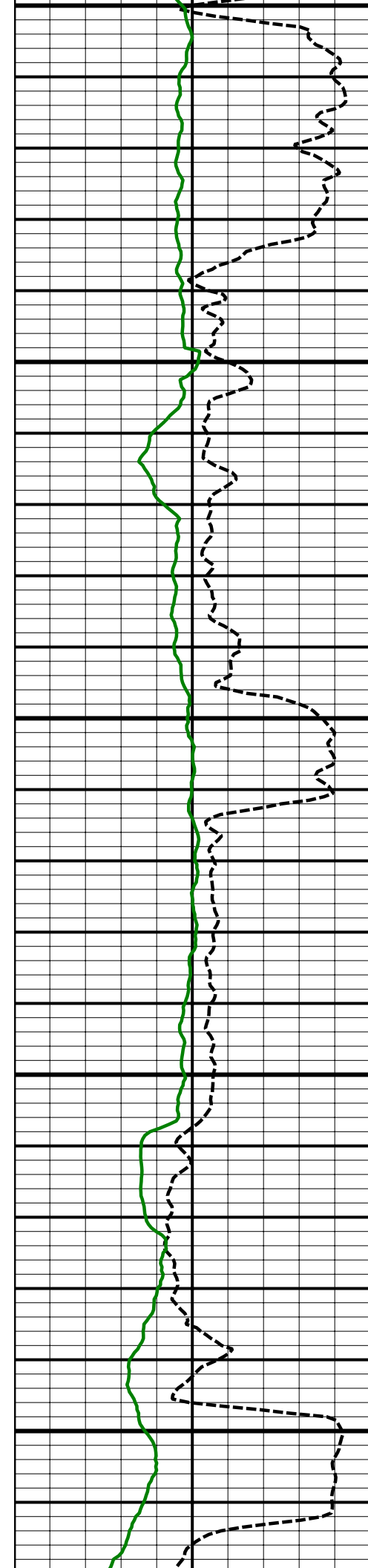


12700  
MD

12800  
MD

12900  
MD

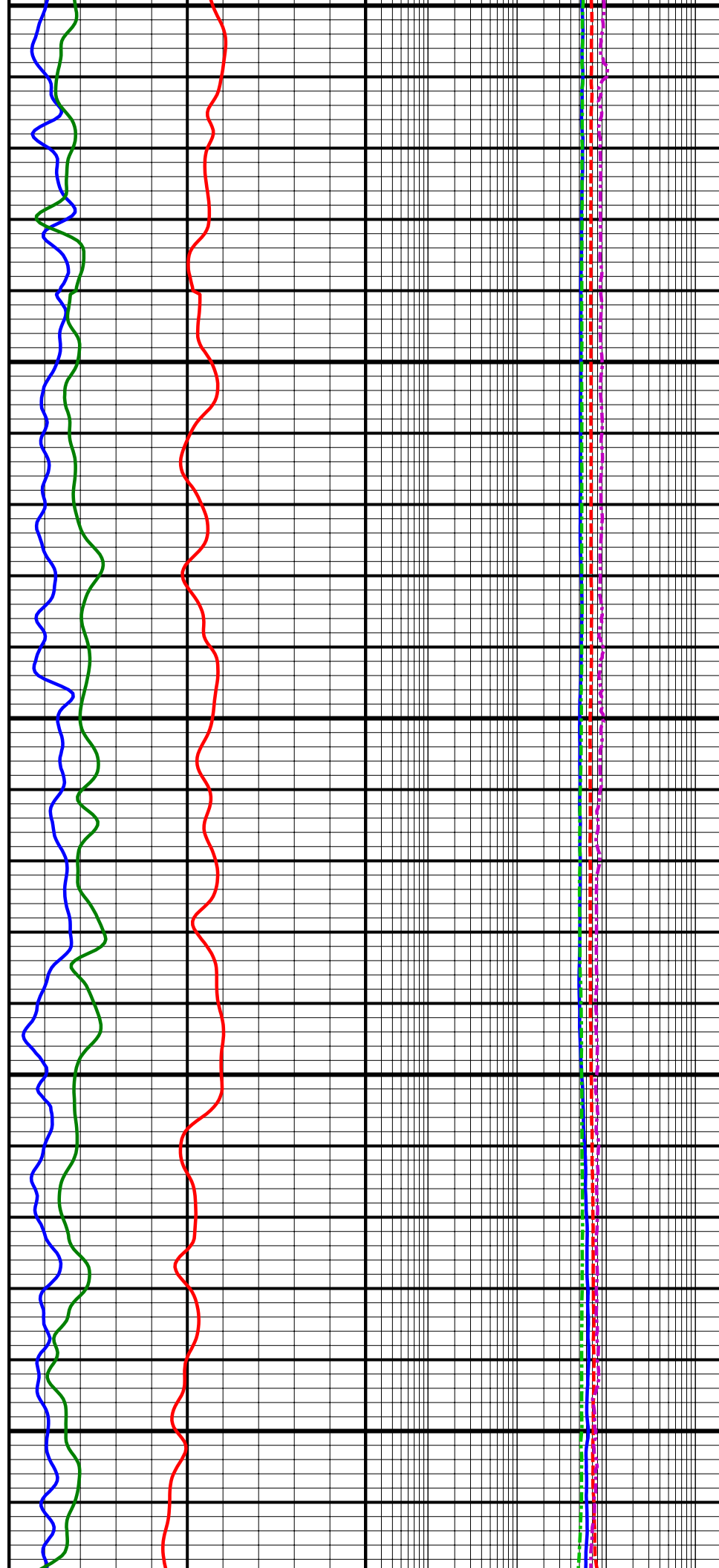


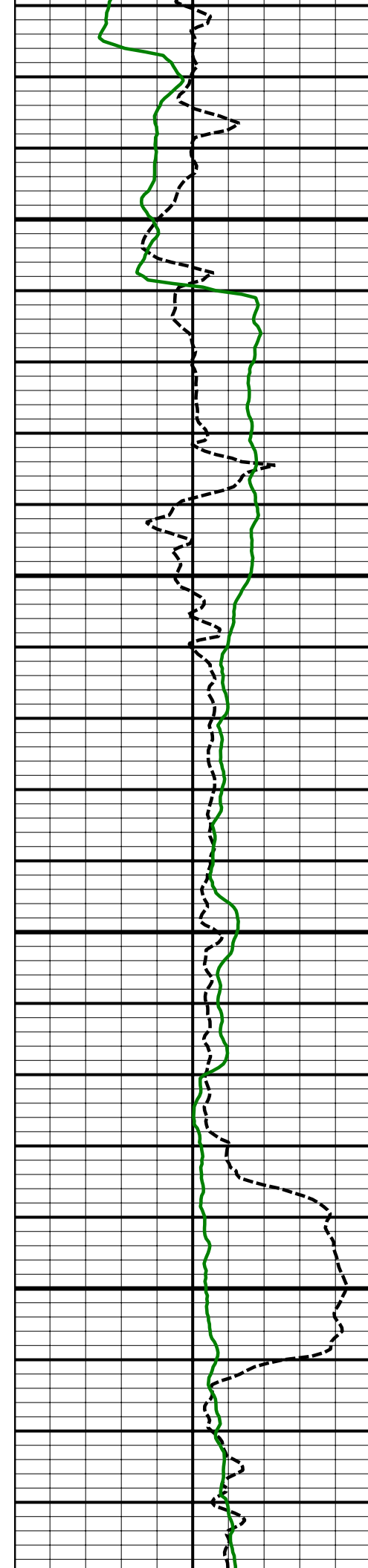


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MD

13000  
MD

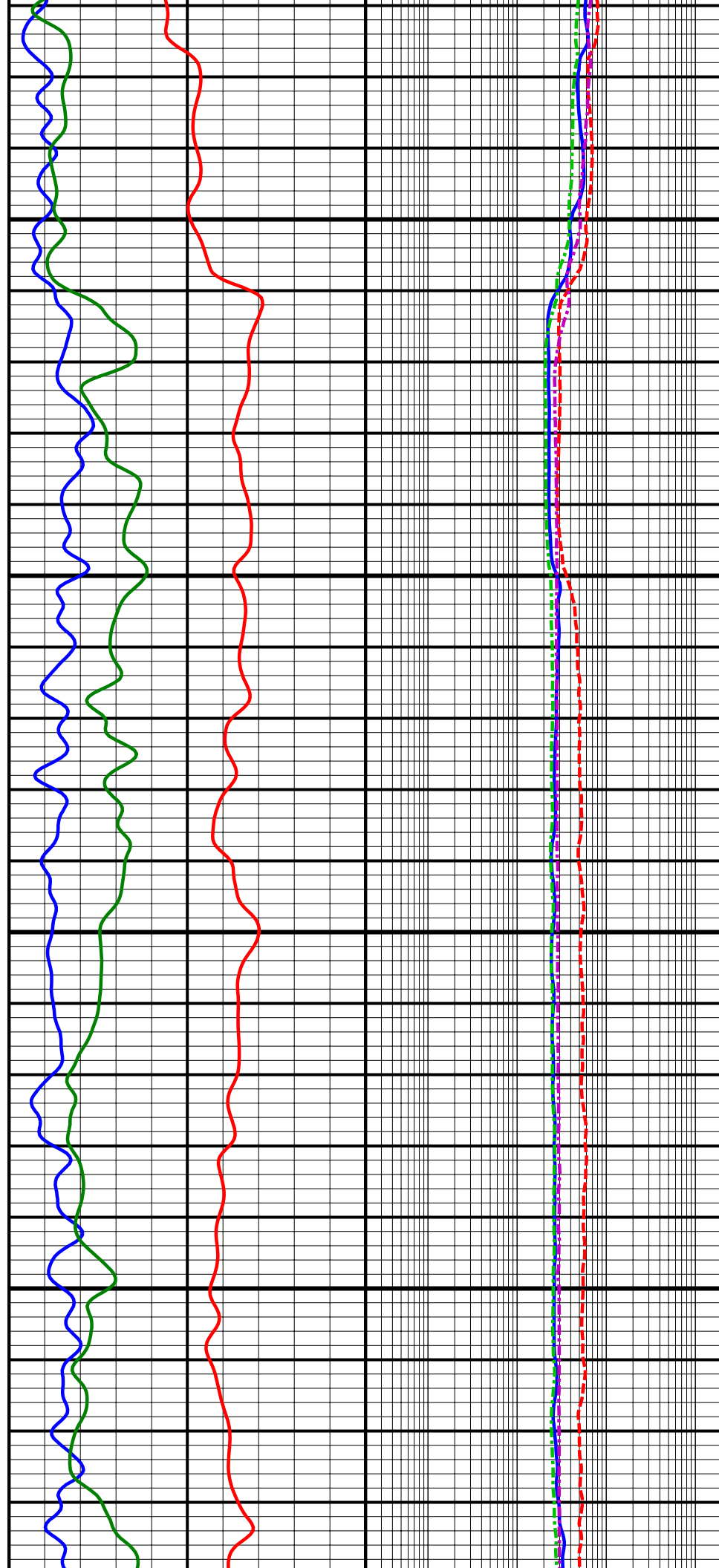
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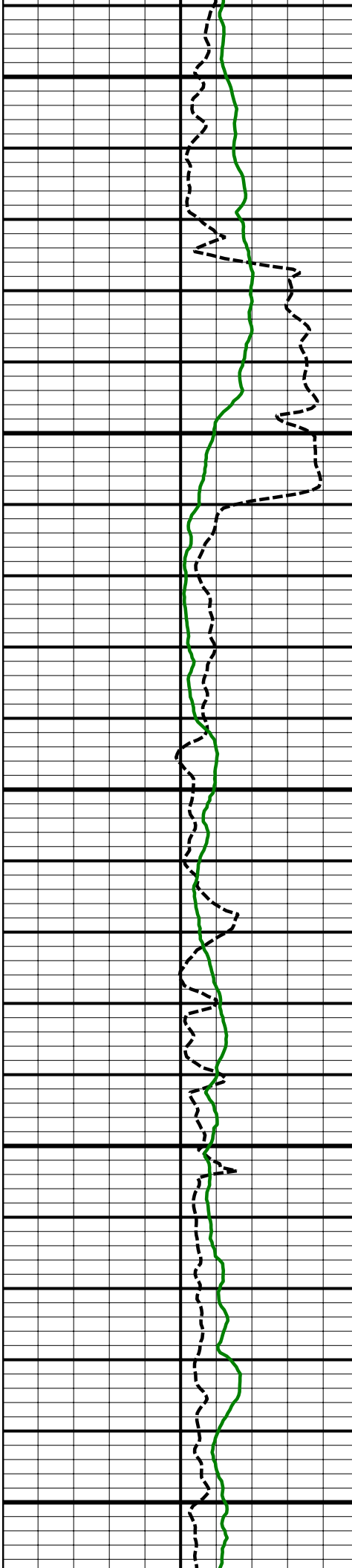


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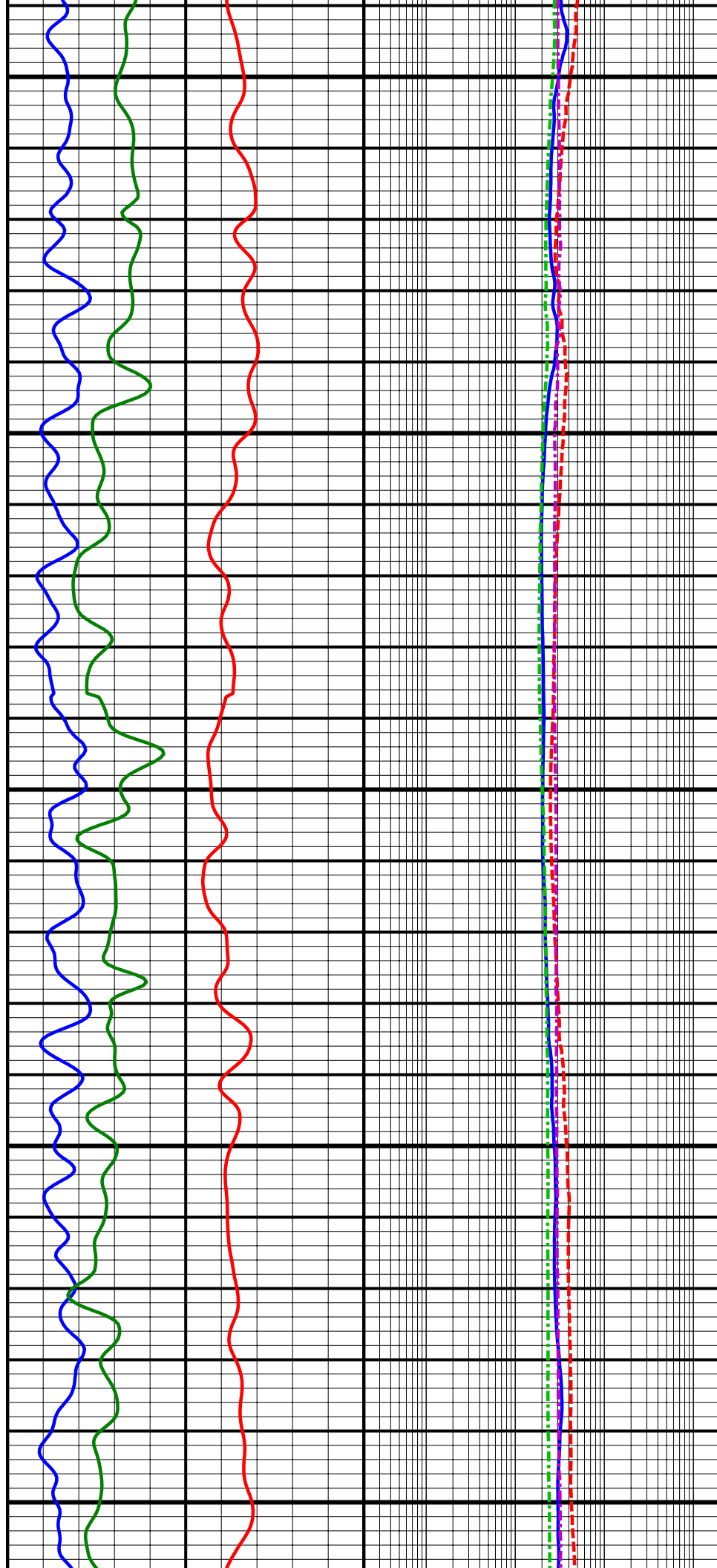


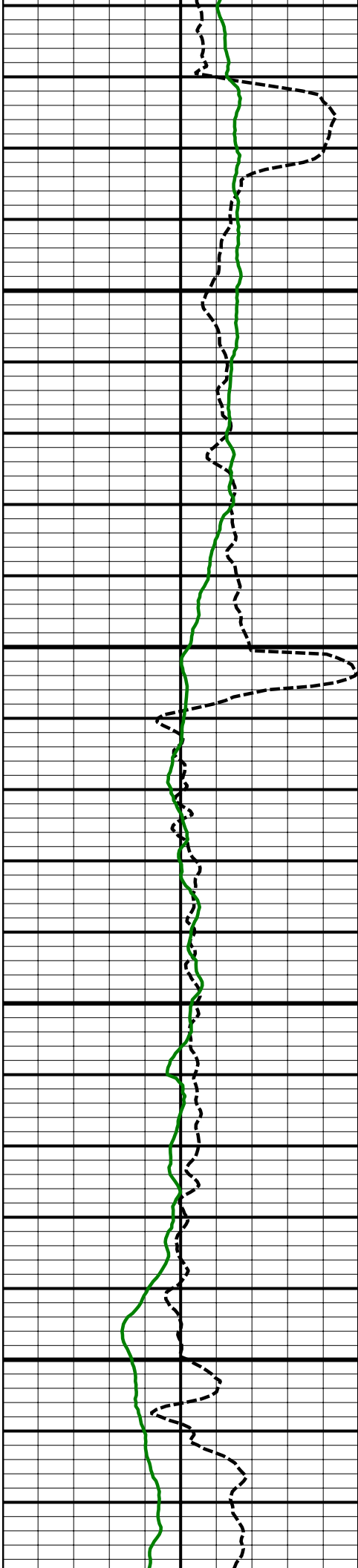




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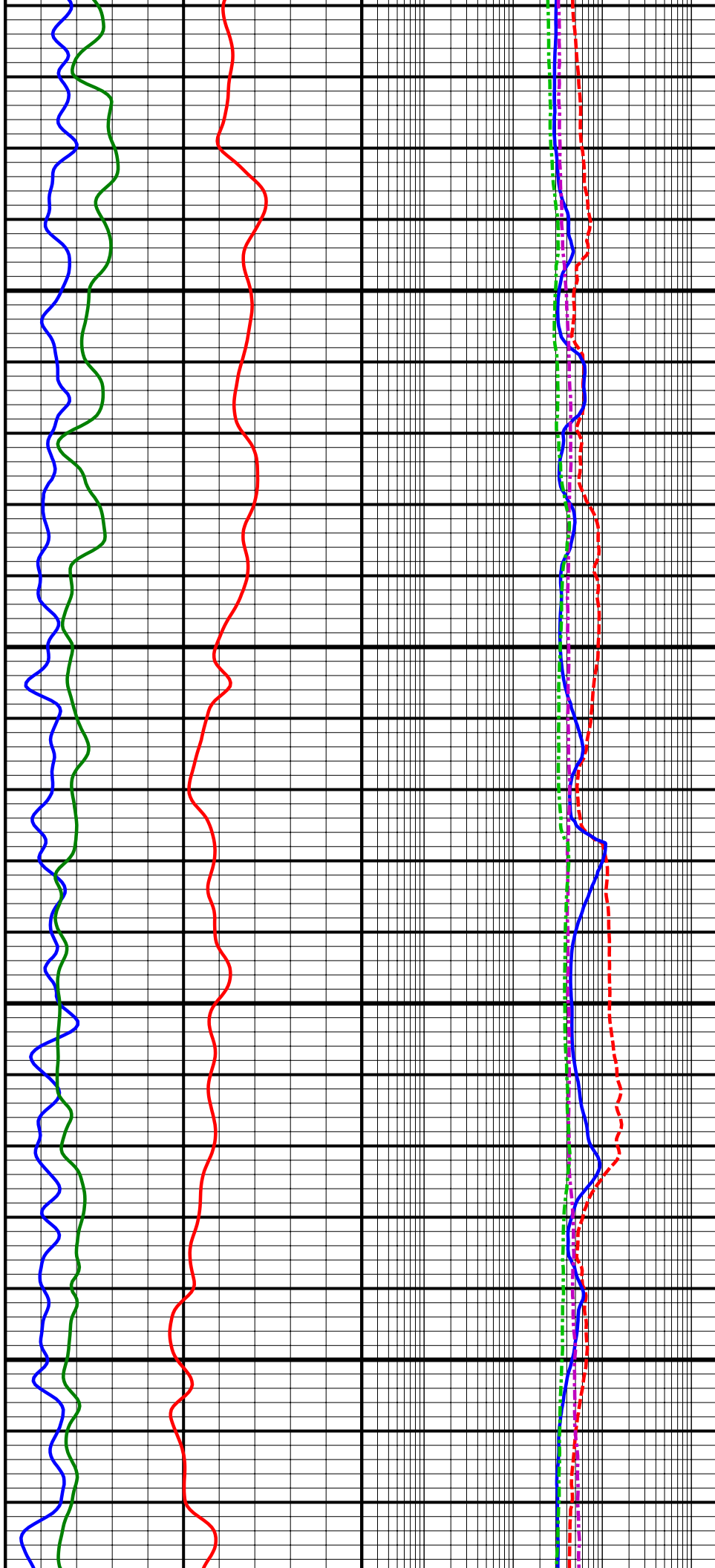
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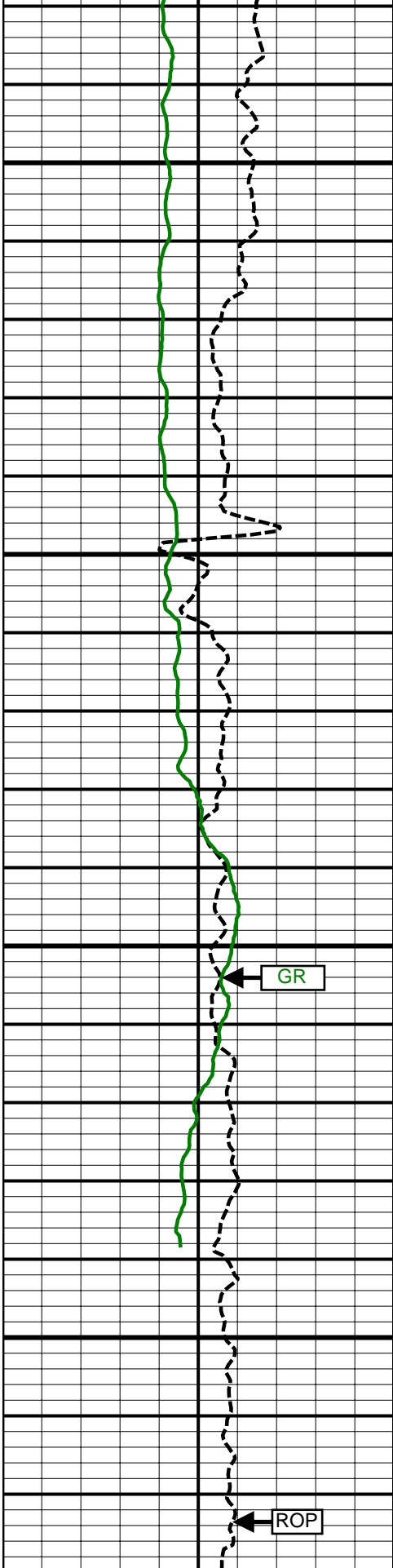




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13700  
MD

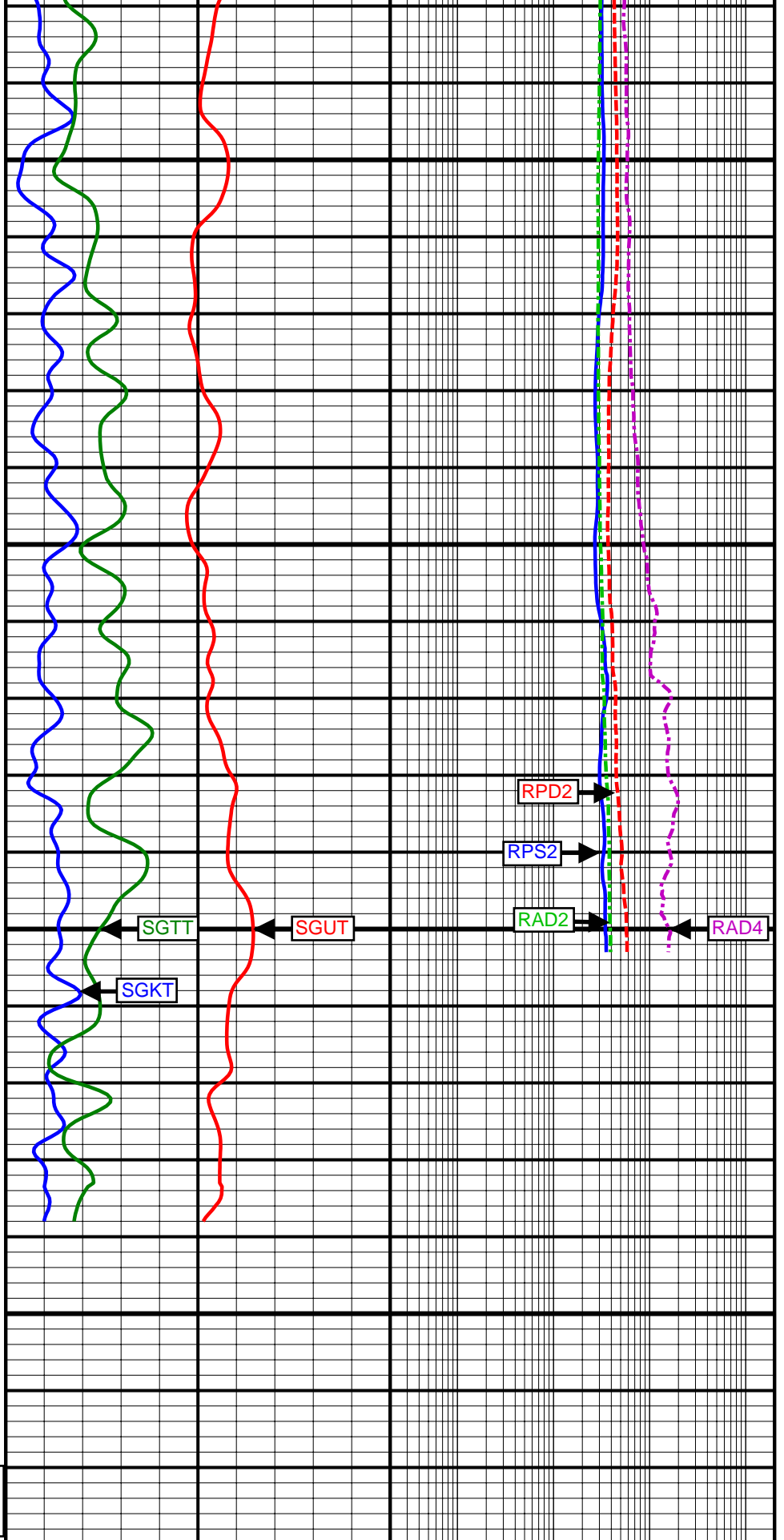


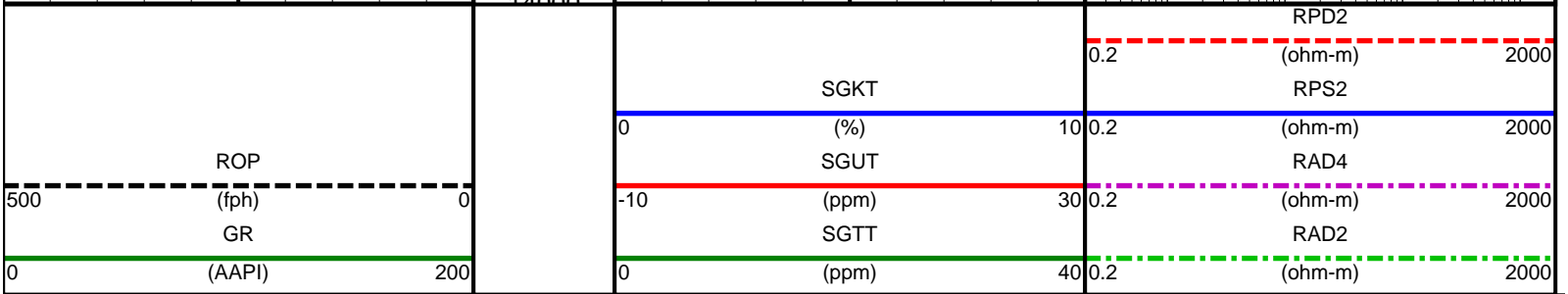


13800  
MD

13900  
MD

Comment  
No. 2-2





SURVEY						
Survey Calculation Method: <b>Minimum Curvature</b>						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
<b>True North</b>	<b>1.55 deg</b>	<b>52861 nT</b>	<b>66.82 deg</b>	<b>8.67 deg</b>	<b>0.00 deg</b>	<b>8.67 deg</b>
<b>Survey Tie-On</b>	Depth	INC	AZ	TVD	NS	EW
	<b>786.00 ft</b>	<b>0.12 deg</b>	<b>116.60 deg</b>	<b>785.99 ft</b>	<b>0.33 ft</b>	<b>1.85 ft</b>

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
952.00	0.35	87.16	951.99	0.28	2.51	0.35	0.15
1044.00	0.45	120.27	1043.99	0.11	3.10	0.19	0.27
1134.00	0.45	140.25	1133.98	-0.34	3.64	-0.24	0.17
1226.00	0.51	175.34	1225.98	-1.03	3.90	-0.92	0.32
1316.00	0.16	161.80	1315.98	-1.55	3.97	-1.44	0.40
1407.00	0.10	121.35	1406.98	-1.71	4.08	-1.60	0.12
1499.00	0.14	43.59	1498.98	-1.67	4.23	-1.55	0.17
1590.00	0.20	82.85	1589.98	-1.57	4.46	-1.45	0.14
1681.00	0.20	356.57	1680.98	-1.39	4.61	-1.26	0.30
1772.00	0.25	318.95	1771.98	-1.08	4.47	-0.96	0.17
1864.00	0.22	265.70	1863.98	-0.94	4.16	-0.83	0.23
1958.00	0.60	237.39	1957.97	-1.22	3.57	-1.12	0.45
2053.00	0.69	226.71	2052.97	-1.88	2.73	-1.81	0.16
2148.00	1.28	297.39	2147.96	-1.79	1.37	-1.75	1.30
2243.00	0.36	3.75	2242.95	-1.00	0.45	-0.99	1.24
2338.00	0.22	331.63	2337.95	-0.54	0.38	-0.53	0.22
2433.00	1.04	239.34	2432.94	-0.82	-0.45	-0.83	1.13
2528.00	0.35	96.46	2527.94	-1.29	-0.90	-1.32	1.41
2623.00	0.42	150.50	2622.93	-1.63	-0.44	-1.64	0.37
2717.00	0.98	171.73	2716.93	-2.72	-0.15	-2.73	0.65
2812.00	1.25	43.66	2811.92	-2.78	0.68	-2.76	2.11
2908.00	1.13	48.39	2907.90	-1.39	2.11	-1.33	0.16
3002.00	0.89	57.07	3001.88	-0.38	3.41	-0.29	0.30
3097.00	0.53	67.82	3096.87	0.19	4.44	0.31	0.40
3192.00	0.28	102.96	3191.87	0.30	5.07	0.44	0.36
3287.00	0.07	338.84	3286.87	0.30	5.28	0.45	0.34
3381.00	0.22	279.13	3380.87	0.39	5.08	0.52	0.21
3476.00	2.13	140.01	3475.85	-0.94	6.03	-0.78	2.42
3571.00	3.36	137.89	3570.74	-4.36	9.04	-4.11	1.30
3666.00	2.48	142.79	3665.62	-8.06	12.15	-7.73	0.96
3761.00	2.68	119.00	3760.52	-10.77	15.33	-10.35	1.14
3856.00	4.07	111.09	3855.36	-13.06	20.42	-12.51	1.54
3951.00	6.35	110.45	3949.96	-16.11	28.49	-15.34	2.40
4046.00	6.24	112.16	4044.38	-19.89	38.19	-18.85	0.23
4140.00	6.03	112.68	4137.85	-23.73	47.48	-22.43	0.23
4235.00	4.68	101.93	4232.43	-26.45	55.88	-24.93	1.76
4330.00	5.64	105.27	4327.05	-28.48	64.17	-26.74	1.06
4425.00	6.66	121.46	4421.51	-32.59	73.37	-30.59	2.11
4520.00	4.64	130.49	4516.04	-37.96	81.00	-35.75	2.32
4615.00	5.36	125.41	4610.68	-43.02	87.54	-40.64	0.89
4710.00	6.67	113.47	4705.16	-47.79	96.21	-45.17	1.90
4805.00	6.21	113.84	4799.56	-52.07	105.97	-49.18	0.49

4900.00	4.31	107.93	4894.15	-55.24	114.07	-52.14	2.08
4994.00	5.68	111.79	4987.80	-58.06	121.75	-54.74	1.50
5090.00	6.34	115.52	5083.27	-62.10	130.95	-58.54	0.80
5184.00	5.68	115.56	5176.75	-66.35	139.83	-62.54	0.70
5280.00	6.00	120.43	5272.25	-70.94	148.44	-66.90	0.61
5375.00	4.70	119.30	5366.84	-75.36	156.11	-71.11	1.37
5470.00	3.50	118.18	5461.59	-78.63	162.06	-74.22	1.27
5565.00	2.60	113.96	5556.46	-80.88	166.59	-76.34	0.98
5660.00	2.14	106.57	5651.37	-82.26	170.26	-77.62	0.58
5754.00	0.99	94.49	5745.34	-82.82	172.75	-78.12	1.27
5849.00	0.16	256.21	5840.33	-82.92	173.44	-78.20	1.20
5943.00	0.56	235.28	5934.33	-83.21	172.94	-78.50	0.44
6038.00	0.88	205.15	6029.33	-84.13	172.24	-79.44	0.51
6133.00	0.99	186.12	6124.31	-85.61	171.85	-80.93	0.34
6228.00	1.05	207.84	6219.30	-87.20	171.35	-82.53	0.41
6322.00	1.11	212.09	6313.28	-88.73	170.47	-84.09	0.11
6418.00	0.20	244.80	6409.27	-89.59	169.82	-84.96	0.99
6525.00	0.55	170.57	6516.27	-90.18	169.74	-85.55	0.50
6562.00	0.73	195.89	6553.27	-90.58	169.70	-85.95	0.89
6593.00	2.11	337.85	6584.26	-90.24	169.43	-85.62	8.78
6625.00	5.91	344.94	6616.18	-88.10	168.78	-83.50	11.95
6657.00	10.41	347.97	6647.85	-83.68	167.75	-79.11	14.12
6688.00	13.67	352.11	6678.16	-77.31	166.66	-72.77	10.87
6720.00	16.08	356.18	6709.09	-69.14	165.85	-64.63	8.20
6752.00	17.83	357.18	6739.70	-59.83	165.31	-55.33	5.54
6784.00	21.62	356.59	6769.81	-49.04	164.72	-44.57	11.86
6815.00	25.44	356.02	6798.23	-36.70	163.92	-32.25	12.34
6847.00	29.15	355.75	6826.66	-22.06	162.86	-17.65	11.60
6878.00	30.46	357.03	6853.56	-6.69	161.90	-2.30	4.70
6910.00	33.45	357.57	6880.71	10.23	161.10	14.58	9.39
6942.00	37.53	358.13	6906.76	28.79	160.41	33.12	12.79
6973.00	41.48	358.01	6930.67	48.50	159.74	52.80	12.74
7005.00	45.59	358.67	6953.87	70.52	159.11	74.80	12.92
7037.00	48.96	0.53	6975.58	94.03	158.96	98.29	11.36
7068.00	53.43	1.08	6995.00	118.17	159.30	122.44	14.49
7100.00	56.91	1.69	7013.27	144.43	159.94	148.70	10.99
7131.00	60.78	1.51	7029.31	170.94	160.68	175.23	12.49
7163.00	64.33	0.90	7044.05	199.33	161.27	203.62	11.22
7194.00	67.07	0.55	7056.81	227.58	161.63	231.87	8.90
7226.00	69.93	0.86	7068.54	257.35	162.00	261.63	8.98
7258.00	73.25	1.06	7078.64	287.70	162.50	291.99	10.39
7289.00	75.87	1.25	7086.89	317.57	163.11	321.87	8.47
7321.00	78.31	1.75	7094.04	348.75	163.92	353.06	7.78
7352.00	78.88	1.76	7100.17	379.12	164.86	383.45	1.84
7384.00	80.58	1.66	7105.88	410.60	165.79	414.93	5.32
7416.00	83.48	1.30	7110.31	442.27	166.61	446.62	9.13
7447.00	84.61	1.88	7113.53	473.09	167.47	477.45	4.09
7479.00	84.68	1.24	7116.52	504.94	168.34	509.31	2.00
7580.00	89.45	0.46	7121.69	605.77	169.83	610.14	4.79
7671.00	89.14	0.07	7122.81	696.76	170.25	701.11	0.55
7763.00	88.40	359.50	7124.78	788.74	169.91	793.04	1.02
7855.00	90.26	359.33	7125.86	880.72	168.97	884.97	2.03
7945.00	89.51	357.98	7126.04	970.69	166.85	974.85	1.72
8037.00	90.68	358.28	7125.88	1062.64	163.85	1066.69	1.31
8127.00	90.62	1.79	7124.86	1152.62	163.91	1156.64	3.90
8218.00	90.18	0.91	7124.23	1243.60	166.05	1247.63	1.08
8310.00	90.18	1.73	7123.94	1335.57	168.17	1339.63	0.89
8401.00	89.75	1.93	7123.99	1426.52	171.08	1430.63	0.52
8492.00	90.00	1.27	7124.19	1517.49	173.62	1521.63	0.78
8584.00	90.37	0.17	7123.90	1609.48	174.77	1613.62	1.26
8675.00	90.68	359.56	7123.06	1700.47	174.56	1704.57	0.75

8766.00	90.37	358.47	7122.23	1791.45	172.99	1795.48	1.25
8857.00	89.88	0.72	7122.03	1882.45	172.35	1886.42	2.53
8948.00	89.88	359.41	7122.22	1973.44	172.45	1977.39	1.44
9040.00	90.31	358.99	7122.07	2065.43	171.17	2069.31	0.65
9132.00	89.82	1.91	7121.96	2157.42	171.89	2161.28	3.22
9226.00	88.83	0.99	7123.07	2251.38	174.27	2255.27	1.44
9321.00	90.49	0.92	7123.63	2346.36	175.85	2350.26	1.75
9416.00	90.06	0.63	7123.18	2441.35	177.14	2445.25	0.55
9511.00	89.88	359.32	7123.23	2536.35	177.10	2540.21	1.39
9606.00	89.01	359.81	7124.15	2631.34	176.38	2635.15	1.05
9701.00	91.23	356.82	7123.95	2726.29	173.58	2729.98	3.92
9796.00	90.49	354.72	7122.52	2821.01	166.58	2824.48	2.34
9891.00	90.86	351.90	7121.40	2915.35	155.51	2918.49	2.99
9986.00	89.38	350.15	7121.20	3009.18	140.69	3011.88	2.41
10081.00	89.51	350.20	7122.13	3102.78	124.48	3105.01	0.15
10176.00	87.35	348.81	7124.73	3196.15	107.19	3197.88	2.70
10272.00	89.81	349.37	7127.11	3290.38	89.03	3291.58	2.63
10367.00	91.48	351.20	7126.04	3384.00	73.00	3384.74	2.61
10462.00	91.54	350.75	7123.53	3477.79	58.10	3478.09	0.48
10557.00	89.75	350.76	7122.46	3571.55	42.84	3571.40	1.88
10652.00	89.38	353.07	7123.19	3665.59	29.48	3665.05	2.46
10747.00	86.79	352.46	7126.36	3759.78	17.52	3758.87	2.80
10842.00	86.36	352.32	7132.04	3853.77	4.96	3852.50	0.48
10938.00	86.98	352.31	7137.61	3948.75	-7.85	3947.09	0.65
11033.00	86.30	352.43	7143.18	4042.74	-20.44	4040.71	0.73
11128.00	85.56	352.03	7149.92	4136.63	-33.25	4134.22	0.88
11223.00	86.48	355.11	7156.52	4230.80	-43.87	4228.06	3.38
11318.00	85.68	353.68	7163.01	4325.12	-53.12	4322.10	1.72
11413.00	88.21	354.78	7168.08	4419.49	-62.66	4416.18	2.90
11507.00	89.08	356.99	7170.30	4513.22	-69.40	4509.69	2.53
11602.00	90.25	359.86	7170.85	4608.17	-72.01	4604.53	3.26
11698.00	89.01	359.02	7171.47	4704.16	-72.95	4700.46	1.56
11793.00	90.62	359.86	7171.78	4799.15	-73.88	4795.40	1.91
11888.00	90.68	1.94	7170.70	4894.13	-72.38	4890.38	2.19
11983.00	90.86	1.17	7169.43	4989.08	-69.81	4985.37	0.83
12079.00	90.31	0.67	7168.45	5085.06	-68.27	5081.36	0.77
12174.00	90.31	359.90	7167.93	5180.06	-67.79	5176.33	0.81
12269.00	89.38	0.74	7168.19	5275.06	-67.26	5271.31	1.32
12364.00	88.34	2.37	7170.08	5370.00	-64.69	5366.28	2.03
12459.00	89.81	5.82	7171.61	5464.73	-57.90	5461.16	3.95
12555.00	89.38	4.20	7172.29	5560.36	-49.52	5556.98	1.75
12651.00	90.18	7.44	7172.66	5655.85	-39.79	5652.70	3.48
12746.00	90.12	10.36	7172.41	5749.69	-25.09	5746.91	3.07
12841.00	89.14	8.63	7173.03	5843.38	-9.42	5840.99	2.09
12936.00	90.74	11.92	7173.12	5936.84	7.52	5934.88	3.85
13031.00	92.22	10.75	7170.67	6029.96	26.19	6028.46	1.99
13126.00	93.95	10.72	7165.56	6123.15	43.86	6122.10	1.82
13220.00	93.83	9.12	7159.18	6215.53	60.01	6214.88	1.70
13315.00	92.28	9.69	7154.12	6309.12	75.51	6308.85	1.74
13410.00	93.51	12.90	7149.32	6402.15	94.09	6402.35	3.61
13504.00	93.02	12.33	7143.97	6493.73	114.59	6494.45	0.80
13600.00	93.52	11.49	7138.49	6587.51	134.37	6588.73	1.02
13695.00	92.77	10.89	7133.28	6680.56	152.78	6682.25	1.01
13790.00	92.09	9.99	7129.25	6773.90	169.98	6776.02	1.19
13884.00	91.32	9.55	7126.45	6866.50	185.92	6869.01	0.94
13923.00	90.86	9.09	7125.71	6904.97	192.23	6907.65	1.67

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\*Weatherford Surveys from 952.00 ft MD to 13923.00 ft MD.\*

\*TD at 13978.00 ft MD.\*

The total correction is 8.67 deg relative to True North.

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**Weatherford®**

Final Print

COMPANY	<u>Anadarko Petroleum Corp.</u>		
WELL	<u>Camp 24N-30HZ</u>		
FIELD	<u>Wattenberg</u>		
RIG	<u>H&amp;P 307</u>		
LOC.	<u>Colorado</u>	COUNTY	<u>Weld</u>