



# Weatherford®

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

Company: Anadarko  
Well: Sarchet 36ZN-32HZX  
Field: Wattenberg  
Rig: H & P 307  
County: Weld

COMPANY	<u>Anadarko</u>
WELL	<u>Sarchet 36N-32 HZX</u>
FIELD	<u>Wattenberg</u>
RIG	<u>H &amp; P 307</u>
COUNTY	<u>Weld</u>
API #	<u>05-123-35593-0000</u>
STATE	<u>Colorado</u>

Location	Latitude: 40.18771° N	X = 3,195,525.19 ft	Mag Decl: 8.74°
	Longitude: 104.80014° W	Y = 1,311,997.72 ft	Mag Dip: 66.81°
Other Services: Temperature and Directional			

Permanent Datum:	<u>Mean Sea Level</u>	
Log Measured From:	<u>Drill Floor</u>	Elev: <u>4939.0 ft</u> above perm. datum
Depth Reference:	<u>Drillers Tally</u>	Total Depth: <u>11611 ft</u>
Depth Logged:	6289 ft	to 11803 ft
Runs:	3	
Date Logged:	7-Oct-12	to 14-Oct-12
Spud Date:	18-Sep-12	

Elevation	K.B. Top Drive
	G.L. 4919.0 ft
	D.F. 4939.0 ft
	W.D. Land

Borehole Record			Casing Record			
Hole Size	From	To	Size	Weight	From	To
8.750 in.	6416 ft	7599 ft	7.000 in.	26.0 lb/ft	Surface	7578 ft
6.125 in.	7599 ft	11803 ft				

Borehole Deviation Record			Mud Record			
Hole Size	Min. Inc.	Max. Inc.	Type	Weight	From	To
8.750 in.	0.41°	84.12°	WBM	9.95 - 10.40 ppg	6416 ft	7165 ft
6.125 in.	83.01°	91.73°	WBM	9.80 - 9.95 ppG	7165 ft	7599 ft
			WBM	9.85 - 9.90 ppG	7599 ft	11803 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		4	5	6			
Bit Size	in.	8.750	8.750	6.125			
Bit Type		PDC	Rock	PDC			
Bit TFA	sq.in.	0.648	0.390	0.648			
Bit Start Depth	ft	6416	7165	7599			
Bit End Depth	ft	7165	7599	11803			
Top Log Interval	ft	6289	7121	7502			
Bottom Log Interval	ft	7165	7599	11803			
Begin Log Time	hrs	13:08	4:51	4:38			
Begin Log Date	DD-MMM-YY	7-Oct-12	9-Oct-12	12-Oct-12			
End Log Time	hrs	16:15	3:57	21:31			
End Log Date	DD-MMM-YY	8-Oct-12	10-Oct-12	13-Oct-12			
Drill or Wipe		Drill	Drill	Drill			
Flow Rate	gal/min	511	547	290			
Max AV / CV @ MWD	ft/min	404 / 351	432 / 354	475 / 373			
Min Inc @ Depth	deg @ ft	0.41 @ 6348	37.48 @ 7139	83.01 @ 7634			
Max Inc @ Depth	deg @ ft	34.01 @ 7107	84.12 @ 7541	91.73 @ 8203			
MUD DATA							
Depth	ft	7165	7599	11803			
Fluid Type		WBM	WBM	WBM			
Mud Weight	ppg	9.95	9.80	9.85			
Plastic Viscosity	cP	12	12	15			
Solids / Sand	%	7.2 / 0.25	7.2 / 0.25	9.2 / 0.25			
Total Chlorides	ppm	1000	1000	1200			
pH		8.5	8.6	8.7			
Oil:Water Ratio	% Vol	100:0	96.5:3.5	91.2:8.8			
Rm @ Temperature	ohm-m @ deg F	N/A	N/A	1.96 @ 72			
Rmc @ Temperature	ohm-m @ deg F	N/A	N/A	2.20 @ 60			
Rmf @ Temperature	ohm-m @ deg F	N/A	N/A	1.96 @ 62			
KCl	% Vol	0	0	0			
Client Representative		C. Thibodeaux	C. Thibodeaux	C. Thibodeaux			
WeatherfordM/LWD Engineer		R. Komrs	R. Komrs	V. Campos			

EQUIPMENT SUMMARY					
M/LWD Run Number	4	5	6		
MWD Build Number	CP20657YHPG-01	CP20657YHPG-01	N/A		
HEL Serial Number	N/A	N/A	NW22040PDB4.75-M-1		
MFR Serial Number	N/A	N/A	NW22041RBBK4.75		
IDS Serial Number	N/A	N/A	NW22042BI4.75		
SAGR Serial Number	N/A	N/A	NW22043JB4.75		
Sensor to Bit Offsets / Acquisition Rates					
Directional	ft / sec	57.88 / RT	57.91 / RT	53.84 / RT	
Gamma Ray	ft / sec	43.67 / RT	43.71 / RT	38.92 / 5	
Resistivity	ft / sec	N/A	N/A	75.03 / 5	
Other Information					
Total BHA Length	ft	97.39	98.43	136.84	
BHA Assembly Type		Steerable	Steerable	Steerable	
Stabilizer Location	ft	N/A	N/A	34.35	
Stabilizer Location	ft	N/A	N/A	N/A	
Run Circulating Time	hr	28.00	32.23	46.33	
Run Drilling Time	hr	14.00	16.91	23.02	

## MUD SUMMARY

Date and Time	Run	Bit Depth	Mud Weight	% K	Rm @ Temp	Rmf @ Temp	Rmc @ Temp	BHCT
08 Oct 12 @ 16:15	04	7165 ft	9.95 ppg	0	N/A	N/A	N/A	174 F
10 Oct 12 @ 03:57	05	7599 ft	9.80 ppg	0	N/A	N/A	N/A	176 F
13 Oct 12 @ 21:31	06	11803 ft	9.85 ppg	0	1.96 @ 72	1.96 @ 62	2.20 @ 60	275 F

## M/LWD RUN REMARKS

**Run Number: 4 :: REAL TIME DATA LOG**

**WFT Services Provided:**

Real Time Logging: Gamma Ray and Temperature.

Directional Services: On demand Inclination and Azimuth.

**Borehole and Environmental Correction:**

Collar O.D.: 6.75 in.

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

Collar I.D.: 3.250 in.

K1 Factor: 3.012

KCl Concentration: 0%

**Run Number: 5 :: REAL TIME DATA LOG**

**WFT Services Provided:**

Real Time Logging: Gamma Ray and Temperature.

Directional Services: On demand Inclination and Azimuth.

**Borehole and Environmental Correction:**

Collar O.D.: 6.75 in.

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

Collar I.D.: 3.250 in.

K1 Factor: 3.012

KCl Concentration: 0%

**Run Number: 6 :: RECORDED DATA LOG**

**WFT Services Provided:**

Recorded and Real Time Logging: Gamma Ray, Deep, Medium 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: 9.85 ppg

**Resistivities:** Corrected for borehole temperature, hole size, drilling fluid resistivity and dielectric correction.

Borehole Temperature: 275° F

Drilling Fluid Resistivity: 1.96 ohm-m

KCl Concentration: 0%

# M/LWD LOG COMMENTS

**Comment No. 4-1**

REAL TIME DATA LOG

Start of MWD Drilling Run 04

Weatherford International provided 6 3/4 in. Directional, Gamma Ray and Temperature for Run 04.

Run 04 started formation drilling October 7, 2012 at 13:08 at 6416 MD / 6415 TVD. Weatherford International logged the 8.75 in. borehole.

The WBM at the start of drilling was 10.40 ppg.

**Comment No. 4-2**

End of MWD Drilling Run 04

Run 04 ended drilling formation October 8, 2012 at 16:15 at 7165 MD / 7115 TVD.

The WBM at the end of drilling was 9.95 ppg.

**Comment No. 5-1**

RECORDED DATA LOG

Start of MWD Drilling Run 05

Weatherford International provided 6 3/4 in. Directional, Gamma Ray and Temperature for Run 05.

Run 05 started formation drilling October 9, 2012 at 4:51 at 7165 MD / 7115 TVD. Weatherford International logged the 8.75 in. borehole.

The WBM at the start of drilling was 9.95 ppg.

**Comment No. 5-2**

End of MWD Drilling Run 05

Run 05 ended drilling formation October 10, 2012 at 3:57 at 7599 MD / 7254 TVD.

The WBM at the end of drilling was 9.80 ppg.

**Comment No. 6-1**

RECORDED DATA LOG

Start of LWD Drilling Run 06

Weatherford International provided 4 3/4 in. Directional, Resistivity, Gamma Ray, and Temperature for Run 06.

Run 06 started formation drilling October 12, 2012 at 4:38 at 7599 MD / 7254 TVD. Weatherford International logged the 6.125 in. borehole.

The WBM at the start of drilling was 9.90 ppg.

**Comment No. 6-2**

End of LWD Drilling Run 06

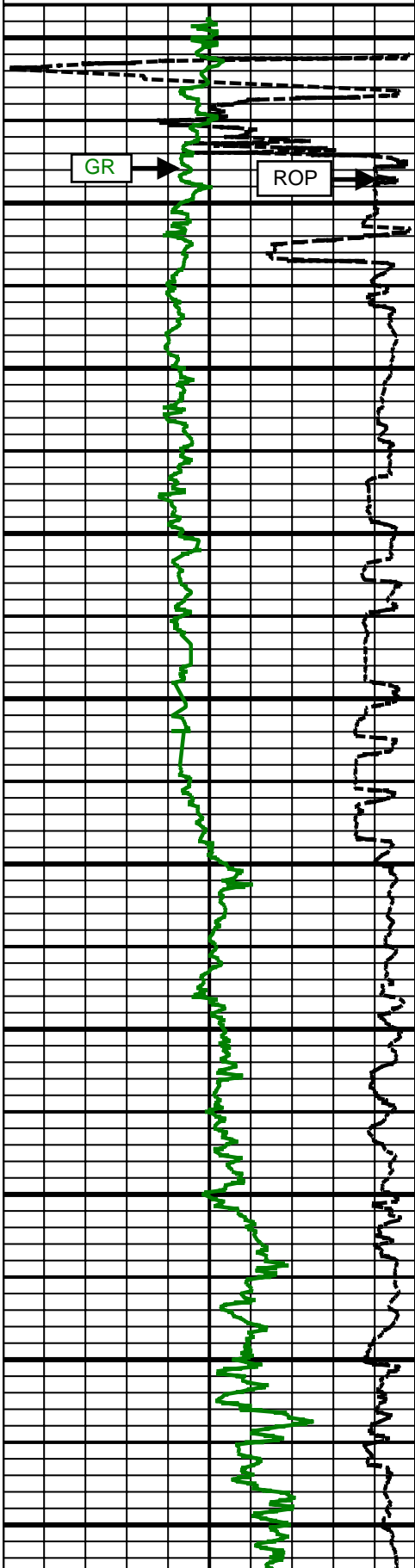
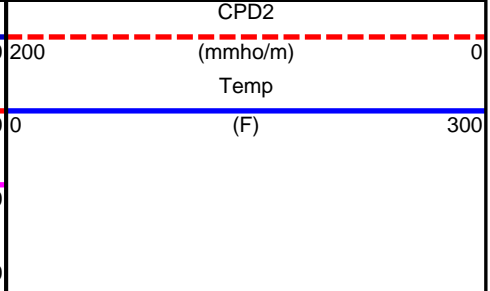
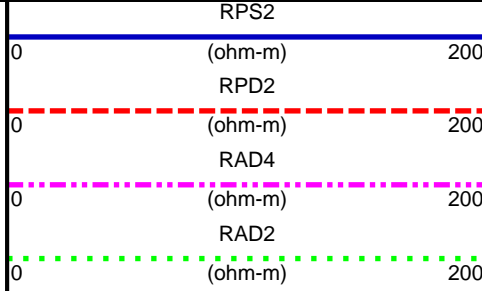
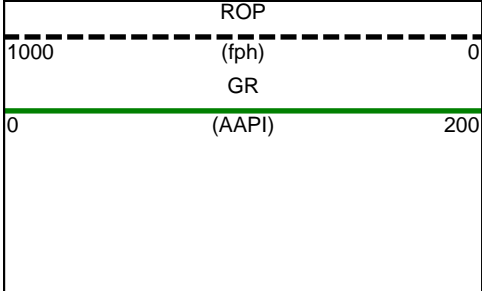
Run 06 ended drilling formation October 13, 2012 at 21:31 at 11803 MD / 7264 TVD.

The WBM at the end of drilling was 9.70 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 M/LWD Run Remarks
Deep Phase Resistivity	RPD2	ohm-m	2 MHz Deep Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Deep Attenuation Resistivity	RAD2	ohm-m	2 MHz Deep Attenuation Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Deep Attenuation Resistivity	RAD4	ohm-m	400 kHz Deep Attenuation Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Shallow Phase Resistivity	RPS2	ohm-m	2 MHz Shallow Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Deep Phase Conductivity	CPD2	mmho/m	2 MHz Deep Phase Conductivity 3.0 ft window 0.5 ft Exponential Smoothing	
Temperature	TEMP	F	Temperature 3.0 ft window 0.5 ft Exponential Smoothing	None



**1 Inch - Measured Depth**



6300  
MD

6400  
MD

6500  
MD

6600  
MD

6700  
MD

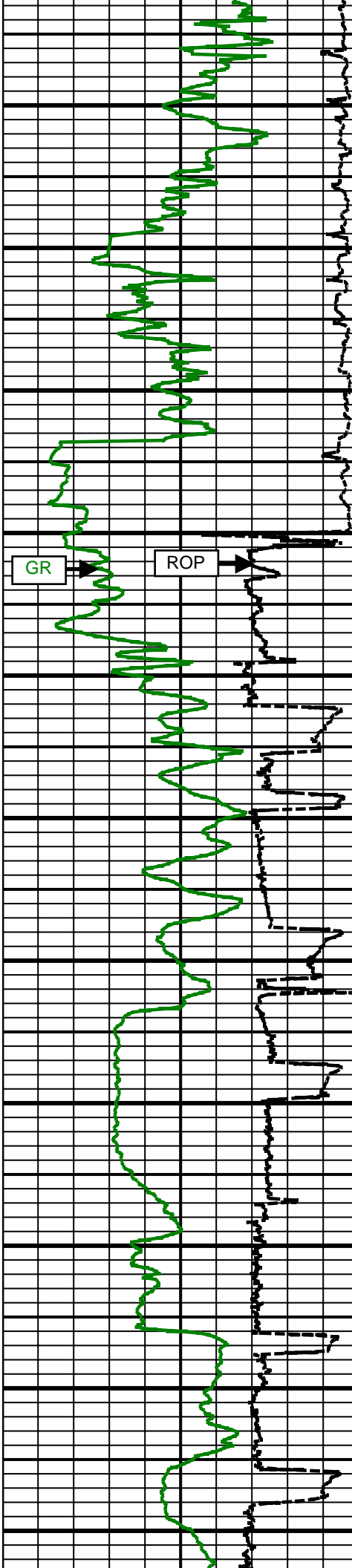
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7300 MD

7400 MD

7500 MD

7600 MD

7700 MD

7800 MD

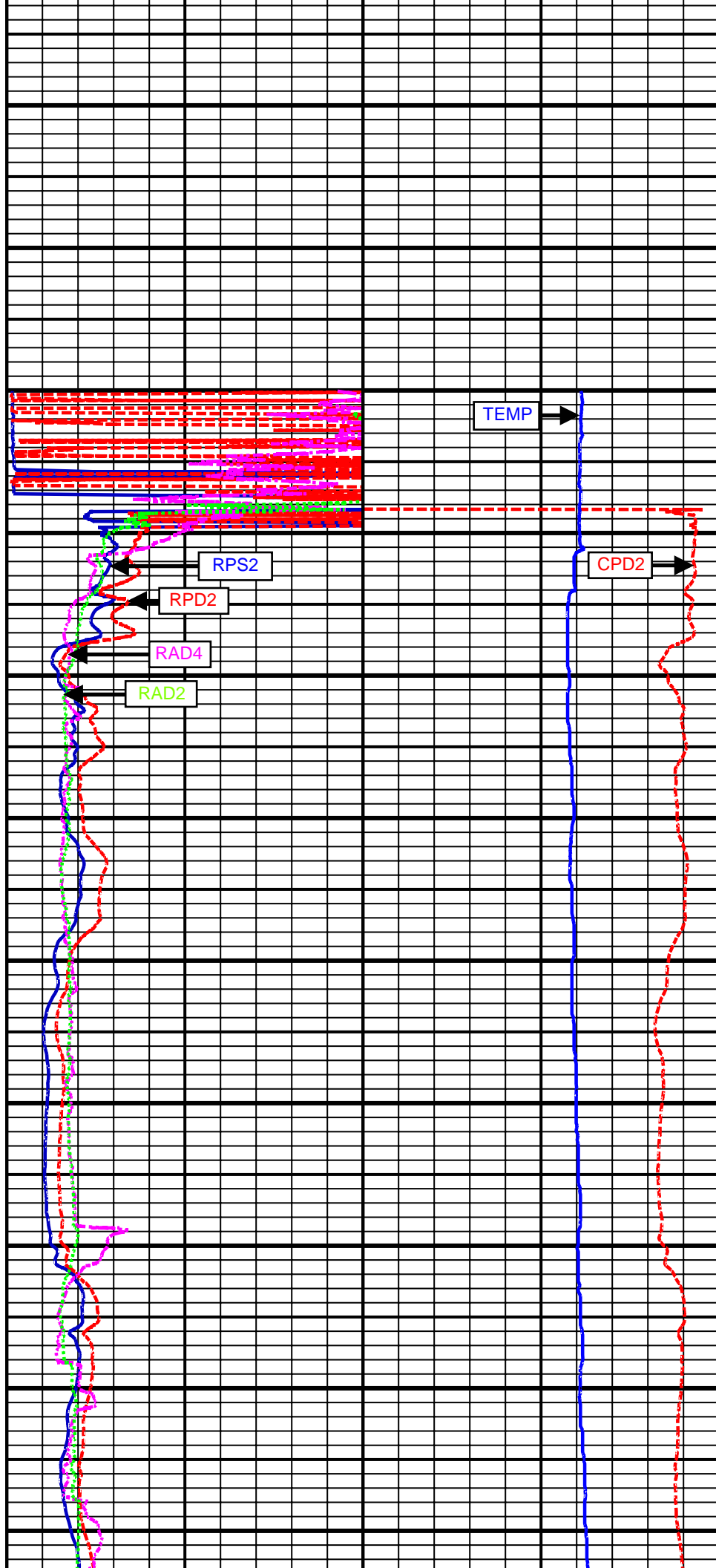
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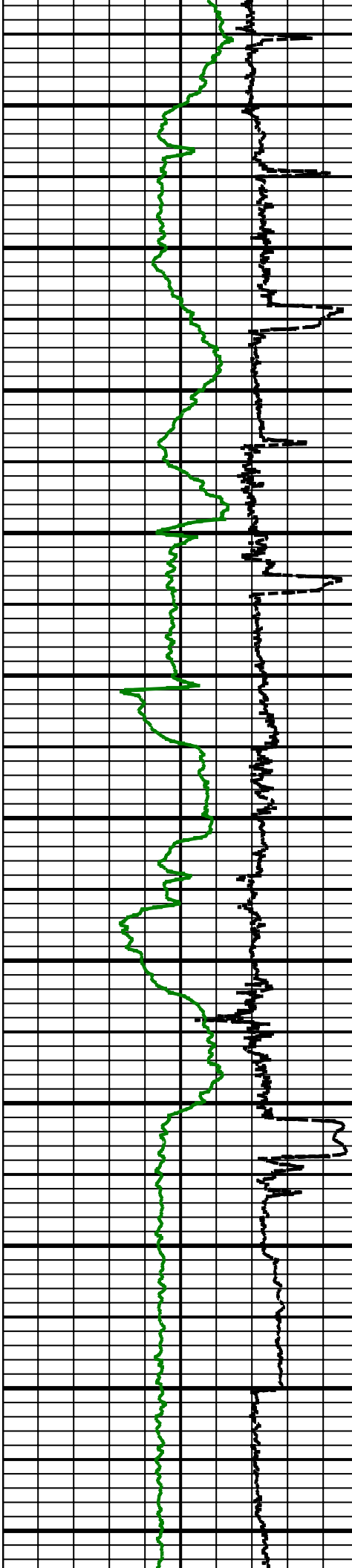
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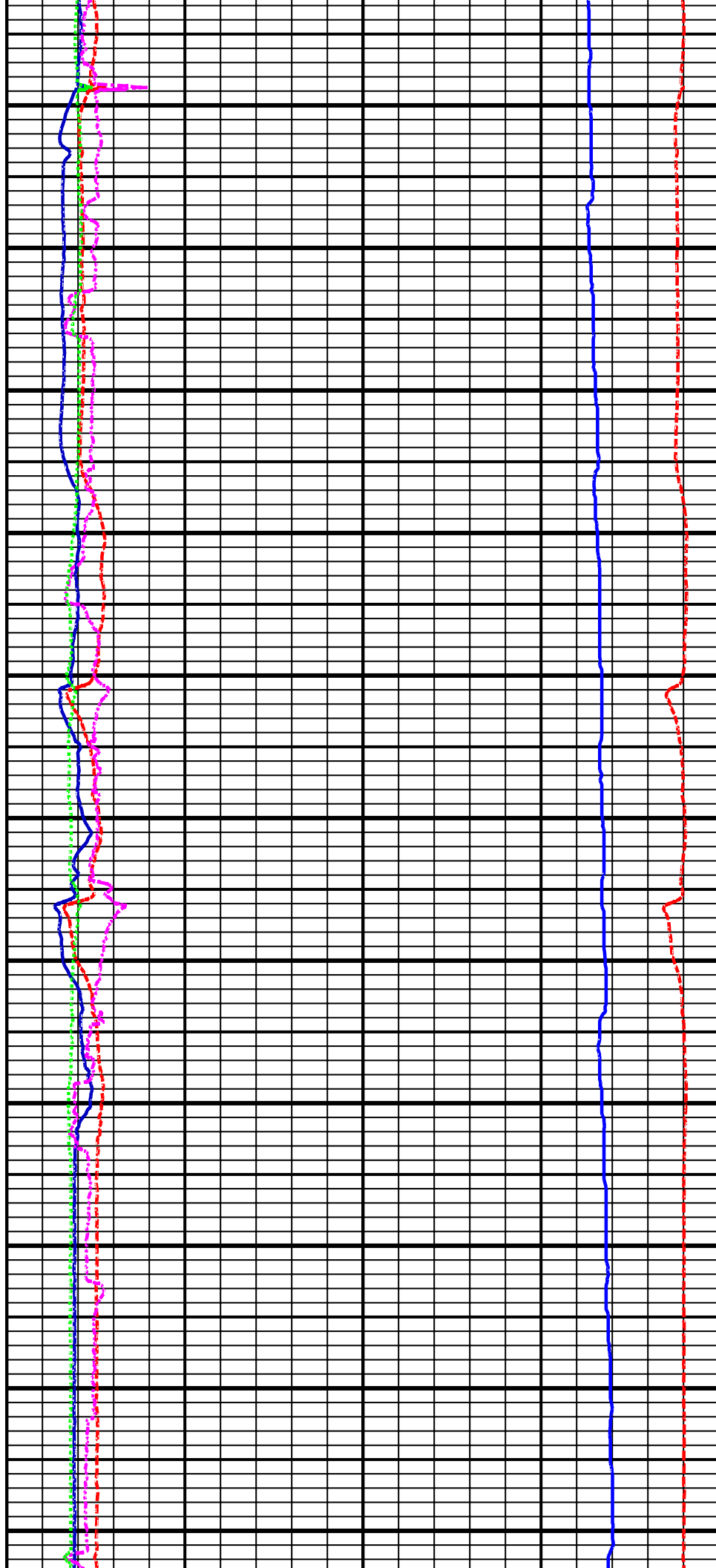
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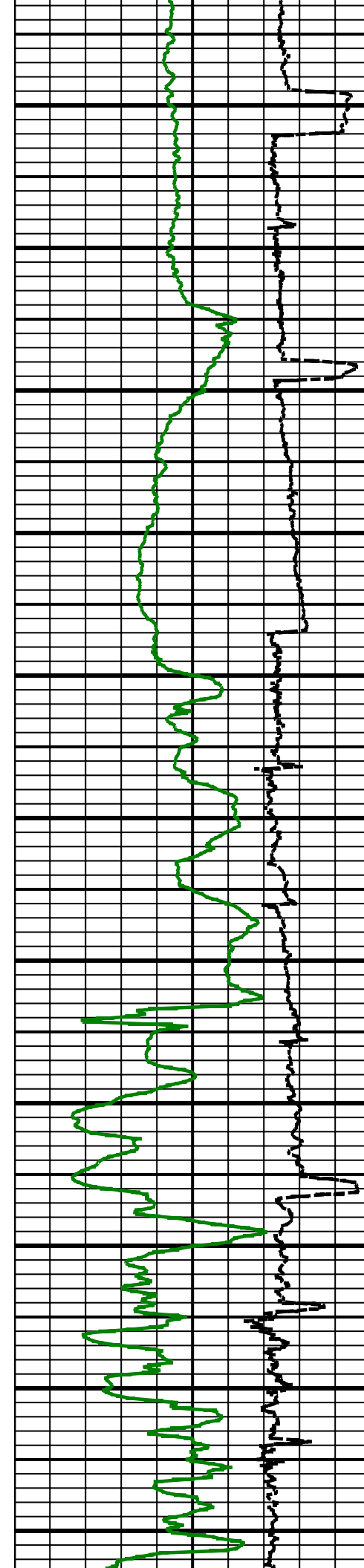
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9800 MD

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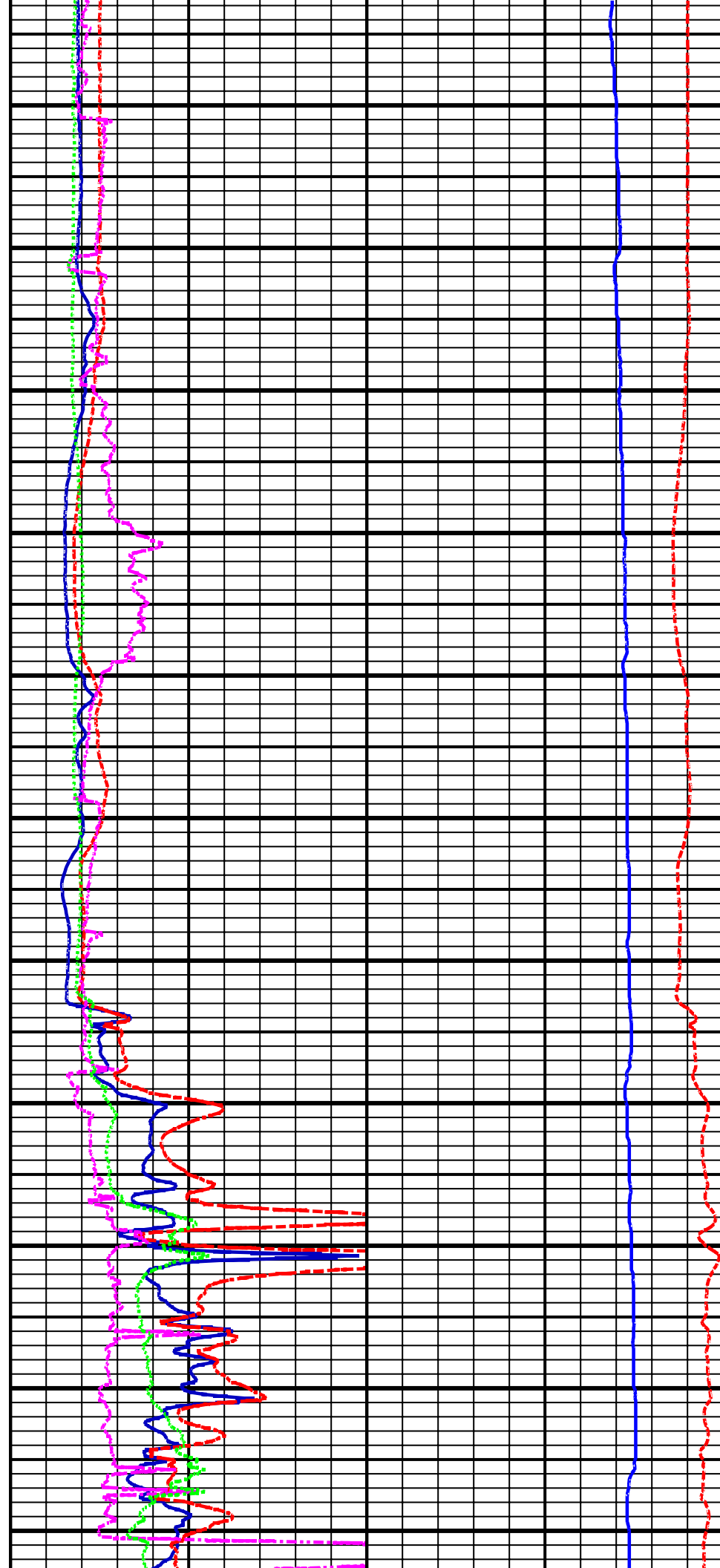
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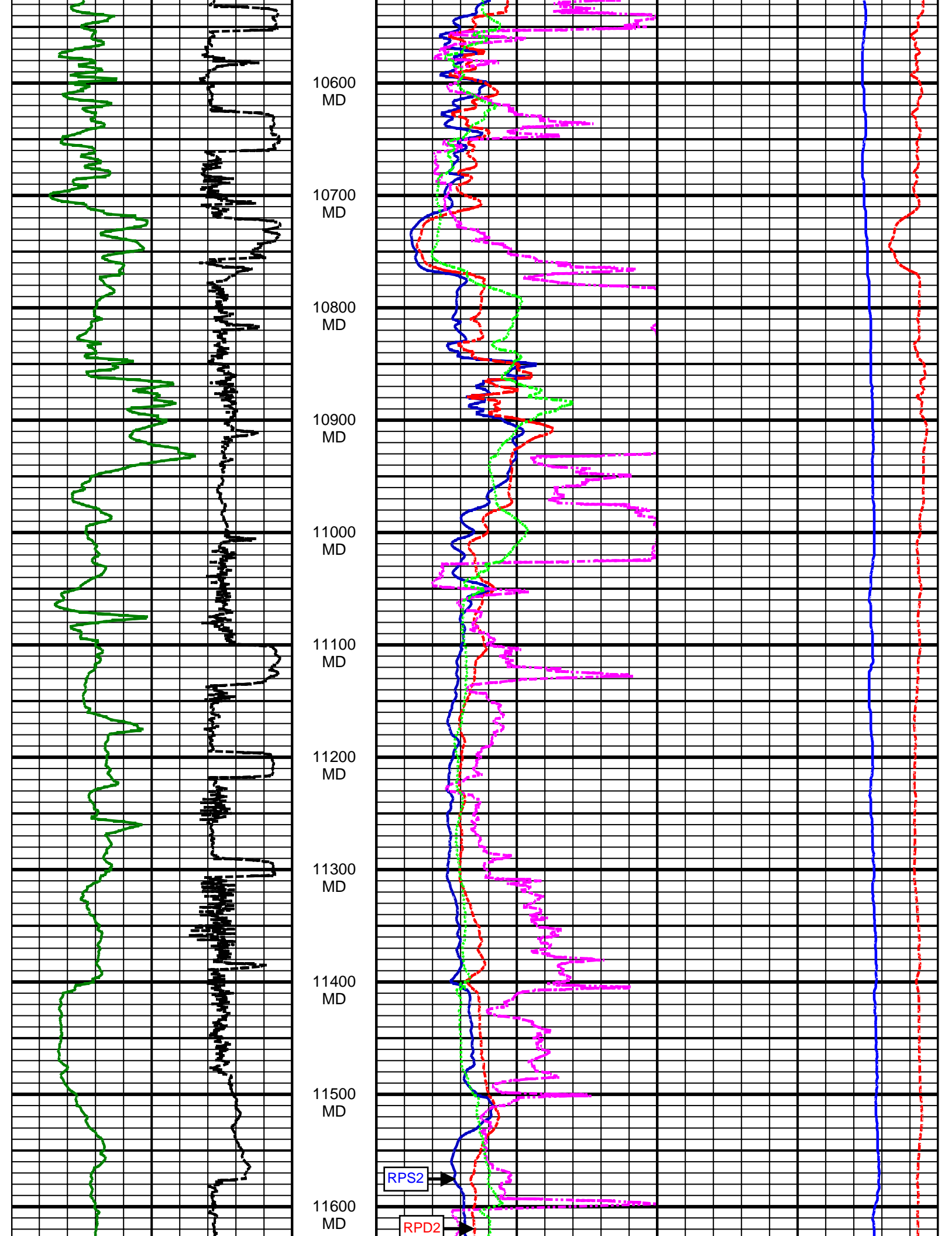
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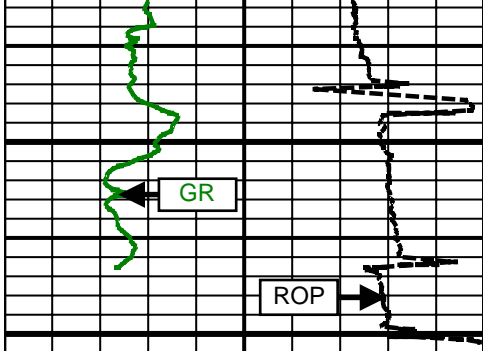
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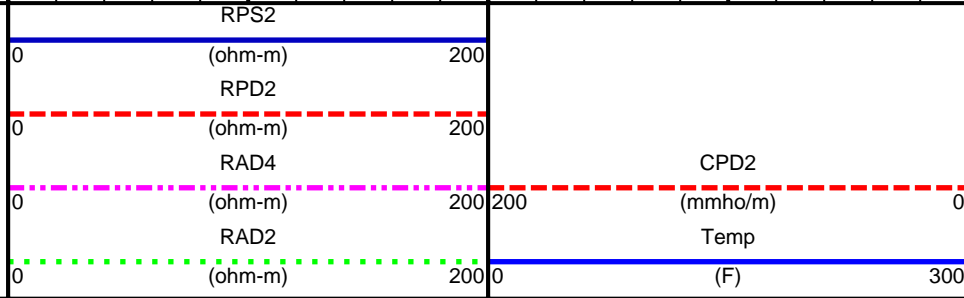
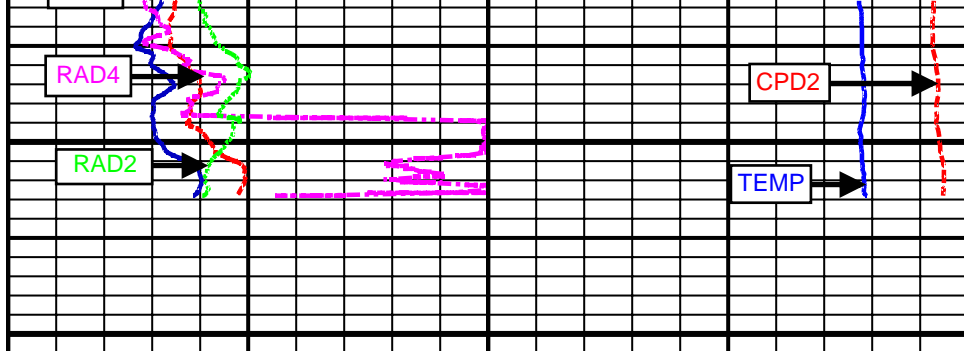
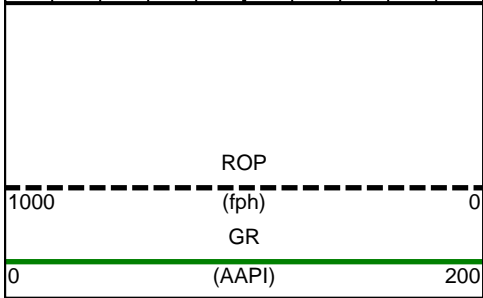






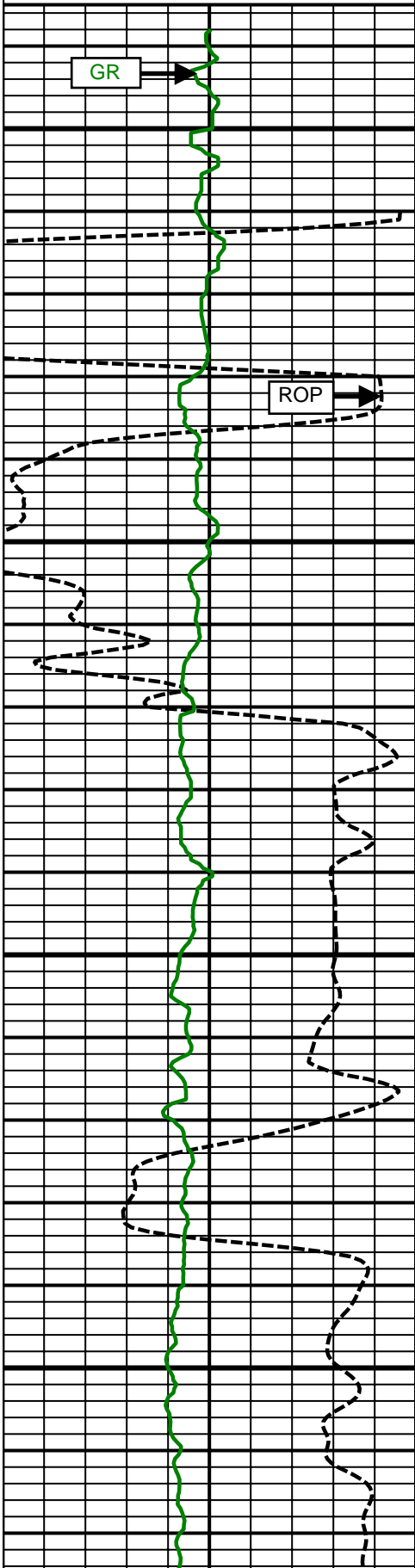
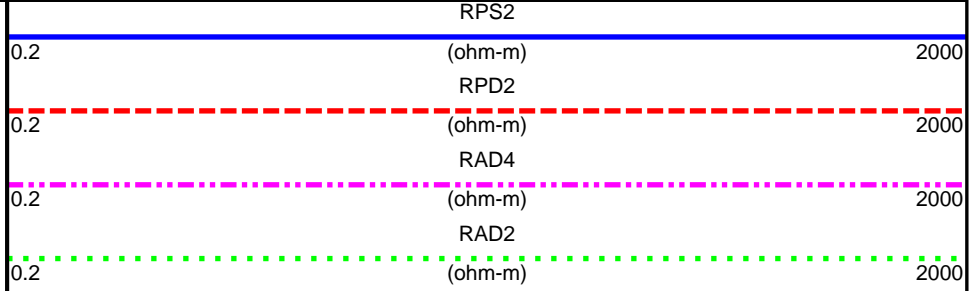
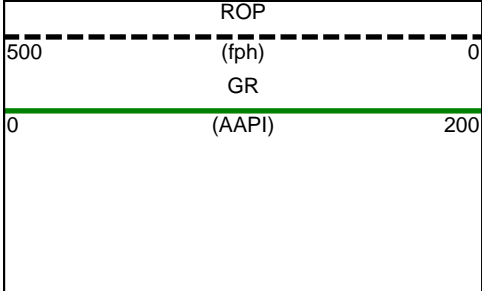
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**5 Inch - Measured Depth**

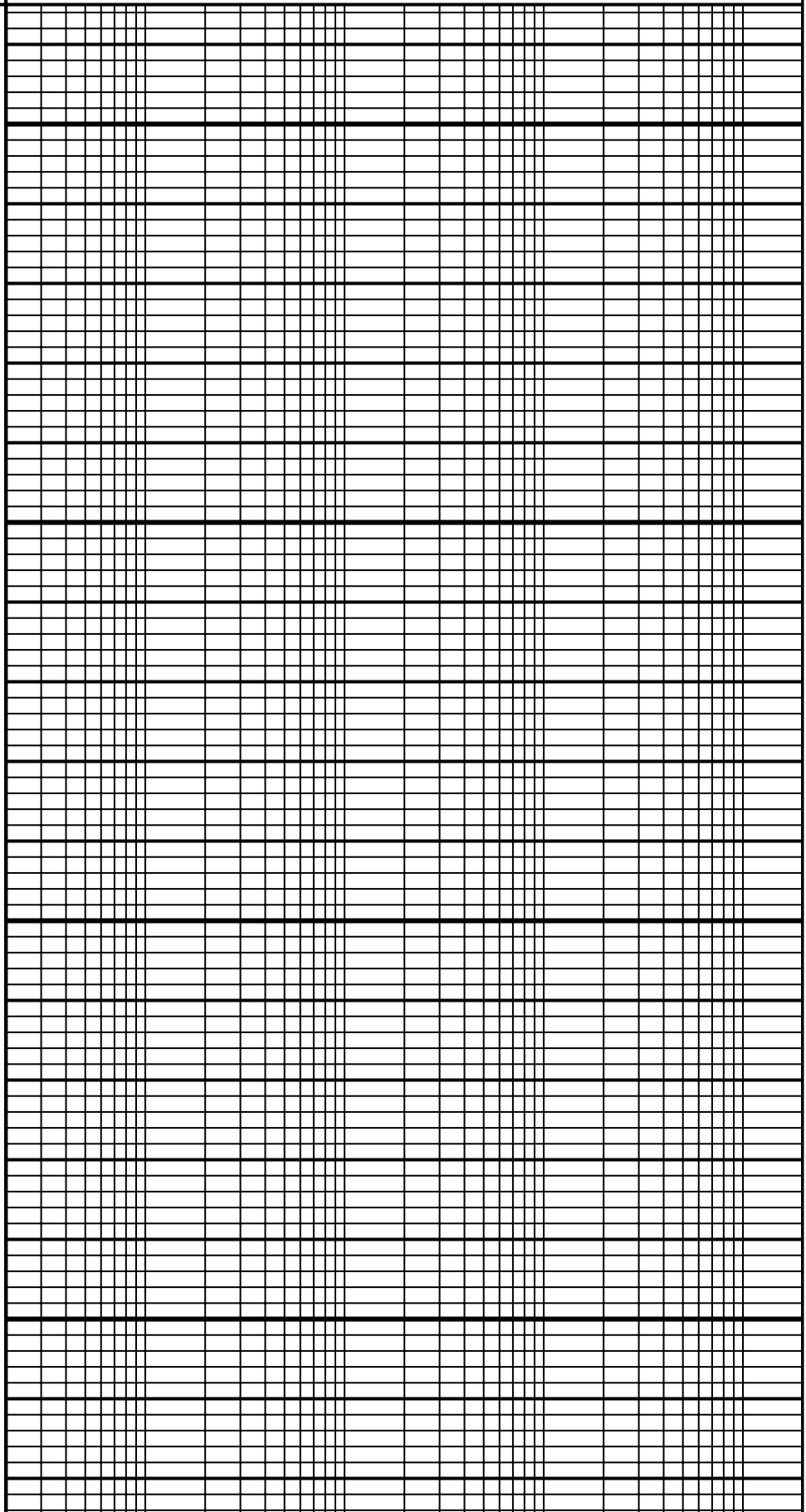


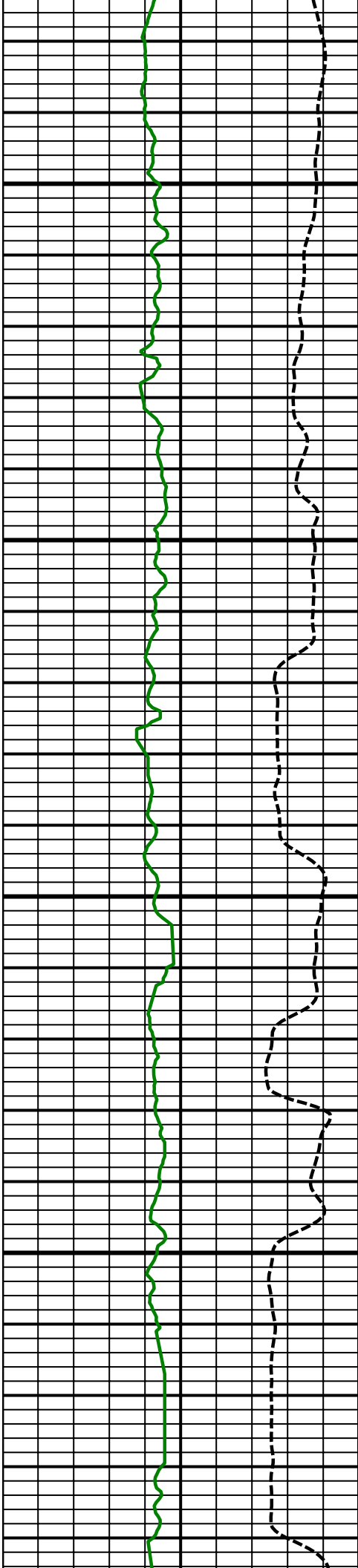


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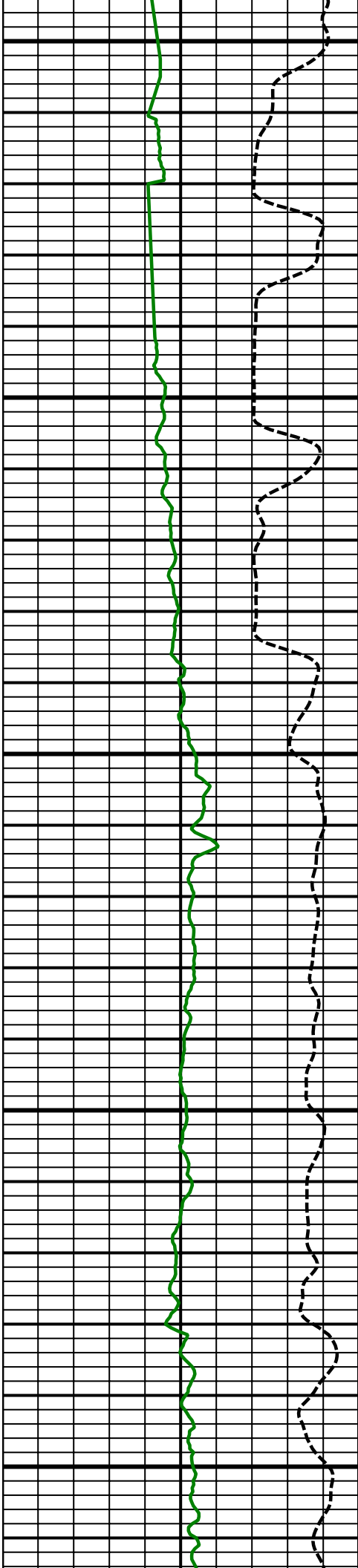
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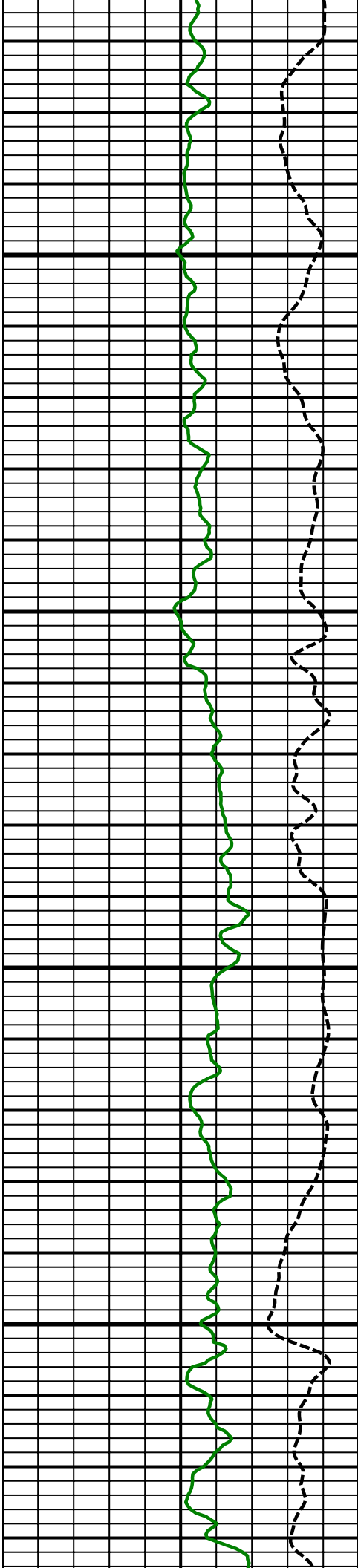
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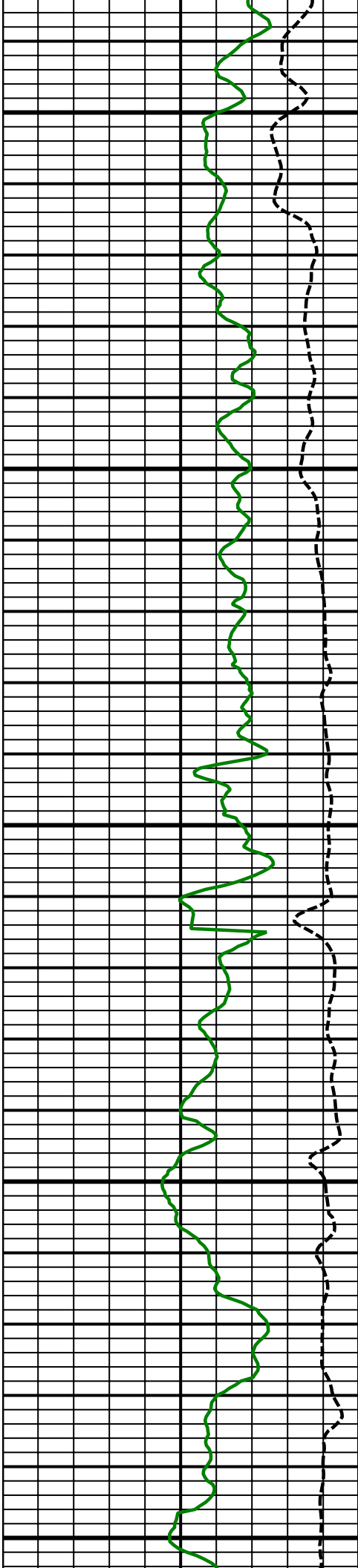
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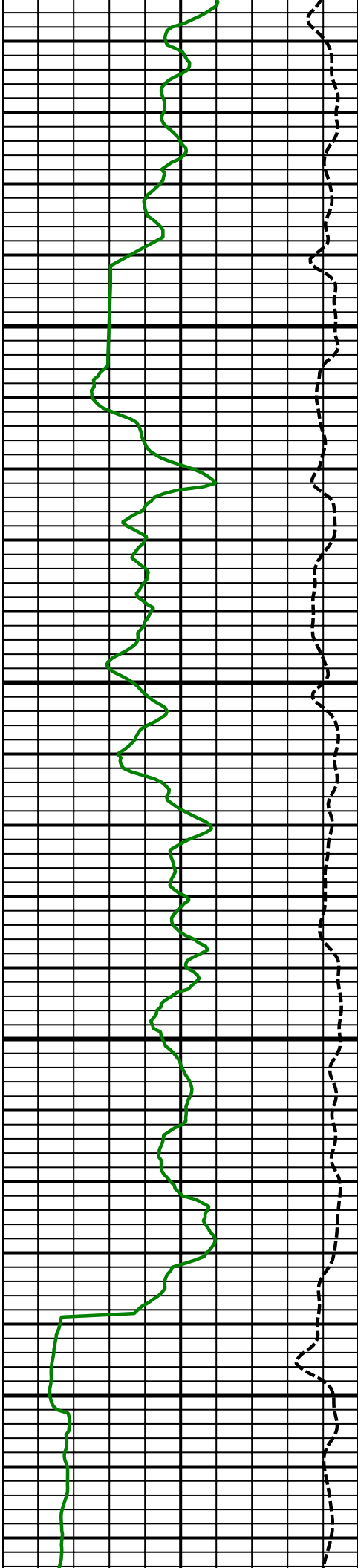


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Comment  
No. 5-1

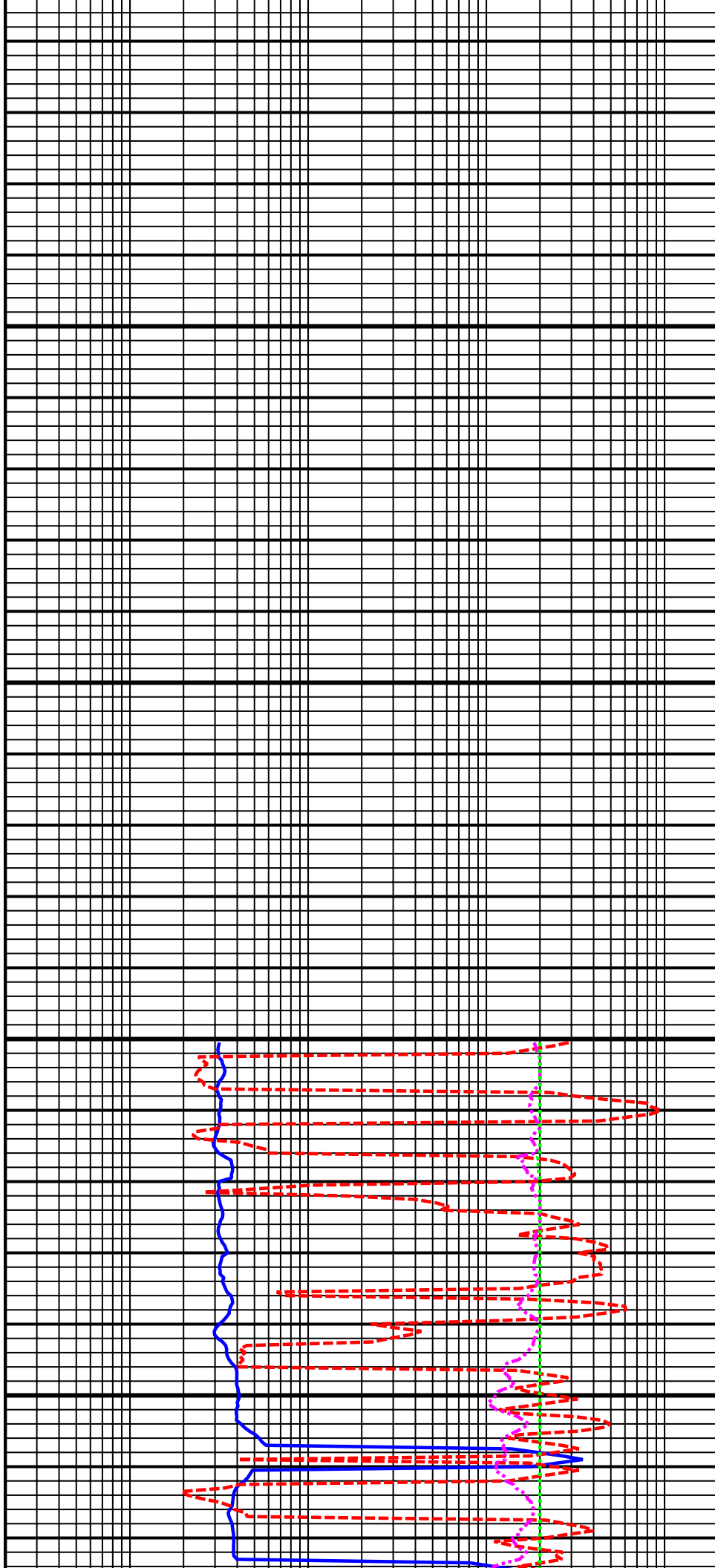
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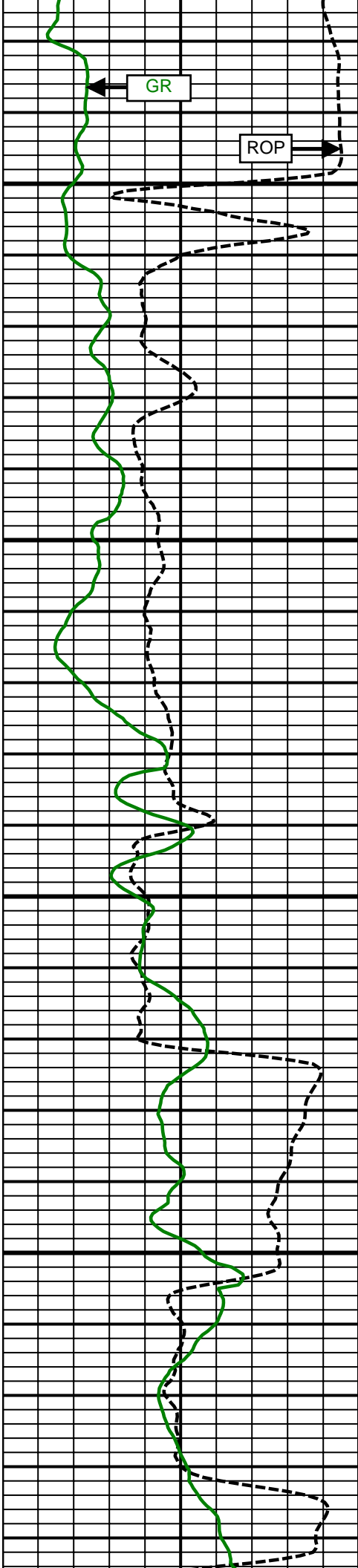
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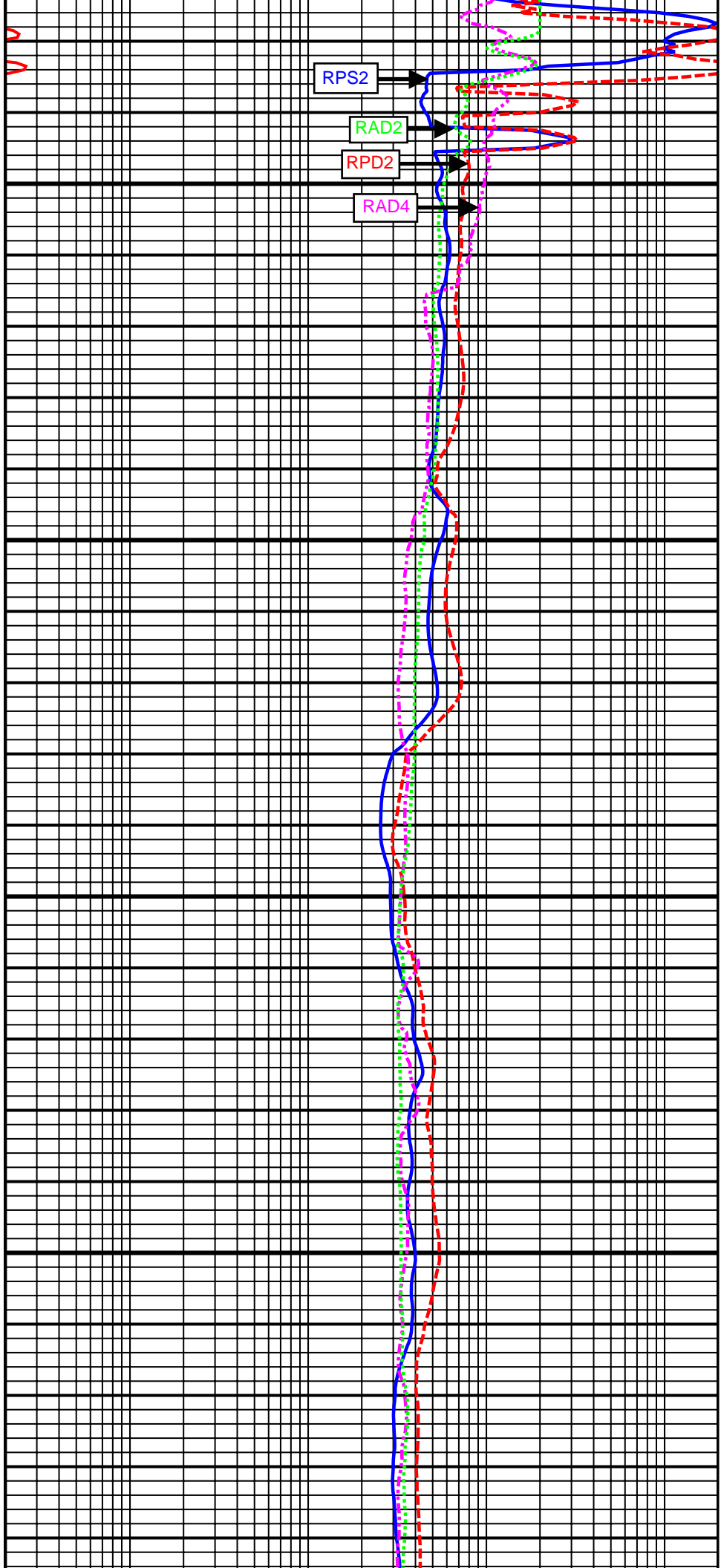


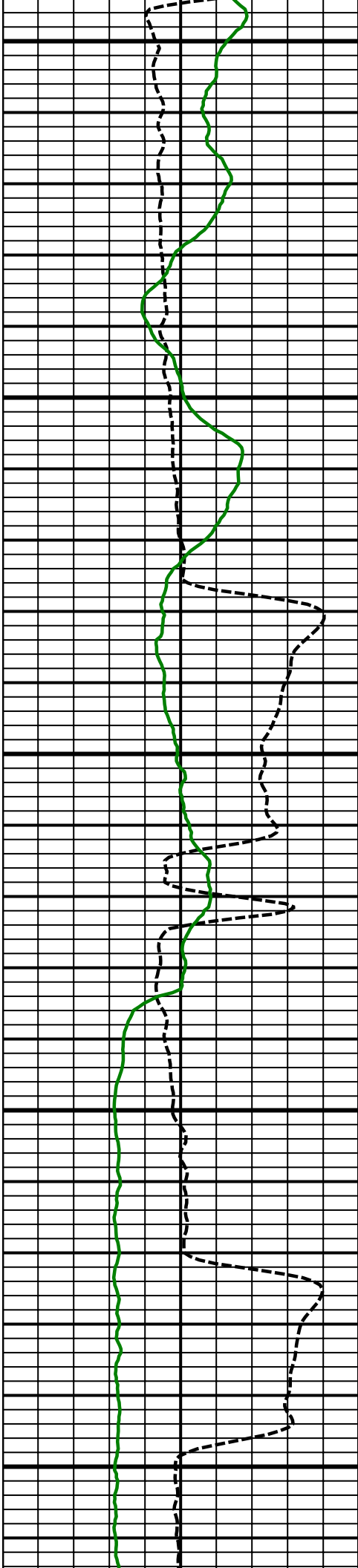
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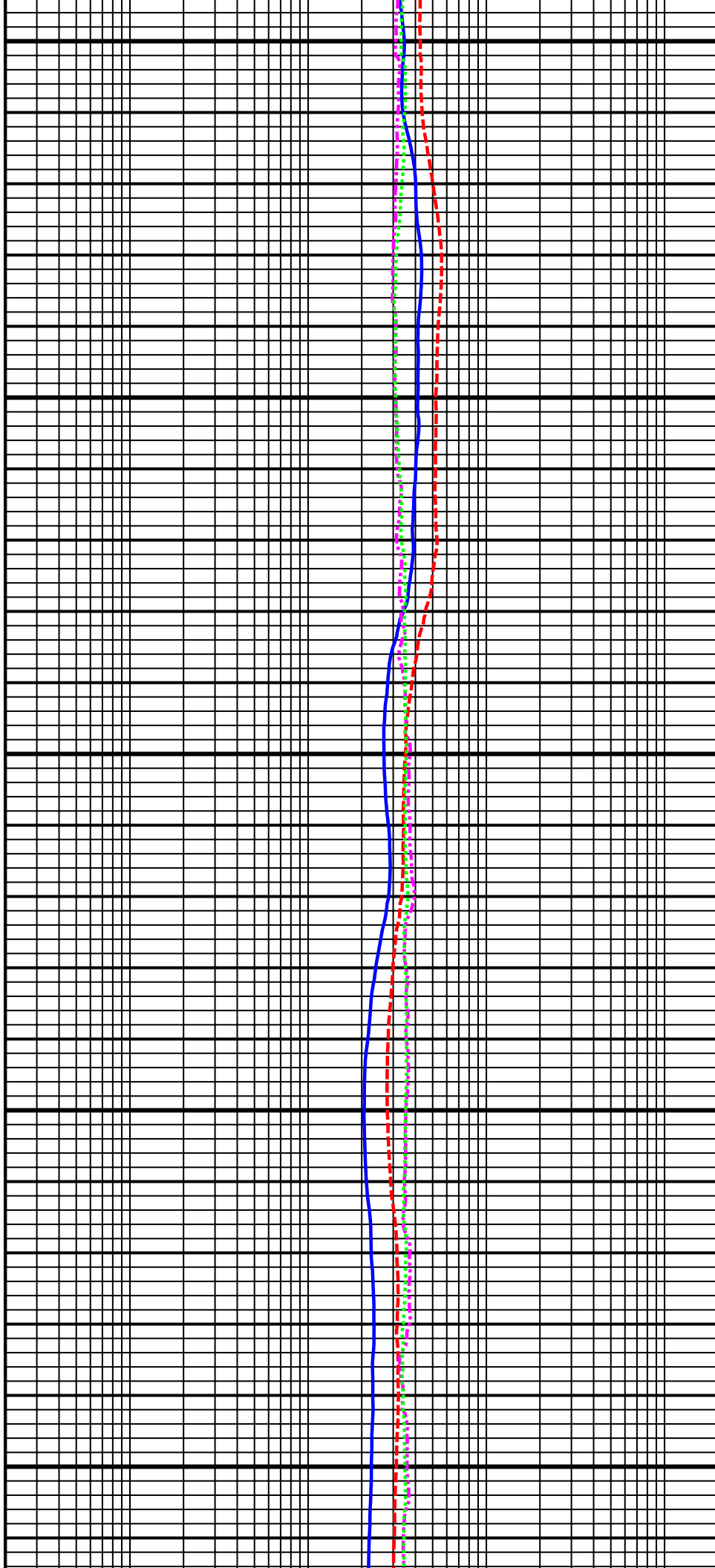




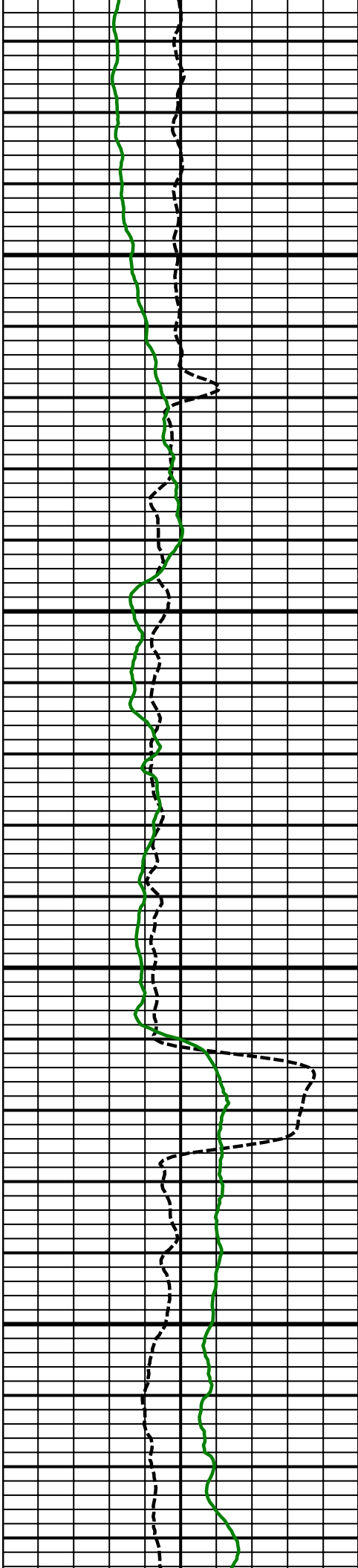
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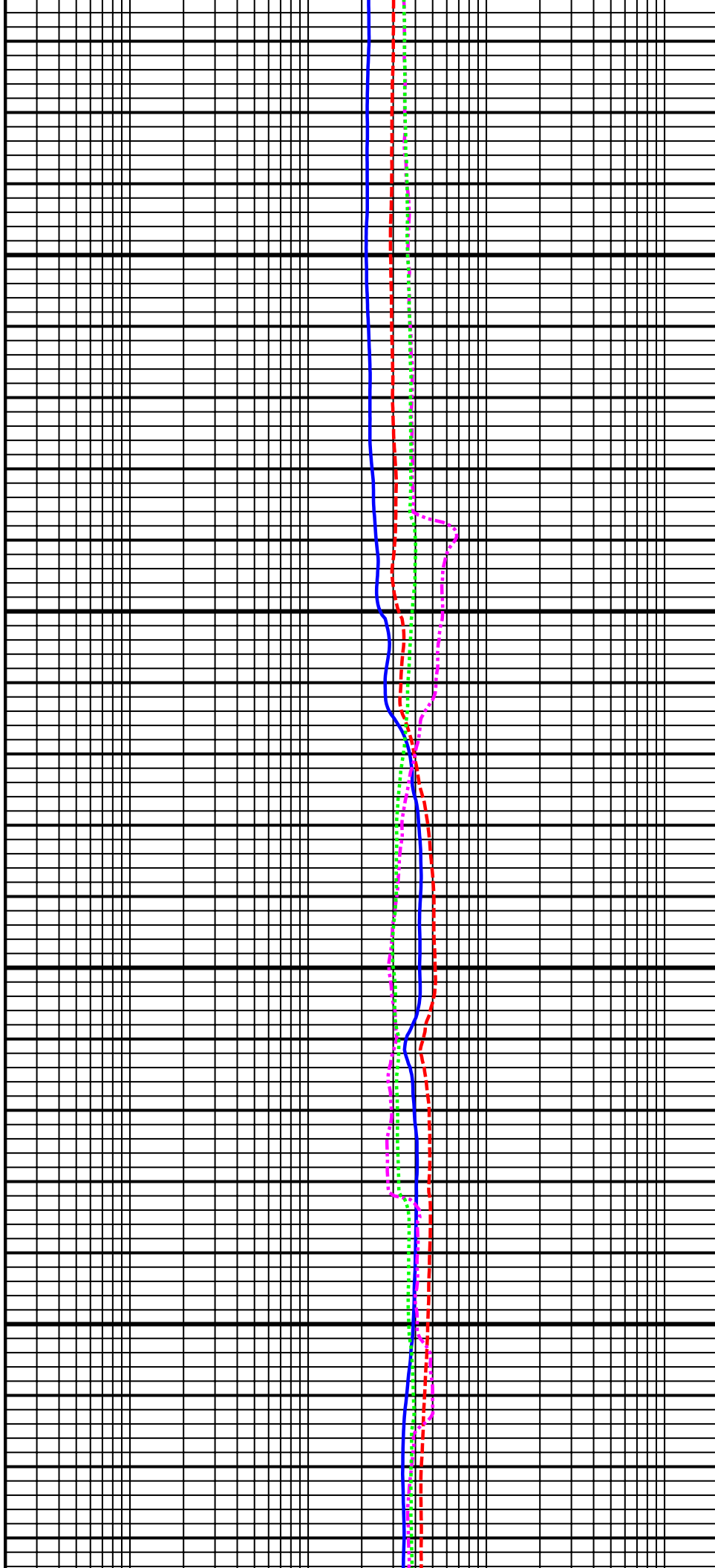


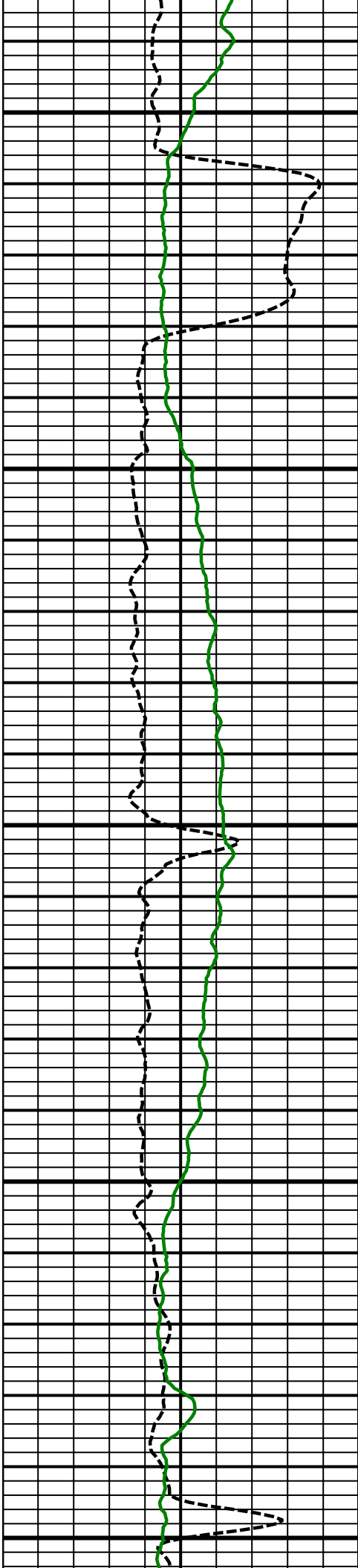




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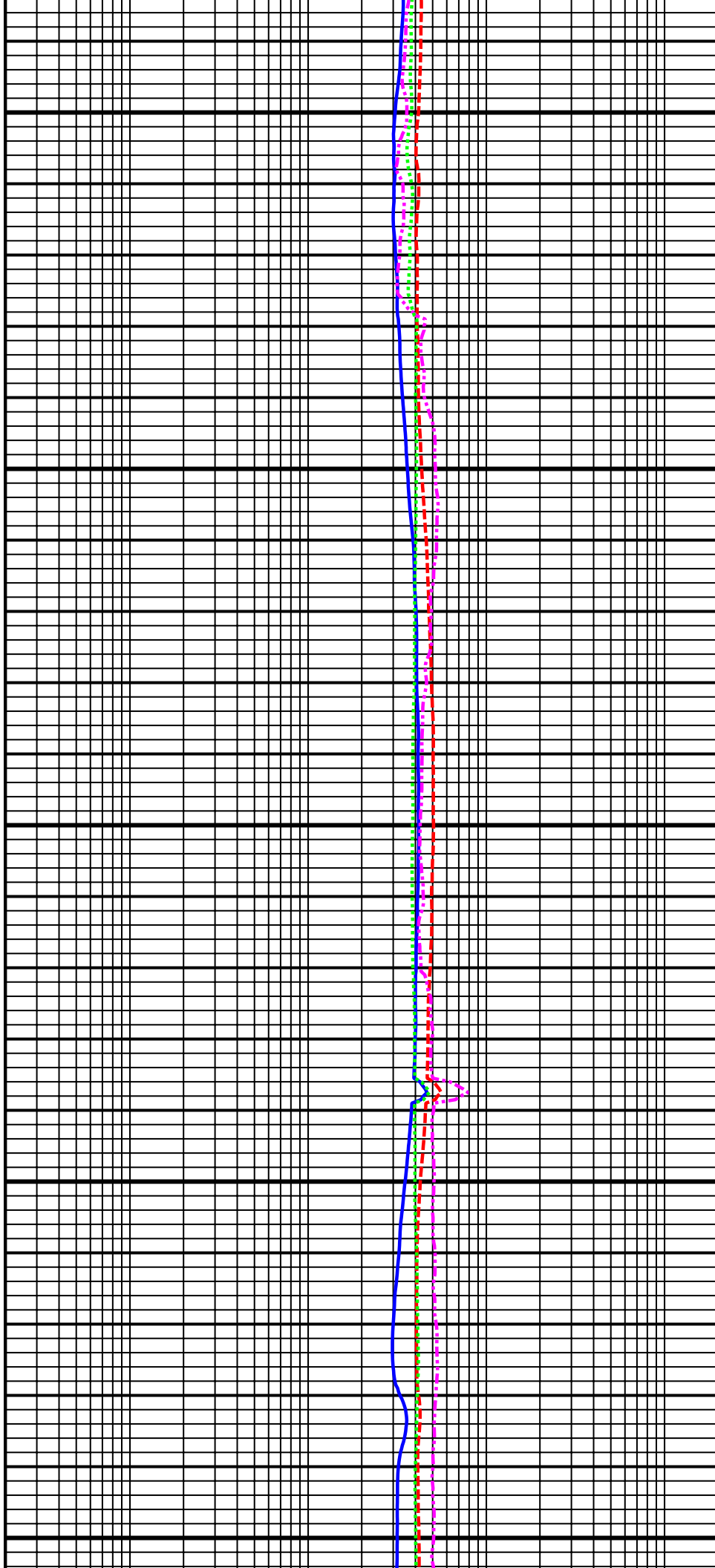
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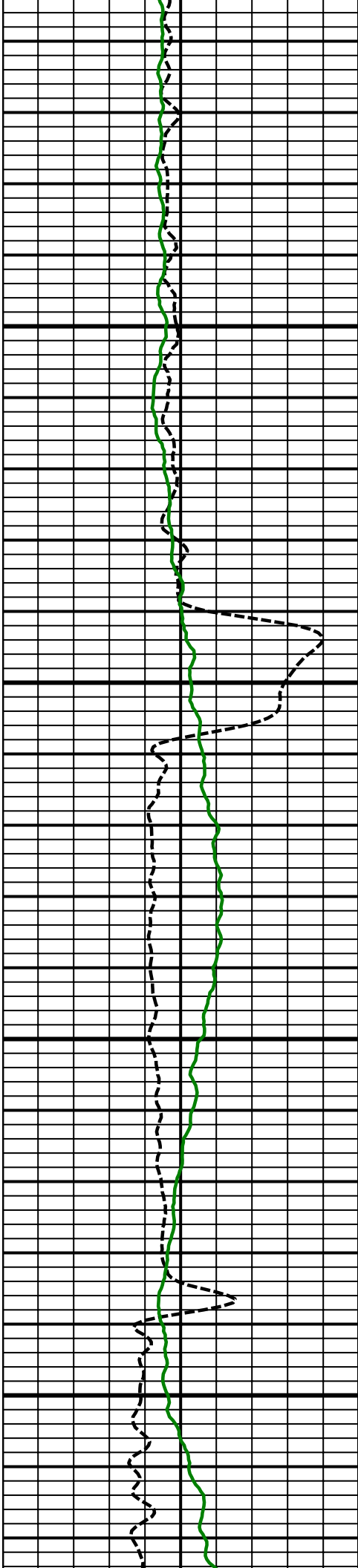




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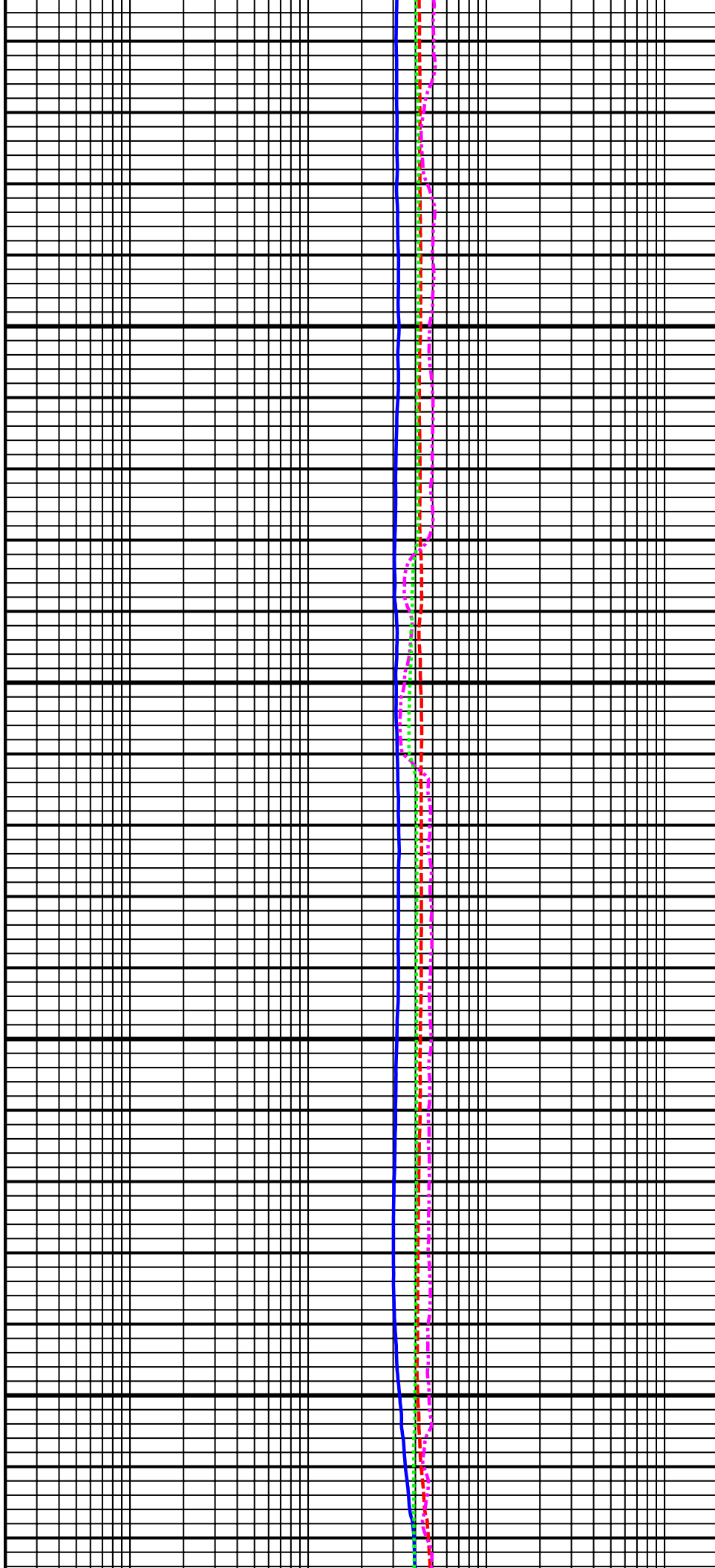
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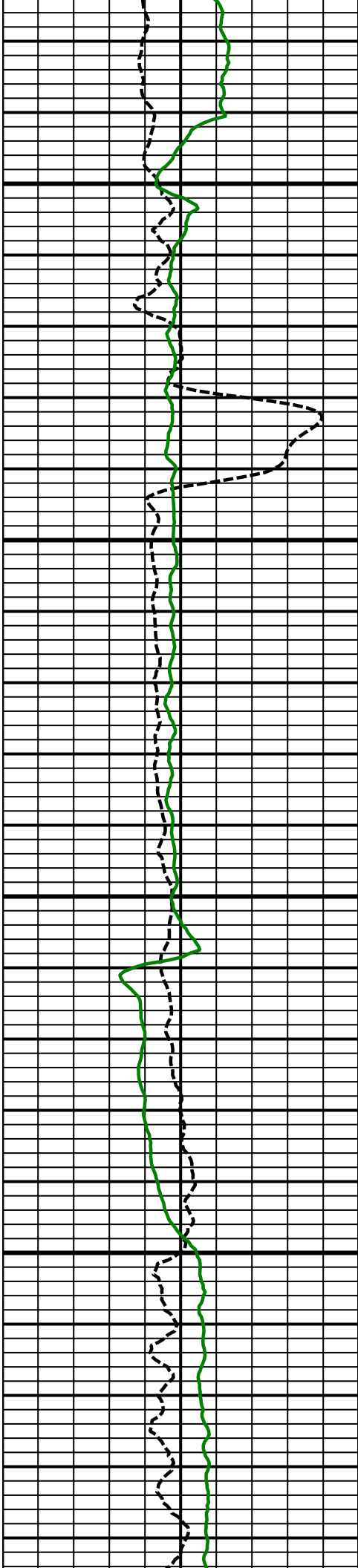




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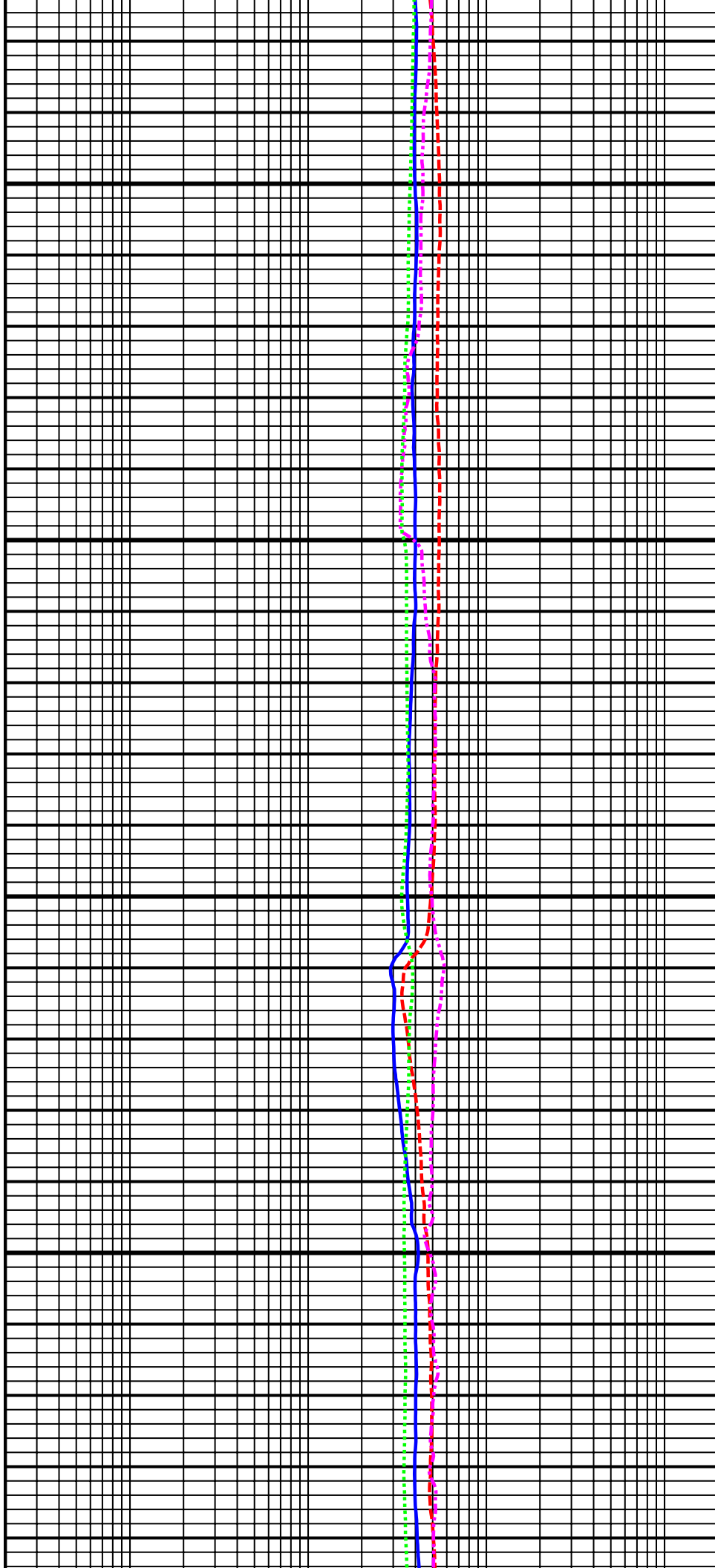
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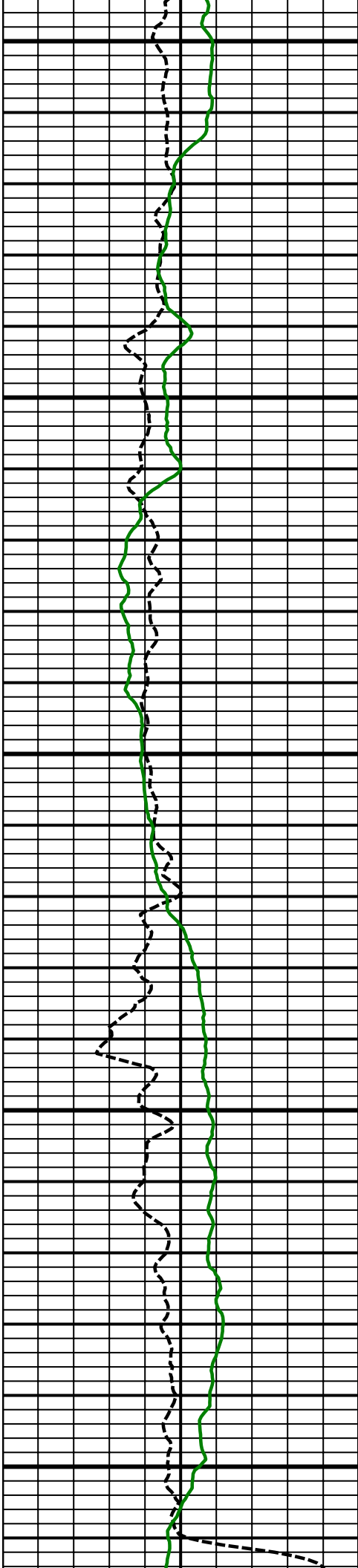




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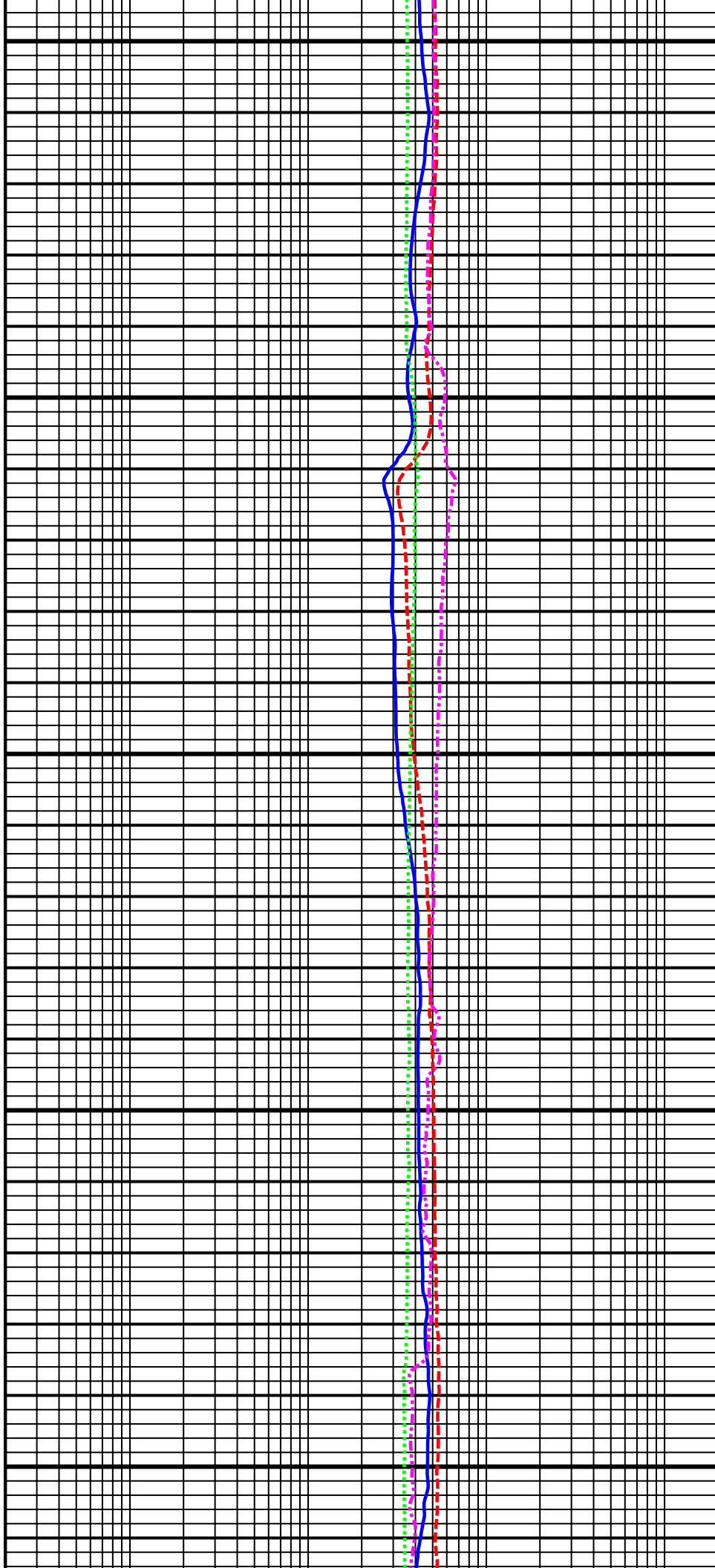


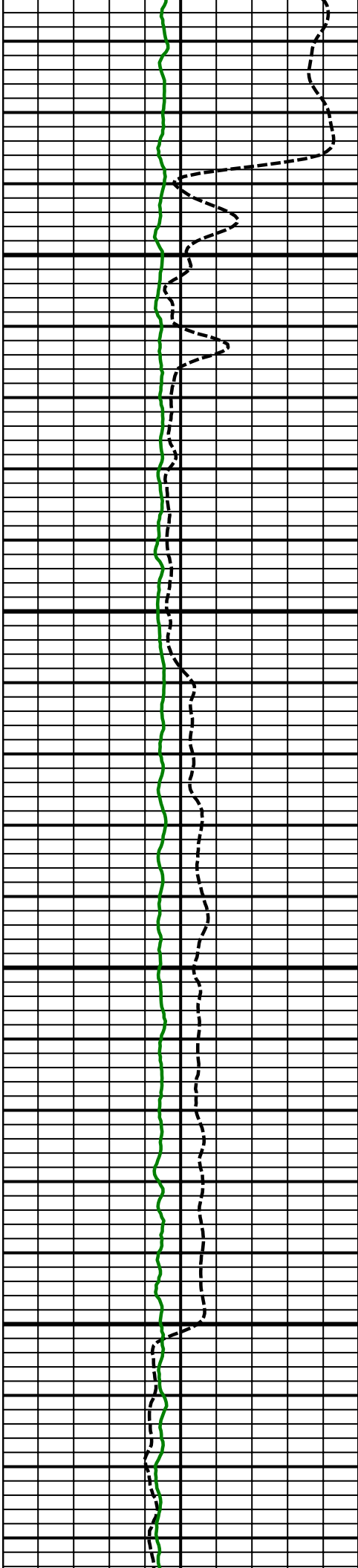


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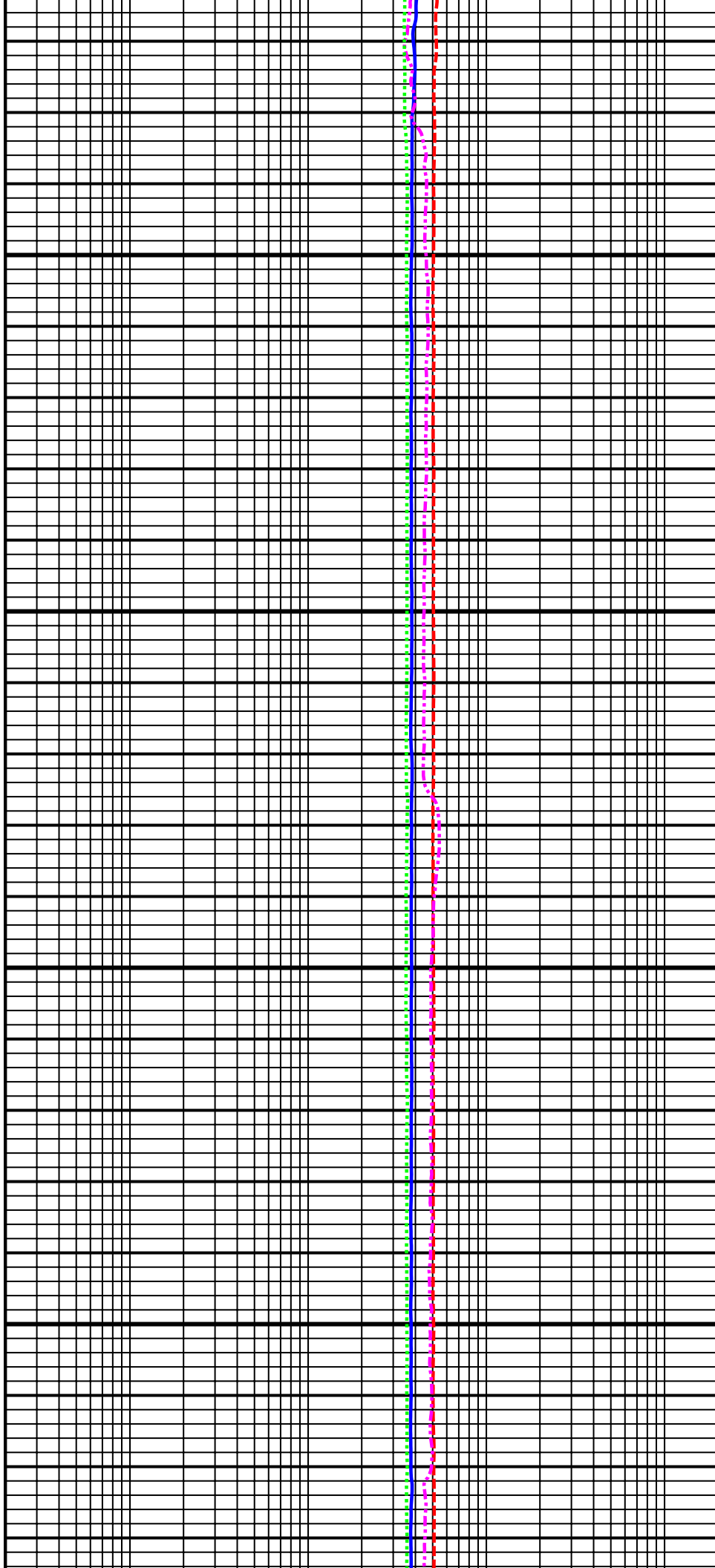
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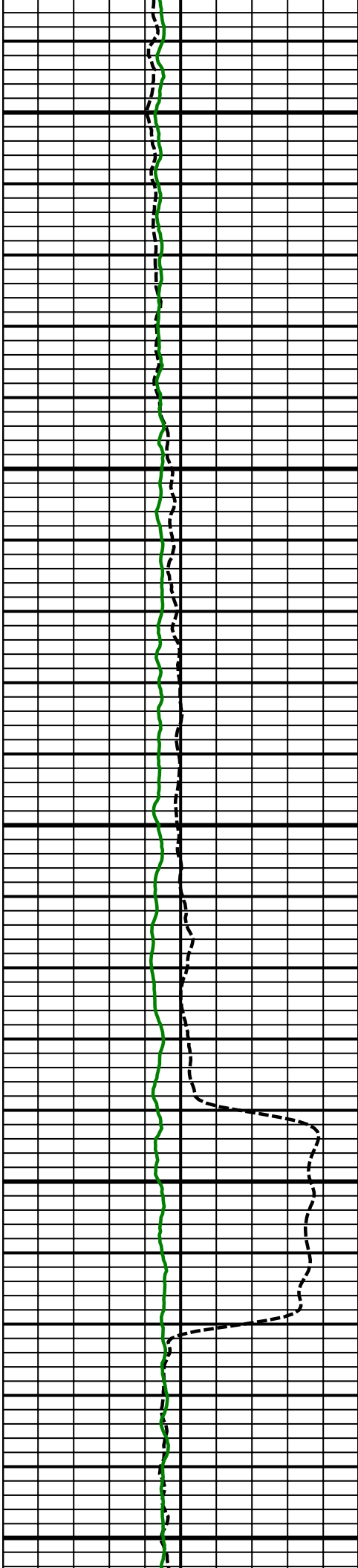




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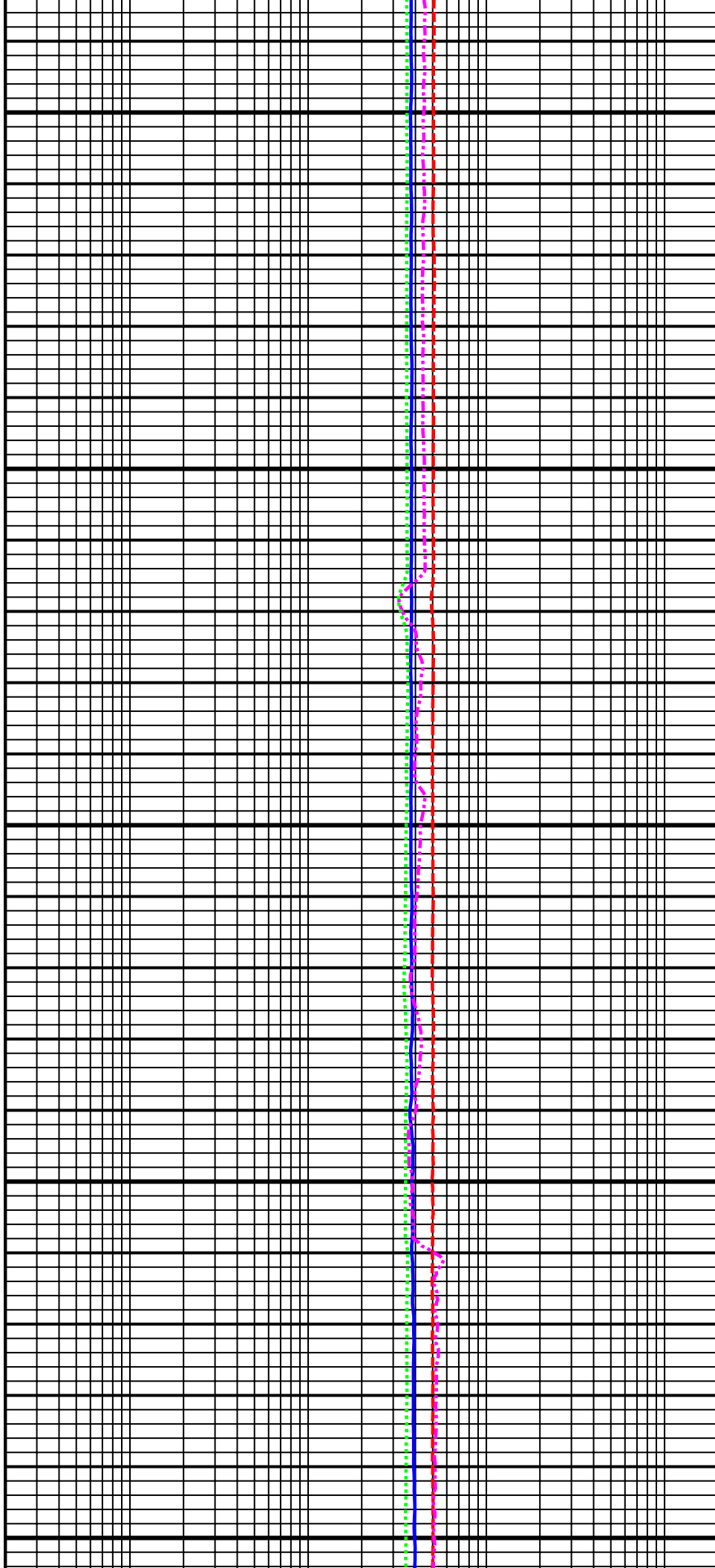
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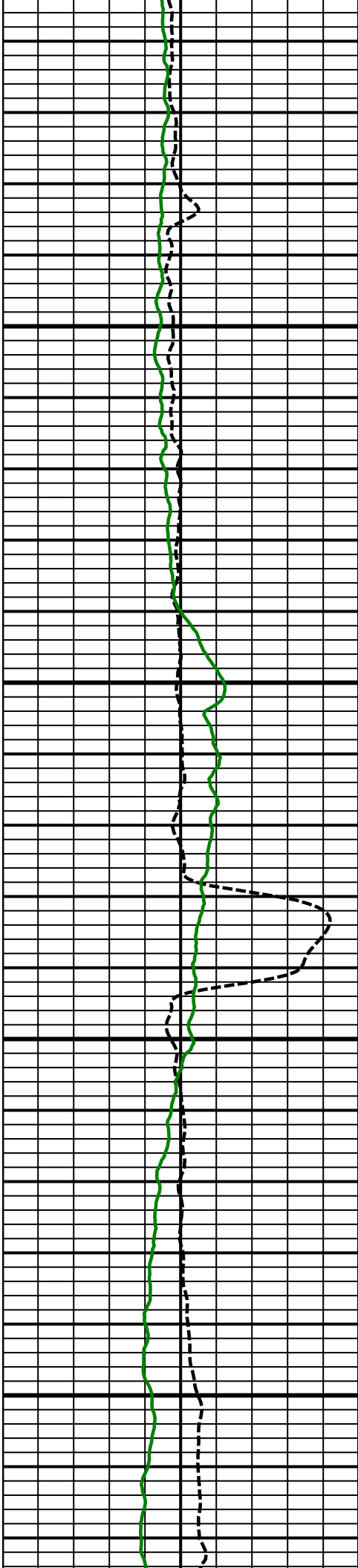




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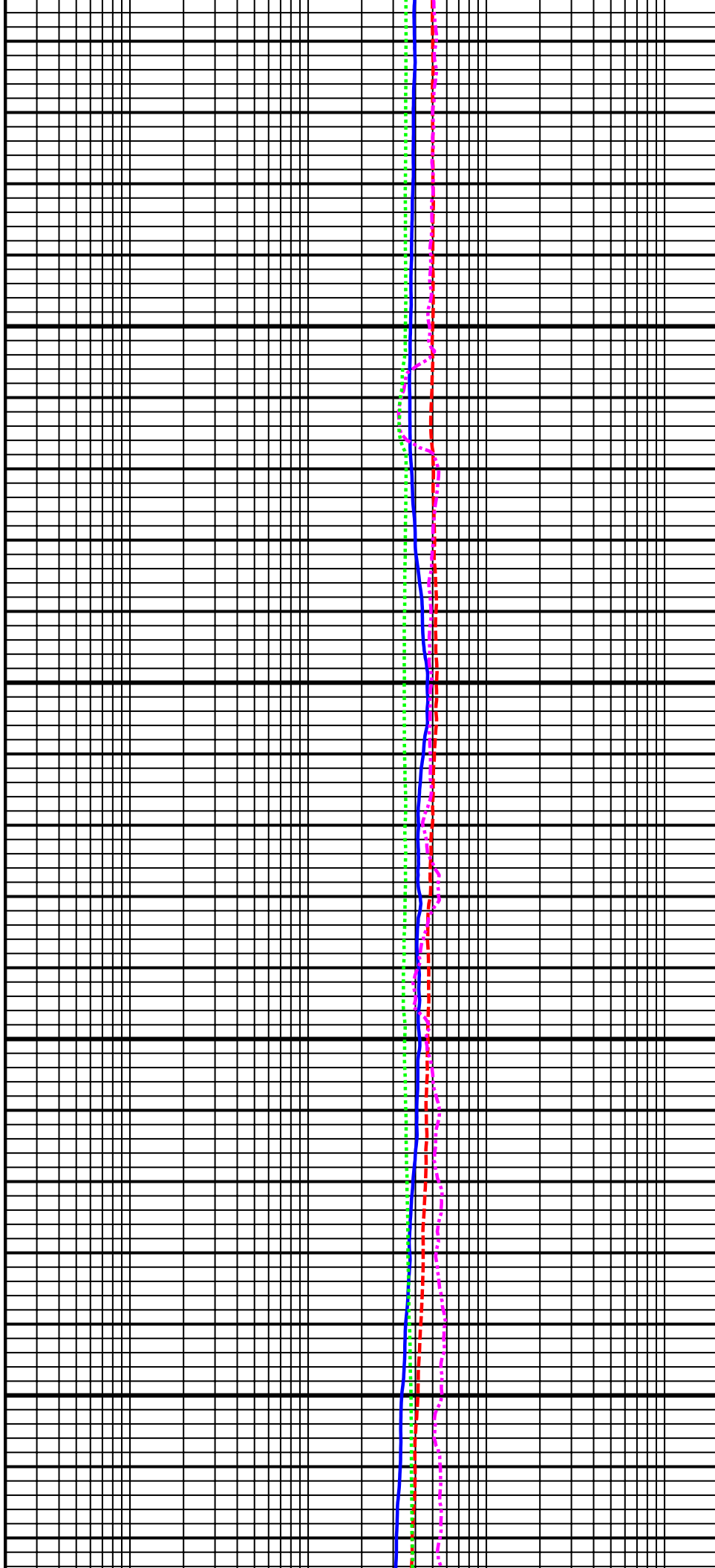
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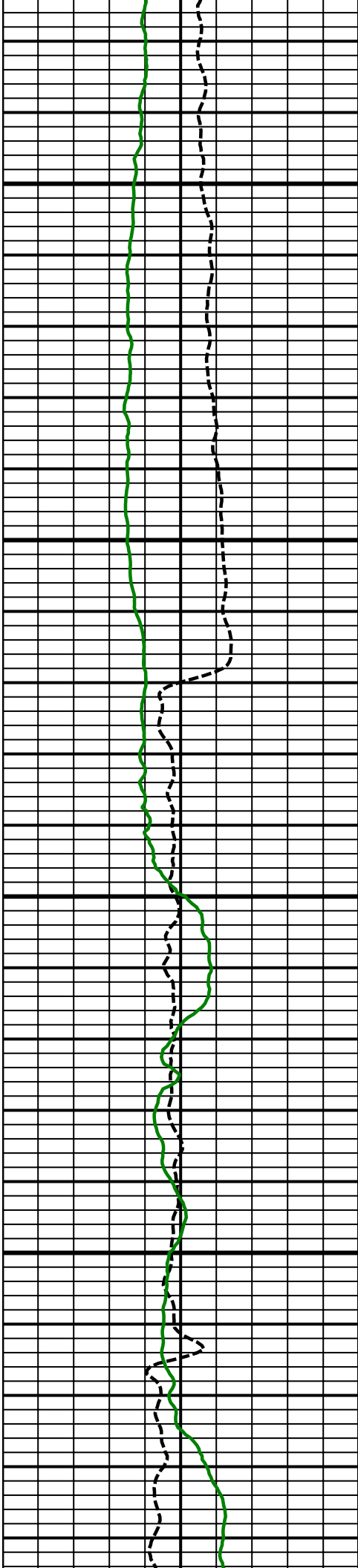


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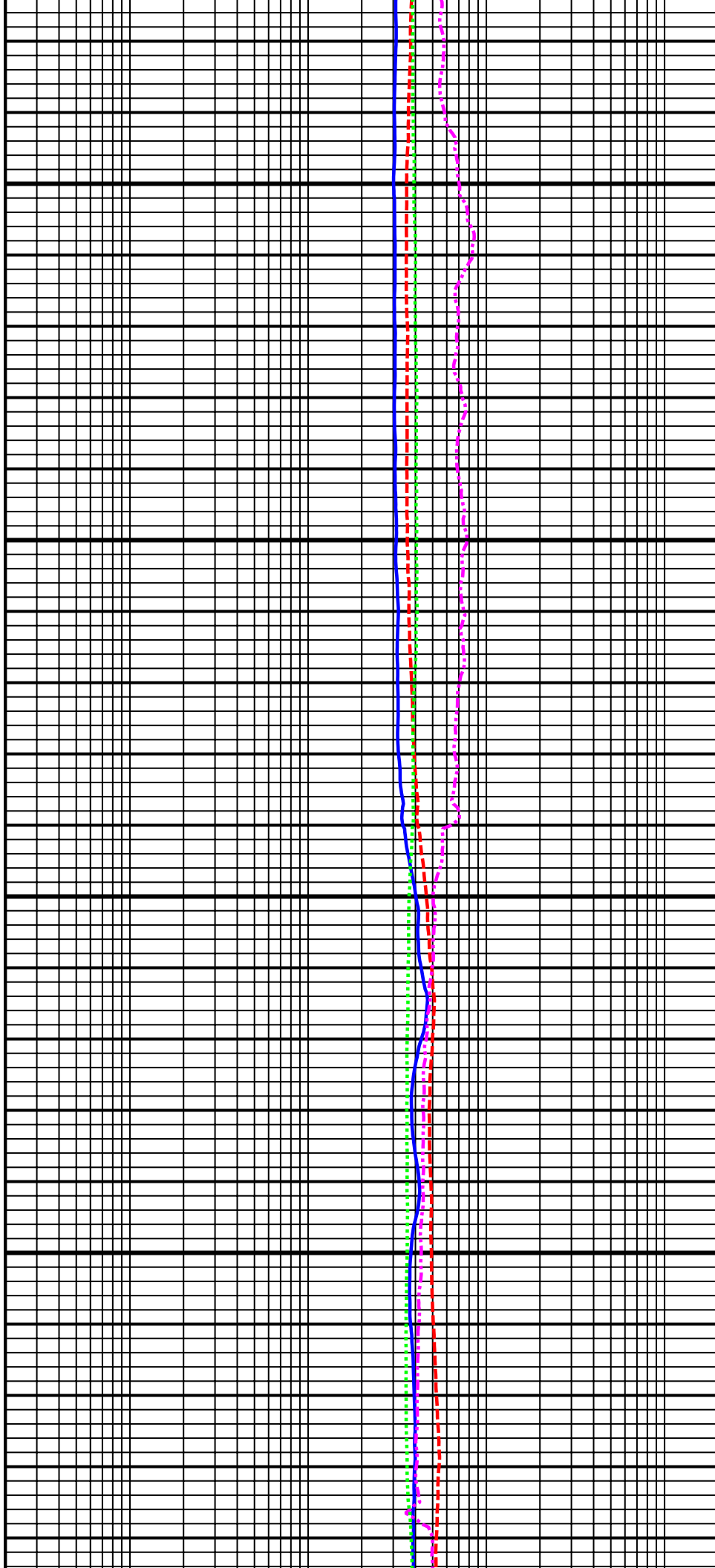


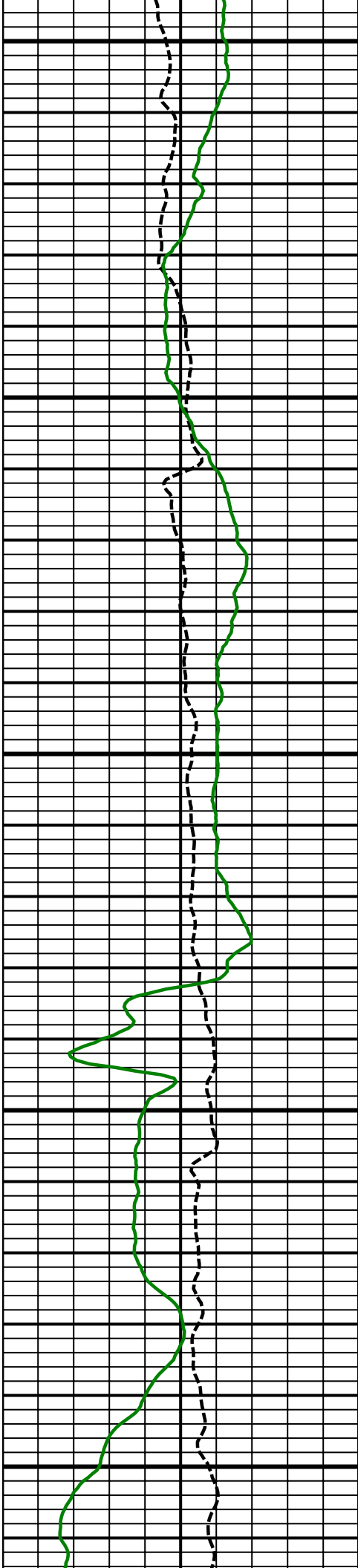




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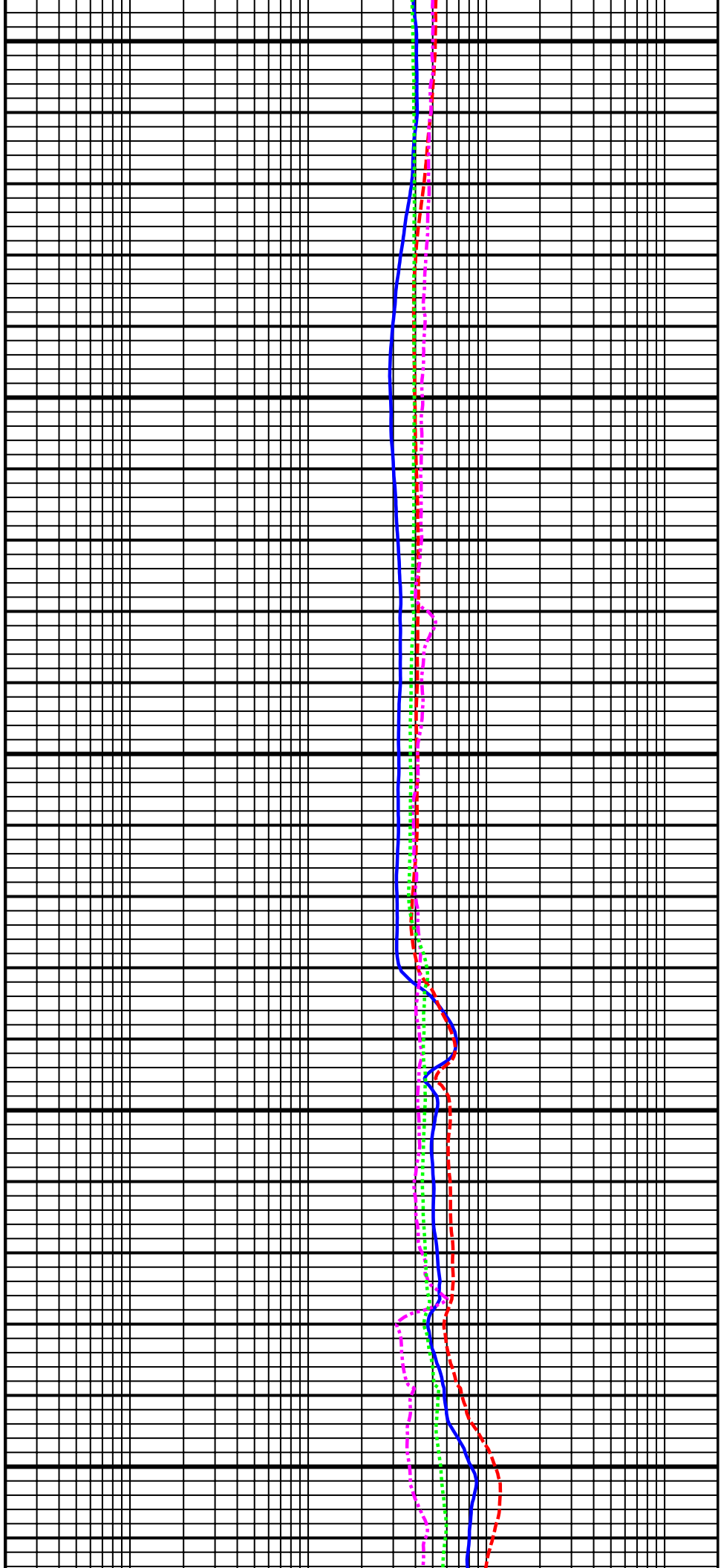


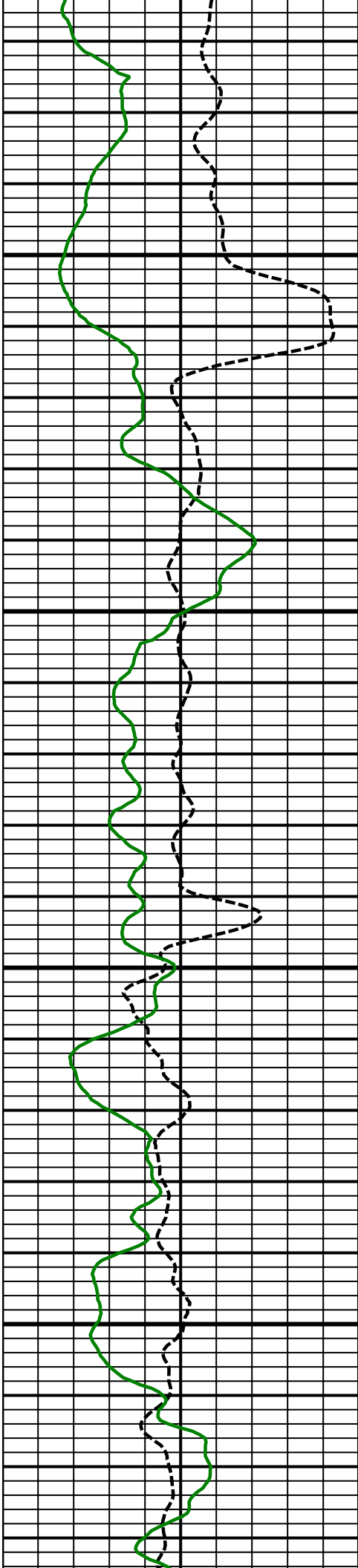


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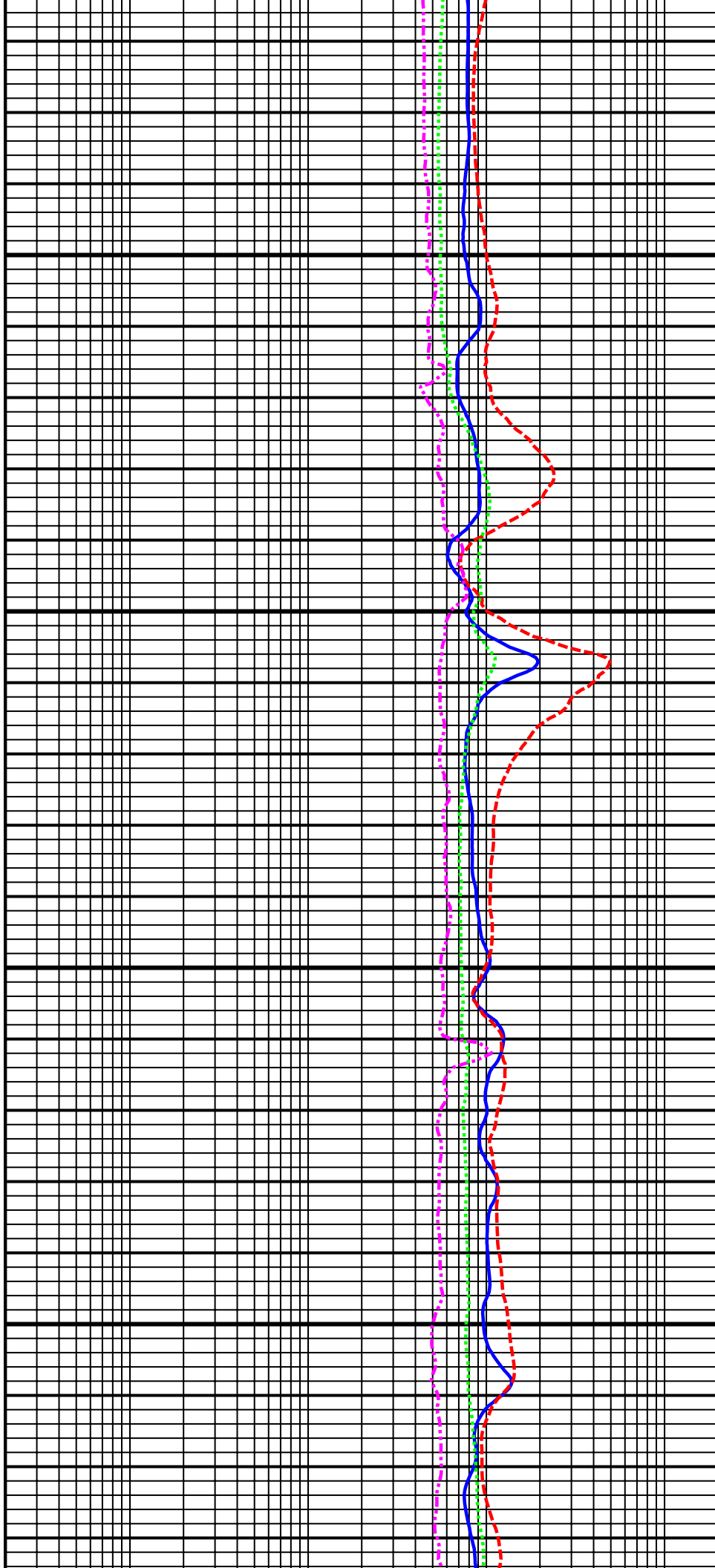
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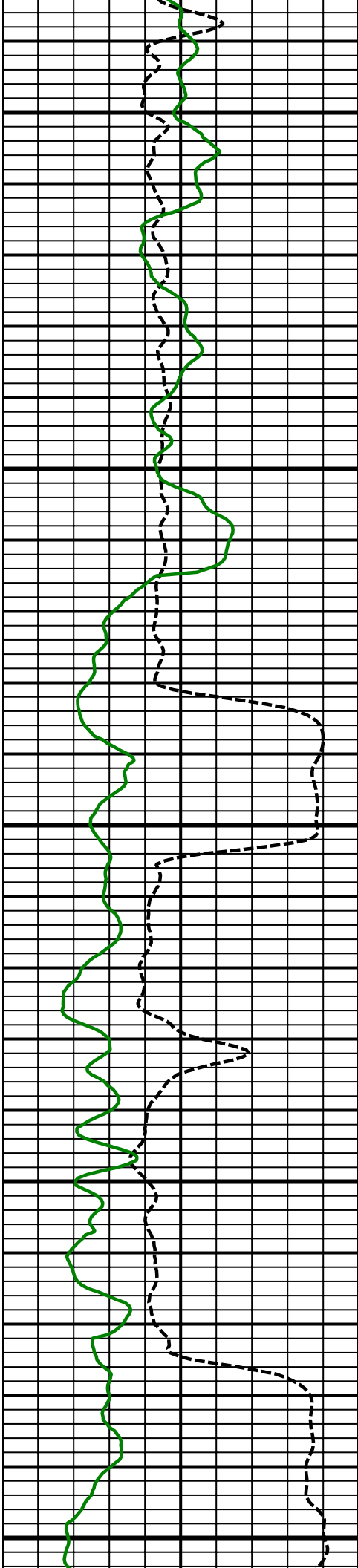




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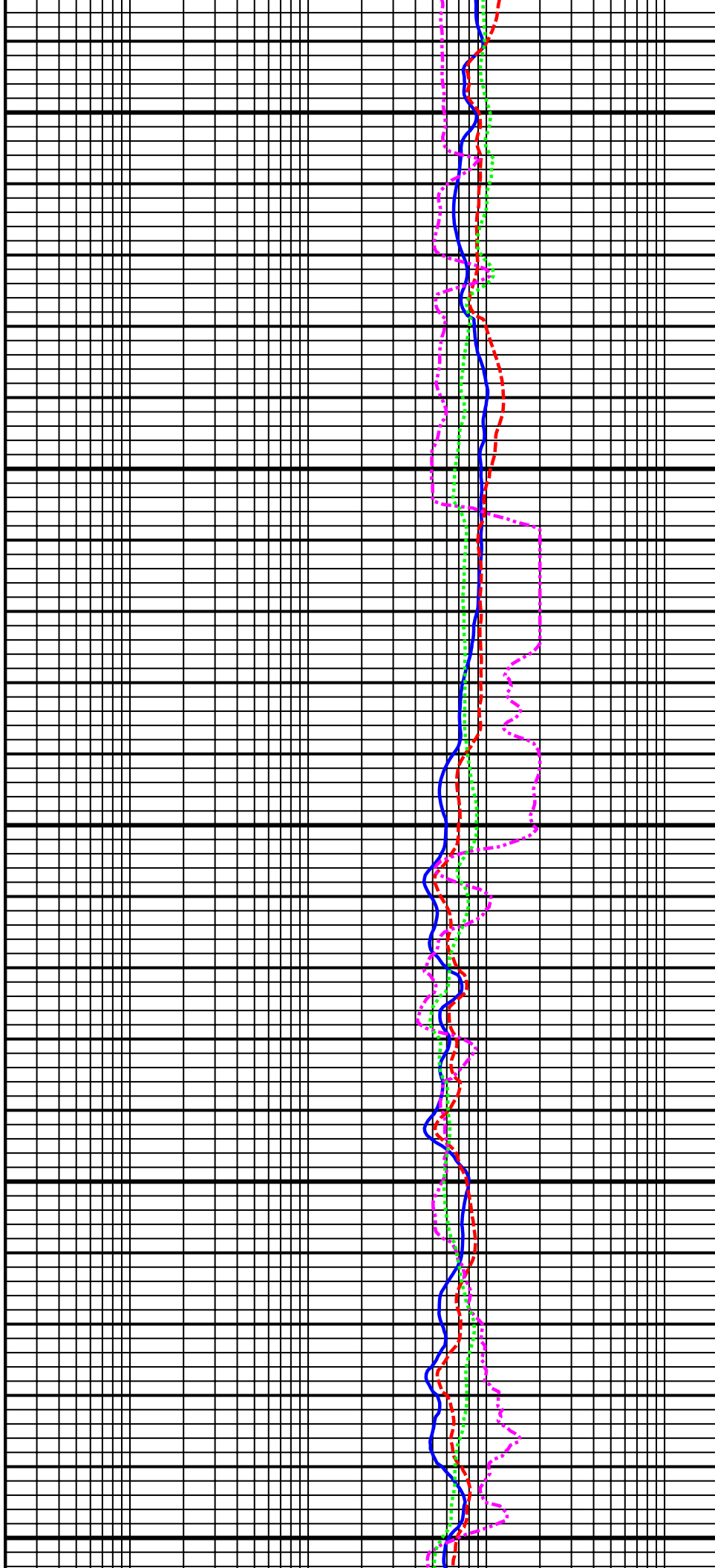
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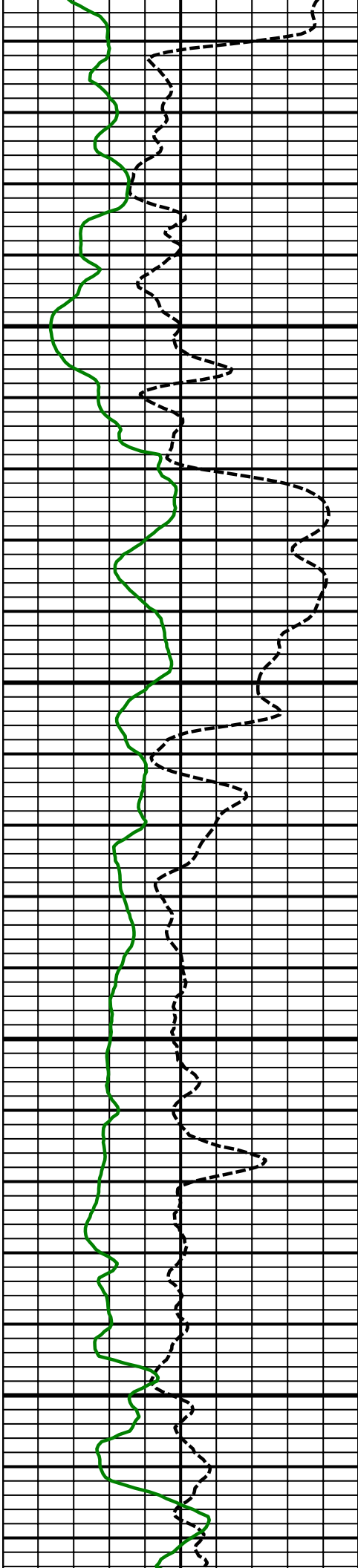




10500  
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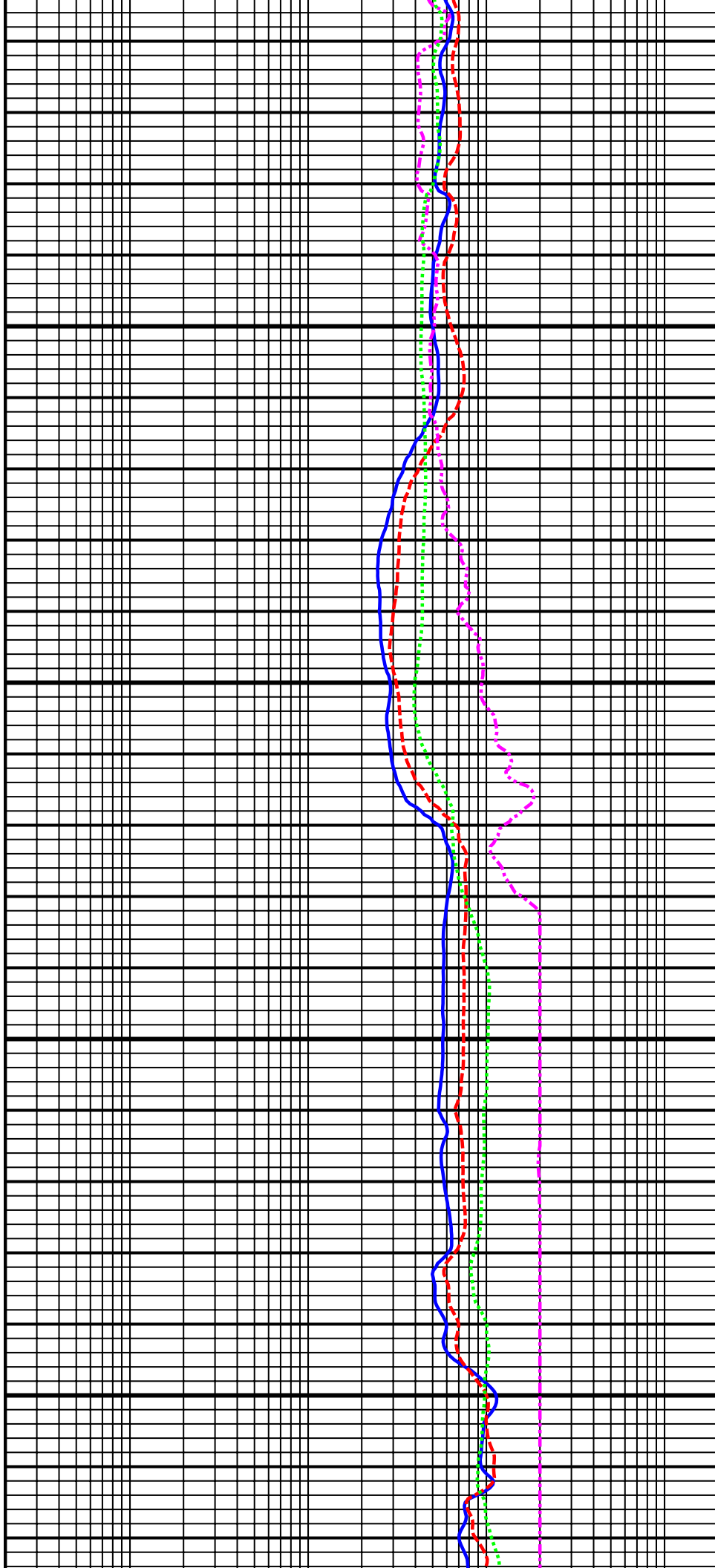
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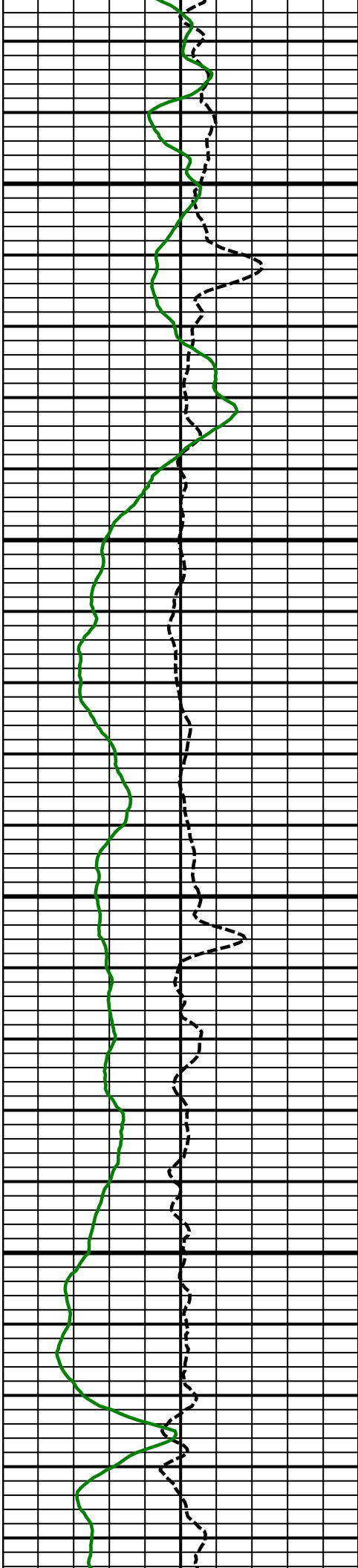




10700  
MD

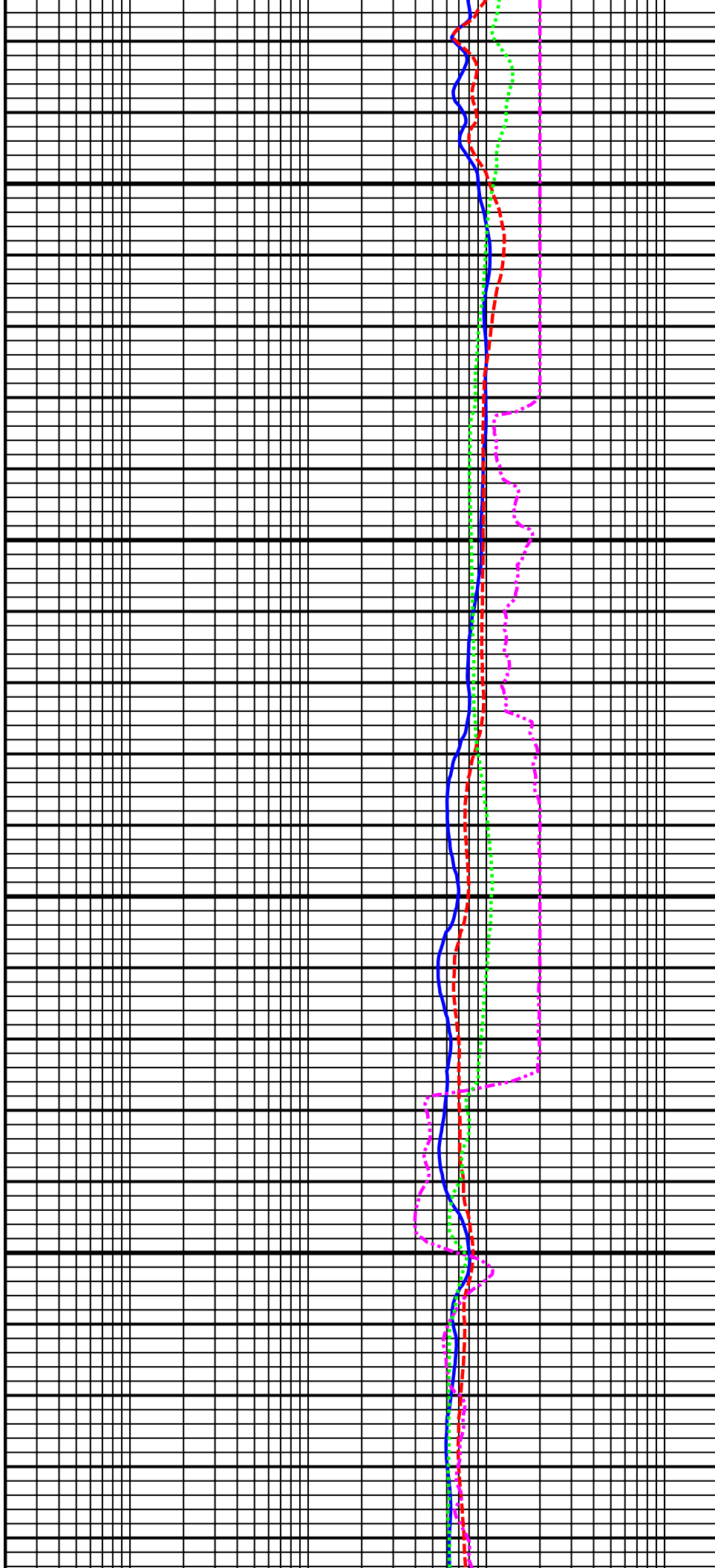
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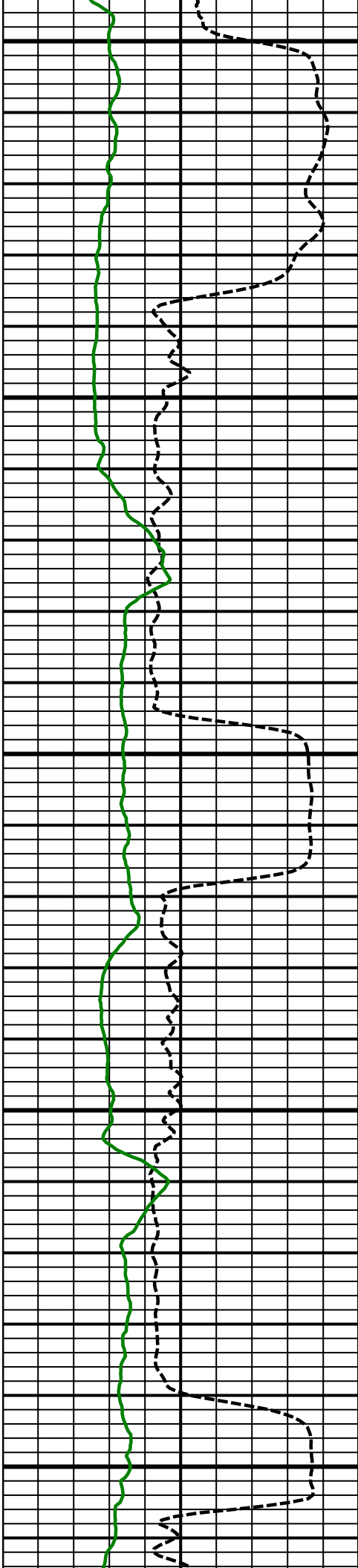




10900  
MD

11000  
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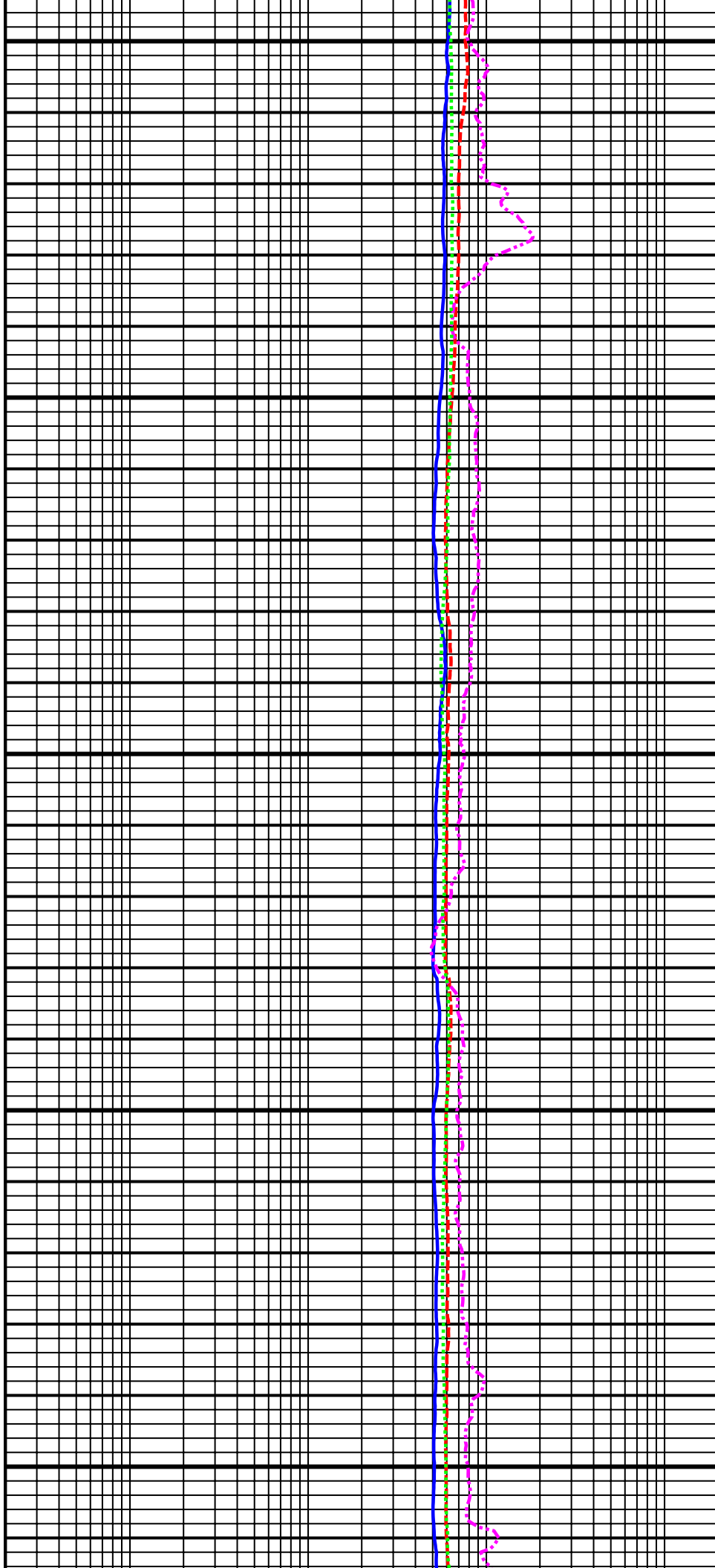


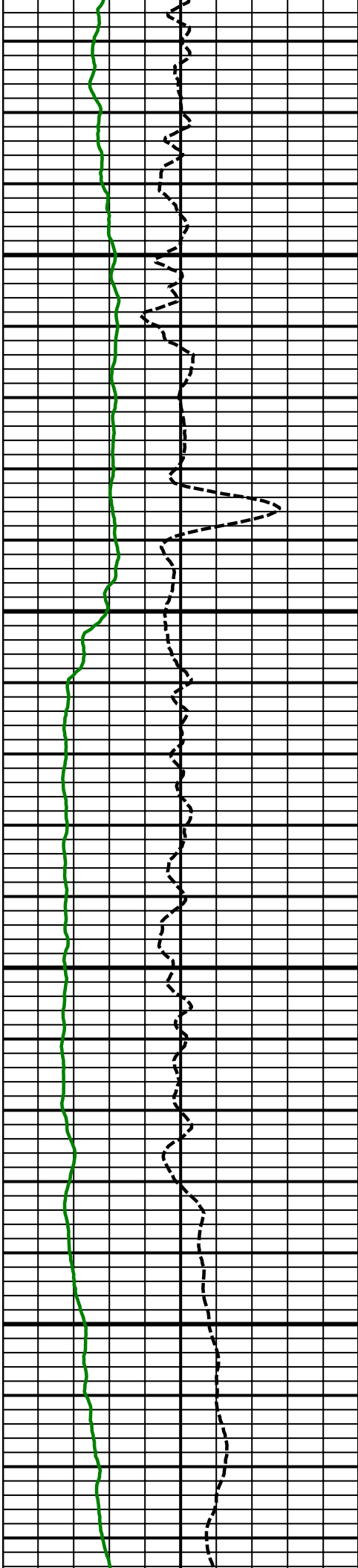


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MD

11200  
MD

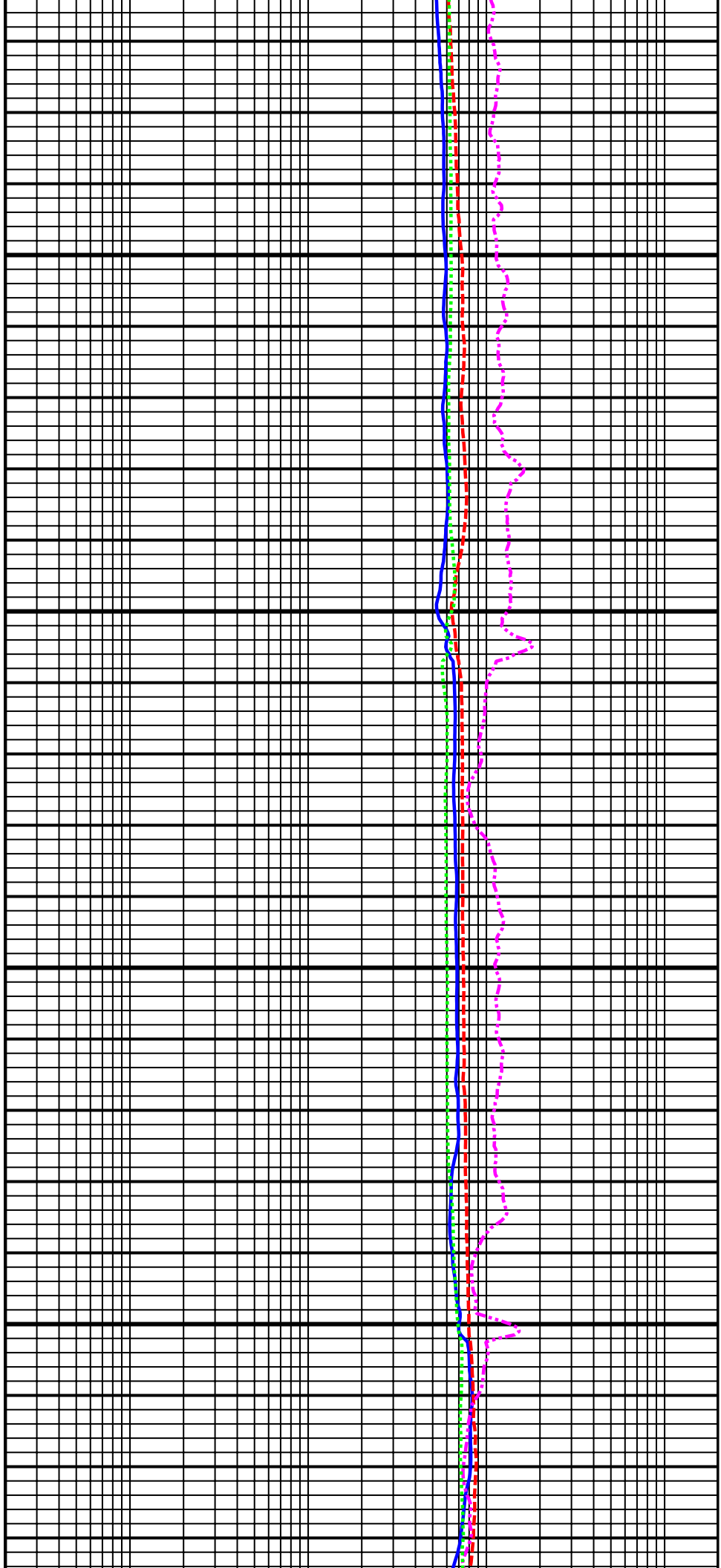
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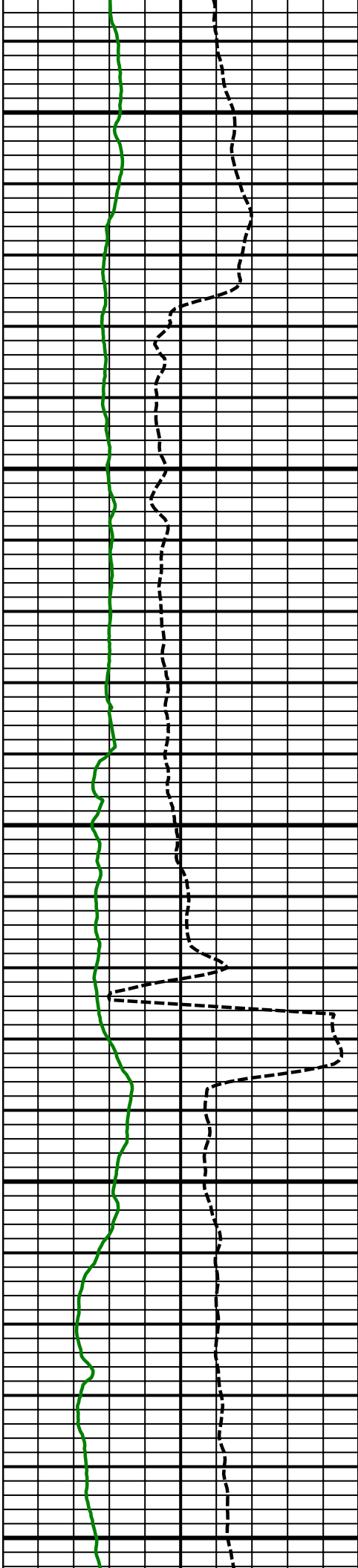


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MD

11500  
MD

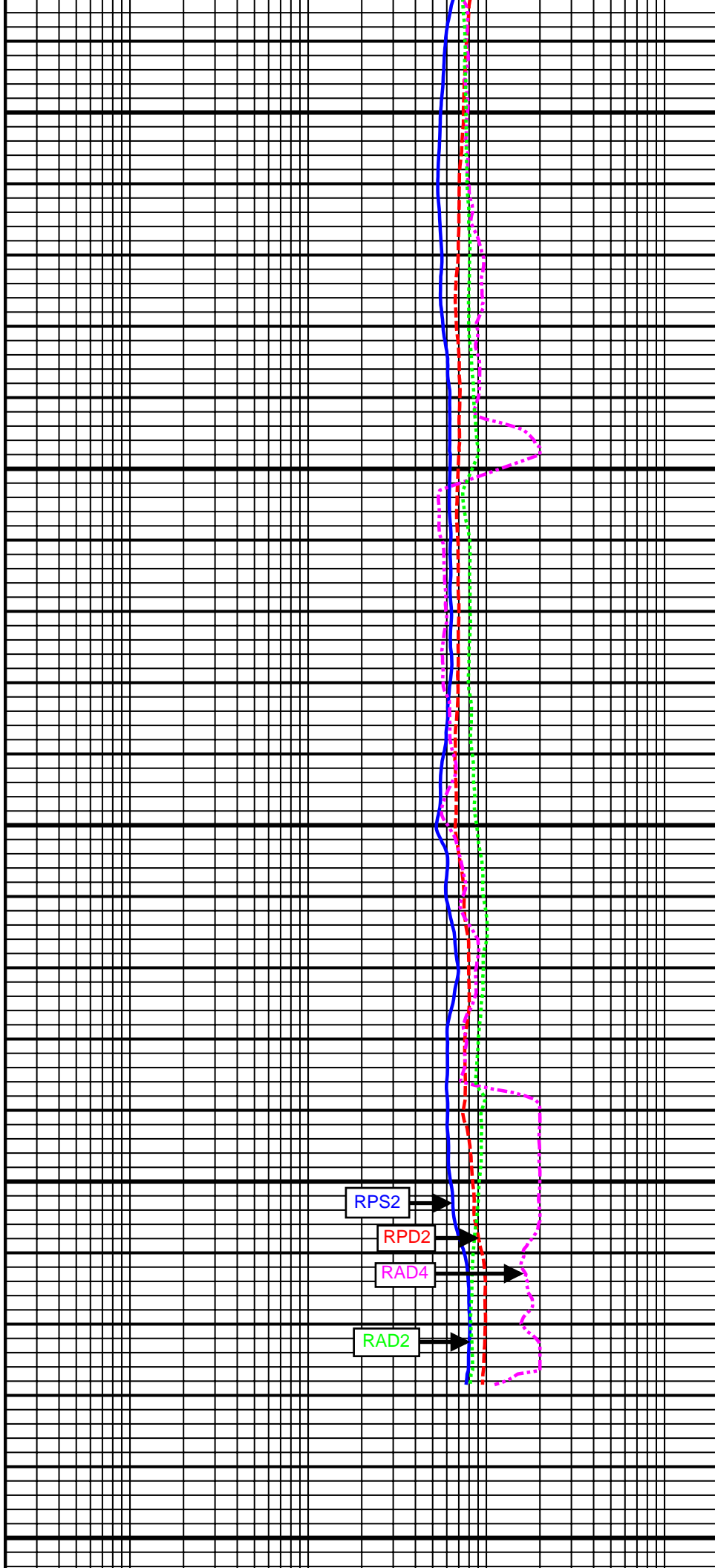






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MD

11700  
MD

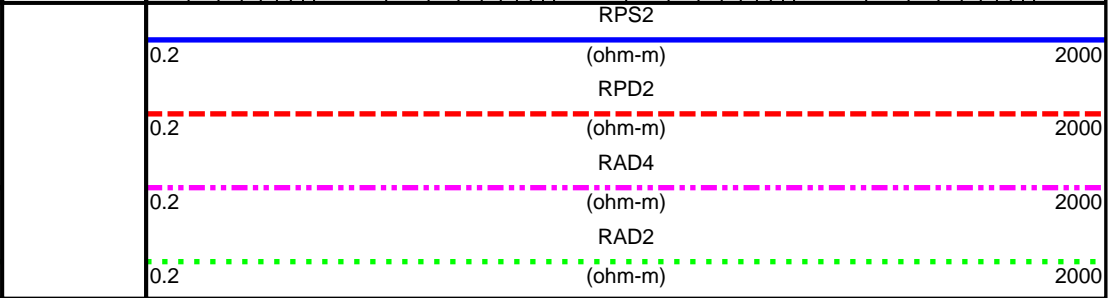
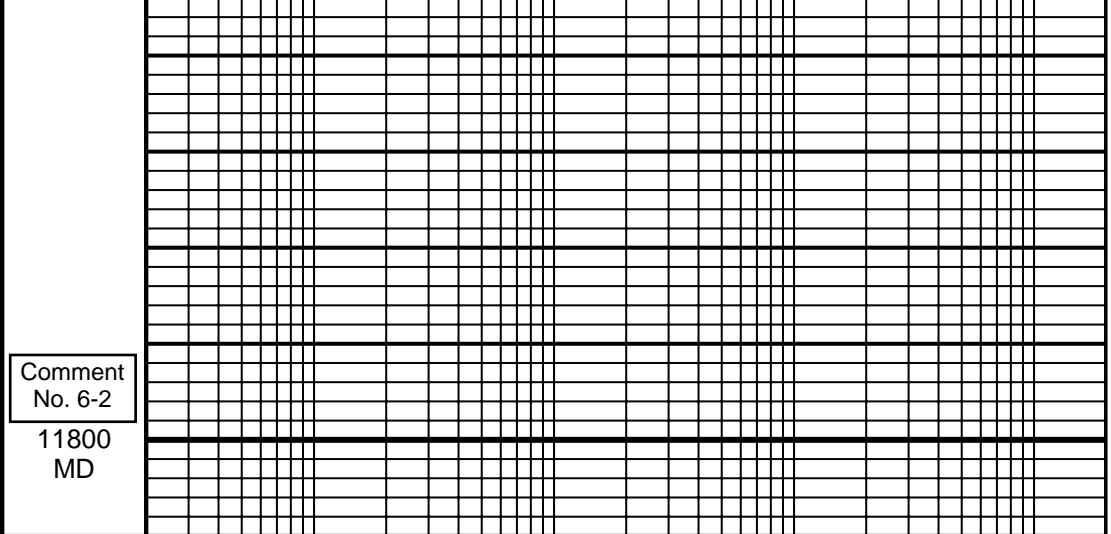
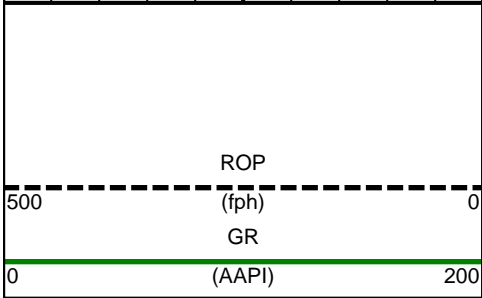
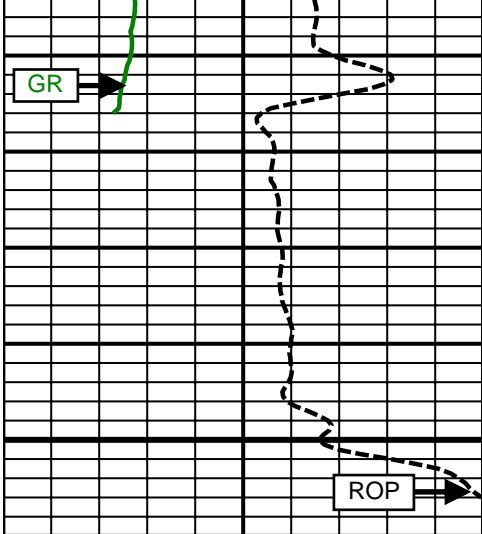


RPS2

RPD2

RAD4

RAD2



SURVEY						
Survey Calculation Method: Minimum Curvature						
Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
True North	182.35 deg	52831 nT	67.02 deg	8.65 deg	0.00 deg	8.65 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	760.00 ft	0.41 deg	34.05 deg	759.99 ft	3.07 ft	-0.10 ft

Well Head							
Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	NS (ft)	EW (ft)	VSect (ft)	Dogleg (deg/100ft)
856.00	0.38	19.86	855.99	3.65	0.20	-3.66	0.11
948.00	2.00	327.62	947.97	5.30	-0.56	-5.27	1.95
1039.00	3.97	332.70	1038.84	9.44	-2.85	-9.31	2.18
1132.00	5.93	328.58	1131.49	16.40	-6.83	-16.10	2.14
1224.00	7.51	320.36	1222.85	25.08	-13.15	-24.52	2.01
1314.00	8.11	320.99	1312.02	34.55	-20.89	-33.66	0.67
1405.00	7.67	321.68	1402.16	44.30	-28.70	-43.09	0.49
1501.00	8.07	323.93	1497.25	54.77	-36.64	-53.22	0.53
1596.00	7.18	325.62	1591.41	65.06	-43.92	-63.21	0.97
1691.00	6.83	325.26	1685.70	74.60	-50.49	-72.47	0.37
1786.00	5.51	323.60	1780.15	82.92	-56.42	-80.53	1.40
1881.00	5.18	320.91	1874.74	89.92	-61.83	-87.31	0.44
1976.00	4.67	321.59	1969.39	96.28	-66.93	-93.45	0.54
2071.00	4.55	313.80	2064.08	101.91	-72.06	-98.87	0.67
2167.00	5.48	320.57	2159.71	108.09	-77.72	-104.81	1.15
2261.00	5.14	318.31	2253.31	114.70	-83.37	-111.19	0.42
2357.00	4.66	324.12	2348.96	121.07	-88.51	-117.34	0.72
2452.00	5.51	317.76	2443.58	127.58	-93.84	-123.62	1.07
2547.00	4.41	320.26	2538.23	133.76	-99.24	-129.58	1.18
2642.00	6.06	324.39	2632.83	140.65	-104.50	-136.24	1.78
2737.00	7.29	322.59	2727.18	149.51	-111.08	-144.83	1.31
2832.00	7.75	321.59	2821.37	159.32	-118.72	-154.32	0.50
2928.00	7.59	311.75	2916.51	168.61	-127.47	-163.24	1.38
3024.00	6.20	308.91	3011.81	176.09	-136.24	-170.36	1.49
3118.00	5.42	312.37	3105.33	182.27	-143.47	-176.24	0.91
3213.00	5.15	312.48	3199.93	188.17	-149.93	-181.87	0.28
3308.00	4.62	316.74	3294.58	193.84	-155.69	-187.29	0.68
3403.00	5.51	319.84	3389.21	200.11	-161.26	-193.33	0.98
3498.00	4.17	322.38	3483.87	206.33	-166.31	-199.34	1.43
3593.00	3.71	326.09	3578.64	211.62	-170.13	-204.47	0.55
3688.00	2.97	331.33	3673.48	216.33	-173.02	-209.05	0.84
3783.00	2.94	333.37	3768.36	220.67	-175.30	-213.29	0.12
3877.00	1.40	0.32	3862.29	223.97	-176.37	-216.55	1.92
3972.00	0.43	285.92	3957.28	225.23	-176.71	-217.80	1.42
4067.00	0.22	245.99	4052.28	225.25	-177.22	-217.80	0.31
4162.00	0.38	113.61	4147.28	225.05	-177.09	-217.60	0.58
4256.00	0.72	30.19	4241.27	225.44	-176.51	-218.01	0.82
4351.00	1.34	40.84	4336.26	226.80	-175.49	-219.41	0.68
4446.00	0.35	9.71	4431.25	227.92	-174.71	-220.57	1.11
4541.00	0.60	16.98	4526.24	228.68	-174.52	-221.34	0.27
4636.00	0.82	39.26	4621.23	229.69	-173.94	-222.36	0.37
4731.00	0.88	48.48	4716.22	230.70	-172.96	-223.41	0.16

4826.00	1.19	44.01	4811.21	231.89	-171.73	-224.65	0.34
4920.00	0.10	297.26	4905.20	232.63	-171.13	-225.42	1.30
5015.00	0.25	6.26	5000.20	232.87	-171.18	-225.66	0.25
5110.00	0.25	351.05	5095.20	233.28	-171.19	-226.07	0.07
5205.00	0.38	348.53	5190.20	233.80	-171.28	-226.58	0.14
5300.00	0.44	347.36	5285.20	234.46	-171.43	-227.23	0.06
5395.00	0.25	7.65	5380.19	235.02	-171.48	-227.79	0.23
5490.00	0.21	334.46	5475.19	235.38	-171.53	-228.15	0.14
5585.00	0.16	284.02	5570.19	235.57	-171.73	-228.33	0.17
5679.00	0.07	305.67	5664.19	235.64	-171.90	-228.39	0.10
5773.00	0.07	304.63	5758.19	235.71	-172.00	-228.45	0.00
5868.00	0.30	328.31	5853.19	235.95	-172.18	-228.69	0.25
5964.00	0.38	309.13	5949.19	236.36	-172.55	-229.09	0.14
6059.00	0.64	306.47	6044.19	236.88	-173.23	-229.58	0.27
6154.00	0.56	284.15	6139.18	237.31	-174.10	-229.97	0.26
6274.00	0.45	290.72	6259.18	237.62	-175.11	-230.24	0.10
6348.00	0.41	310.15	6333.17	237.89	-175.59	-230.49	0.20
6443.00	0.50	299.89	6428.17	238.32	-176.20	-230.89	0.13
6474.00	1.89	273.35	6459.16	238.41	-176.83	-230.96	4.71
6506.00	5.35	270.33	6491.10	238.45	-178.85	-230.92	10.83
6538.00	8.97	272.43	6522.84	238.57	-182.84	-230.87	11.34
6569.00	10.64	272.58	6553.39	238.80	-188.11	-230.89	5.39
6601.00	8.70	272.28	6584.93	239.03	-193.48	-230.89	6.06
6633.00	5.64	268.79	6616.68	239.09	-197.47	-230.79	9.65
6664.00	4.28	262.83	6647.56	238.92	-200.14	-230.51	4.69
6696.00	3.16	253.36	6679.49	238.51	-202.17	-230.02	3.98
6728.00	1.70	222.60	6711.46	237.91	-203.34	-229.37	5.96
6759.00	1.48	161.82	6742.45	237.19	-203.53	-228.65	5.22
6791.00	3.70	159.90	6774.42	235.83	-203.04	-227.31	6.94
6823.00	7.57	162.40	6806.26	232.85	-202.05	-224.37	12.12
6854.00	11.00	167.54	6836.85	228.01	-200.79	-219.59	11.37
6886.00	13.96	171.62	6868.09	221.21	-199.57	-212.84	9.65
6917.00	16.92	172.86	6897.97	213.04	-198.47	-204.72	9.61
6949.00	19.56	173.23	6928.36	203.09	-197.26	-194.84	8.26
6981.00	22.54	174.08	6958.22	191.67	-195.99	-183.47	9.36
7012.00	24.85	176.59	6986.60	179.26	-194.99	-171.11	8.13
7044.00	27.73	177.81	7015.29	165.10	-194.31	-157.00	9.16
7076.00	31.21	178.98	7043.15	149.37	-193.87	-141.29	11.02
7107.00	34.01	179.46	7069.26	132.67	-193.65	-124.61	9.07
7139.00	37.48	178.14	7095.23	113.98	-193.25	-105.96	11.11
7171.00	41.60	178.62	7119.90	93.62	-192.68	-85.64	12.91
7202.00	47.27	179.56	7142.03	71.93	-192.34	-63.98	18.41
7234.00	53.09	181.21	7162.51	47.37	-192.52	-39.43	18.61
7265.00	59.99	182.39	7179.59	21.53	-193.34	-13.59	22.48
7297.00	65.18	183.02	7194.32	-6.83	-194.69	14.81	16.31
7329.00	68.08	182.39	7207.01	-36.17	-196.07	44.18	9.24
7360.00	71.12	181.22	7217.82	-65.21	-196.98	73.23	10.42
7392.00	73.84	180.71	7227.45	-95.72	-197.50	103.73	8.63
7424.00	76.53	180.06	7235.63	-126.65	-197.70	134.65	8.63
7455.00	79.02	179.59	7242.20	-156.94	-197.61	164.91	8.17
7487.00	81.79	180.23	7247.53	-188.49	-197.56	196.43	8.88
7518.00	83.41	180.99	7251.52	-219.23	-197.89	227.16	5.76
7541.00	84.12	182.16	7254.02	-242.09	-198.52	250.02	5.92
7634.00	83.01	186.34	7264.45	-334.22	-205.36	342.36	4.62
7729.00	83.88	185.21	7275.29	-428.12	-214.86	436.57	1.50
7824.00	85.56	183.30	7284.03	-522.45	-221.87	531.11	2.67
7919.00	87.78	181.19	7289.55	-617.21	-225.59	625.94	3.22
8013.00	90.18	180.72	7291.23	-711.17	-227.15	719.89	2.60
8108.00	91.42	181.66	7289.90	-806.14	-229.12	814.85	1.64
8203.00	91.73	180.32	7287.29	-901.09	-230.77	909.79	1.45
8298.00	90.49	178.90	7285.45	-996.06	-230.12	1004.66	1.98

8392.00	89.69	178.60	7285.30	-1090.04	-228.07	1098.47	0.91
8487.00	90.25	179.18	7285.35	-1185.02	-226.23	1193.30	0.85
8582.00	90.49	177.59	7284.74	-1279.98	-223.55	1288.07	1.69
8676.00	90.93	177.49	7283.57	-1373.88	-219.52	1381.73	0.48
8771.00	89.88	177.44	7282.90	-1468.79	-215.31	1476.38	1.11
8867.00	89.88	177.51	7283.10	-1564.69	-211.09	1572.03	0.07
8961.00	89.69	176.83	7283.45	-1658.58	-206.44	1665.65	0.75
9057.00	89.88	176.64	7283.81	-1754.42	-200.98	1761.19	0.28
9151.00	90.62	178.72	7283.40	-1848.34	-197.17	1854.87	2.35
9246.00	90.49	178.64	7282.48	-1943.31	-194.98	1949.67	0.16
9340.00	90.62	178.16	7281.57	-2037.26	-192.36	2043.44	0.53
9435.00	90.80	177.48	7280.40	-2132.19	-188.75	2138.13	0.74
9530.00	90.49	180.04	7279.33	-2227.15	-186.69	2232.93	2.71
9625.00	91.54	180.69	7277.64	-2322.13	-187.29	2327.86	1.30
9719.00	90.25	181.08	7276.18	-2416.11	-188.75	2421.82	1.43
9814.00	90.62	180.99	7275.45	-2511.09	-190.46	2516.79	0.40
9910.00	90.12	180.35	7274.83	-2607.08	-191.59	2612.74	0.85
10004.00	90.06	179.80	7274.69	-2701.08	-191.71	2706.67	0.59
10099.00	90.49	179.71	7274.23	-2796.08	-191.30	2801.57	0.46
10193.00	91.17	179.24	7272.87	-2890.06	-190.44	2895.44	0.88
10288.00	89.88	178.92	7272.00	-2985.04	-188.92	2990.28	1.40
10383.00	88.77	178.13	7273.12	-3080.00	-186.47	3085.06	1.43
10478.00	87.90	178.11	7275.88	-3174.91	-183.36	3179.76	0.92
10572.00	88.40	177.78	7278.91	-3268.80	-179.99	3273.43	0.64
10667.00	89.63	178.66	7280.55	-3363.74	-177.04	3368.17	1.59
10762.00	90.99	180.11	7280.03	-3458.73	-176.02	3463.04	2.09
10856.00	91.36	180.52	7278.10	-3552.71	-176.53	3556.96	0.59
10951.00	90.31	180.16	7276.72	-3647.69	-177.10	3651.89	1.17
11047.00	89.57	179.17	7276.82	-3743.69	-176.54	3747.78	1.29
11142.00	90.71	179.66	7276.59	-3838.68	-175.57	3842.65	1.31
11236.00	91.41	180.36	7274.85	-3932.67	-175.58	3936.56	1.05
11331.00	91.42	180.84	7272.50	-4027.63	-176.58	4031.48	0.51
11426.00	91.42	180.17	7270.15	-4122.60	-177.41	4126.41	0.71
11521.00	91.23	179.75	7267.95	-4217.57	-177.35	4221.30	0.49
11616.00	90.18	179.27	7266.78	-4312.56	-176.53	4316.17	1.22
11711.00	90.80	179.73	7265.97	-4407.55	-175.71	4411.05	0.81
11749.00	90.68	180.01	7265.48	-4445.55	-175.62	4449.01	0.80

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\*Weatherford M/LWD Surveys from 856 ft MD to 11749 ft MD.\*

\*TD at 11803 ft MD.\*

The total correction is 8.65 deg relative to True North.

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# Weatherford®

Final Print

COMPANY	<u>Anadarko</u>		
WELL	<u>Sarchet 36N-32HZX</u>		
FIELD	<u>Wattenberg</u>		
RIG	<u>H &amp; P 307</u>		
LOC.	<u>Colorado</u>	COUNTY	<u>Weld</u>