



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 Petroleum Corp.
Well: Camp 10N-30HZ
Field: Wattenberg
Rig: H&P 307
County: Weld

Location

Latitude: 40.17592° N X = 3,223,083.46 ft Mag Decl: 8.67°
Longitude: 104.70164° W Y = 1,307,933.68 ft Mag Dip: 66.83°

Other Services: Directional and Temperature

COMPANY Anadarko Petroleum Corp.
WELL Camp 10N-30HZ
FIELD Wattenberg
RIG H&P 307
COUNTY Weld STATE Colorado
API # 05-123-35255

Permanent Datum: Mean Sea Level

Log Measured From: Drill Floor Elev: 4974 ft above perm. datum

Depth Reference: Drillers Tally Total Depth: 13812 ft

Depth Logged: 6450 ft to 13812 ft Runs: 3

Date Logged: 6-Jun-12 to 13-Jun-12 Spud Date: 1-Jun-12

Elevation	
K.B.	na
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	860ft	9.625 in.	53.5 lb/ft	Surface	857 ft
8.750 in.	860	7599 ft	7.000 in.	39.0 lb/ft	Surface	7561 ft
6.125 in.	7599 ft	13812 ft				

Borehole Deviation Record

Mud Record

Hole Size	Min. Inc.	Max. Inc.	Type	Weight	From	To
8.750 in.	0.07	83.91	WBM	8.60 - 9.70 ppg	860 ft	13812 ft
6.125 in.	84.44	92.65				

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			
Bit Size	in.	8.750	8.750	6.125			
Bit Type		PDC	PDC	PDC			
Bit TFA	sq.in.	1.010	1.011	0.591			
Bit Start Depth	ft	857	6618	7599			
Bit End Depth	ft	6618	7599	13812			
Top Log Interval	ft	6450	6574	7560			
Bottom Log Interval	ft	6575	7556	13812			
Begin Log Time	hrs	2:15	4:52	3:40			
Begin Log Date	DD-MMM-YY	6-Jun-12	7-Jun-12	11-Jun-12			
End Log Time	hrs	17:27	16:00	6:51			
End Log Date	DD-MMM-YY	6-Jun-12	8-Jun-12	13-Jun-12			
Drill or Wipe		Drill	Drill	Drill			
Flow Rate	gal/min	596	596	294			
Max AV / CV @ MWD	ft/min	471 / 200	471 / 328	466 / 331			
Min Inc @ Depth	deg @ ft	0.07 @ 2351	10.0 @ 6590	84.44 @ 8751			
Max Inc @ Depth	deg @ ft	8.57 @ 6557	83.91 @ 7539	92.65 @ 9700			
MUD DATA							
Depth	ft	925	6948	13812			
Fluid Type		WBM	WBM	WBM			
Mud Weight	ppg	8.80	9.50	9.70			
Plastic Viscosity	cP	5	11	12			
Solids / Sand	%	2.7 / 0.01	5.3 / 0.06	6.6 / 0.05			
NaCl Equiv. Chlorides	ppm	1100	1000	1815			
pH		8.4	9	WBM			
Oil:Water Ratio	% Vol	0.0 : 100.0	1.6 : 98.4	2.1 : 97.9			
Rm @ Temperature	ohm-m @ deg F	na	na	1.10 @ 75			
Rmc @ Temperature	ohm-m @ deg F	na	na	1.00 @ 75			
Rmf @ Temperature	ohm-m @ deg F	na	na	1.25 @ 75			
KCl	% Vol	0	0	0			
Client Representative		P. Cain	D. Barrone	D. Barrone			
WeatherfordLWD Engineer		J. Leger	J. Leger	J. Hunter			

EQUIPMENT SUMMARY

MWD / LWD Run Number		1	2	3		
PP Serial Number		CP20305PDIRHY-T01	CP20305PDIRHY-T01	NA		
HEL Serial Number				NW20802PDBB4.75		
MFR Serial Number				NW20799RBBK4.75M1		
IDS Serial Number				NW20800BI4.75		
SAGR Serial Number				NW20801JB4.75M1		
Sensor to Bit Offsets / Acquisition Rates						
Directional	ft / sec	59.29 / RT	57.44 / RT	53.20 / RT		
Gamma Ray	ft / sec	45.08 / 16	43.23 / 16	38.51 / 10		
Resistivity	ft / sec	NA	NA	74.37 / 5		
Other Information						
Total BHA Length	ft	92.22	94.20	143.08		
Stabilizer Location	ft	NA	NA	31.26		
Stabilizer Location	ft	NA	NA	105.68		
BHA Assembly Type		Steerable	Steerable	Steerable		
Run Circulating Time	hr	58.92	38.72	48.73		
Run Drilling Time	hr	37.11	18.20	27.31		

MUD SUMMARY

Date and Time	Run	Bit Depth	Mud Weight	% K	Rm @ Temp	Rmf @ Temp	Rmc @ Temp	BHCT
04 Jun 12 @ 00:28	01	6618 ft	8.80 ppg	0	na	na	na	141 F
07 Jun 12 @ 04:50	02	7599 ft	9.50 ppg	0	na	na	na	168 F
13 Jun 12 @ 05:00	03	13812 ft	9.70 ppg	0	1.10 @ 75 F	1.25 @ 75	1.00 @ 75	254 F

MWD/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.: 2.875 in.

K1 Factor: 4.5590

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.: 2.875 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: 9.70 ppg

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

Borehole Temperature: 254 F

Mud Type: WBM

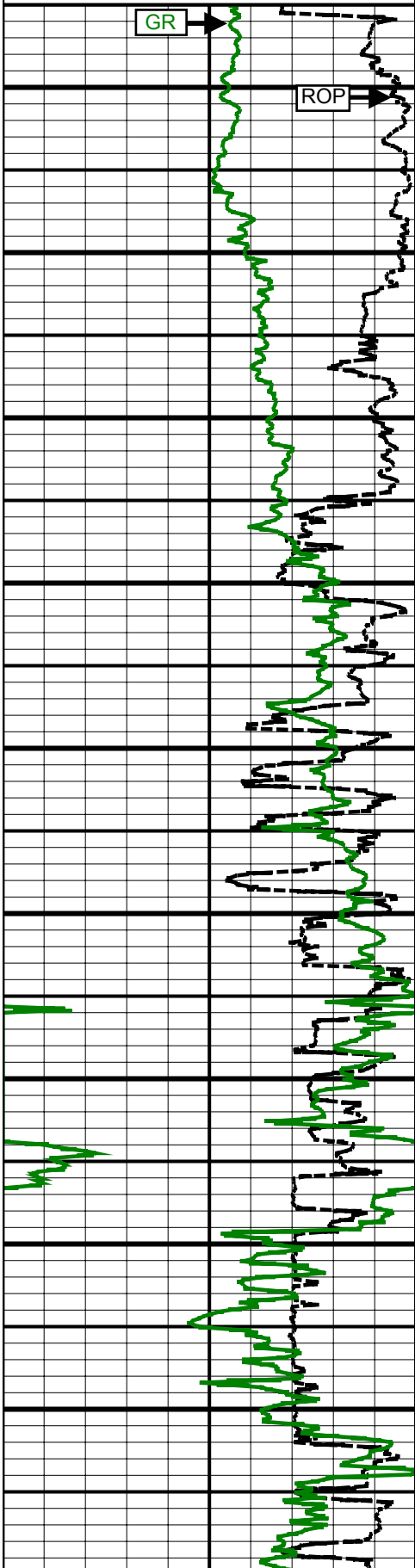
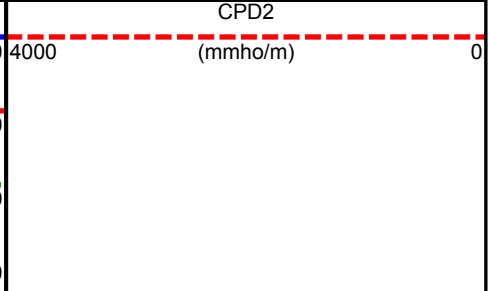
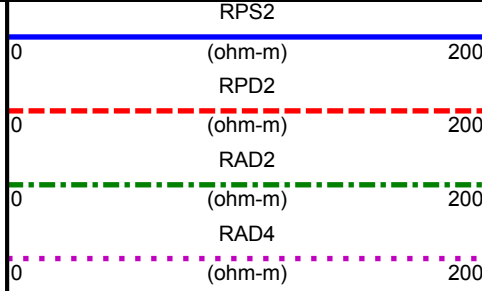
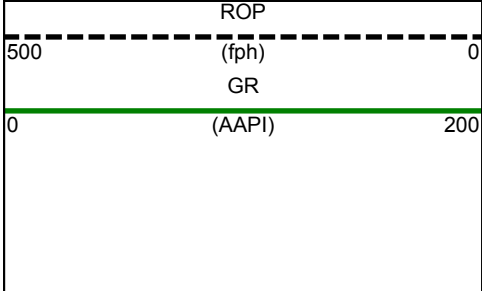
Drilling Fluid Resistivity: 1.10 ohm-m

KCl Concentration: 0%

MWD/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 02 started formation drilling June 6, 2012 at 02:15 at 6450 MD / 6434 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. 1-2	<p>End of MWD Drilling Run 01</p> <p>Run 01 ended drilling formation June 6, 2012 at 17:24 at 6618 MD / 6601 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 June 7, 2012 at 4:52 at 6618 MD / 6601 TVD. Weatherford International logged the 8.750 in. borehole.</p> <p>The WBM at the start of drilling was 9.50 ppg.</p>
Comment No. 2-2	<p>End of MWD Drilling Run 02</p> <p>Run 02 ended drilling formation June 8, 2012 at 16:00 at 7599 MD / 7199 TVD.</p> <p>The WBM at the end of drilling was 9.50 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, Resistivity, Spectral Gamma Ray and Temperature for Run 03.</p> <p>Run 03 started formation drilling June 11, 2012 at 3:40 at 7599 MD / 7199 TVD. Weatherford International logged the 6.125 in. borehole.</p> <p>The WBM at the start of drilling was 9.60 ppg.</p>
Comment No. 3-2	<p>End of LWD Drilling Run 03</p> <p>Run 03 ended drilling formation June 13, 2012 at 6:51 at 13812 MD / 7222 TVD.</p> <p>The WBM at the end of drilling was 9.70 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	AAPI	Gamma Ray 3.0 ft window 0.5 ft Exponential Smoothing	See M/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	RAD2	ohm-m	2MHz Deep Attenuation 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 Phase Conductivity	CPD2	mmho/m	2MHz Deep Phase Conductivity 3.0 ft window 0.5 ft Exponential Smoothing	

1 Inch - Measured Depth



6500 MD

6600 MD

6700 MD

6800 MD

6900 MD

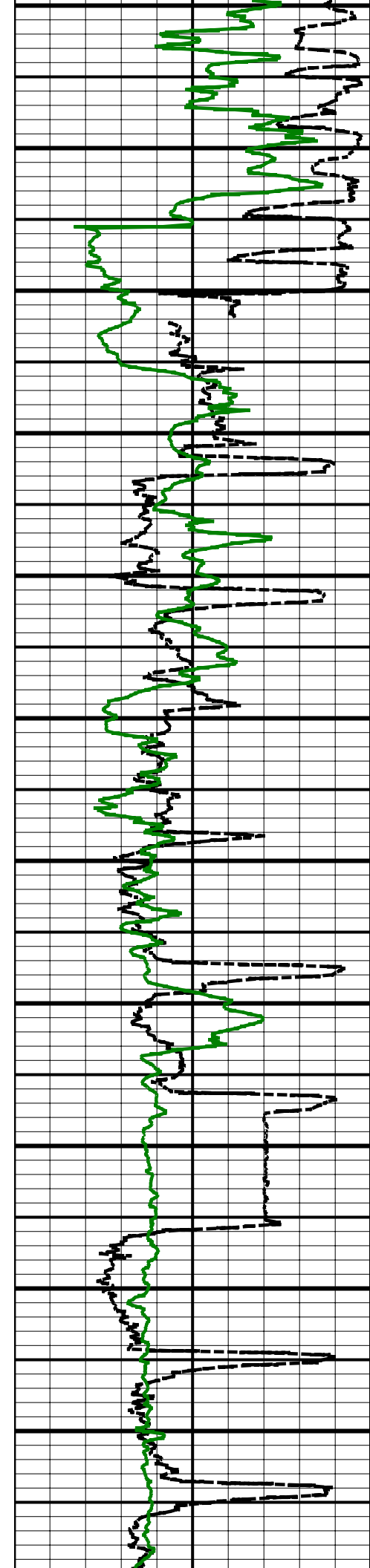
7000 MD

7100 MD

7200 MD

7300 MD

7400 MD



7400
MD

7500
MD

7600
MD

7700
MD

7800
MD

7900
MD

8000
MD

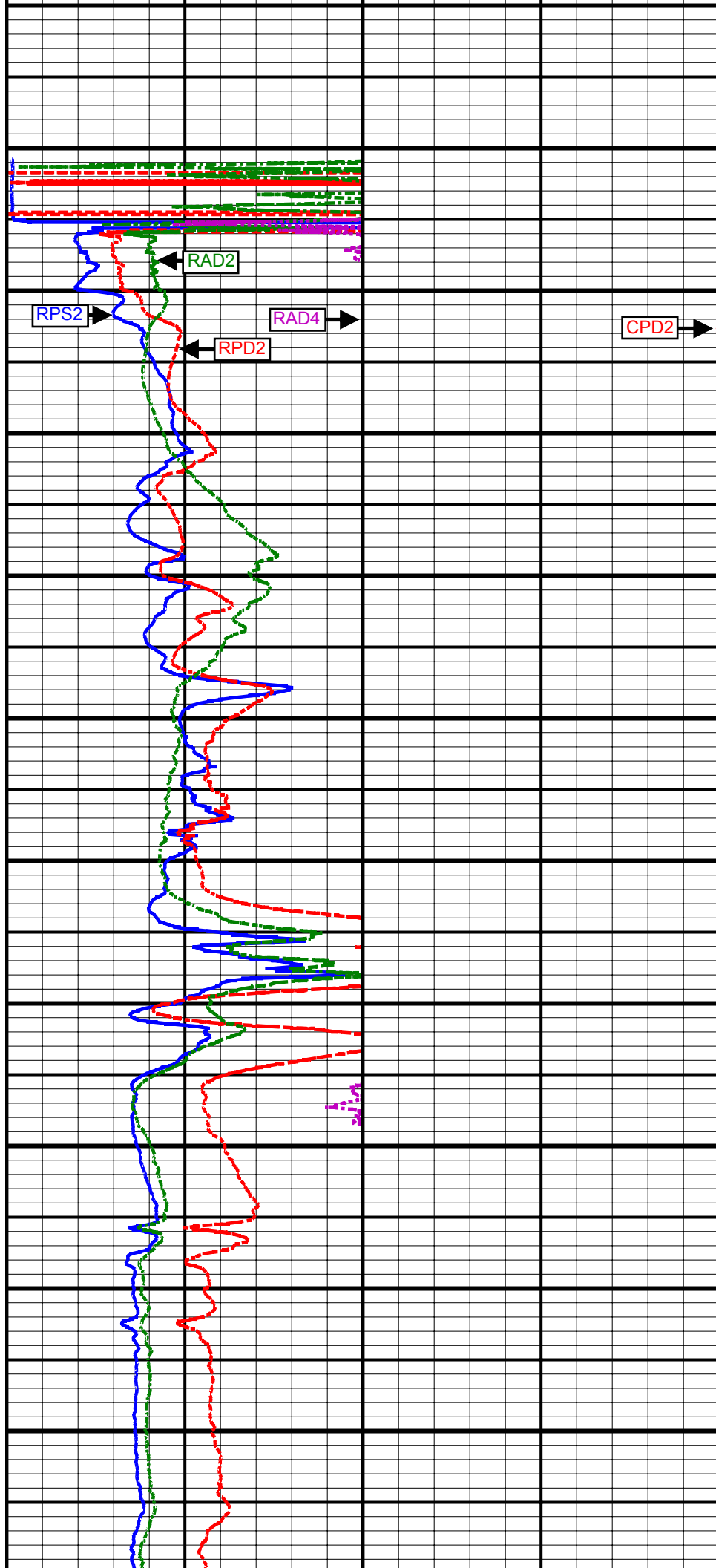
8100
MD

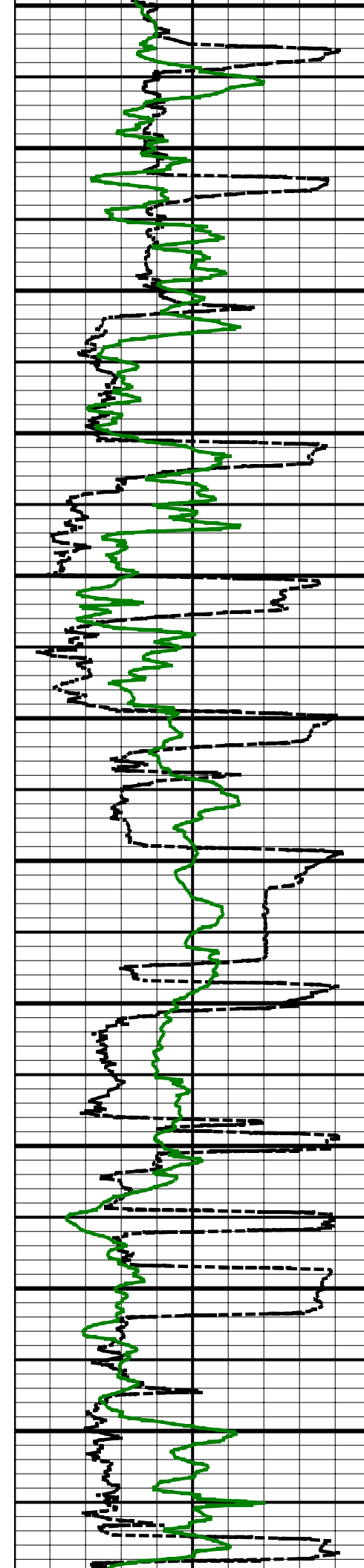
8200
MD

8300
MD

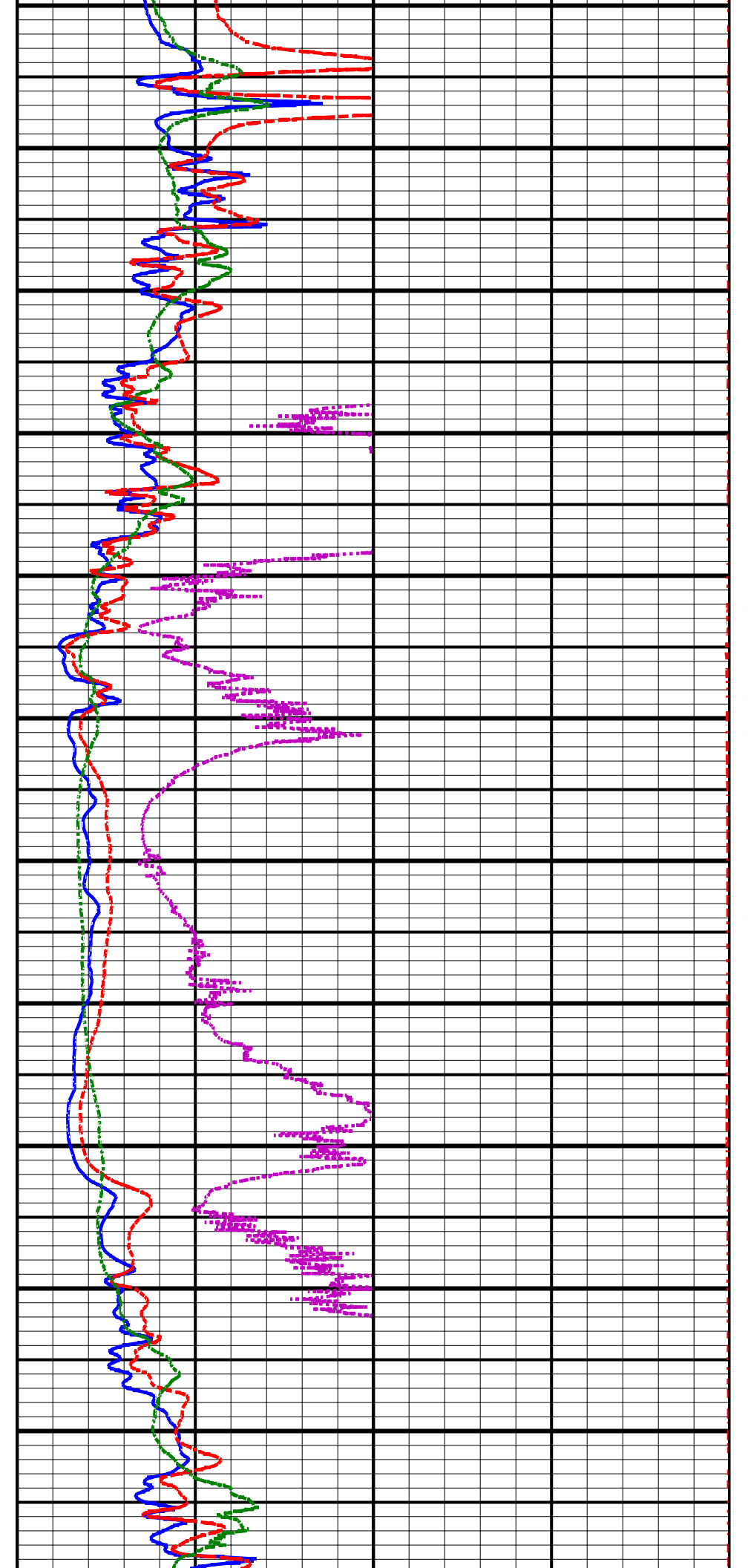
8400
MD

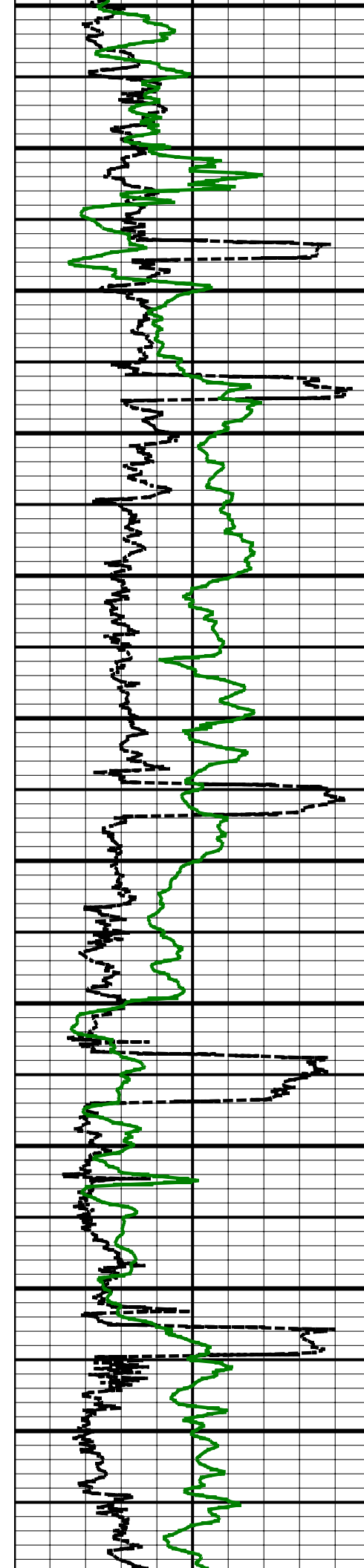
8500
MD



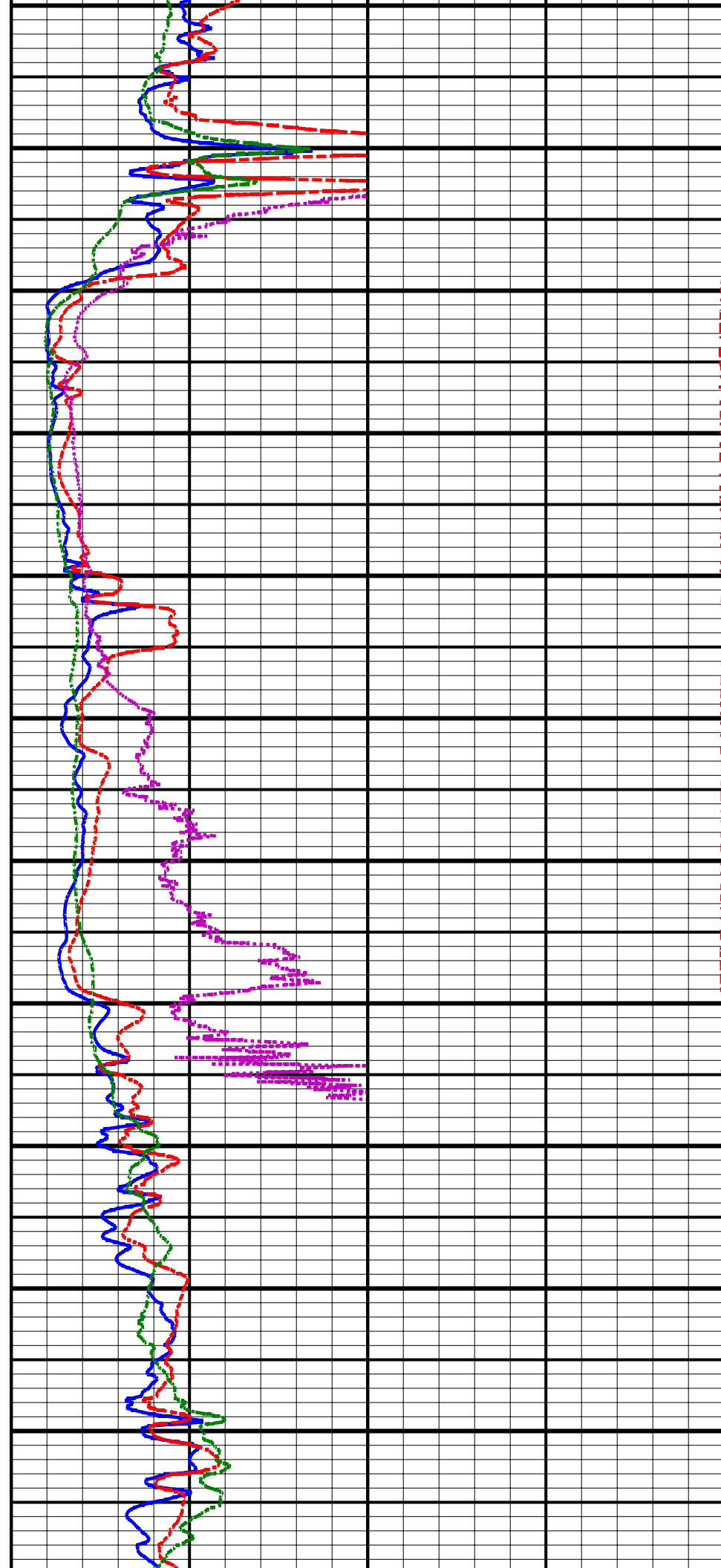


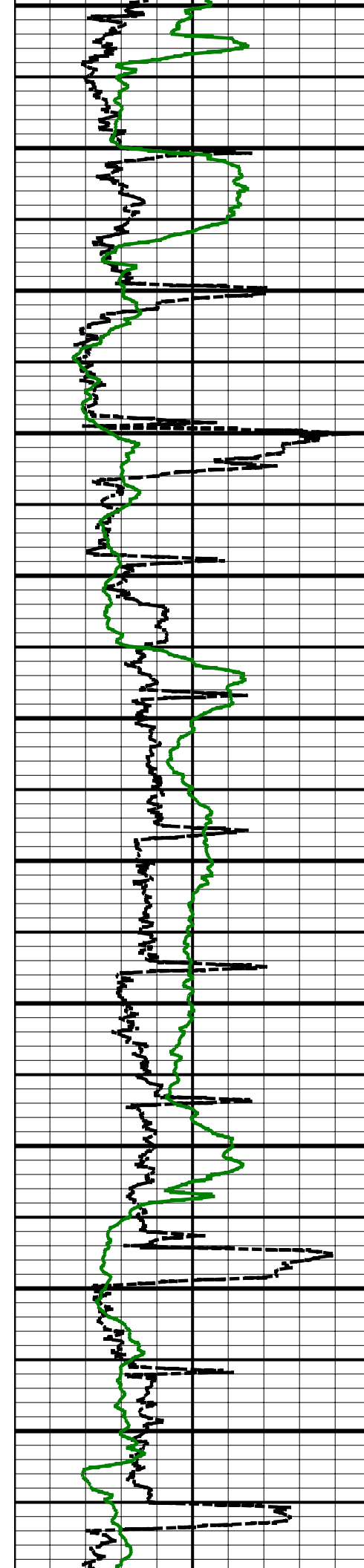
8500 MD
8600 MD
8700 MD
8800 MD
8900 MD
9000 MD
9100 MD
9200 MD
9300 MD
9400 MD
9500 MD





9600 MD
9700 MD
9800 MD
9900 MD
10000 MD
10100 MD
10200 MD
10300 MD
10400 MD
10500 MD
10600 MD
10700 MD





10700
MD

10800
MD

10900
MD

11000
MD

11100
MD

11200
MD

11300
MD

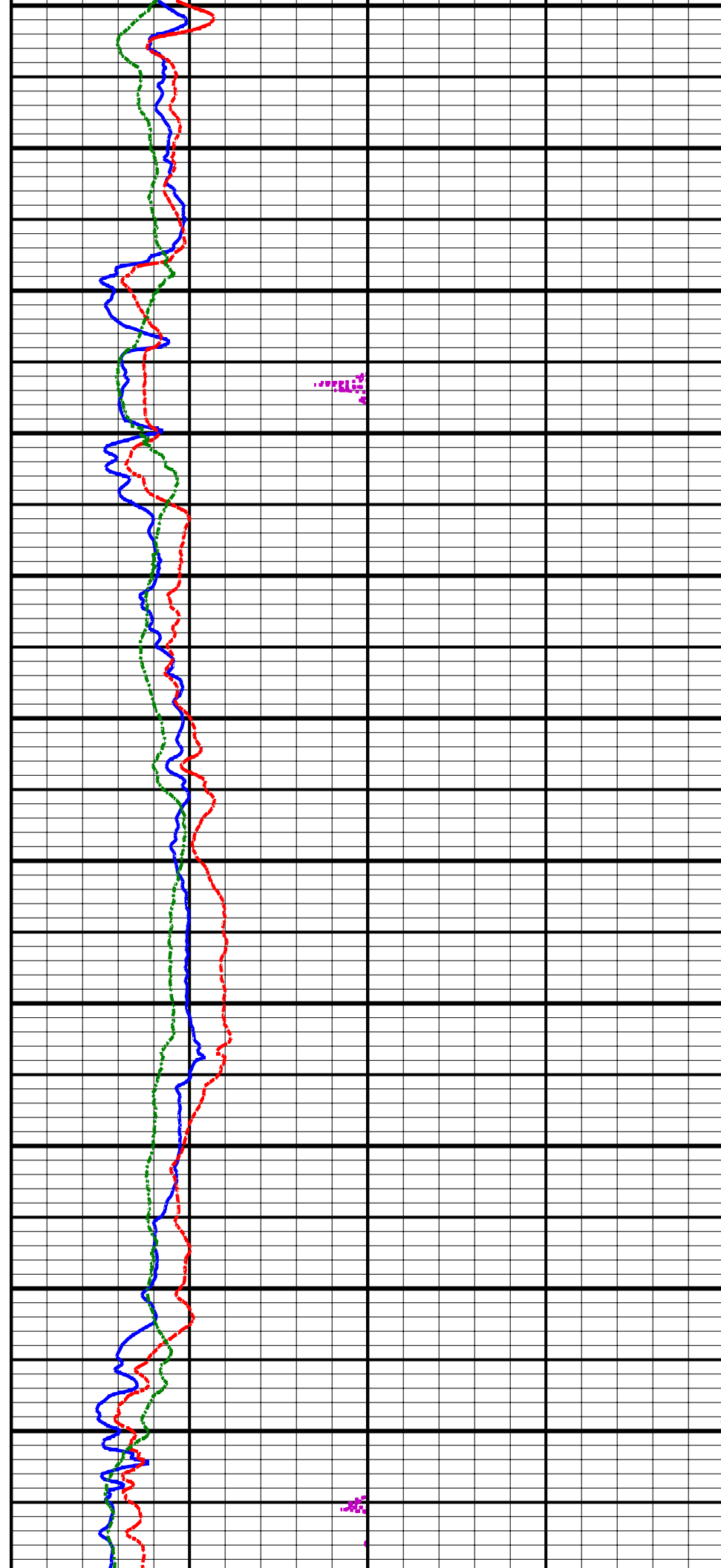
11400
MD

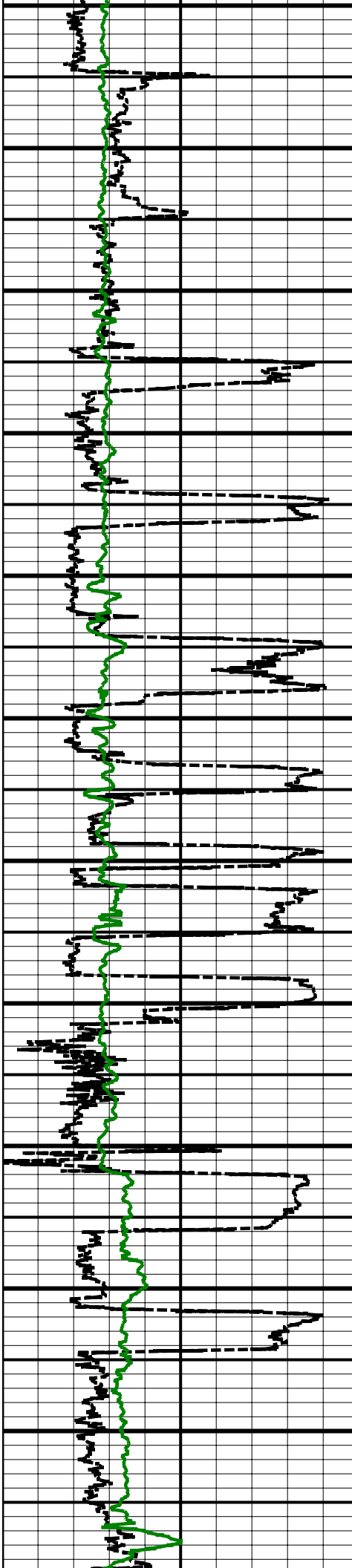
11500
MD

11600
MD

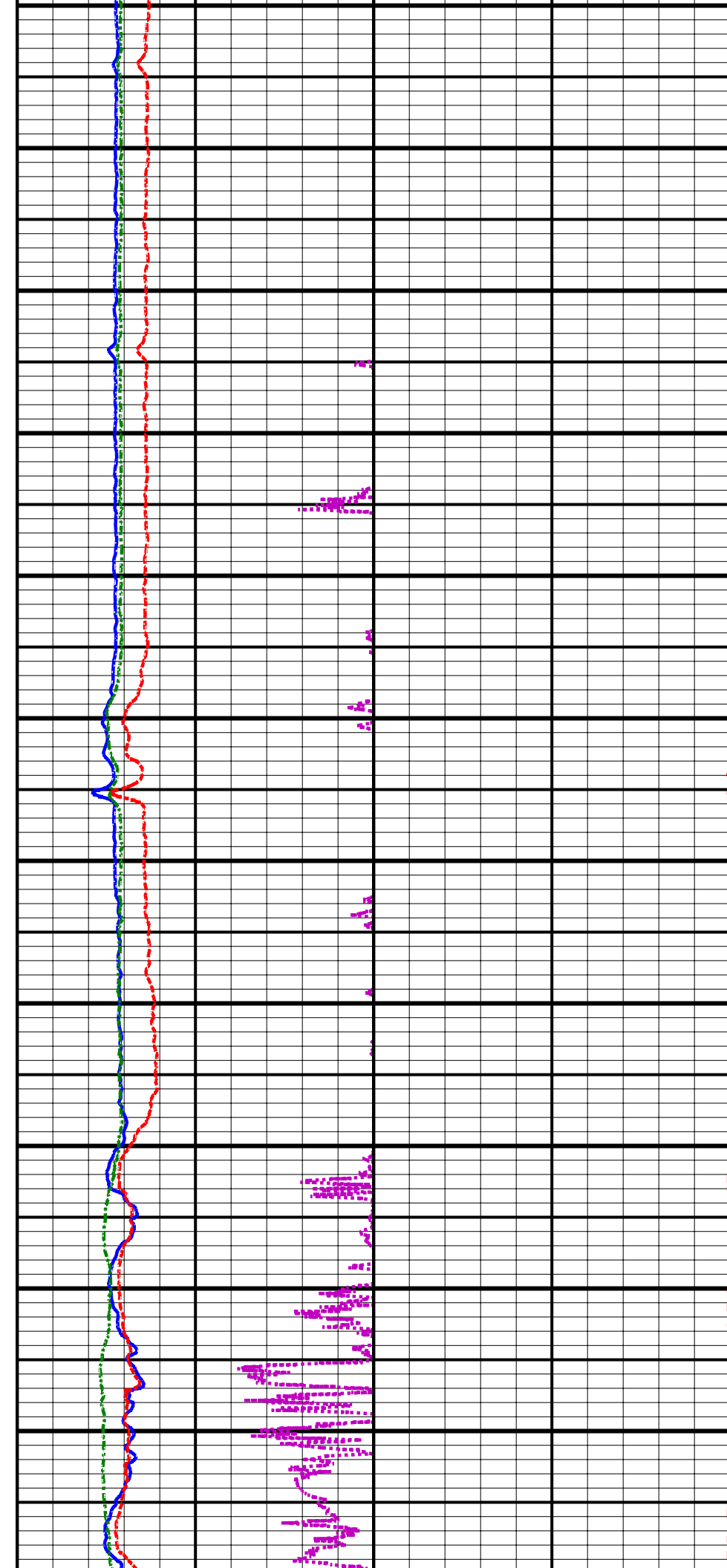
11700
MD

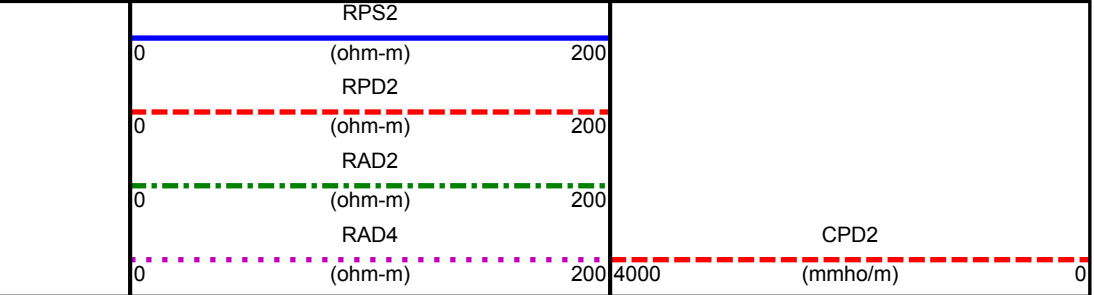
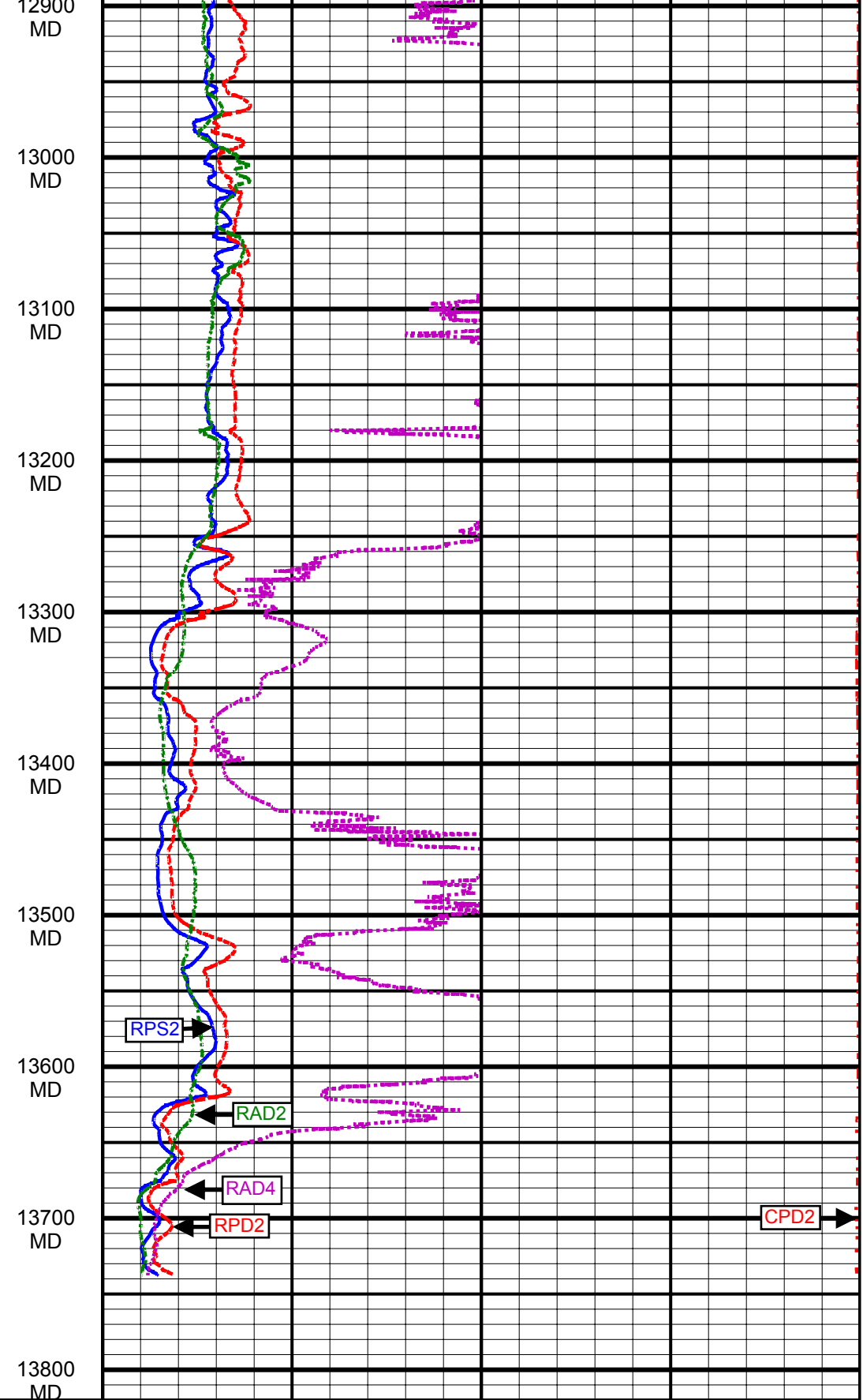
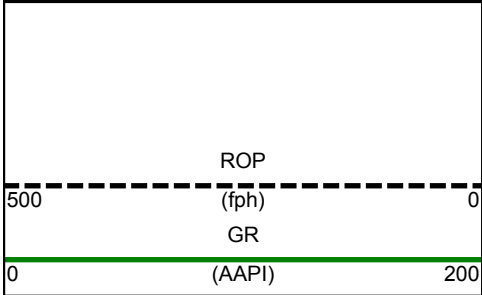
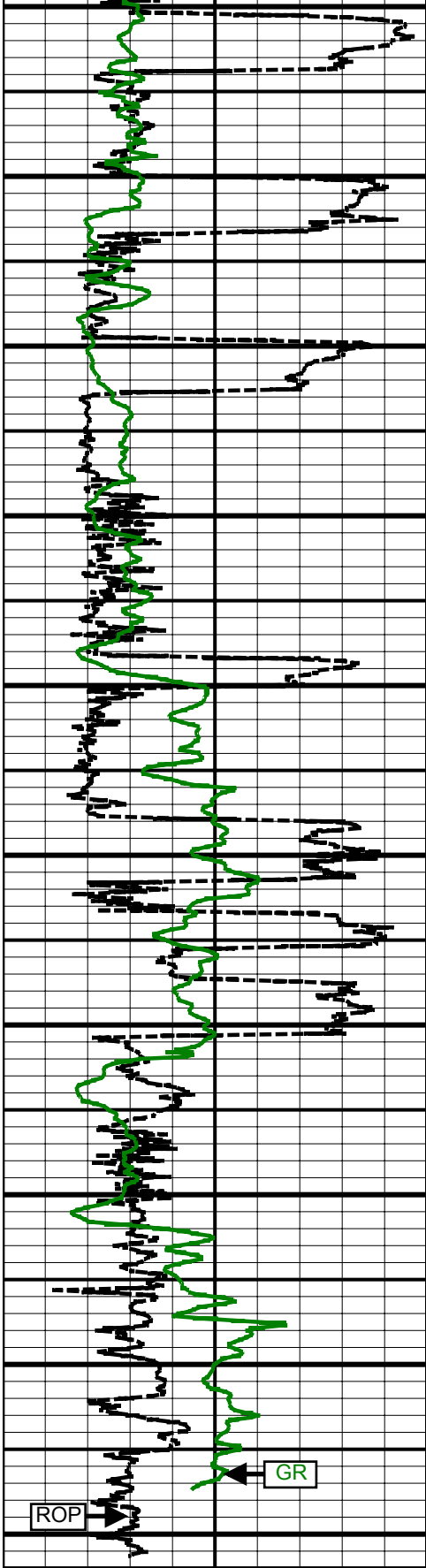
11800
MD



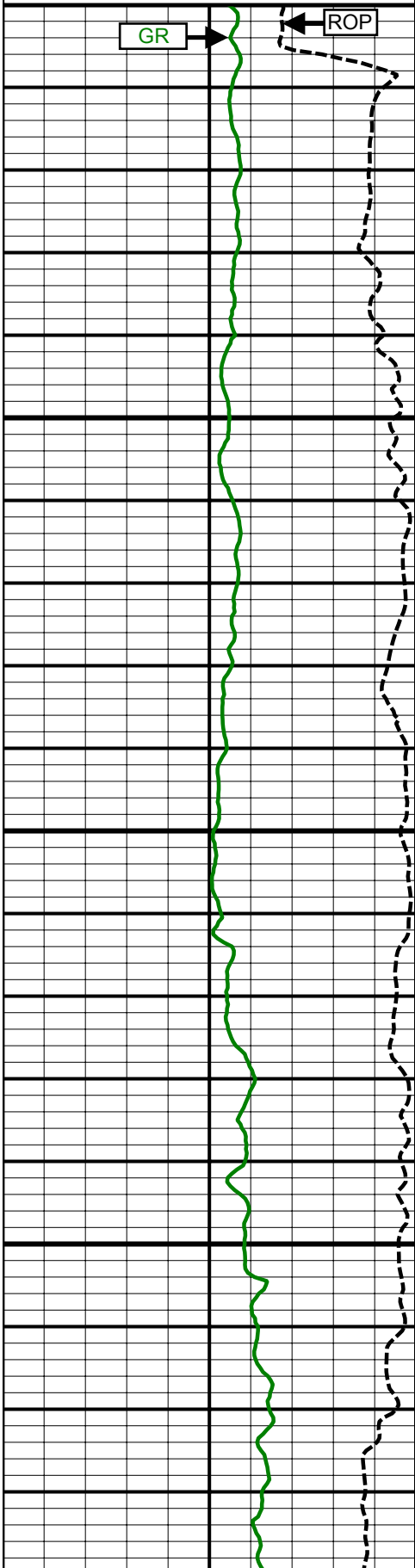
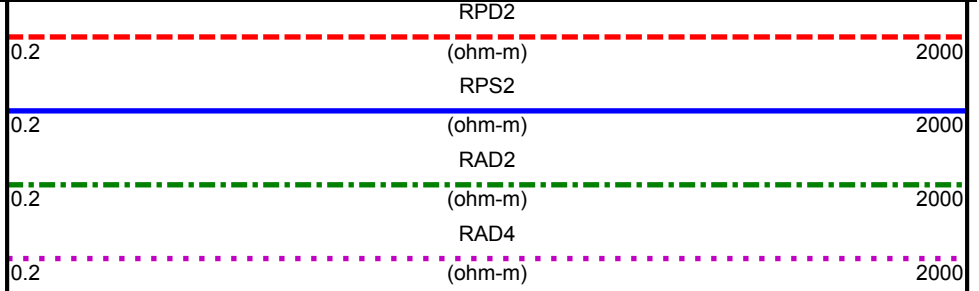
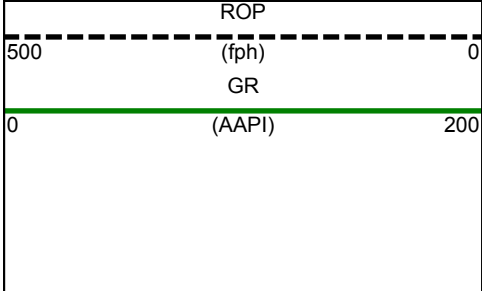


11800 MD
11900 MD
12000 MD
12100 MD
12200 MD
12300 MD
12400 MD
12500 MD
12600 MD
12700 MD
12800 MD





5 Inch - Measured Depth



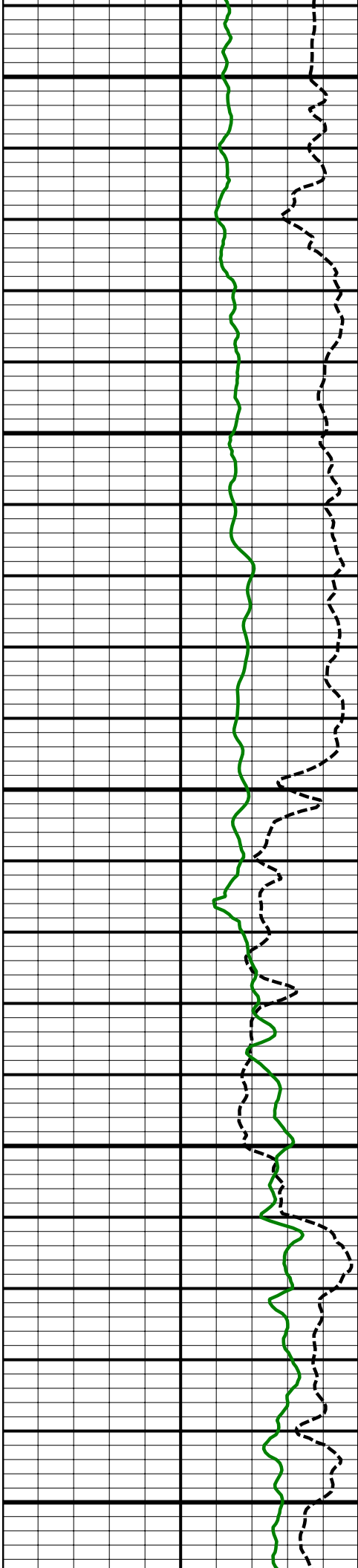
Comment No. 1-1

6500 MD

6600 MD

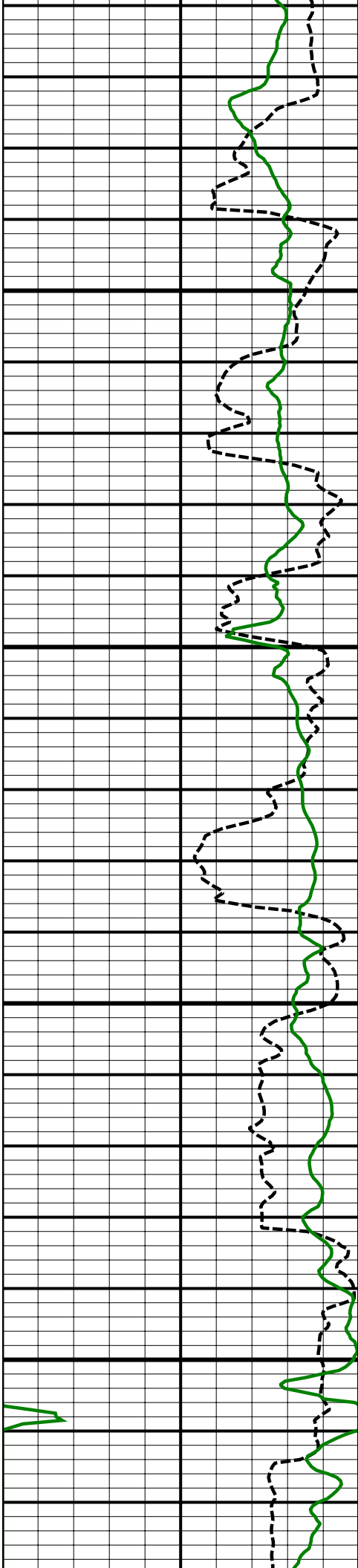
Comment No. 1-2

Comment No. 2-1



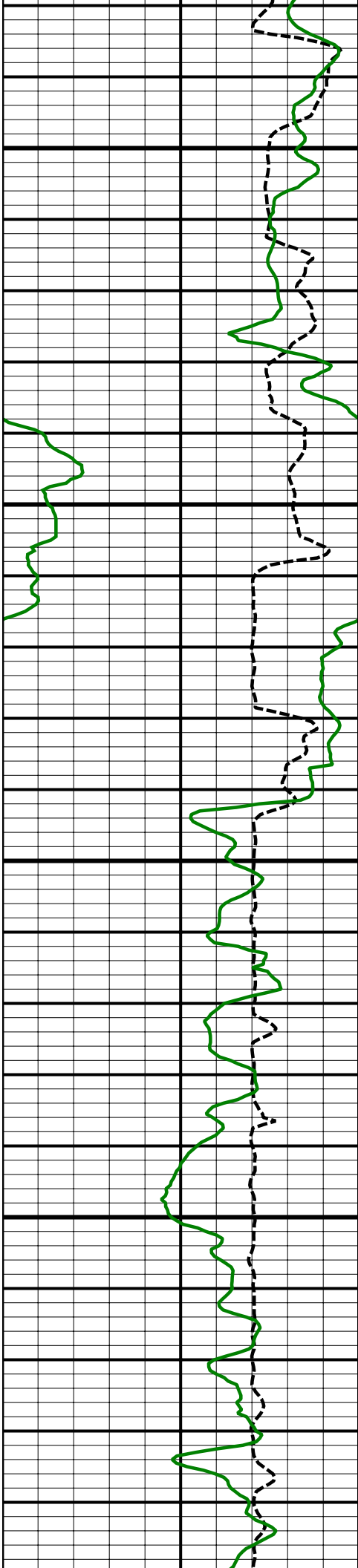
6700
MD

6800
MD



6900
MD

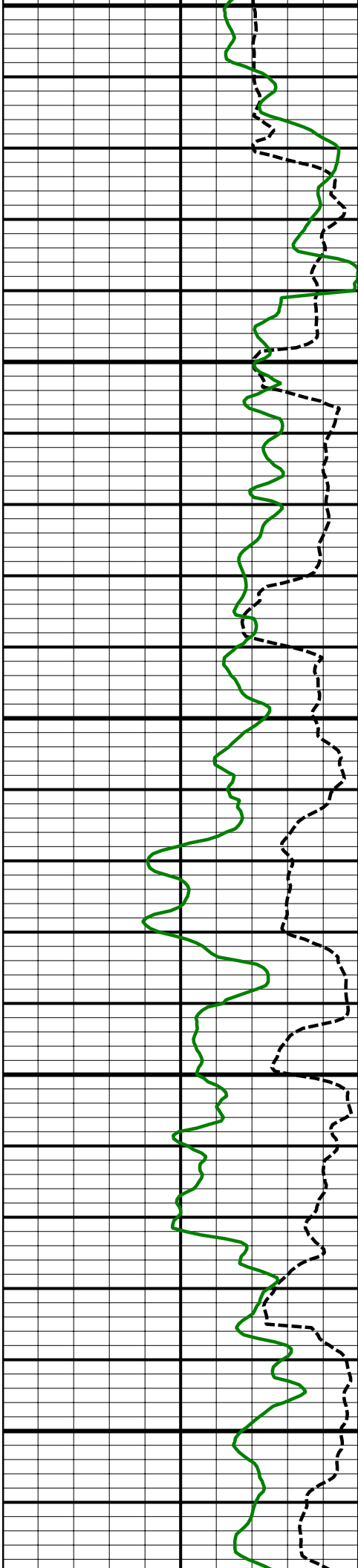
7000
MD



7100
MD

7200
MD

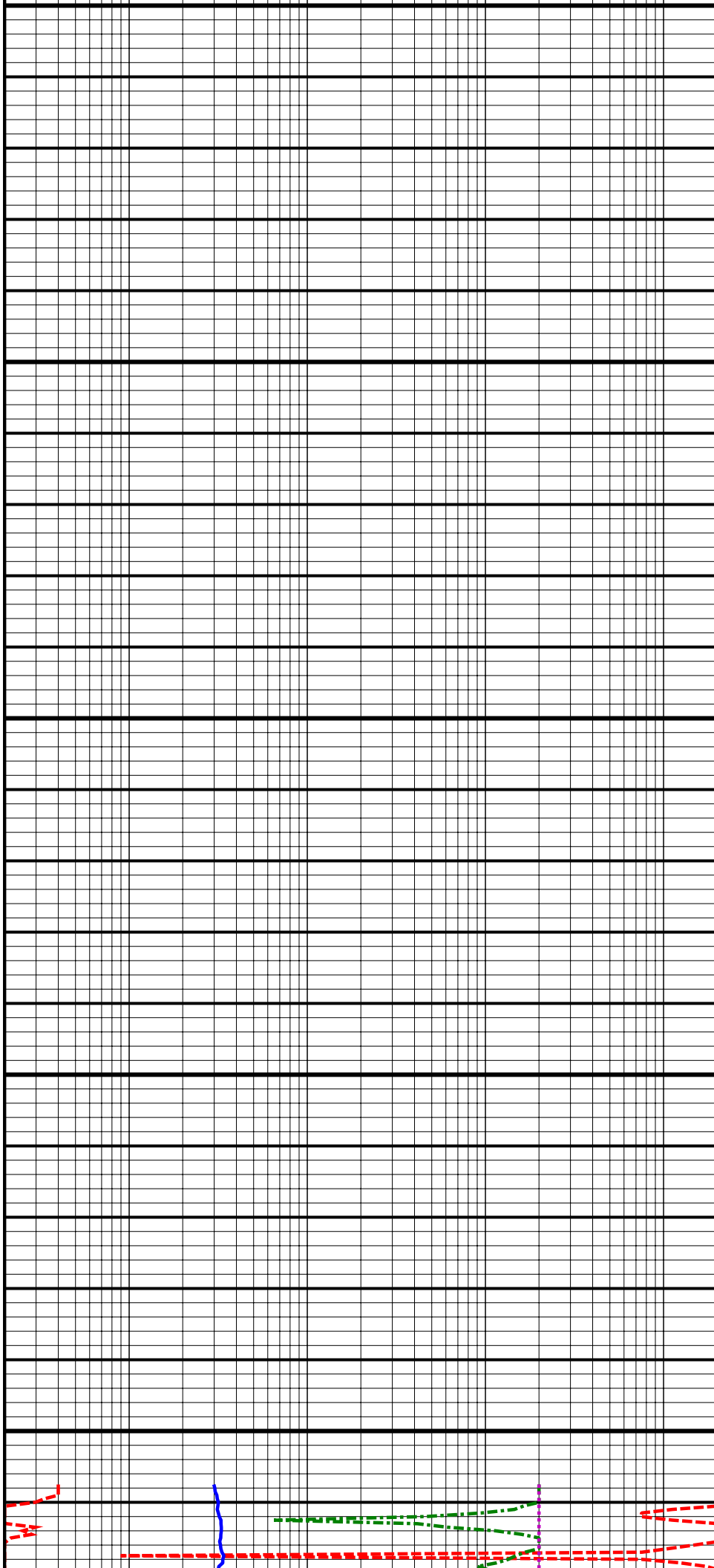
7300
MD

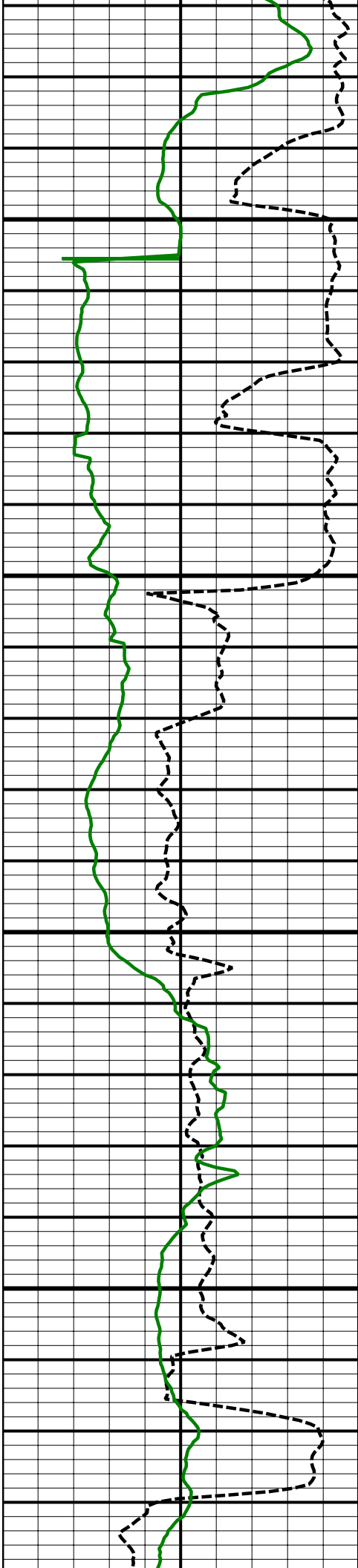


7300
MD

7400
MD

7500
MD



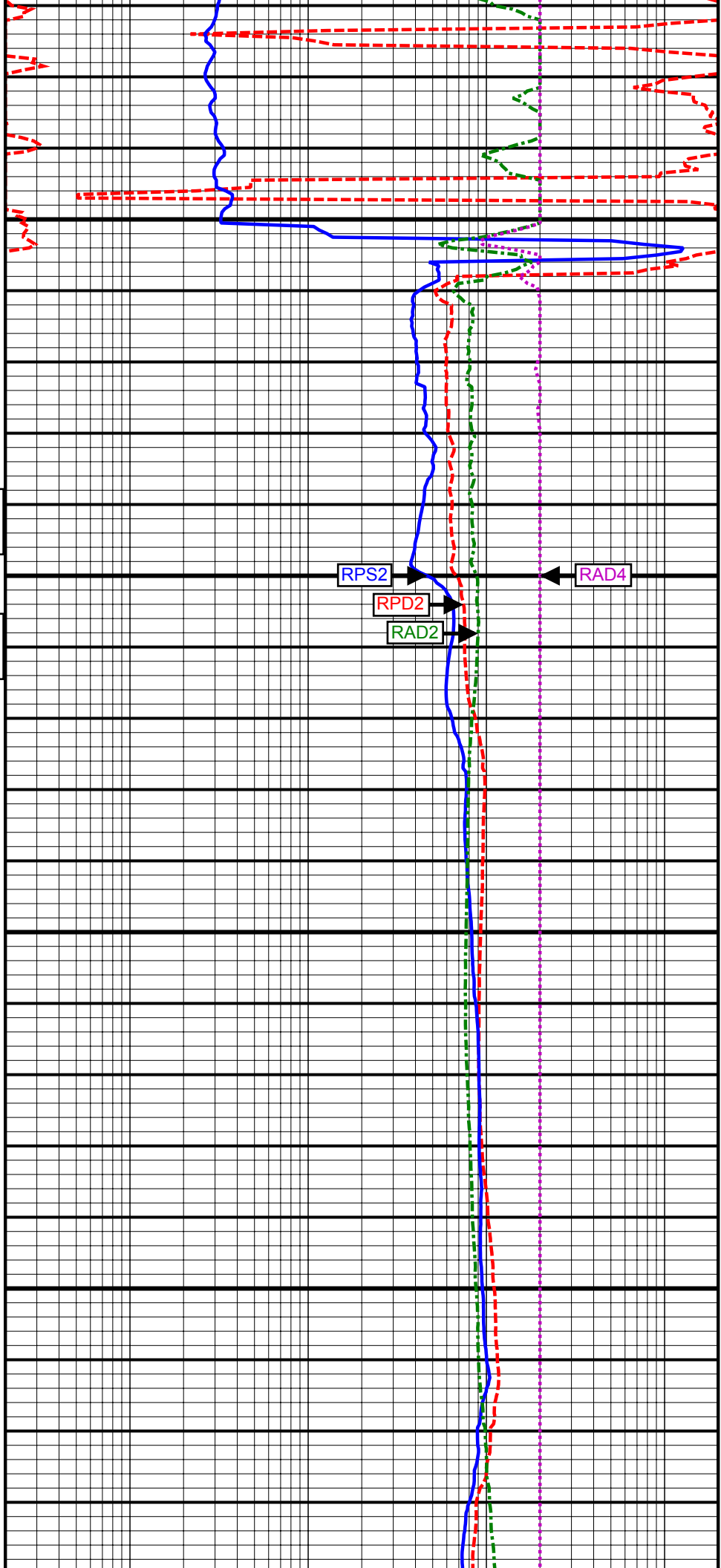


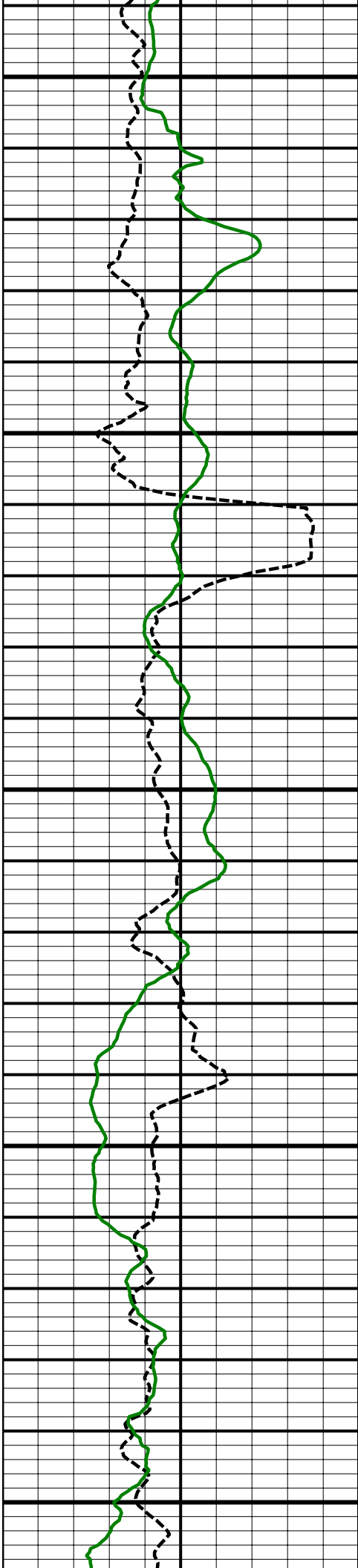
Comment
No. 2-2

7600
MD

Comment
No. 3-1

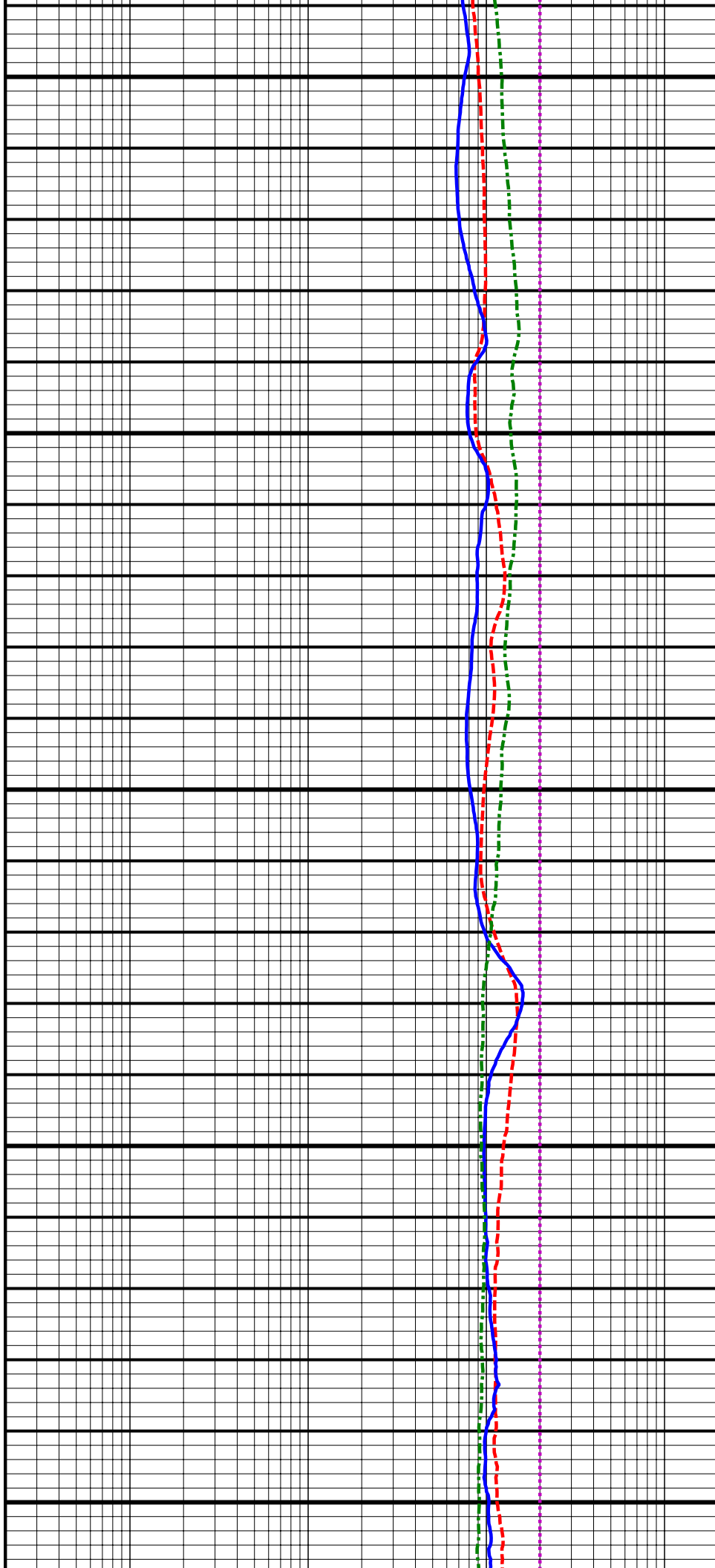
7700
MD

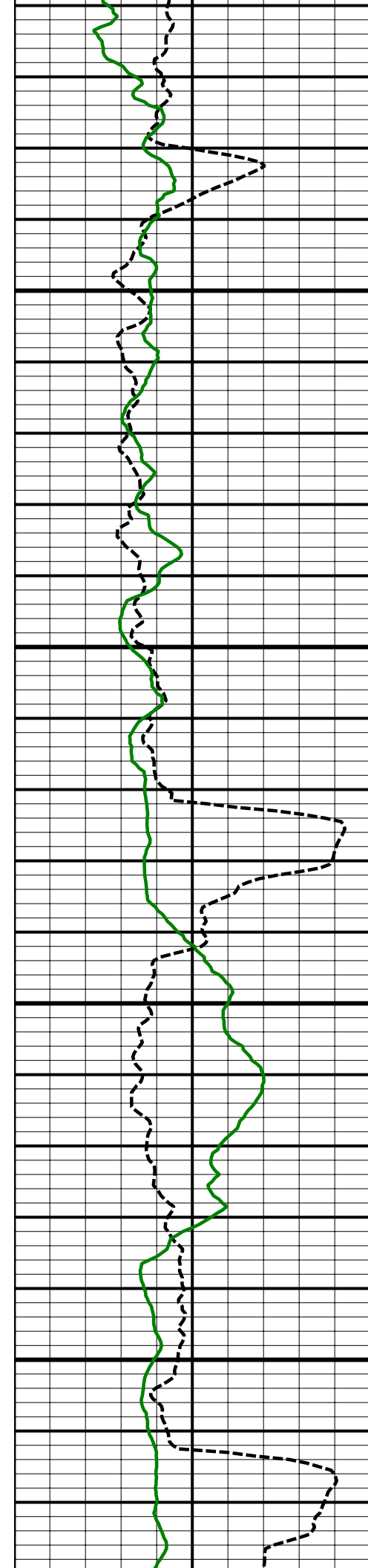




7800
MD

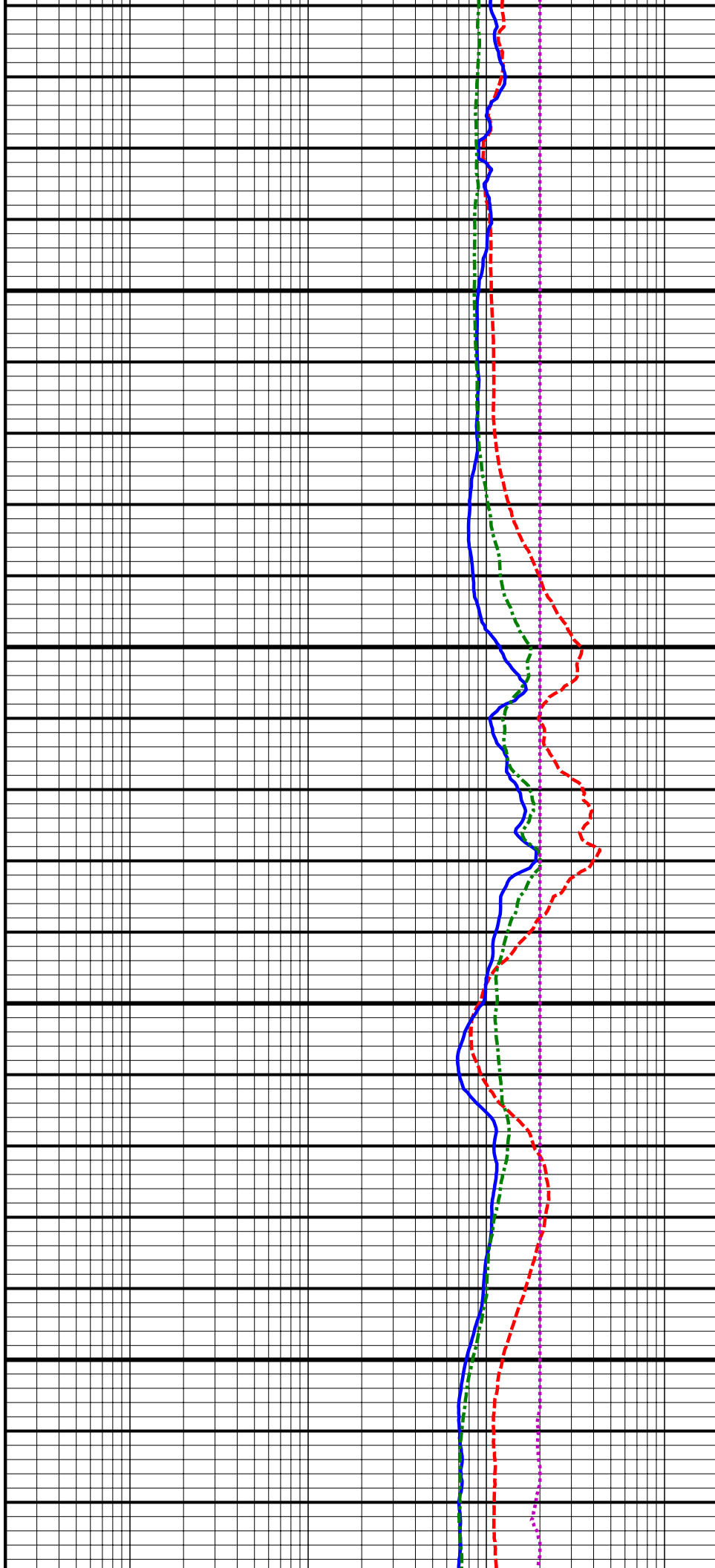
7900
MD

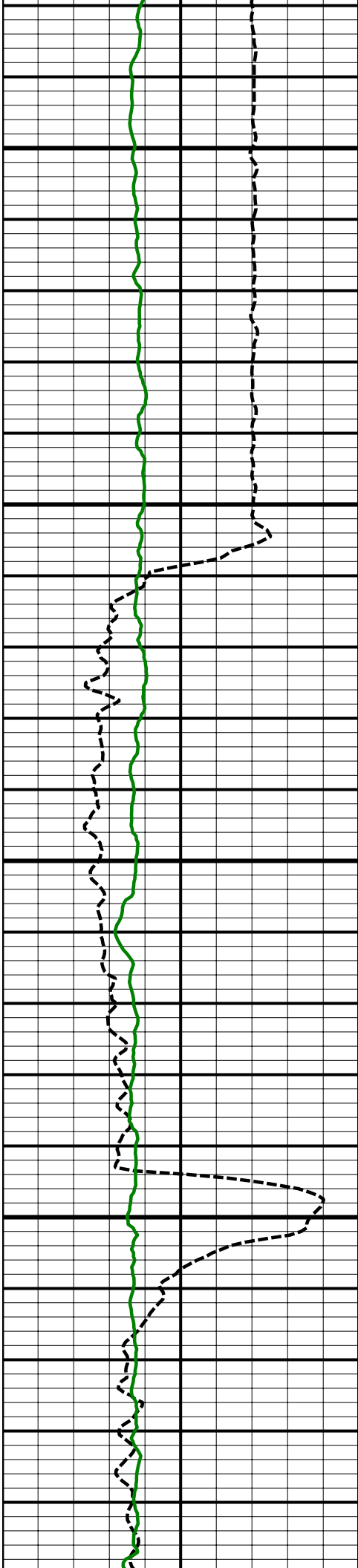




8000
MD

8100
MD

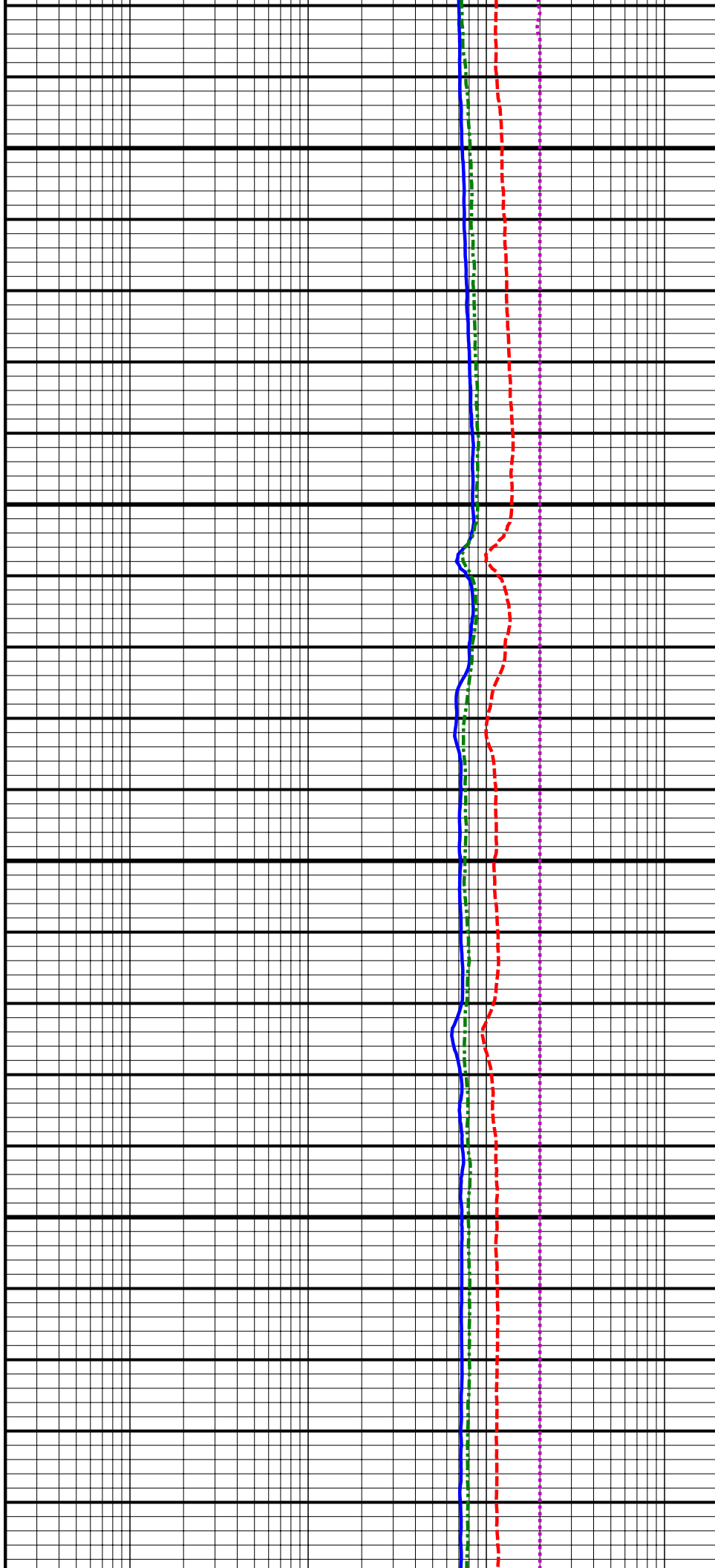




8200
MD

8300
MD

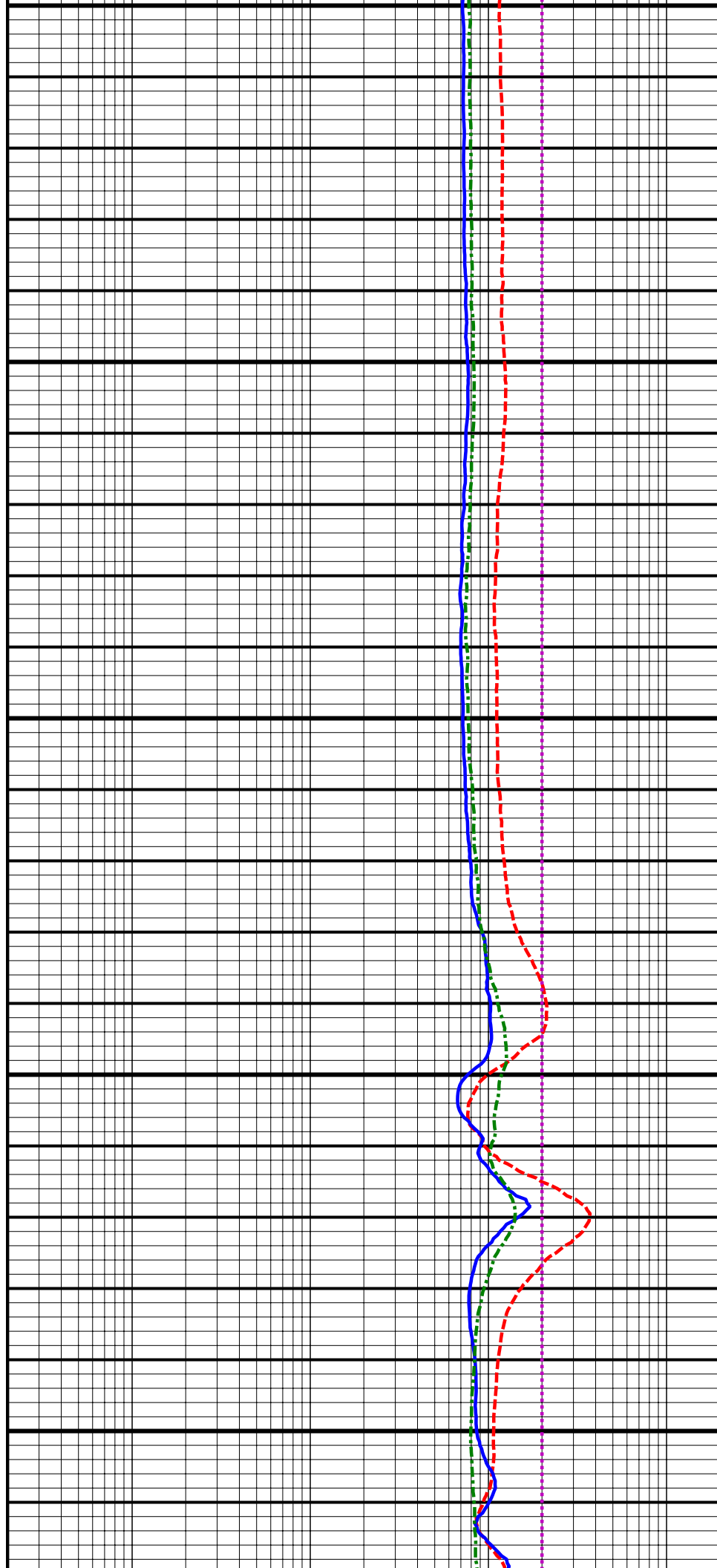
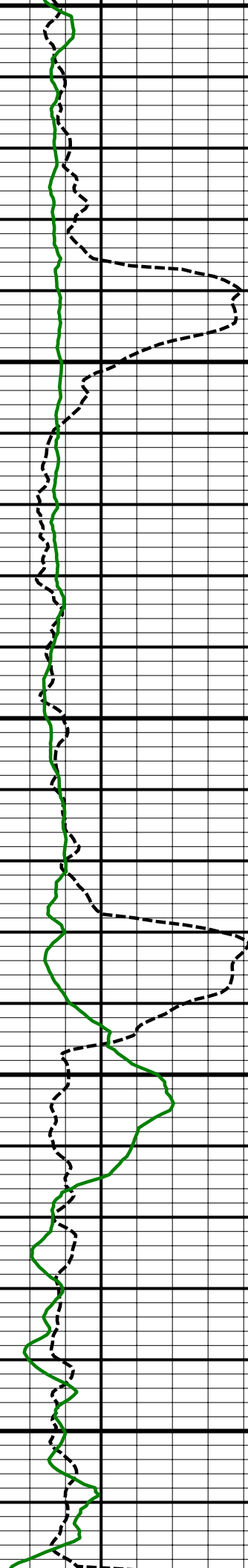
8400
MD

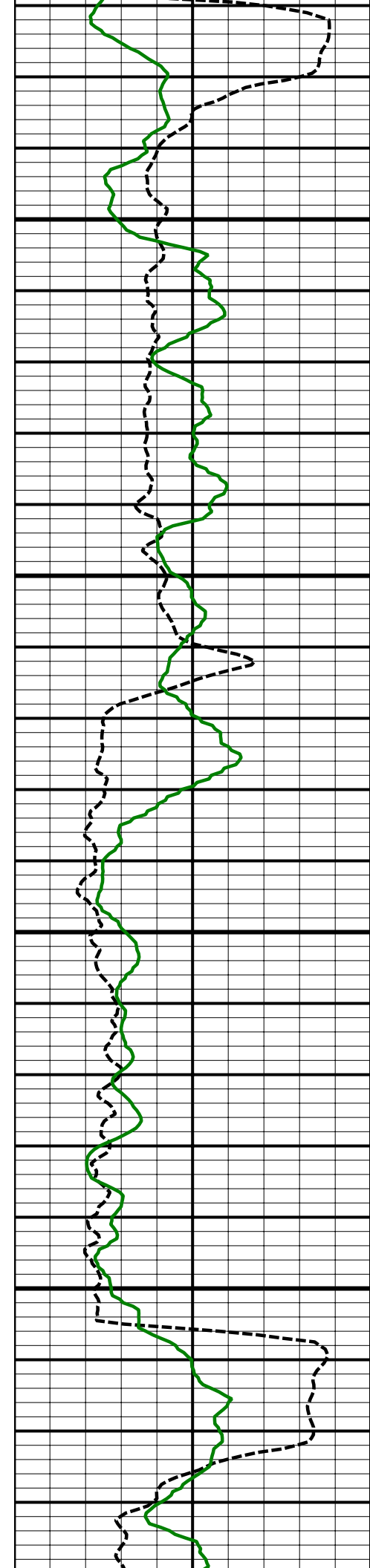


8400
MD

8500
MD

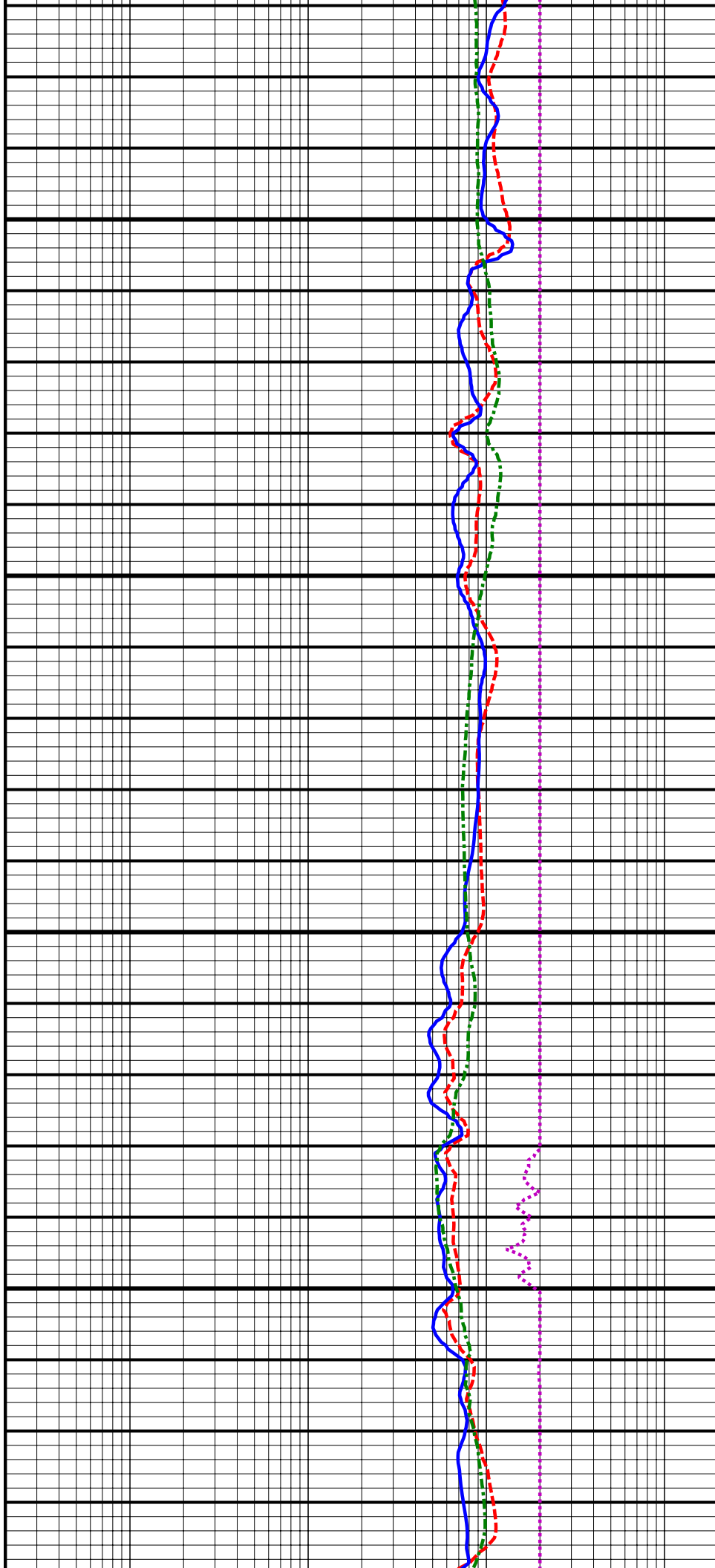
8600
MD

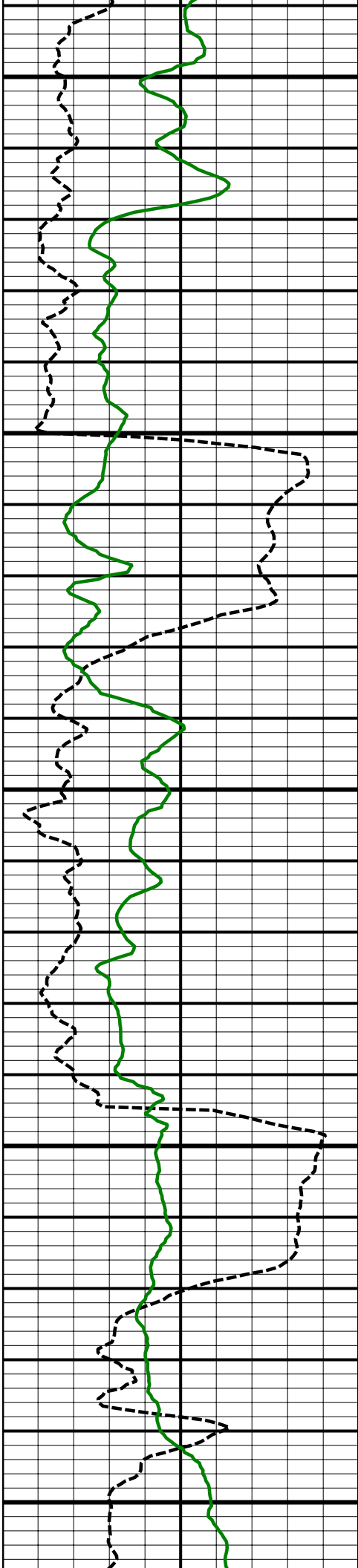




8700
MD

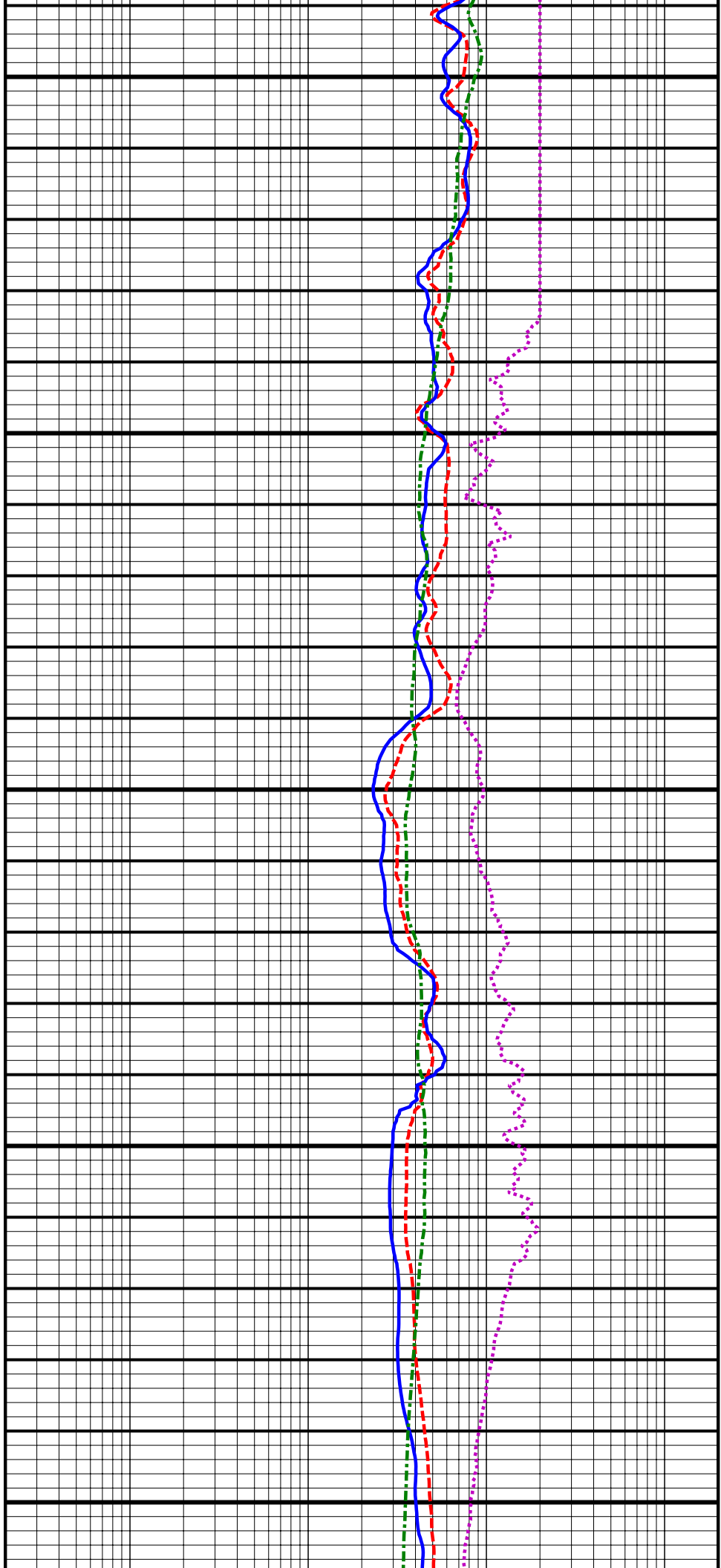
8800
MD

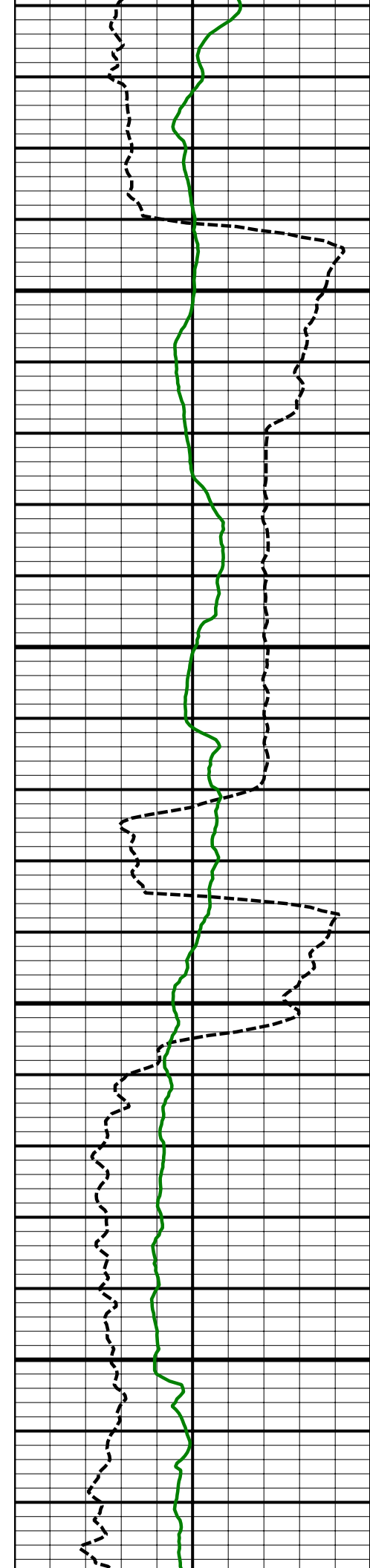




8900
MD

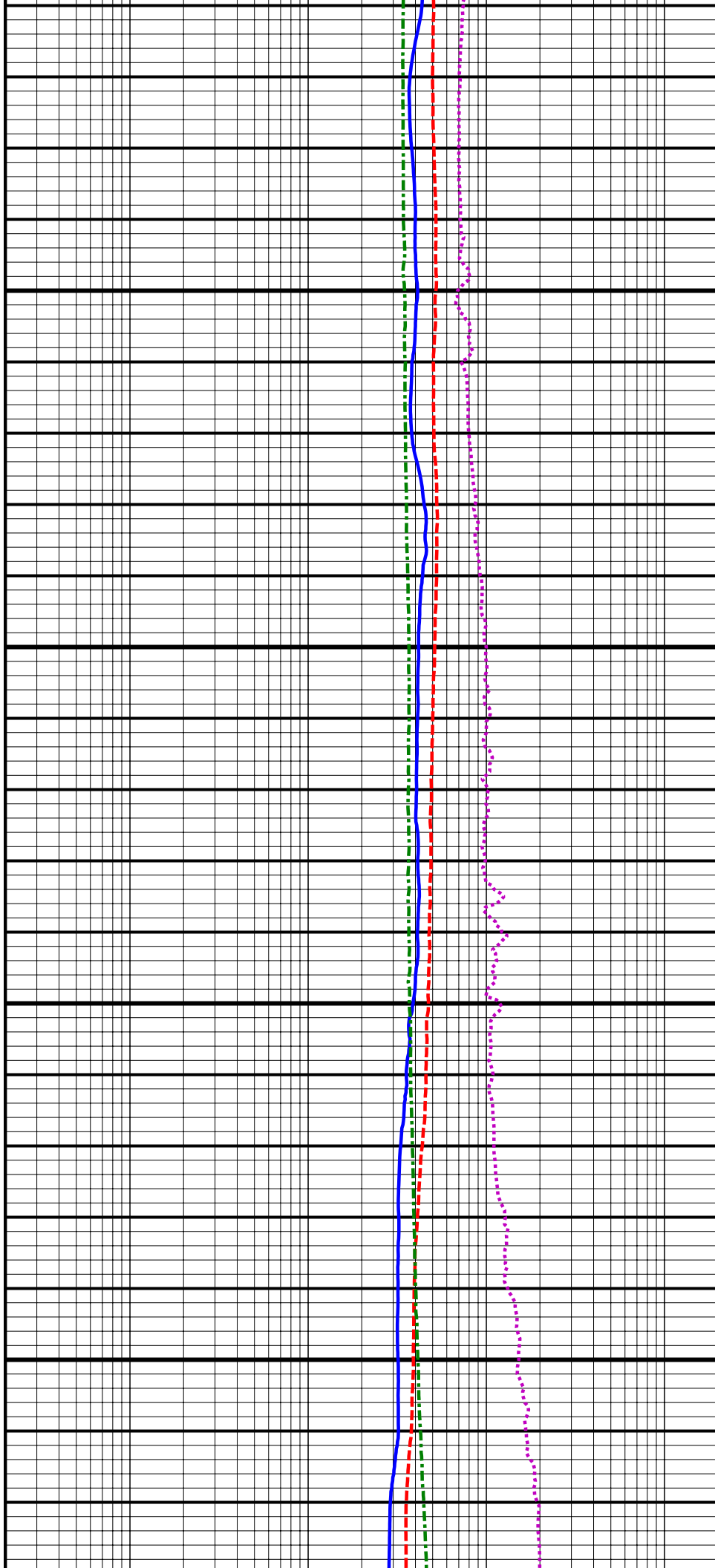
9000
MD

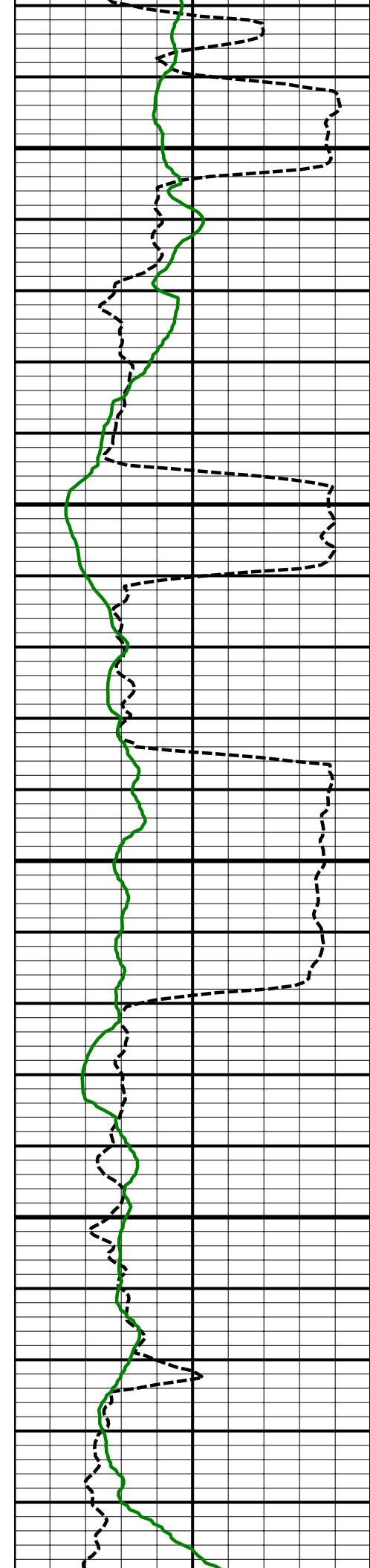




9100
MD

9200
MD

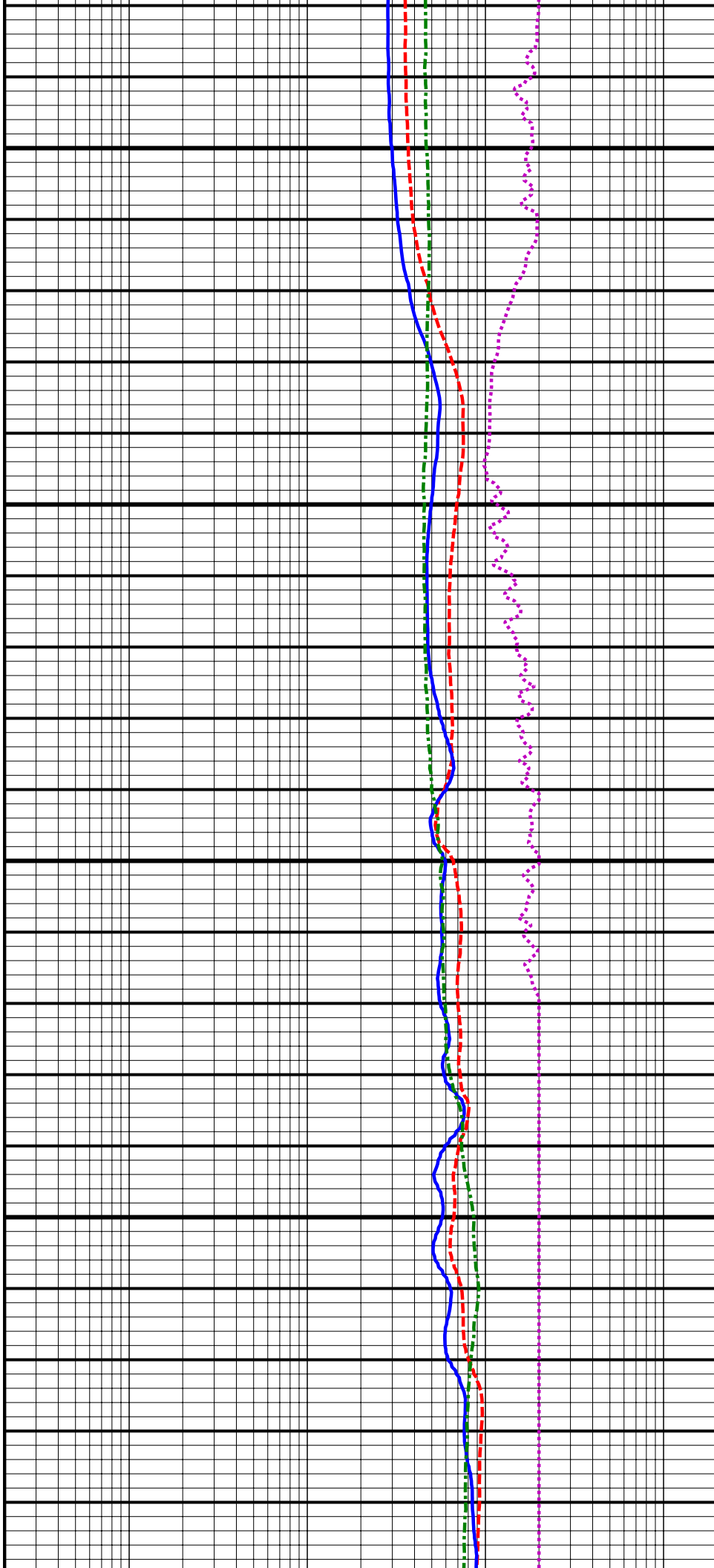


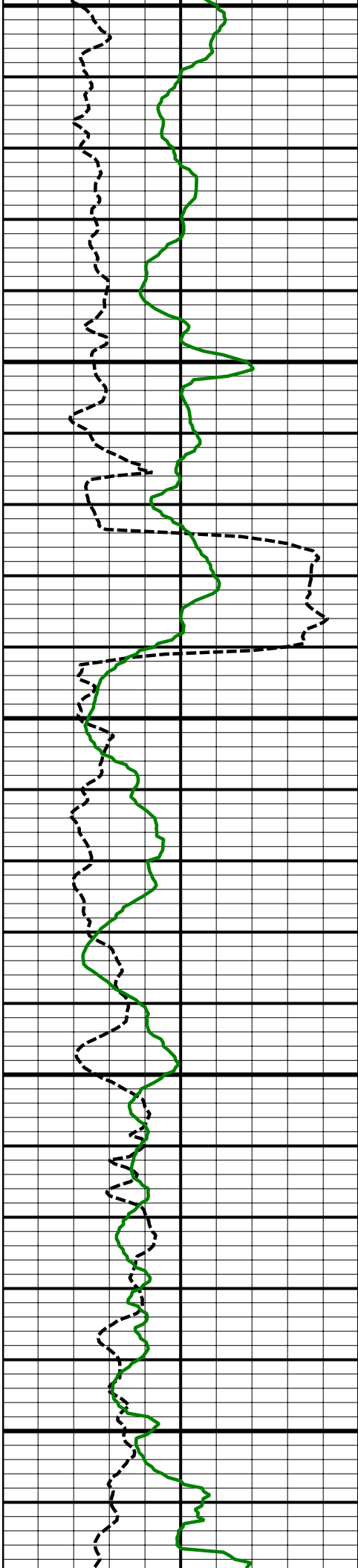


9300
MD

9400
MD

9500

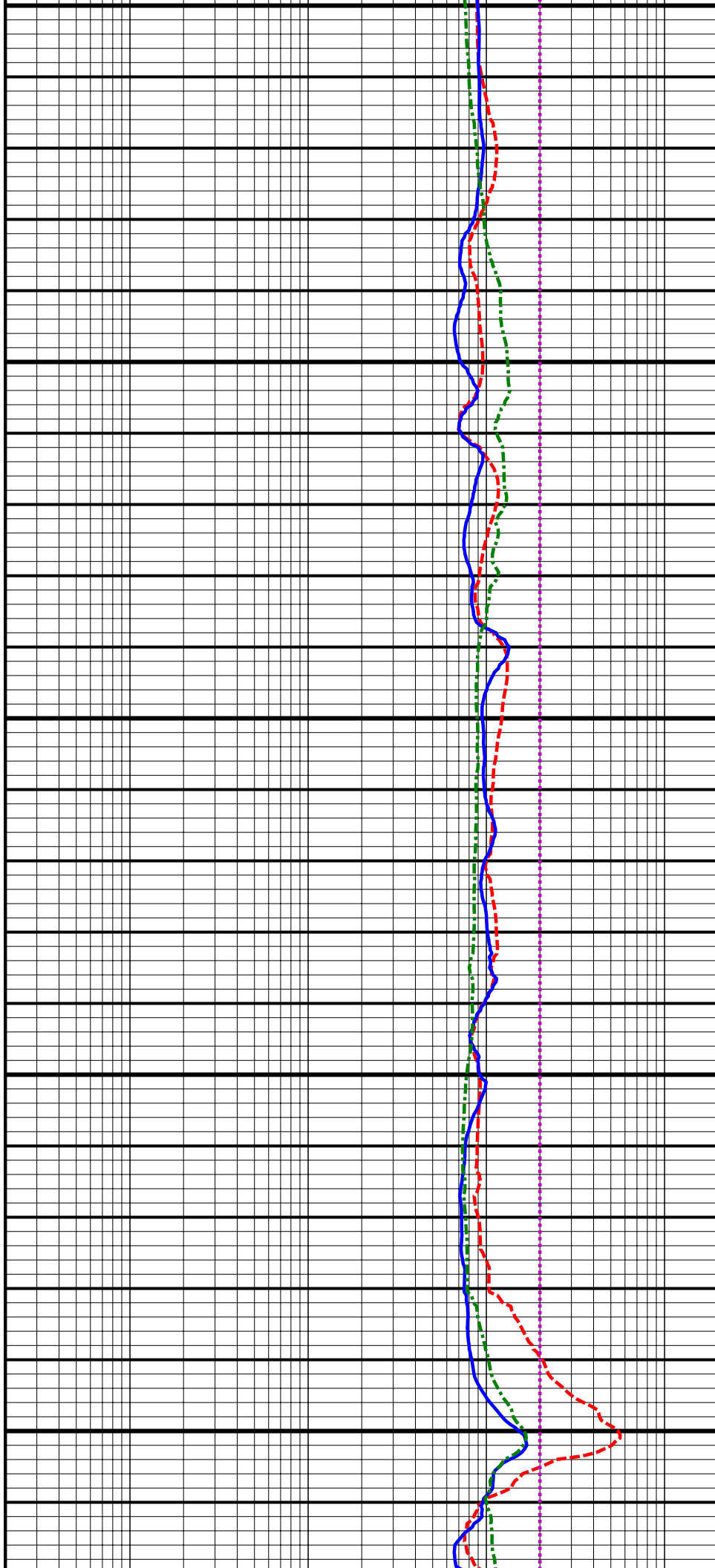


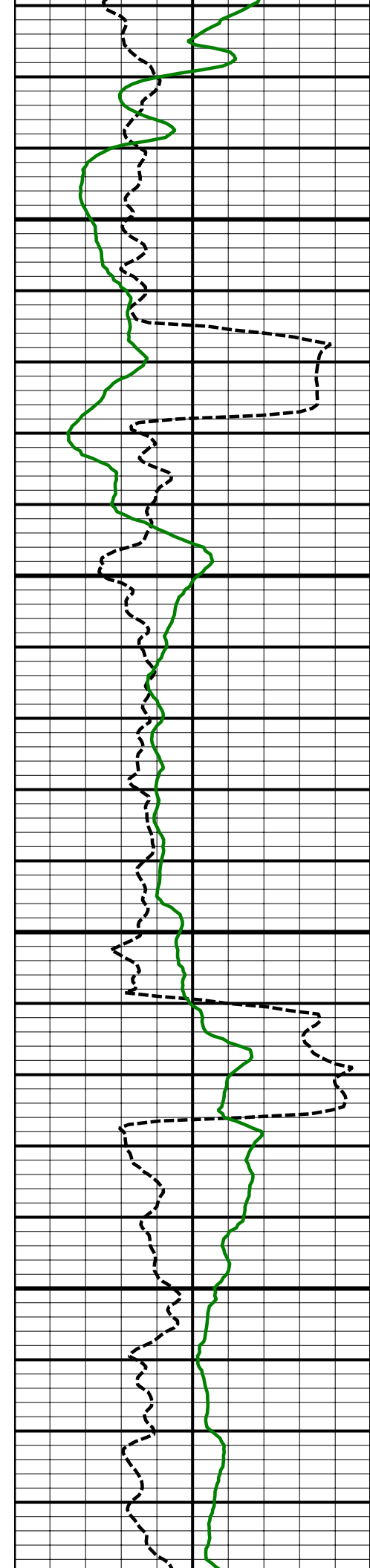


9500
MD

9600
MD

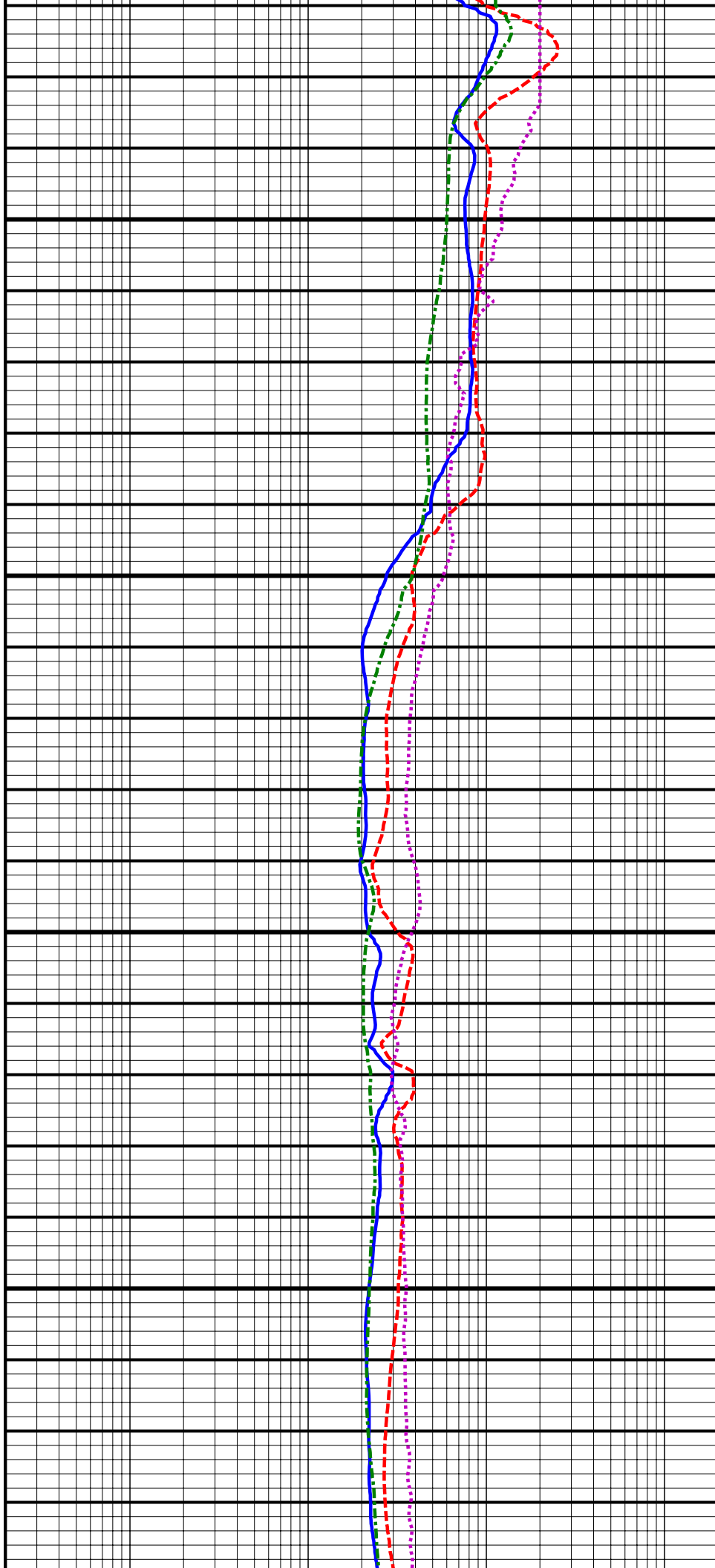
9700
MD

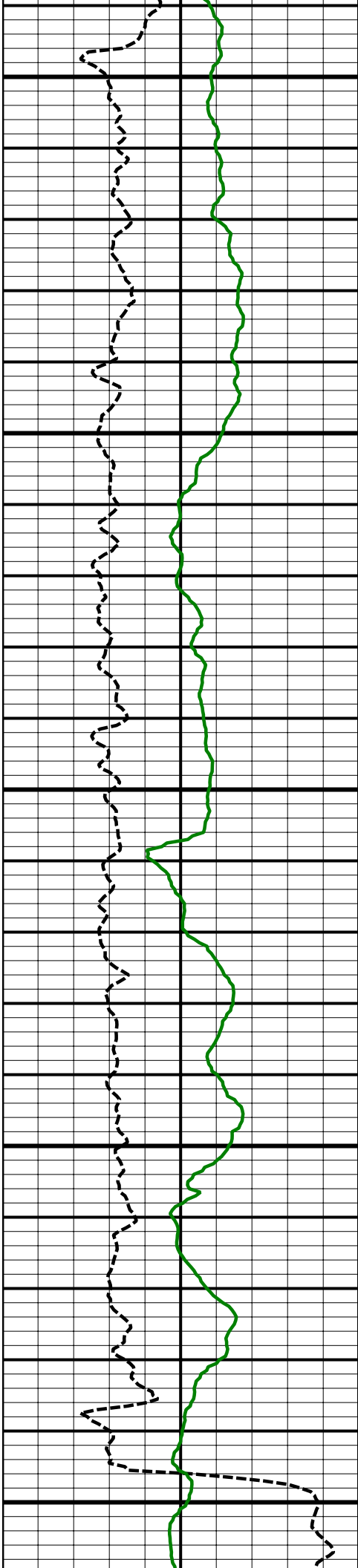




9800
MD

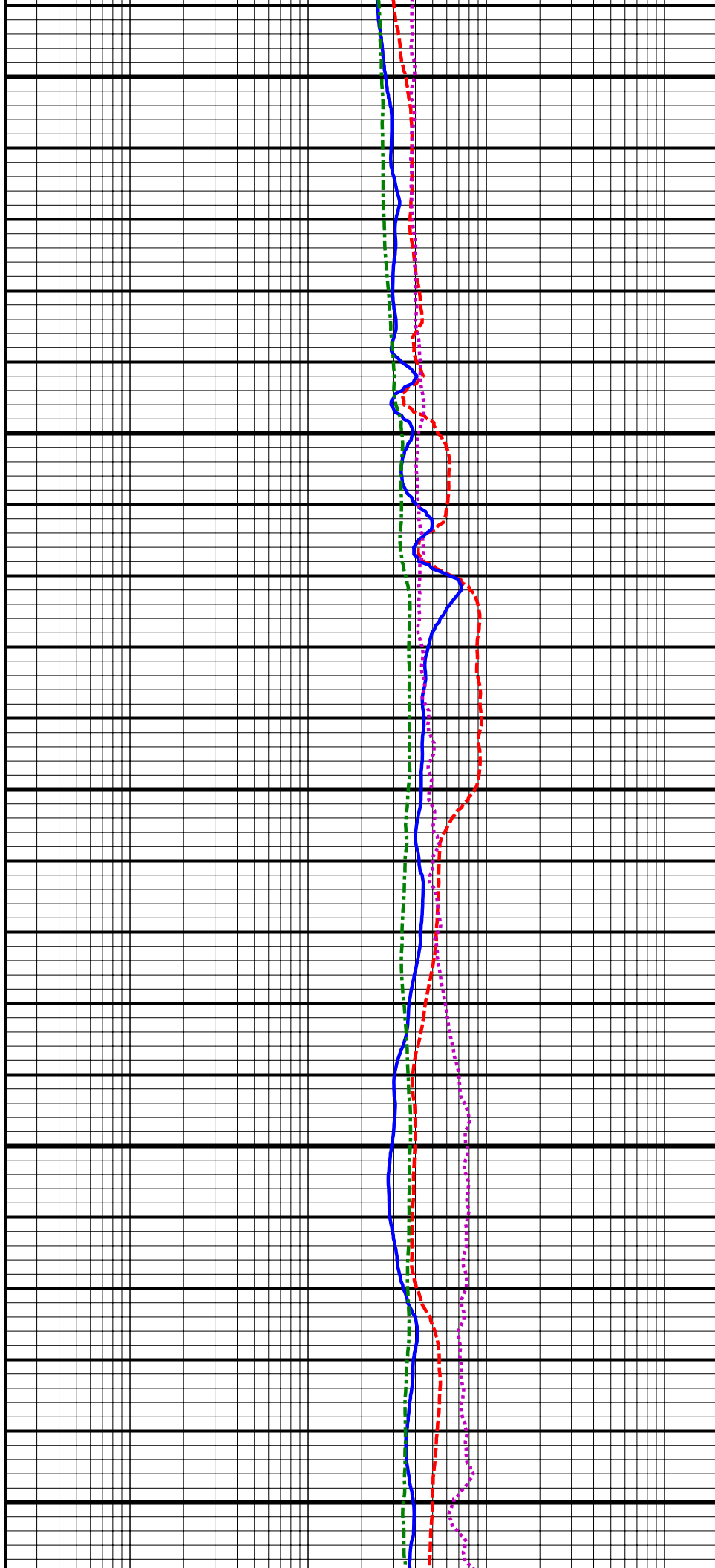
9900
MD

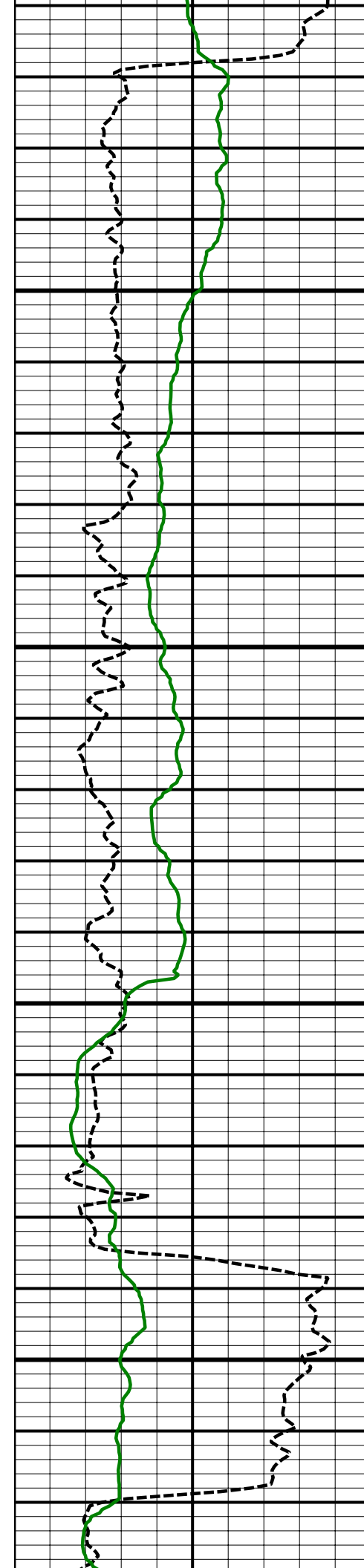




10000
MD

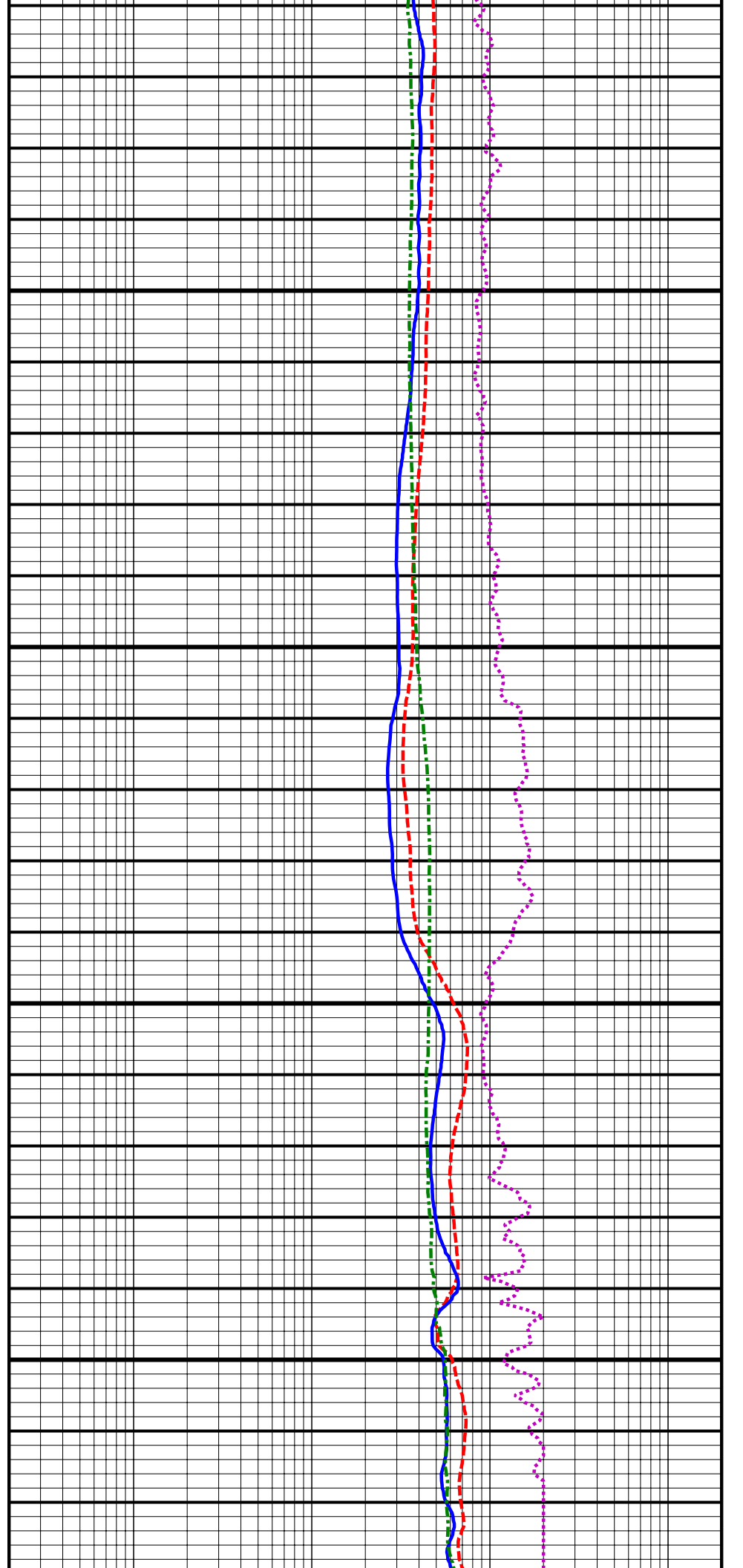
10100
MD

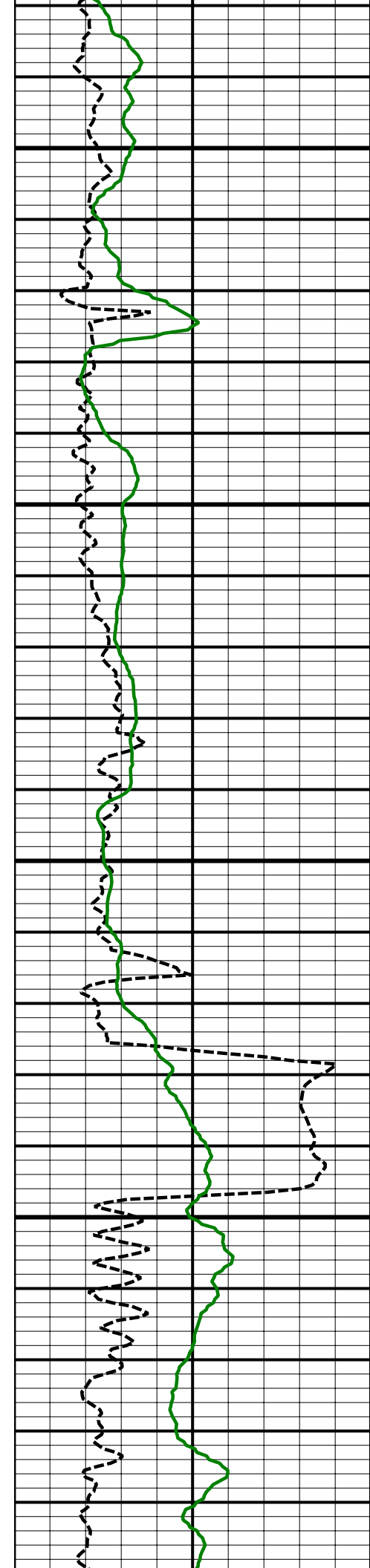




10200
MD

10300
MD

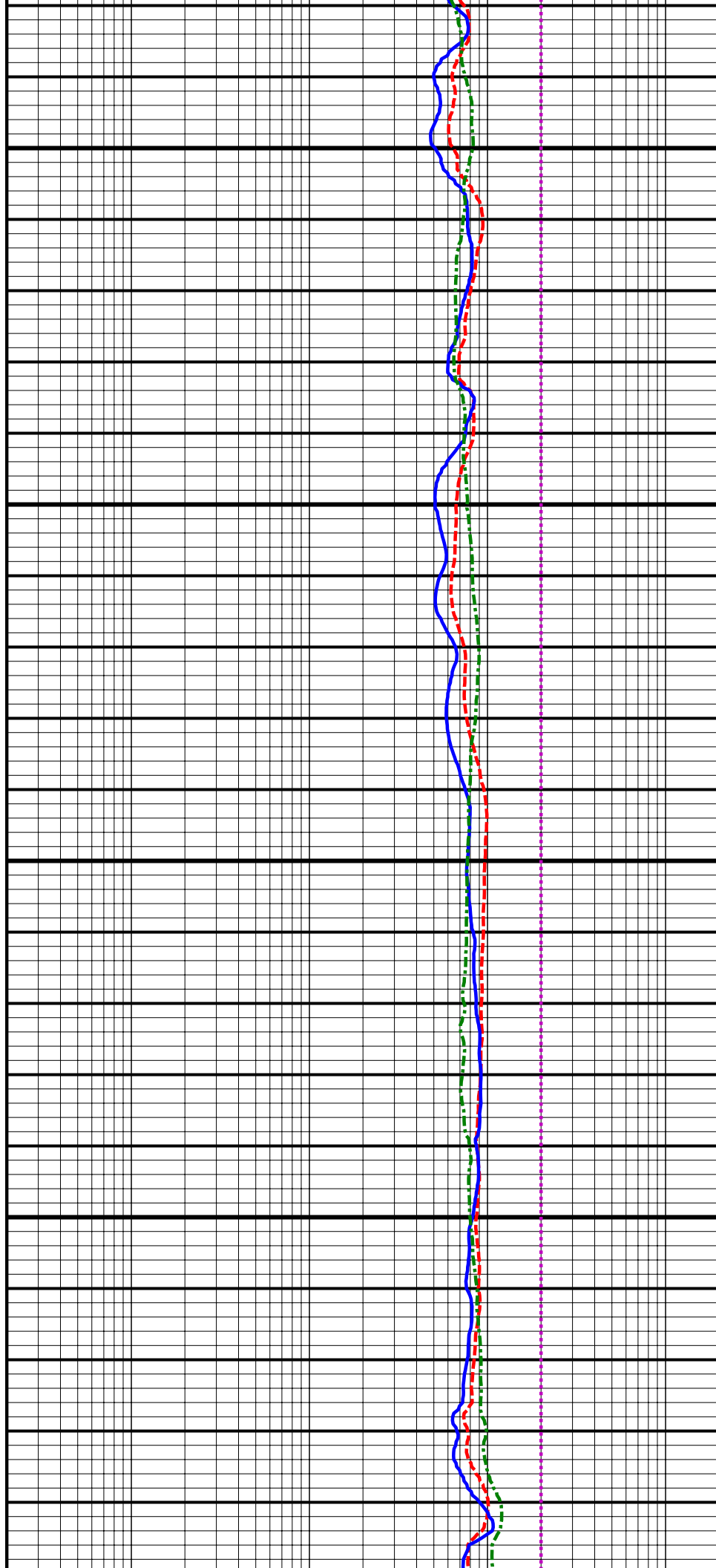


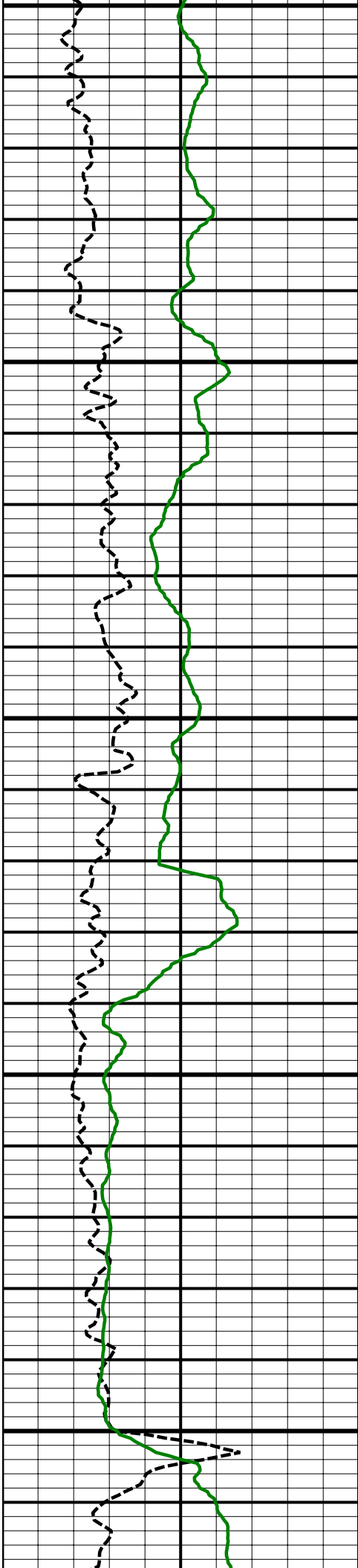


10400
MD

10500
MD

10000

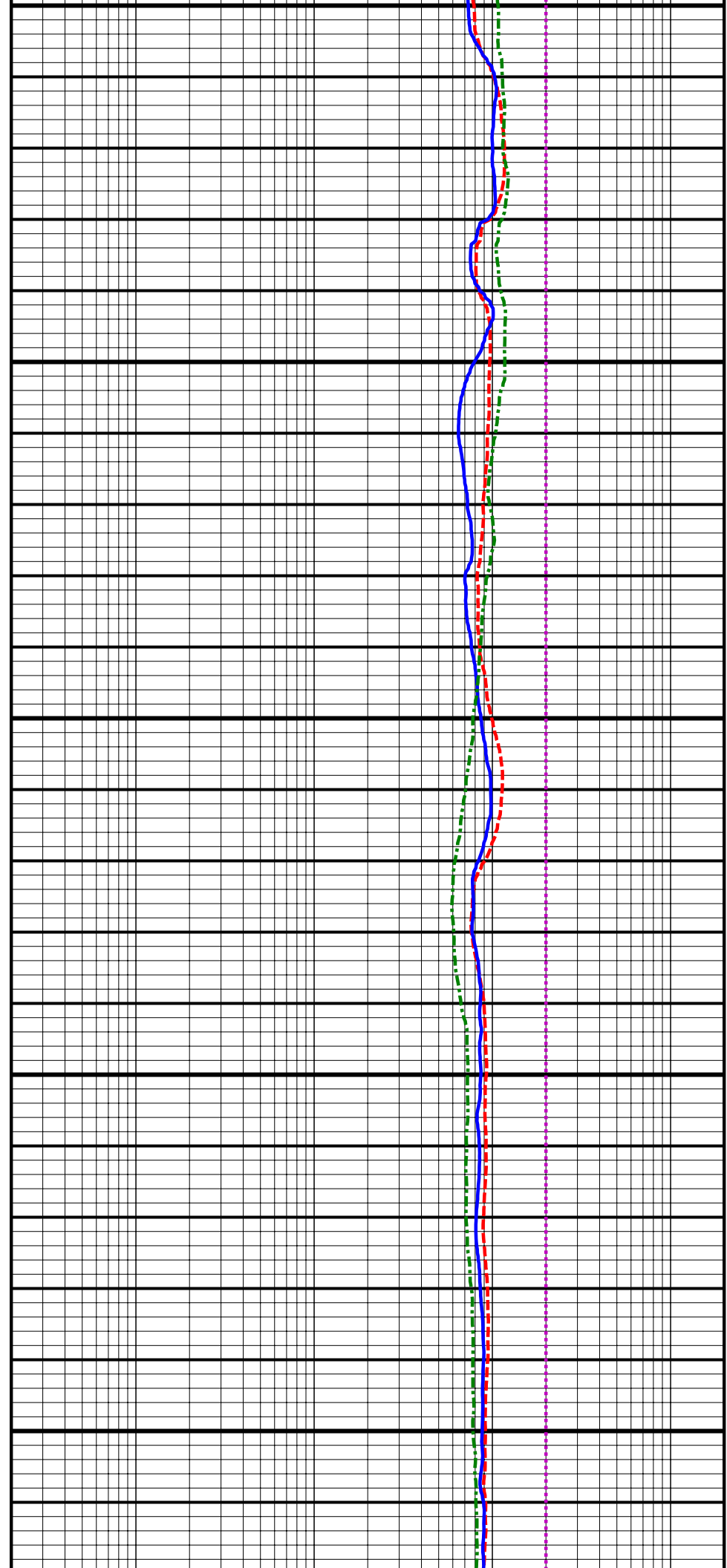


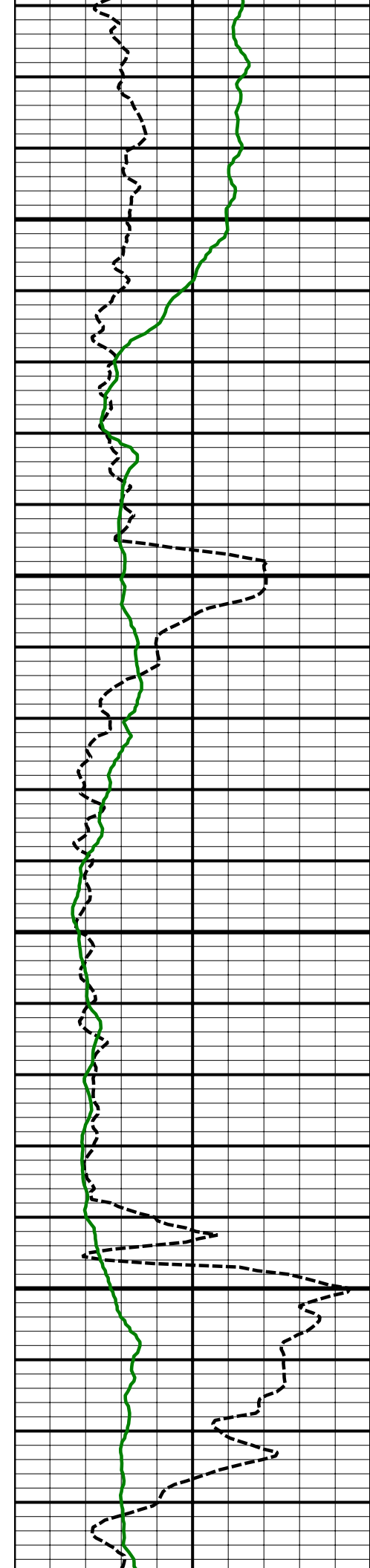


10600
MD

10700
MD

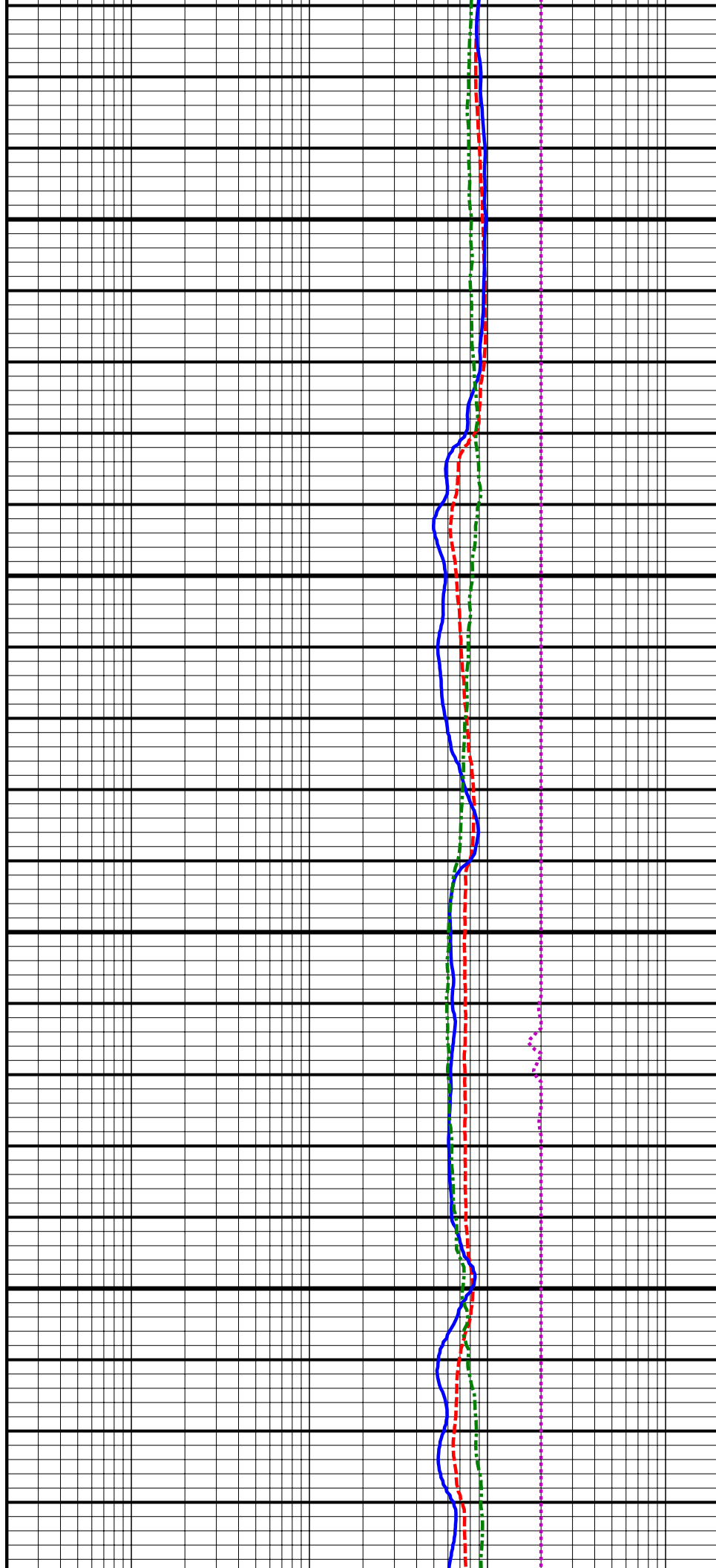
10800
MD

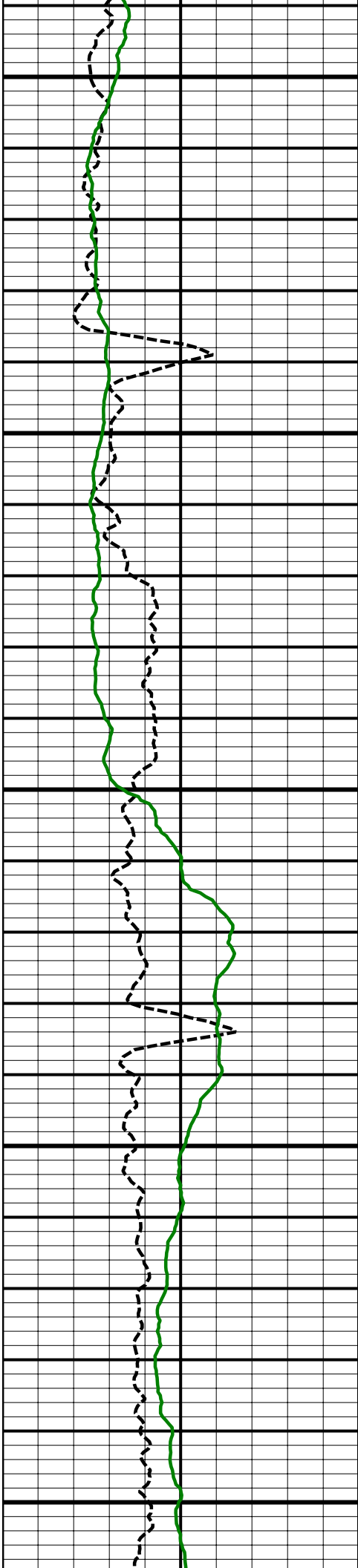




10900
MD

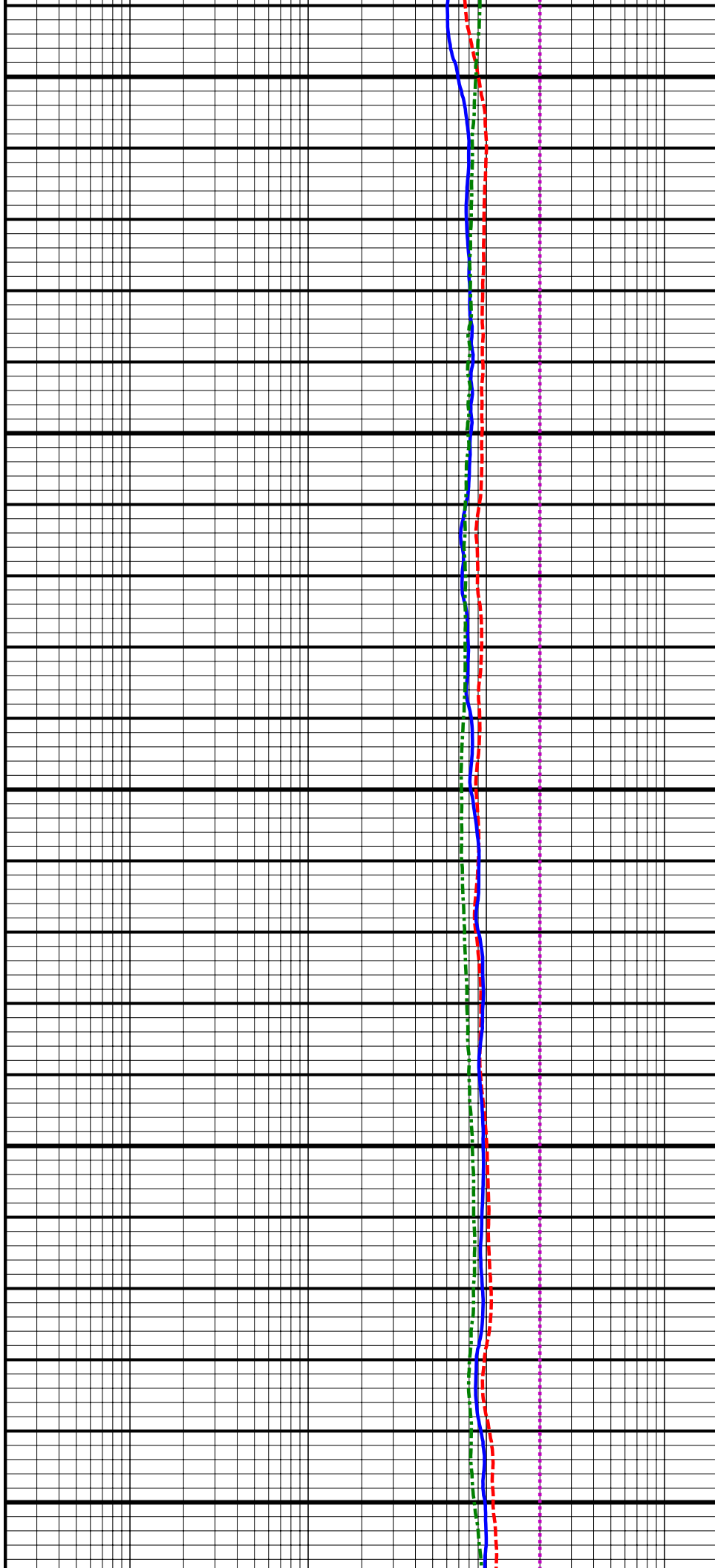
11000
MD

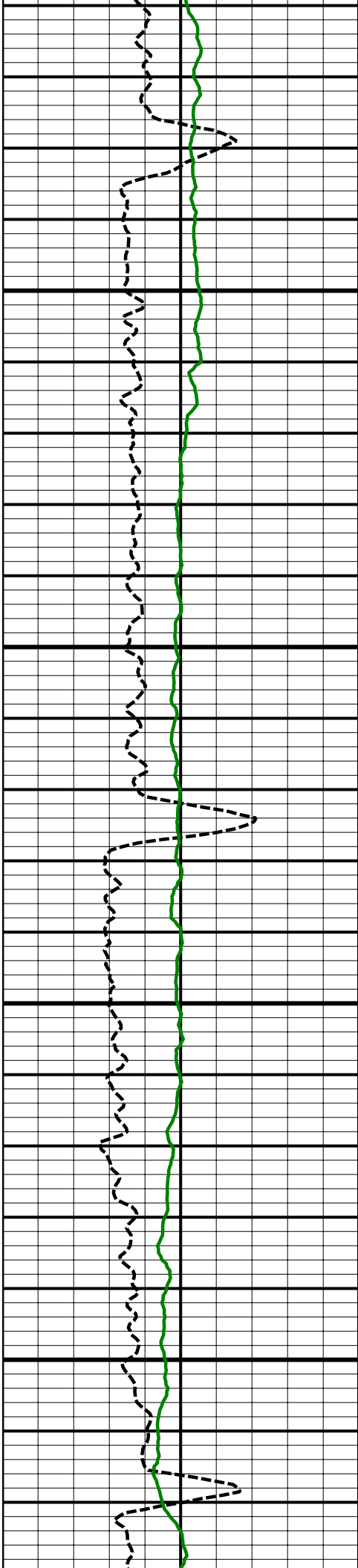




11100
MD

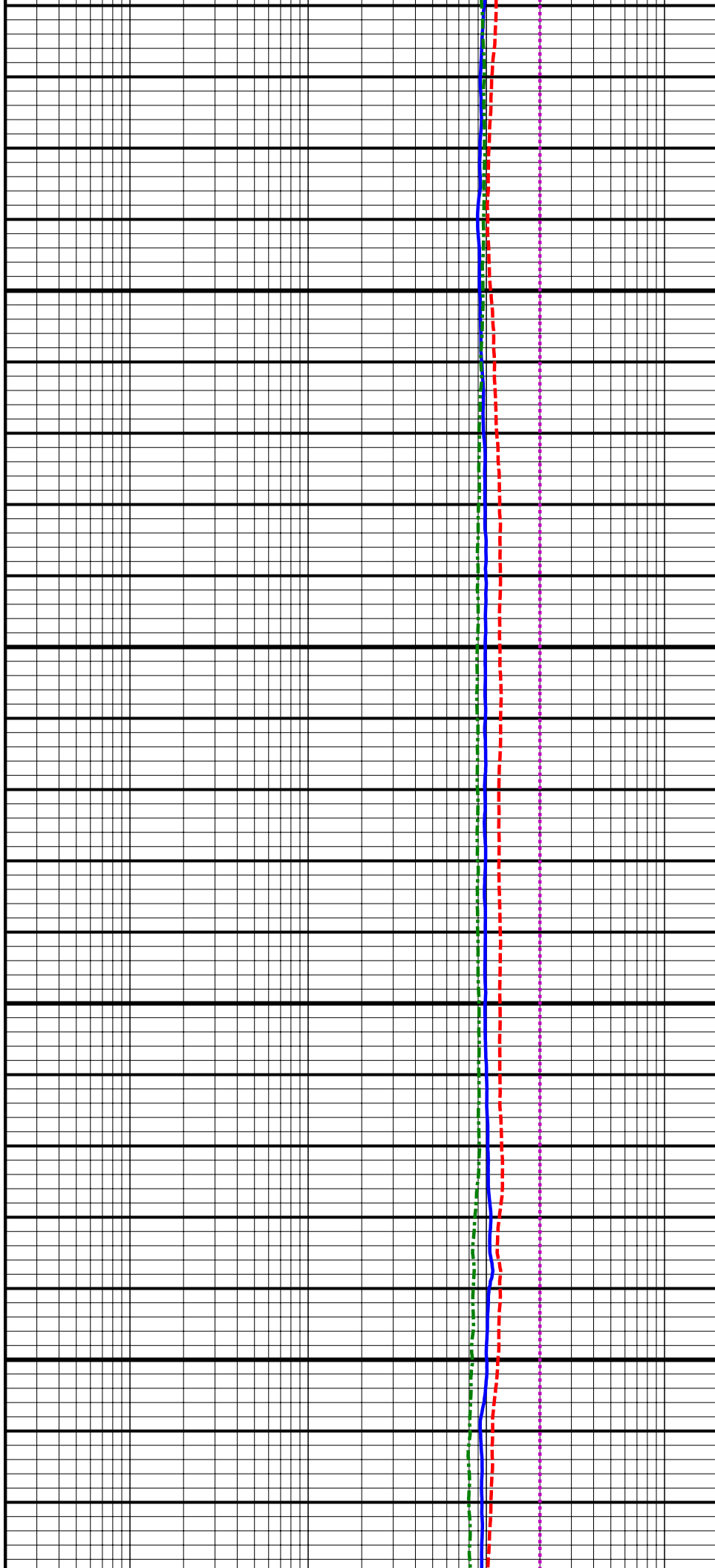
11200
MD

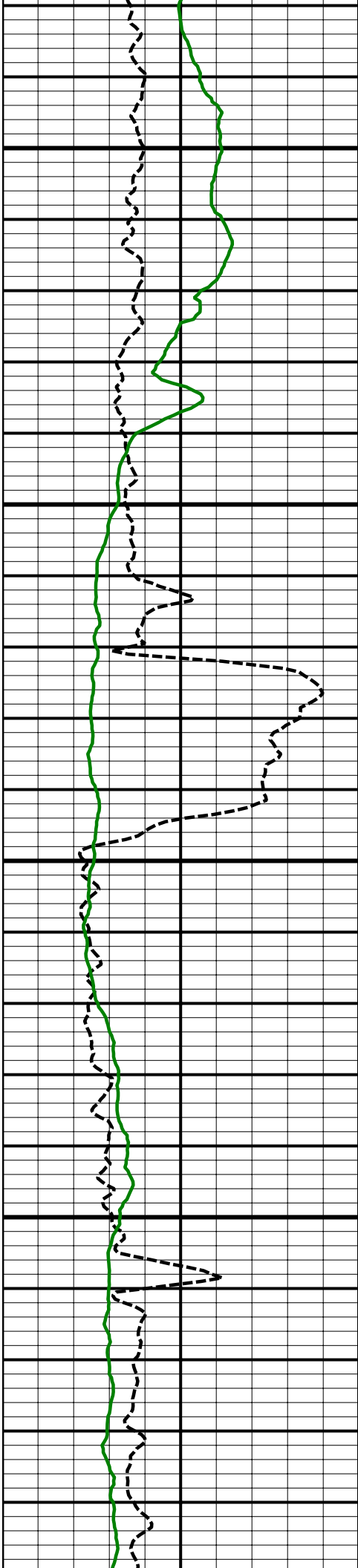




11300
MD

11400
MD

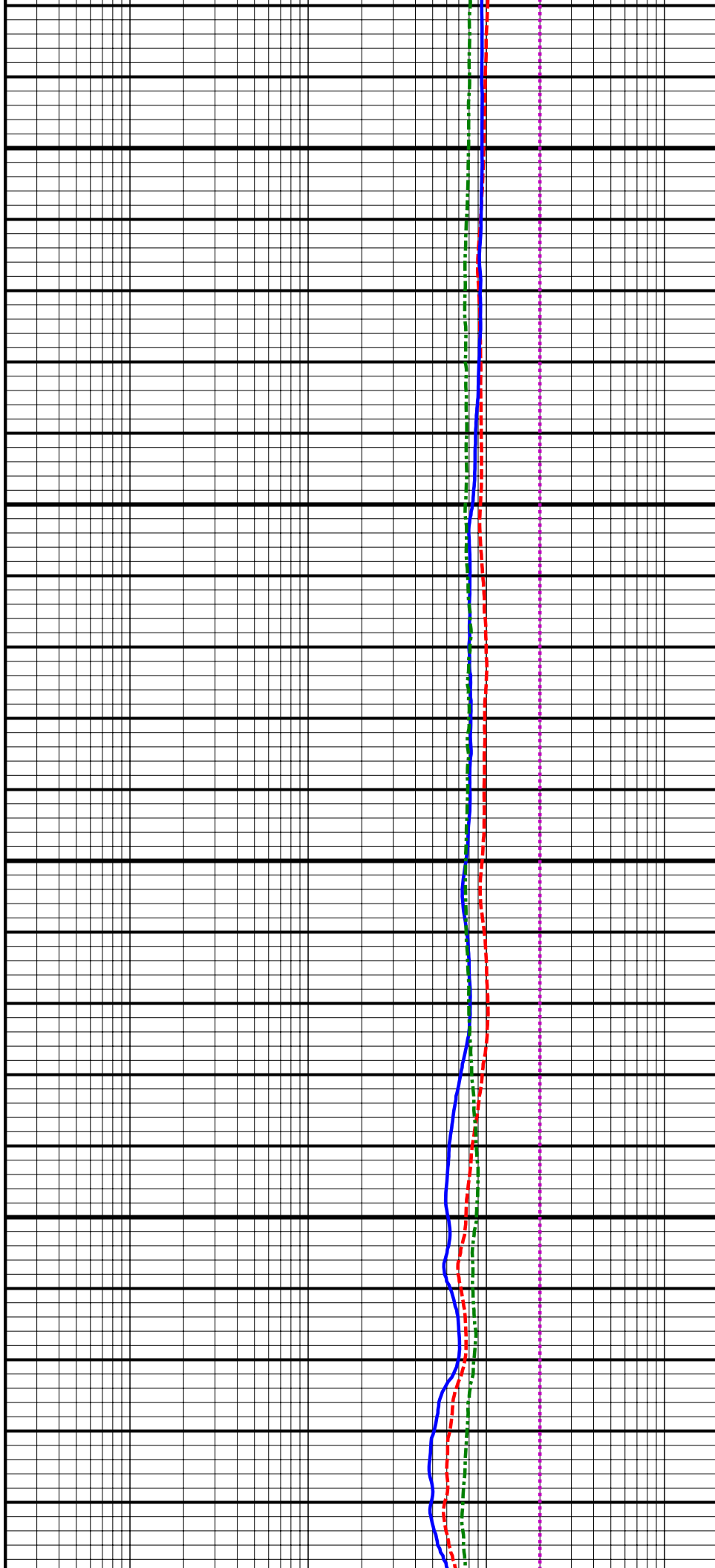


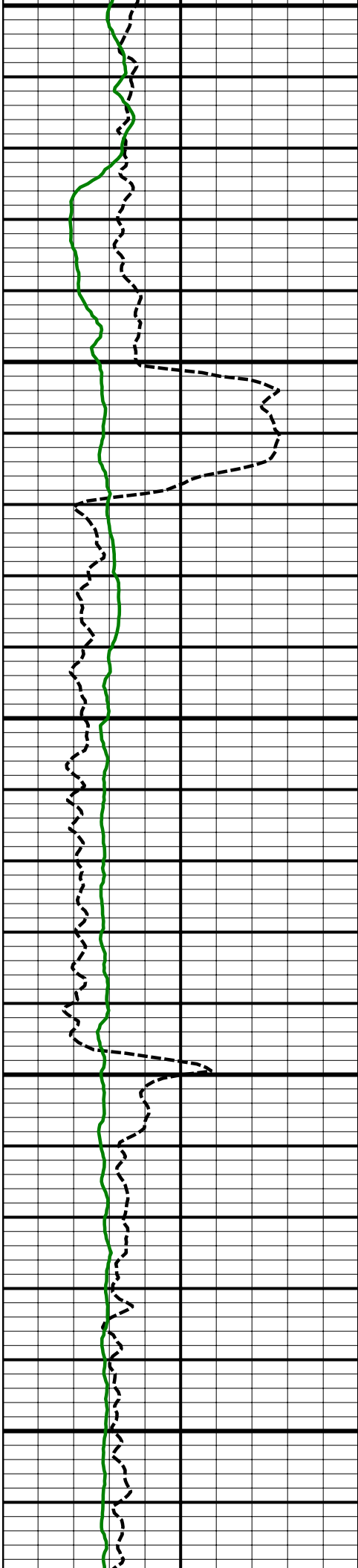


11500
MD

11600
MD

11700
MD

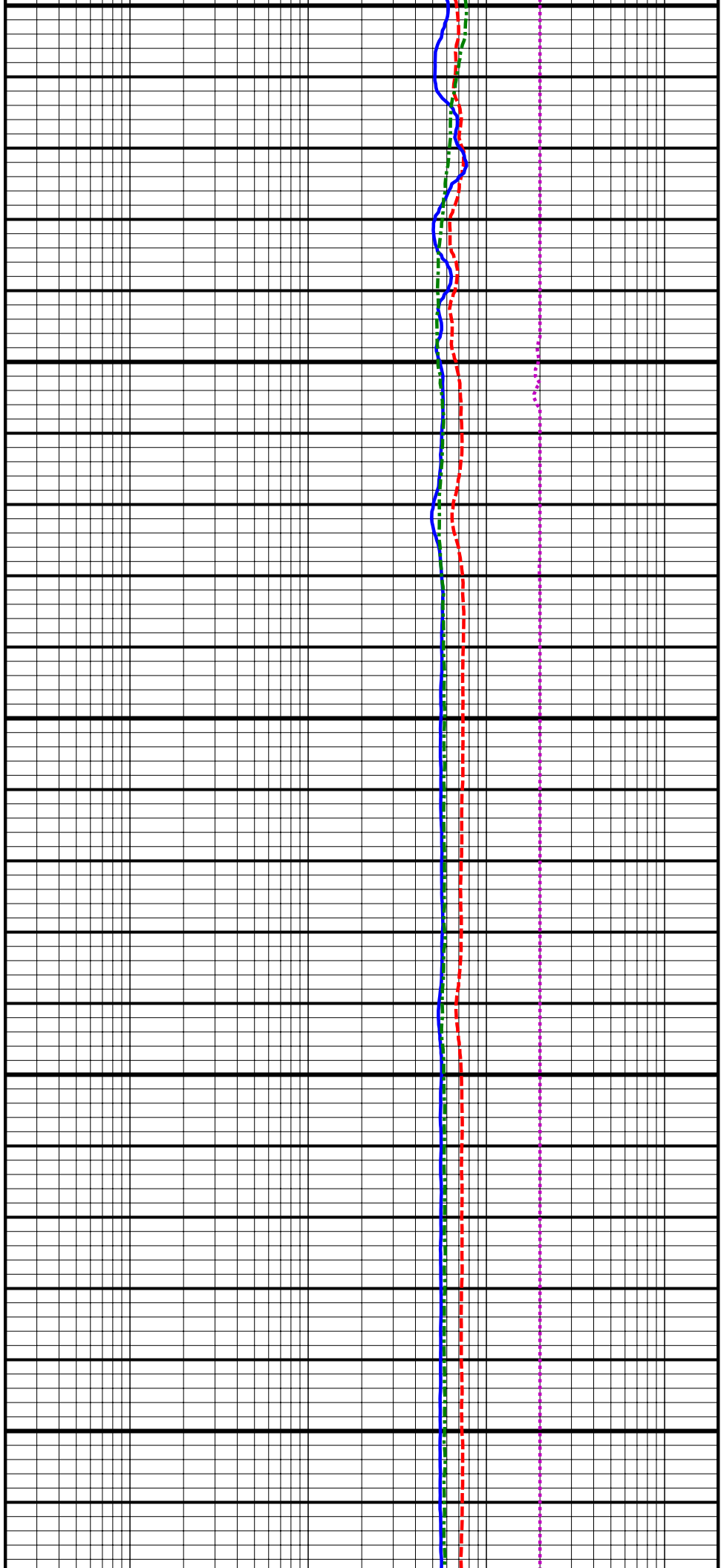


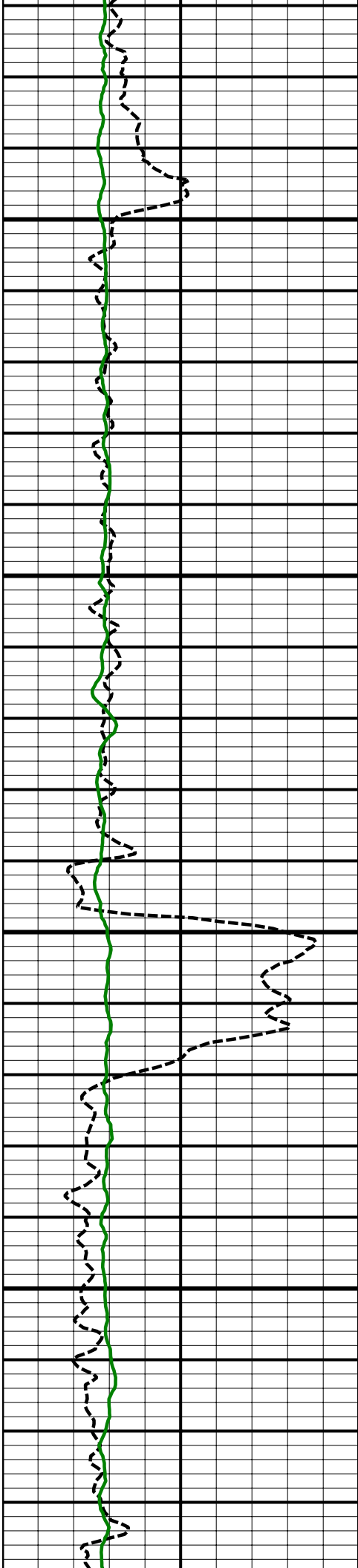


11700
MD

11800
MD

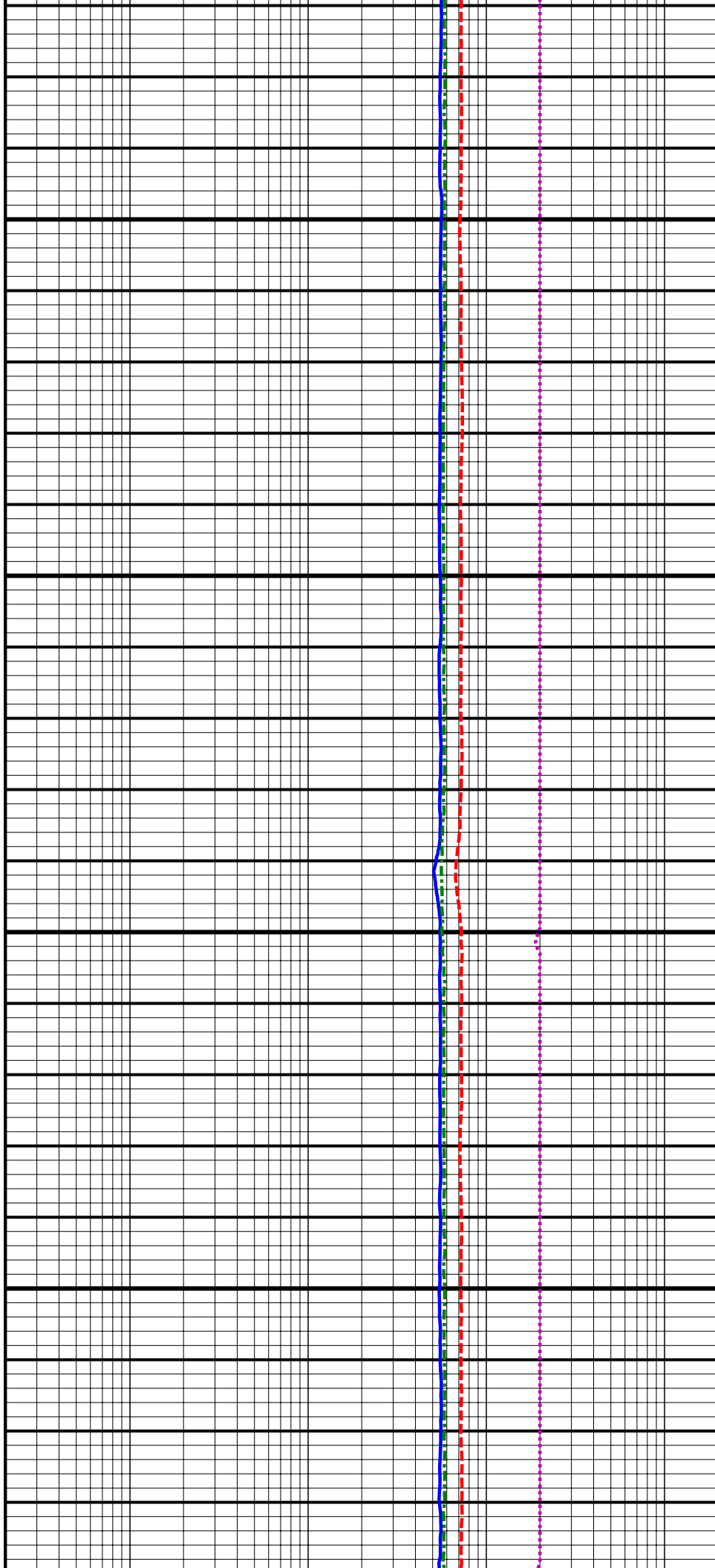
11900
MD

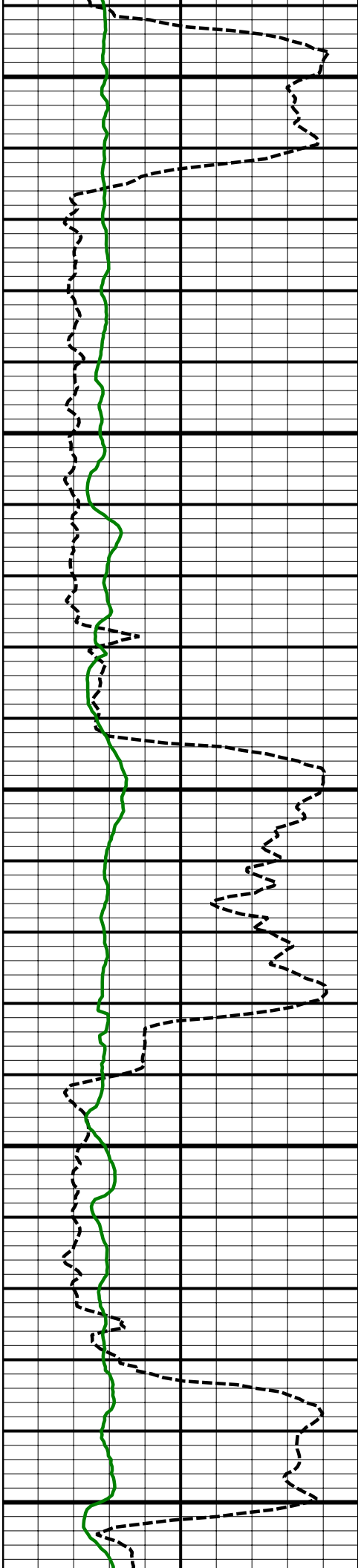




12000
MD

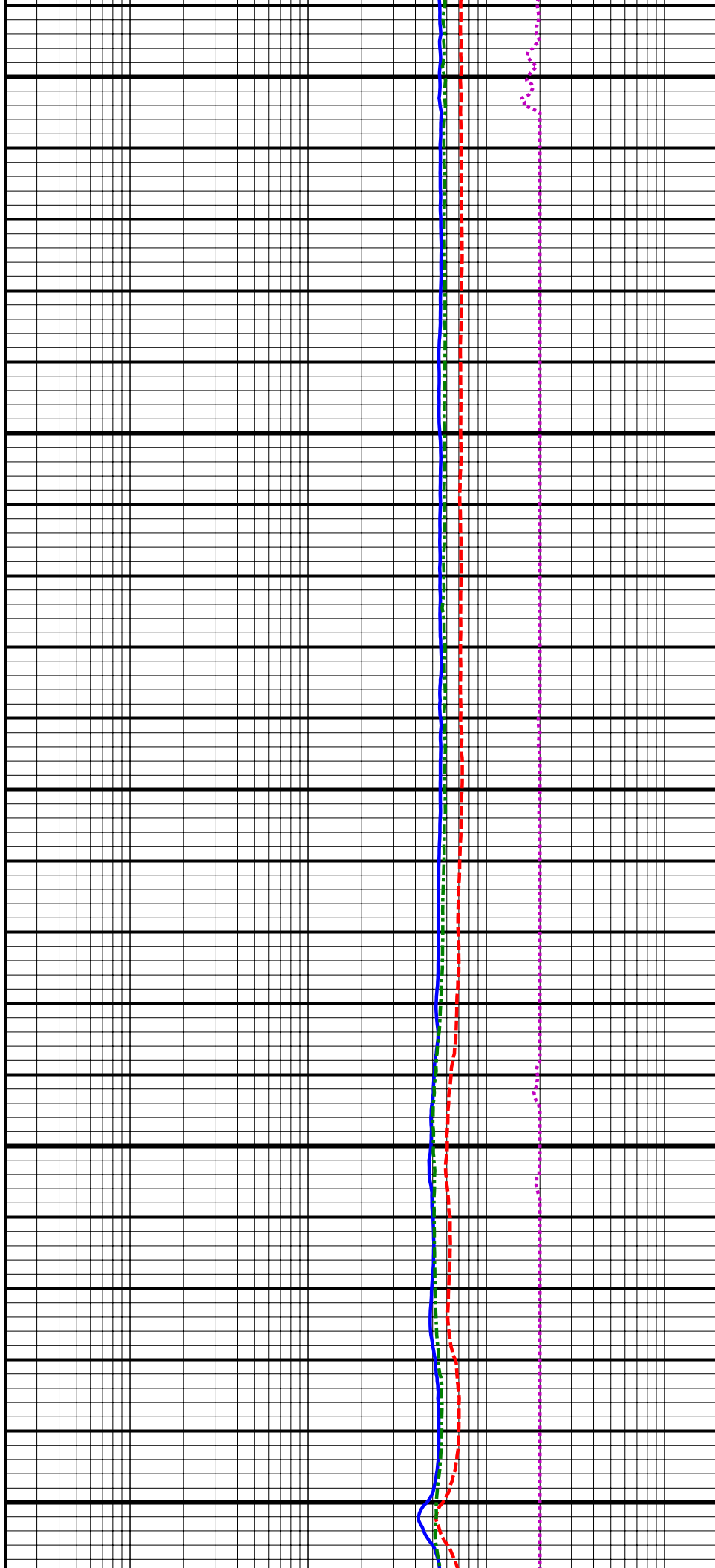
12100
MD

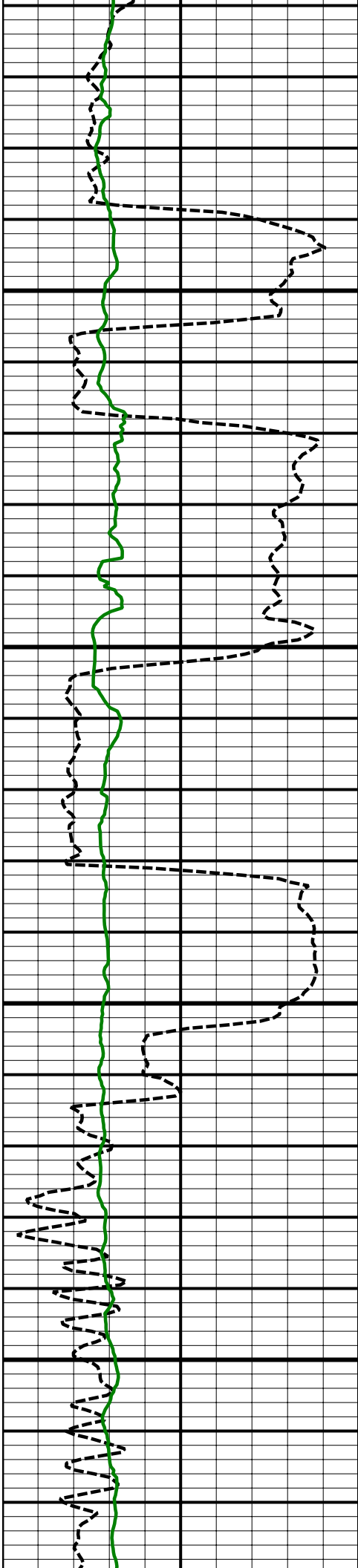




12200
MD

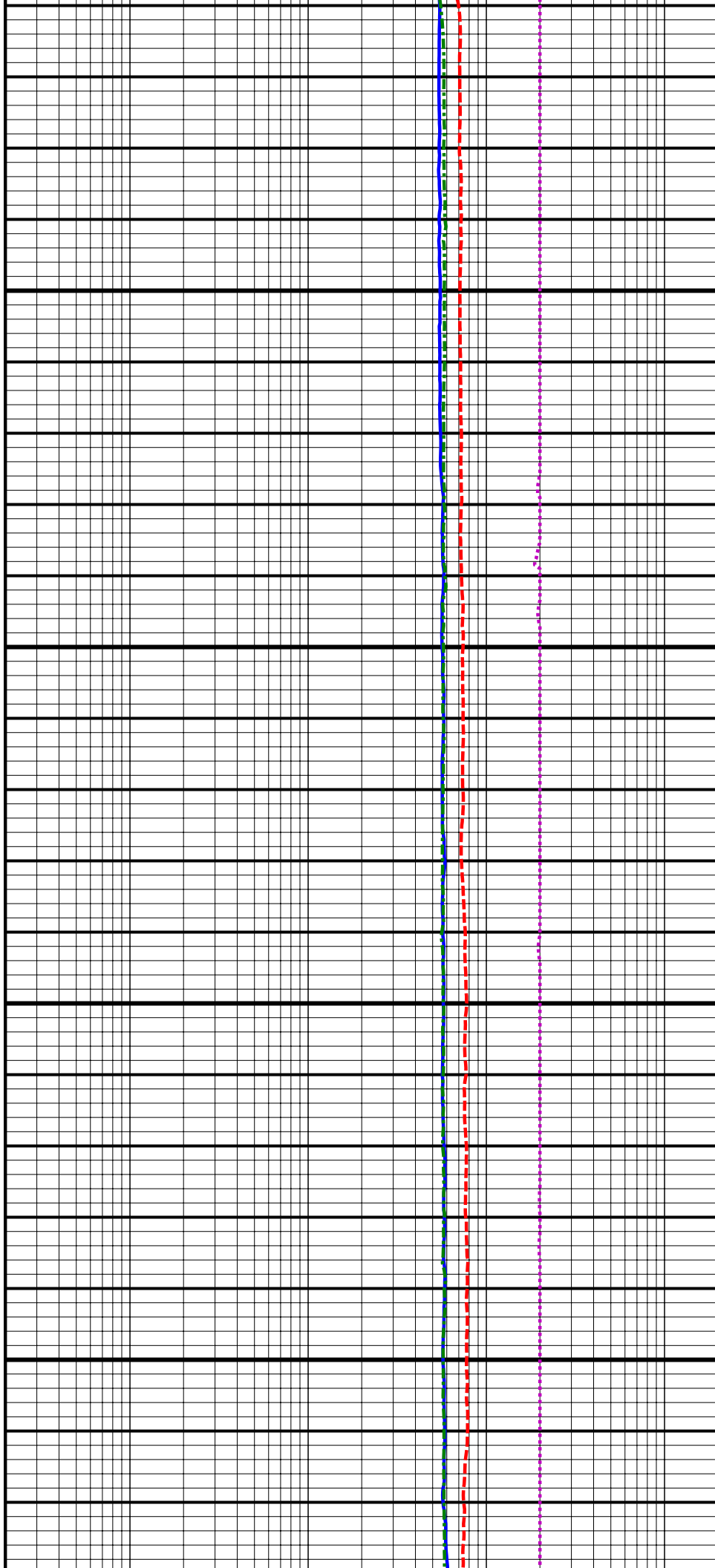
12300
MD

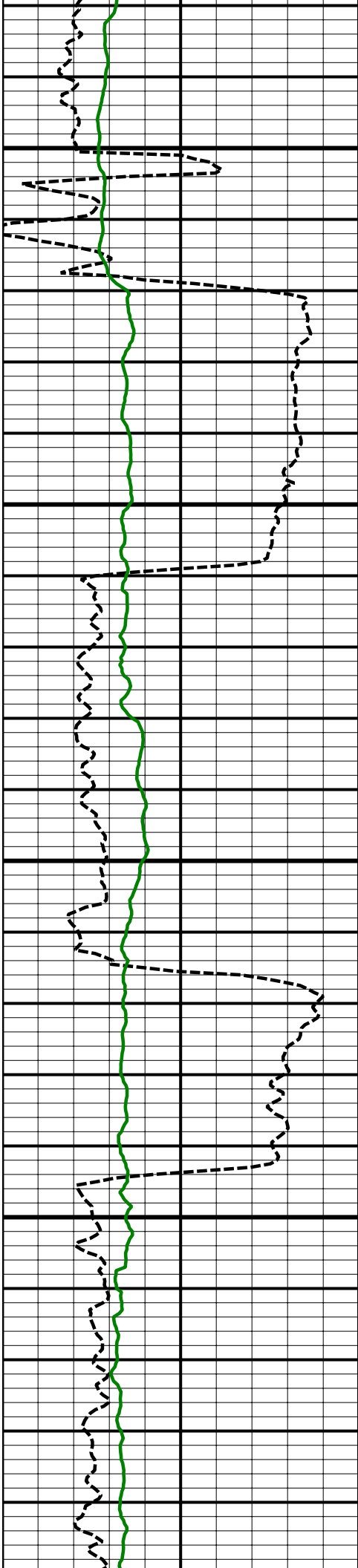




12400
MD

12500
MD

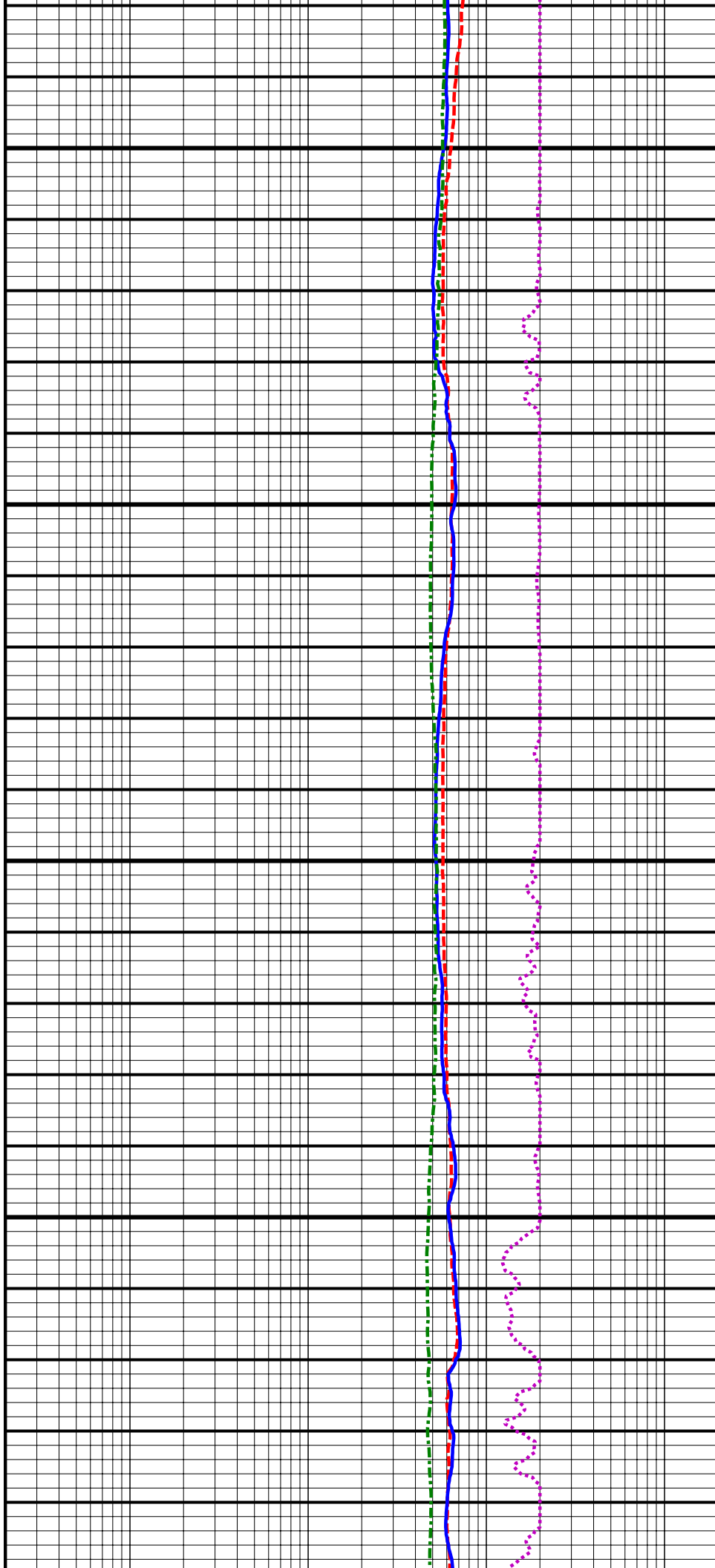


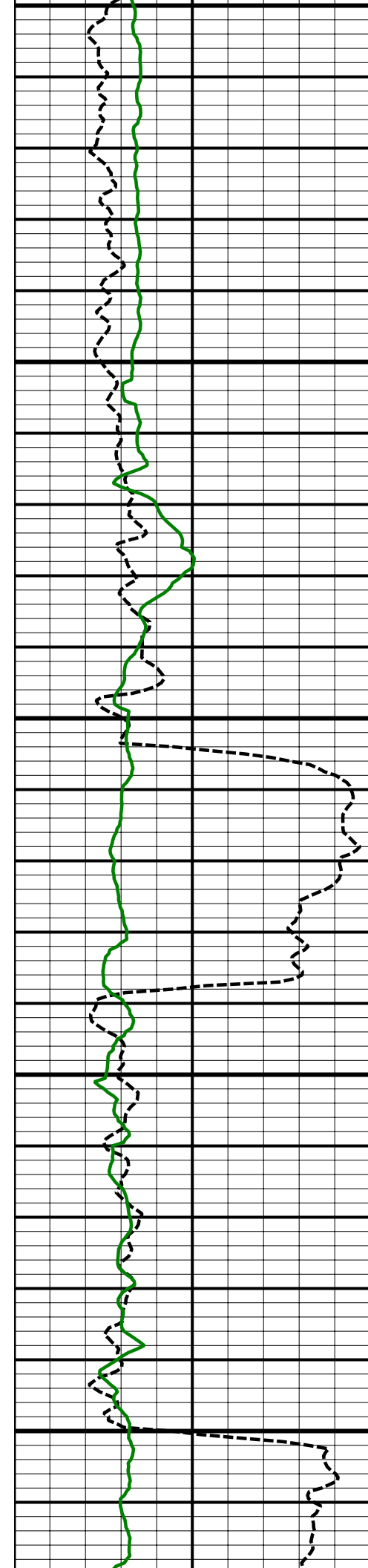


12600
MD

12700
MD

12800
MD

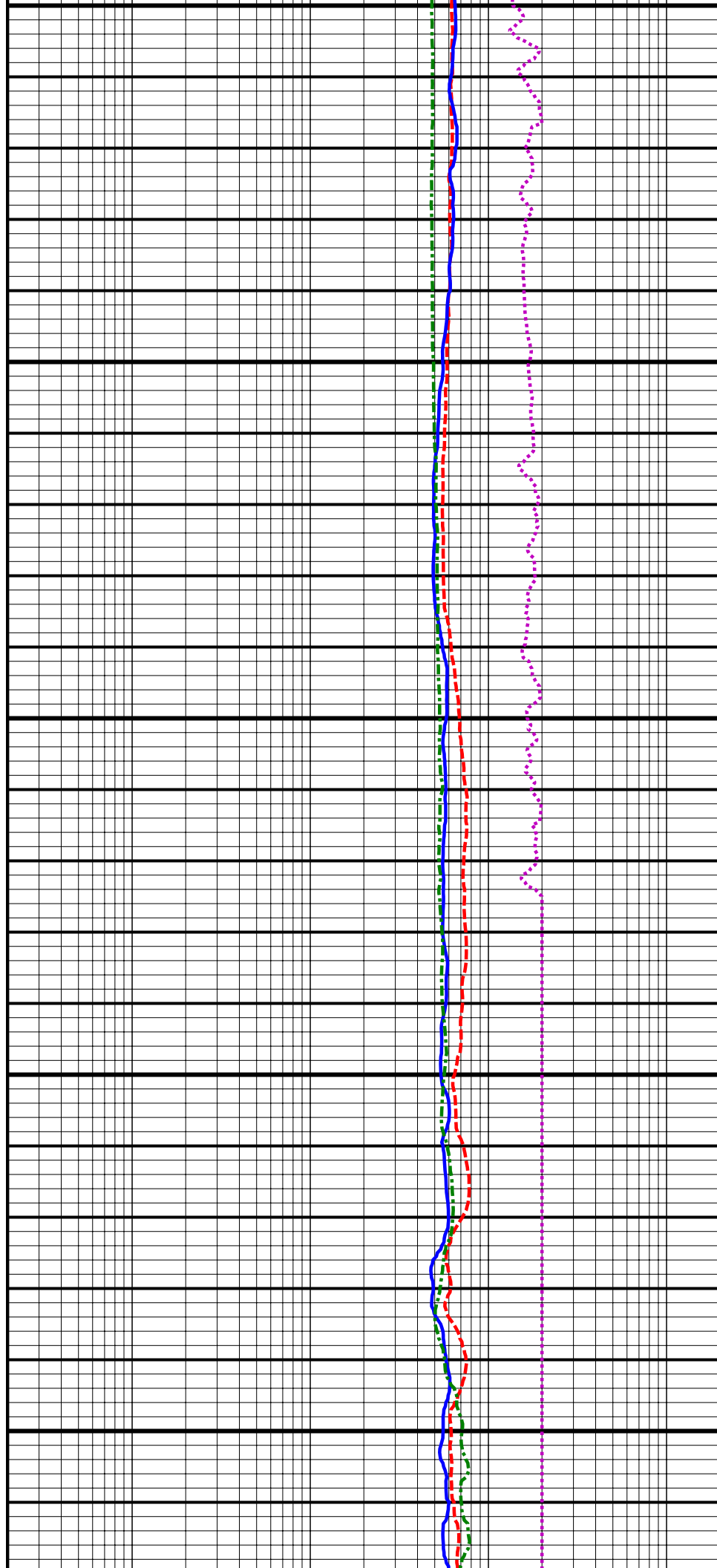


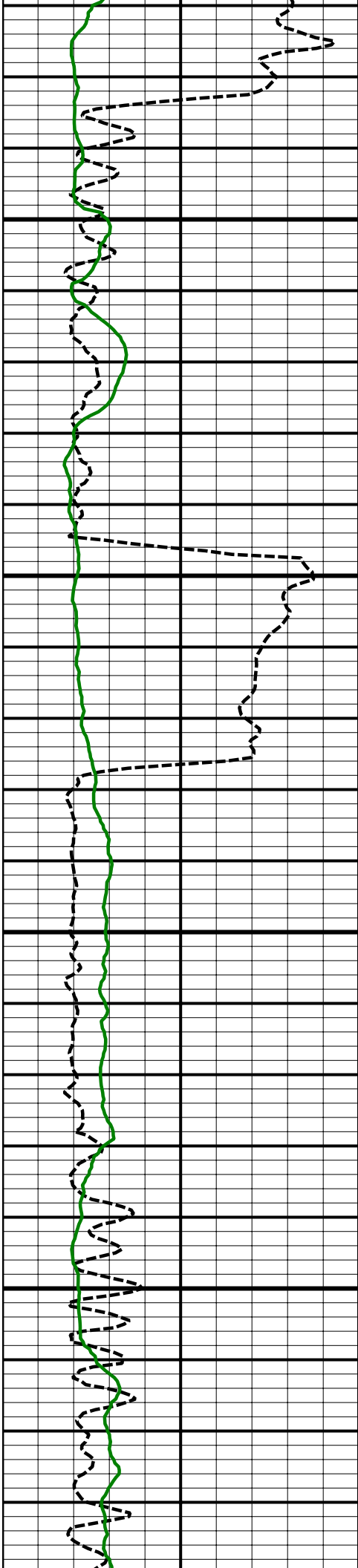


12800
MD

12900
MD

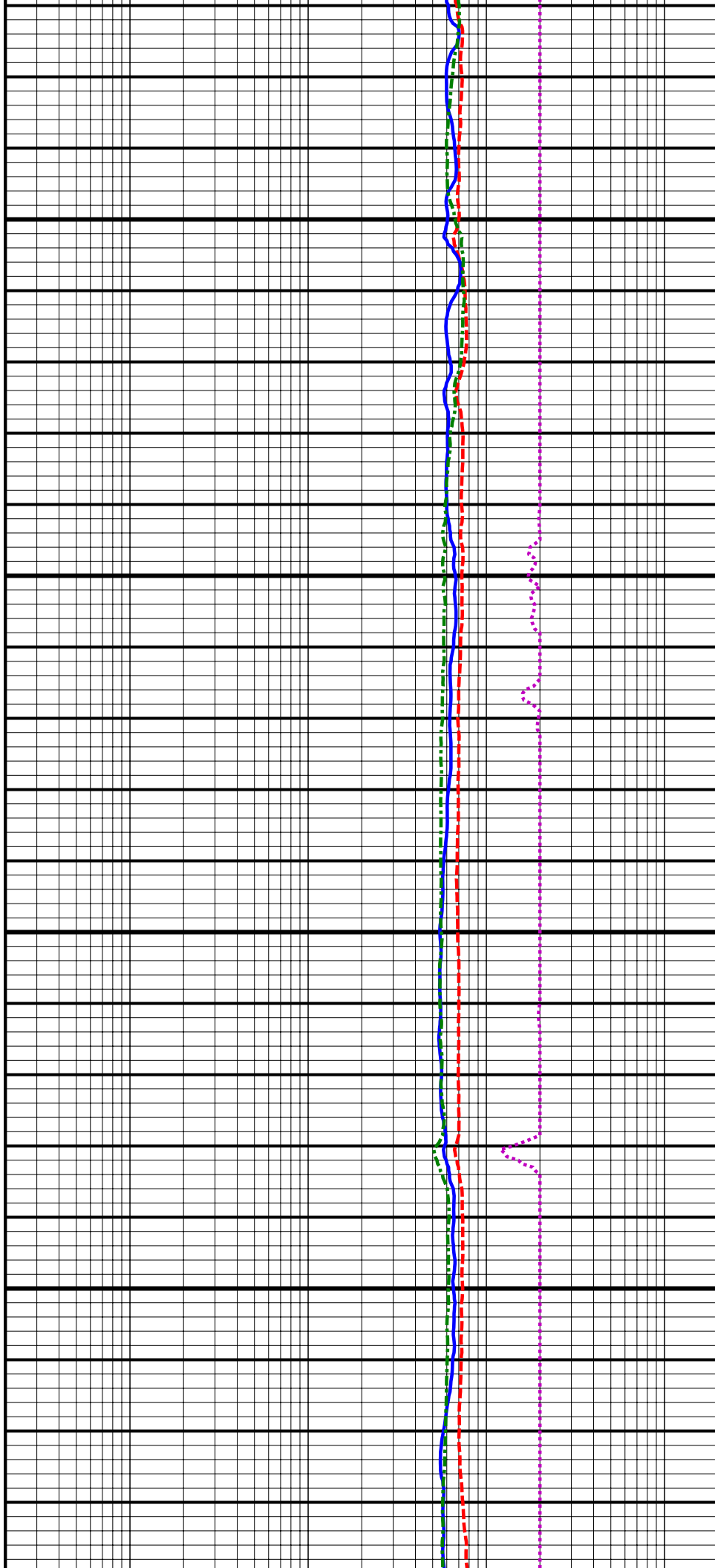
13000
MD

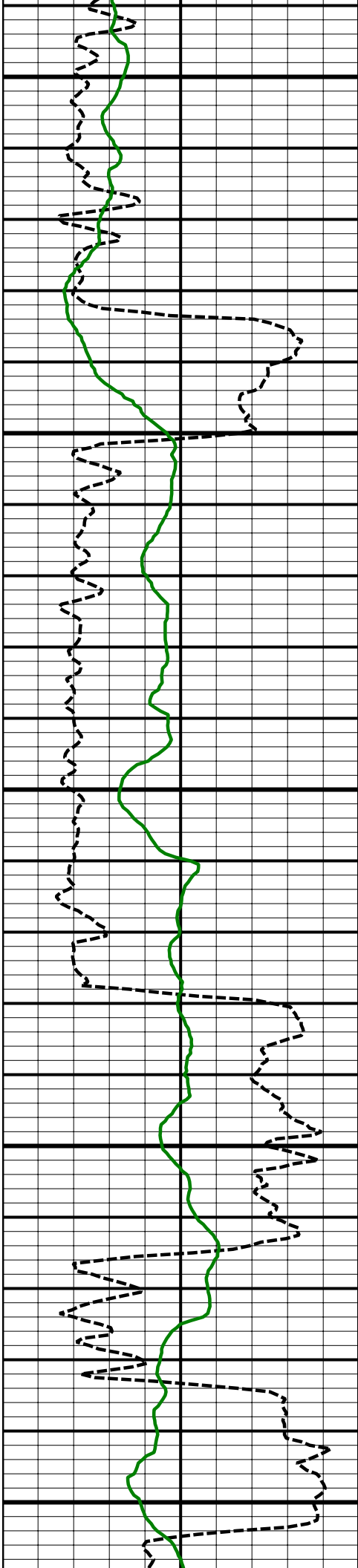




13100
MD

13200
MD

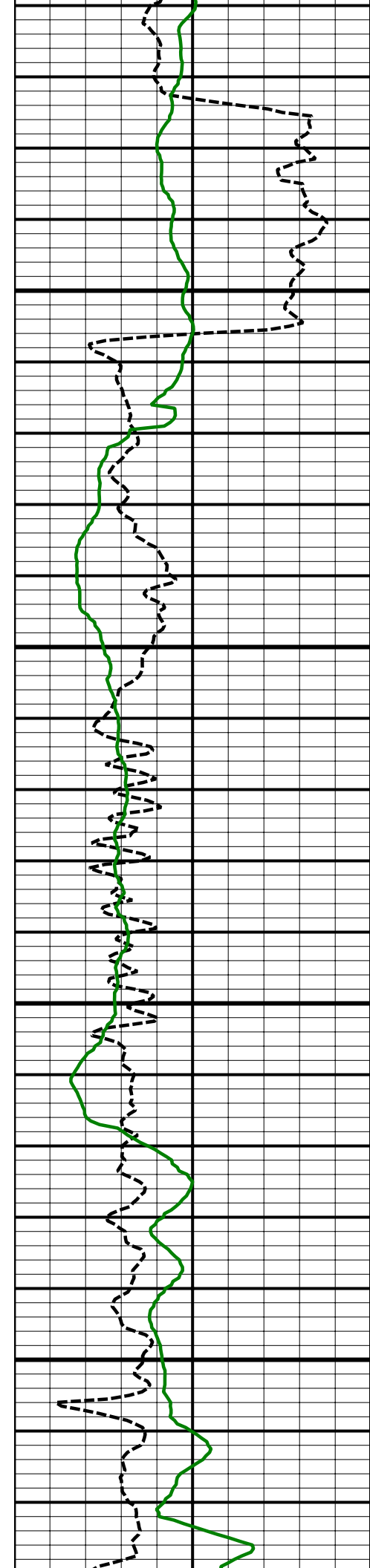




13300
MD

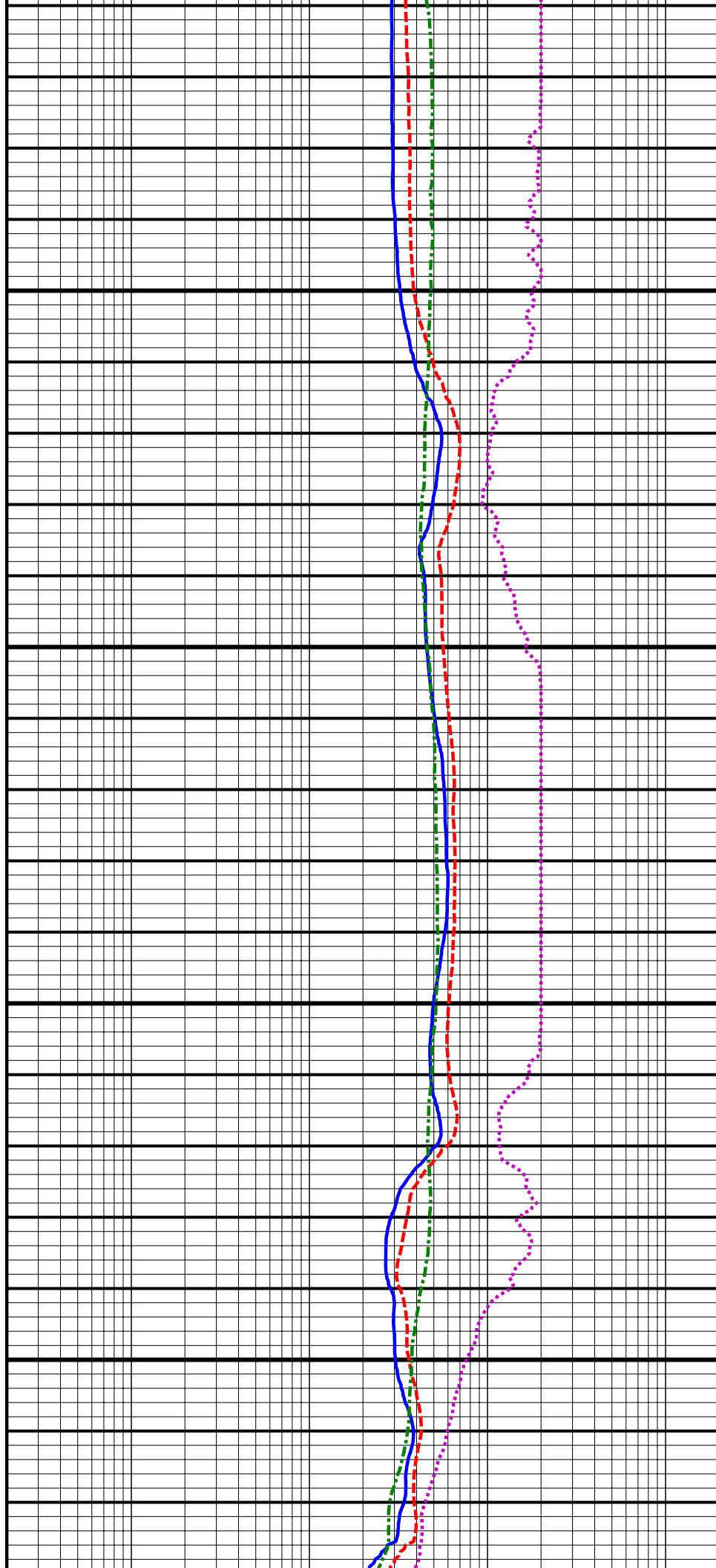
13400
MD

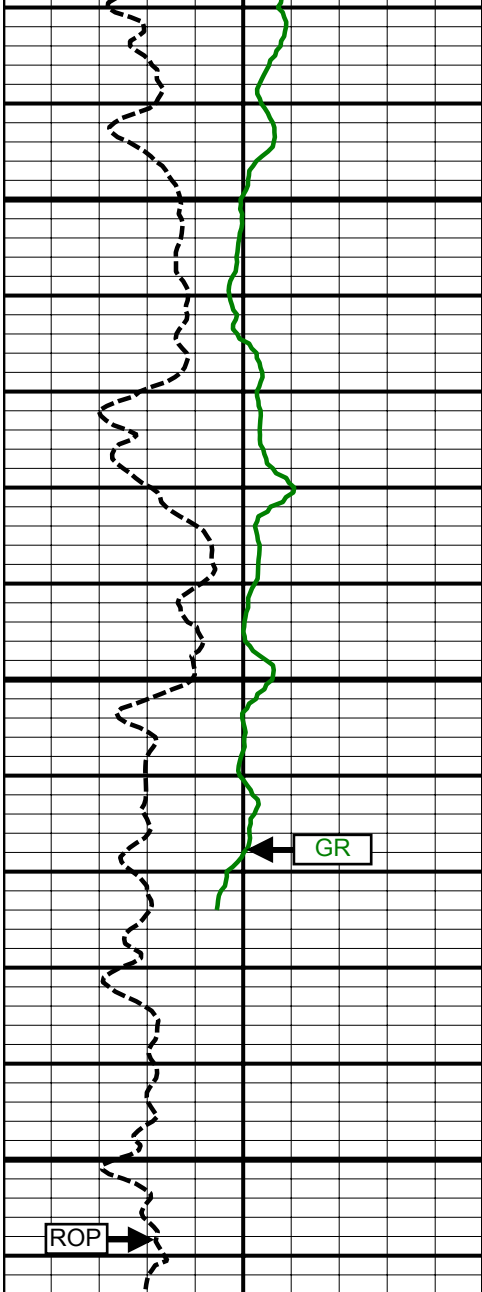




13500
MD

13600
MD

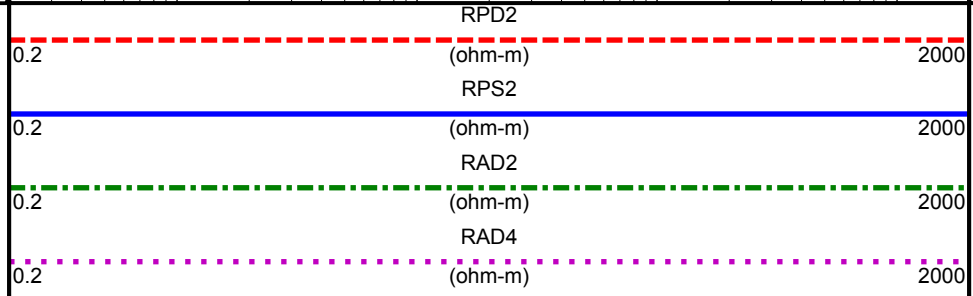
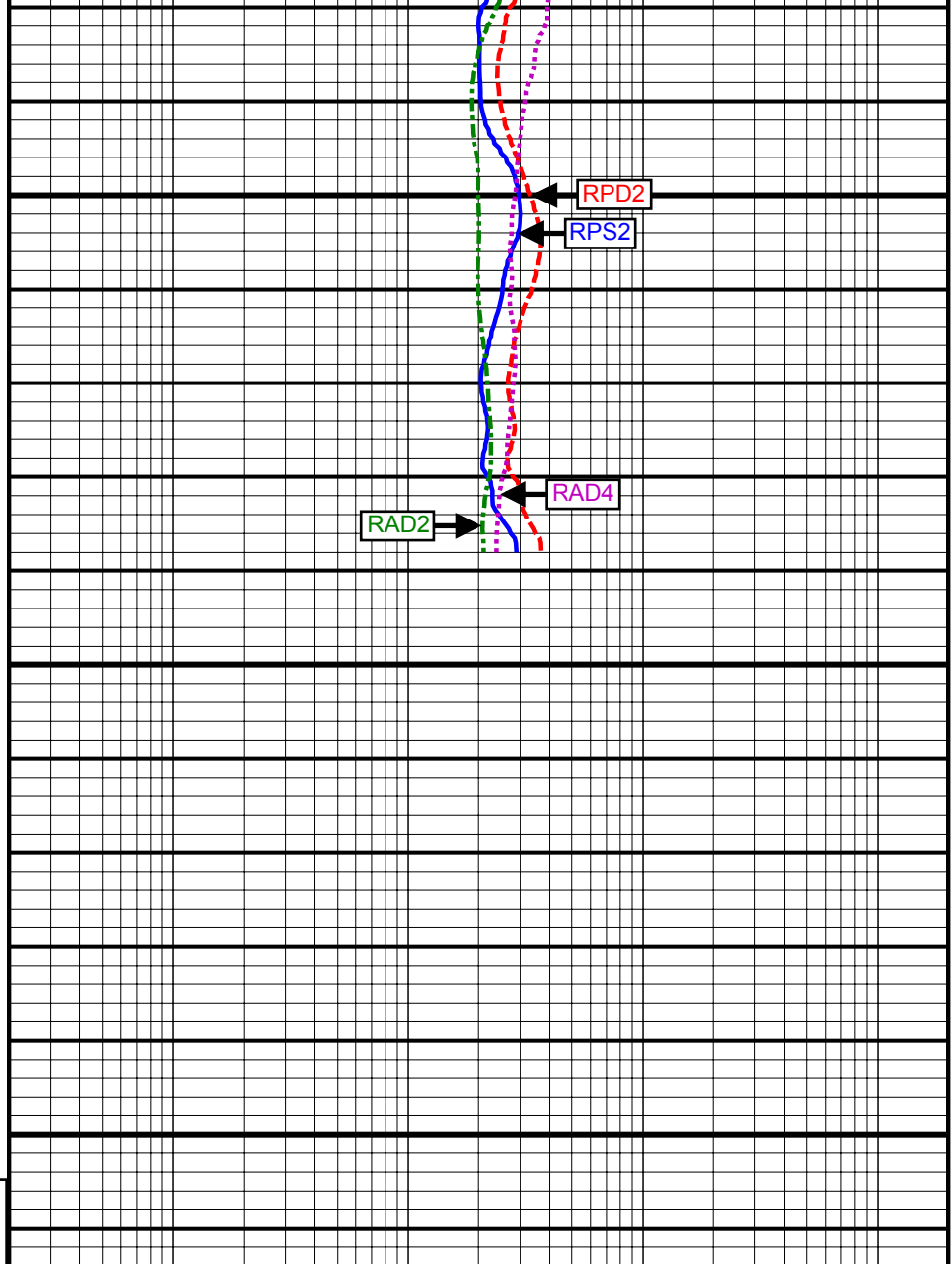
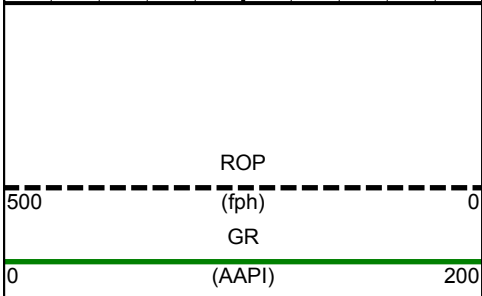




13700
MD

13800
MD

Comment
No. 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	354.81 deg	52867 nT	66.83 deg	8.67 deg	0.00 deg	8.67 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	800.00 ft	0.09 deg	302.87 deg	799.99 ft	0.81 ft	0.10 ft

Well Head							
Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	NS (ft)	EW (ft)	VSect (ft)	Dogleg (deg/100ft)
948.00	0.51	3.20	947.99	1.53	0.04	1.52	0.32
1040.00	0.41	346.29	1039.98	2.26	-0.02	2.25	0.18
1130.00	0.43	341.89	1129.98	2.89	-0.20	2.90	0.04
1221.00	0.63	349.67	1220.98	3.71	-0.39	3.73	0.23
1312.00	0.60	356.61	1311.97	4.68	-0.51	4.70	0.09
1403.00	0.59	353.32	1402.97	5.62	-0.59	5.65	0.04
1498.00	0.76	355.76	1497.96	6.73	-0.70	6.77	0.18
1593.00	0.84	349.60	1592.95	8.05	-0.87	8.09	0.12
1687.00	0.70	162.69	1686.95	8.18	-0.82	8.22	1.64
1783.00	0.89	174.88	1782.94	6.87	-0.58	6.90	0.26
1877.00	1.07	181.96	1876.93	5.27	-0.55	5.30	0.23
1972.00	1.32	179.89	1971.91	3.29	-0.58	3.33	0.27
2067.00	0.35	169.97	2066.89	1.91	-0.52	1.95	1.03
2162.00	0.45	9.68	2161.89	1.99	-0.41	2.02	0.83
2257.00	1.50	32.63	2256.88	3.41	0.32	3.36	1.16
2351.00	0.07	189.74	2350.87	4.38	0.98	4.28	1.66
2447.00	0.47	210.19	2446.87	3.99	0.77	3.90	0.42
2542.00	0.70	228.74	2541.86	3.27	0.14	3.24	0.31
2636.00	1.05	232.42	2635.85	2.36	-0.98	2.44	0.38
2731.00	0.77	224.45	2730.84	1.38	-2.11	1.56	0.32
2826.00	1.16	203.26	2825.83	0.04	-2.94	0.30	0.55
2921.00	1.23	198.87	2920.80	-1.81	-3.65	-1.47	0.12
3016.00	0.56	243.23	3015.79	-2.98	-4.39	-2.58	0.97
3110.00	0.64	224.27	3109.79	-3.57	-5.17	-3.09	0.23
3205.00	0.66	229.98	3204.78	-4.30	-5.96	-3.74	0.07
3300.00	1.33	270.25	3299.77	-4.65	-7.48	-3.95	0.98
3395.00	1.95	279.59	3394.73	-4.37	-10.18	-3.43	0.71
3490.00	2.61	279.32	3489.65	-3.75	-13.91	-2.48	0.69
3585.00	4.41	294.59	3584.47	-1.88	-19.36	-0.12	2.12
3680.00	5.72	292.78	3679.10	1.47	-27.05	3.91	1.39
3774.00	5.95	283.62	3772.62	4.43	-36.10	7.68	1.02
3869.00	7.47	291.14	3866.96	7.82	-46.65	12.01	1.84
3964.00	5.97	286.09	3961.31	11.42	-57.16	16.54	1.70
4059.00	7.85	286.19	4055.62	14.59	-68.13	20.70	1.98
4154.00	6.96	288.43	4149.82	18.22	-79.83	25.37	0.98
4249.00	5.36	284.03	4244.27	21.12	-89.59	29.14	1.75
4345.00	7.29	286.18	4339.68	23.90	-99.79	32.83	2.03
4439.00	6.98	283.37	4432.95	26.88	-111.08	36.82	0.50
4534.00	5.88	283.64	4527.36	29.37	-121.42	40.23	1.16
4629.00	7.53	291.36	4621.70	32.78	-131.95	44.58	1.98
4724.00	7.10	293.85	4715.93	37.42	-143.12	50.22	0.56
4819.00	6.81	287.26	4810.23	41.47	-153.86	55.22	0.89

4914.00	7.78	278.47	4904.47	44.09	-165.60	58.89	1.55
5010.00	5.93	272.58	4999.78	45.27	-176.99	61.09	2.06
5104.00	6.61	276.97	5093.21	46.14	-187.21	62.89	0.88
5200.00	7.44	279.65	5188.49	47.86	-198.82	65.64	0.93
5294.00	7.87	285.27	5281.66	50.57	-211.03	69.45	0.92
5388.00	5.47	285.39	5375.01	53.45	-221.56	73.28	2.55
5483.00	6.74	281.94	5469.47	55.81	-231.38	76.51	1.39
5578.00	5.35	281.02	5563.94	57.81	-241.18	79.39	1.47
5672.00	4.71	282.36	5657.58	59.47	-249.25	81.78	0.69
5767.00	4.39	284.01	5752.28	61.19	-256.59	84.15	0.36
5862.00	3.08	283.68	5847.08	62.67	-262.60	86.17	1.38
5957.00	3.12	279.12	5941.94	63.69	-267.63	87.63	0.26
6052.00	2.31	270.52	6036.83	64.11	-272.10	88.46	0.95
6146.00	1.62	276.03	6130.78	64.27	-275.31	88.91	0.76
6241.00	1.40	277.84	6225.74	64.57	-277.80	89.43	0.24
6336.00	1.41	279.89	6320.71	64.93	-280.10	90.00	0.05
6396.00	1.85	288.71	6380.69	65.37	-281.74	90.58	0.84
6431.00	2.12	289.89	6415.67	65.77	-282.89	91.09	0.78
6462.00	3.02	332.36	6446.64	66.69	-283.80	92.08	6.59
6494.00	4.71	348.44	6478.57	68.72	-284.46	94.17	6.22
6525.00	6.75	354.24	6509.41	71.78	-284.90	97.26	6.83
6557.00	8.57	355.80	6541.12	76.03	-285.26	101.52	5.72
6590.00	10.00	358.15	6573.69	81.35	-285.53	106.84	4.48
6622.00	12.99	359.25	6605.04	87.72	-285.67	113.20	9.37
6654.00	15.54	8.78	6636.06	95.55	-285.06	120.95	10.81
6685.00	19.15	11.12	6665.65	104.65	-283.45	129.86	11.86
6717.00	23.66	6.42	6695.43	116.19	-281.72	141.20	15.07
6749.00	25.97	4.49	6724.48	129.56	-280.45	154.39	7.65
6781.00	25.22	3.09	6753.34	143.35	-279.53	168.05	3.01
6812.00	25.63	0.73	6781.34	156.65	-279.09	181.25	3.53
6844.00	30.30	358.29	6809.59	171.65	-279.24	196.20	15.02
6875.00	33.25	357.39	6835.94	187.96	-279.86	212.50	9.64
6907.00	35.56	357.96	6862.34	206.02	-280.60	230.56	7.29
6939.00	38.33	357.04	6887.92	225.23	-281.44	249.77	8.83
6970.00	41.22	356.40	6911.74	245.03	-282.58	269.59	9.42
7002.00	43.39	356.44	6935.40	266.53	-283.92	291.12	6.78
7033.00	45.78	355.94	6957.48	288.24	-285.37	312.87	7.79
7065.00	48.47	356.26	6979.25	311.63	-286.96	336.31	8.44
7097.00	50.41	356.34	7000.06	335.89	-288.53	360.62	6.07
7128.00	53.34	356.30	7019.19	360.23	-290.10	384.99	9.45
7160.00	55.74	356.38	7037.76	386.24	-291.76	411.04	7.50
7191.00	57.00	357.47	7054.93	412.01	-293.14	436.84	5.01
7223.00	57.32	357.92	7072.28	438.87	-294.22	463.69	1.55
7254.00	57.43	357.47	7088.99	464.96	-295.27	489.76	1.27
7286.00	57.42	357.58	7106.22	491.90	-296.44	516.70	0.29
7318.00	58.55	357.23	7123.19	519.01	-297.67	543.81	3.65
7349.00	62.80	356.63	7138.37	545.99	-299.12	570.81	13.81
7381.00	66.38	357.18	7152.09	574.85	-300.68	599.69	11.29
7412.00	69.64	358.16	7163.70	603.56	-301.84	628.39	10.92
7444.00	72.65	358.42	7174.04	633.83	-302.74	658.62	9.44
7476.00	76.23	358.07	7182.62	664.64	-303.69	689.38	11.24
7507.00	79.88	357.98	7189.04	694.94	-304.73	719.66	11.78
7539.00	83.91	357.90	7193.55	726.60	-305.87	751.29	12.60
7652.00	91.67	356.77	7197.90	839.30	-311.12	864.00	6.94
7743.00	91.42	356.04	7195.45	930.09	-316.83	954.93	0.85
7834.00	90.93	354.68	7193.58	1020.77	-324.19	1045.91	1.59
7926.00	91.06	354.57	7191.99	1112.35	-332.80	1137.89	0.19
8017.00	91.05	354.50	7190.31	1202.92	-341.47	1228.88	0.08
8108.00	90.12	354.85	7189.38	1293.52	-349.91	1319.87	1.09
8199.00	88.02	354.29	7190.86	1384.10	-358.52	1410.85	2.39
8290.00	90.62	356.33	7191.94	1474.77	-365.96	1501.83	3.63

8381.00	89.63	354.83	7191.74	1565.50	-372.97	1592.82	1.97
8473.00	90.74	355.54	7191.44	1657.17	-380.70	1684.81	1.43
8564.00	89.26	356.24	7191.44	1747.93	-387.22	1775.80	1.80
8656.00	86.61	356.62	7194.76	1839.69	-392.94	1867.69	2.91
8751.00	84.44	356.73	7202.17	1934.23	-398.43	1962.34	2.29
8846.00	84.94	355.82	7210.96	2028.62	-404.58	2056.90	1.09
8941.00	85.95	354.21	7218.51	2122.96	-412.81	2151.60	2.00
9036.00	87.41	353.53	7224.01	2217.26	-422.94	2246.42	1.69
9131.00	89.51	354.20	7226.56	2311.67	-433.09	2341.37	2.32
9226.00	90.09	354.92	7226.89	2406.24	-442.09	2436.37	0.97
9320.00	89.94	355.98	7226.87	2499.95	-449.55	2530.36	1.14
9415.00	91.97	359.77	7225.28	2594.84	-453.07	2625.19	4.53
9510.00	92.22	359.69	7221.81	2689.78	-453.52	2719.78	0.28
9605.00	91.97	0.87	7218.34	2784.71	-453.05	2814.28	1.27
9700.00	92.65	0.45	7214.51	2879.63	-451.96	2908.71	0.84
9795.00	91.23	0.58	7211.29	2974.57	-451.11	3003.18	1.50
9890.00	89.94	359.85	7210.32	3069.56	-450.75	3097.75	1.56
9985.00	89.32	359.14	7210.94	3164.55	-451.59	3192.43	0.99
10081.00	88.95	357.38	7212.39	3260.49	-454.50	3288.24	1.87
10175.00	89.63	358.14	7213.55	3354.41	-458.18	3382.11	1.08
10271.00	89.03	357.03	7214.67	3450.32	-462.22	3477.99	1.31
10366.00	90.68	358.95	7214.91	3545.25	-465.55	3572.83	2.66
10461.00	91.11	358.82	7213.43	3640.22	-467.40	3667.58	0.47
10556.00	90.62	1.12	7212.00	3735.21	-467.45	3762.18	2.48
10651.00	90.53	0.91	7211.04	3830.19	-465.77	3856.62	0.24
10746.00	89.32	0.70	7211.17	3925.18	-464.43	3951.09	1.29
10841.00	88.94	0.74	7212.61	4020.16	-463.24	4045.58	0.40
10937.00	87.84	359.95	7215.31	4116.11	-462.66	4141.09	1.41
11032.00	91.32	1.62	7216.00	4211.09	-461.36	4235.55	4.06
11127.00	90.25	1.55	7214.70	4306.04	-458.73	4329.88	1.13
11222.00	90.00	1.16	7214.49	4401.01	-456.49	4424.26	0.49
11317.00	89.75	0.20	7214.70	4496.00	-455.36	4518.76	1.04
11412.00	90.37	0.42	7214.60	4591.00	-454.85	4613.32	0.69
11507.00	89.32	0.00	7214.86	4686.00	-454.50	4707.90	1.19
11601.00	89.82	1.63	7215.56	4779.98	-453.16	4801.38	1.81
11697.00	88.58	1.46	7216.90	4875.94	-450.57	4896.71	1.30
11792.00	90.53	1.97	7217.64	4970.89	-447.73	4991.01	2.12
11887.00	89.88	2.75	7217.30	5065.80	-443.82	5085.18	1.07
11983.00	89.94	4.17	7217.45	5161.63	-438.02	5180.09	1.48
12078.00	89.94	4.11	7217.55	5256.38	-431.16	5273.83	0.06
12173.00	89.82	3.03	7217.75	5351.19	-425.25	5367.72	1.14
12269.00	89.51	2.21	7218.31	5447.09	-420.86	5462.83	0.91
12363.00	90.00	3.02	7218.72	5540.99	-416.57	5555.96	1.01
12458.00	89.75	358.32	7218.92	5635.96	-415.46	5650.43	4.95
12554.00	89.44	358.99	7219.60	5731.93	-417.72	5746.21	0.77
12650.00	90.55	355.15	7219.61	5827.78	-422.62	5842.12	4.16
12745.00	90.74	352.49	7218.54	5922.22	-432.85	5937.09	2.81
12841.00	92.28	354.73	7216.01	6017.58	-443.53	6033.03	2.83
12936.00	89.14	352.99	7214.83	6112.01	-453.69	6127.99	3.78
13030.00	89.26	349.77	7216.15	6204.93	-467.77	6221.80	3.43
13125.00	89.32	346.36	7217.32	6297.85	-487.41	6316.12	3.59
13219.00	87.16	346.12	7220.21	6389.11	-509.76	6409.02	2.31
13314.00	88.41	345.22	7223.88	6481.08	-533.26	6502.74	1.62
13409.00	90.62	346.76	7224.69	6573.24	-556.25	6596.61	2.84
13504.00	91.67	352.45	7222.79	6666.62	-573.38	6691.16	6.09
13599.00	90.62	352.34	7220.89	6760.77	-585.95	6786.05	1.11
13694.00	89.51	352.55	7220.78	6854.94	-598.44	6880.97	1.19
13758.00	88.71	352.21	7221.77	6918.37	-606.93	6944.91	1.36

Weatherford Surveys from 948.00 ft MD to 13758.00 ft MD.

TD at 13812.00 ft MD.

The total correction is 8.67 deg relative to True North.



Weatherford®

Final Print

COMPANY	<u>Anadarko Petroleum Corp.</u>		
WELL	<u>Camp 10N-30HZ</u>		
FIELD	<u>Wattenberg</u>		
RIG	<u>H&P 307</u>		
LOC.	<u>Colorado</u>	COUNTY	<u>Weld</u>