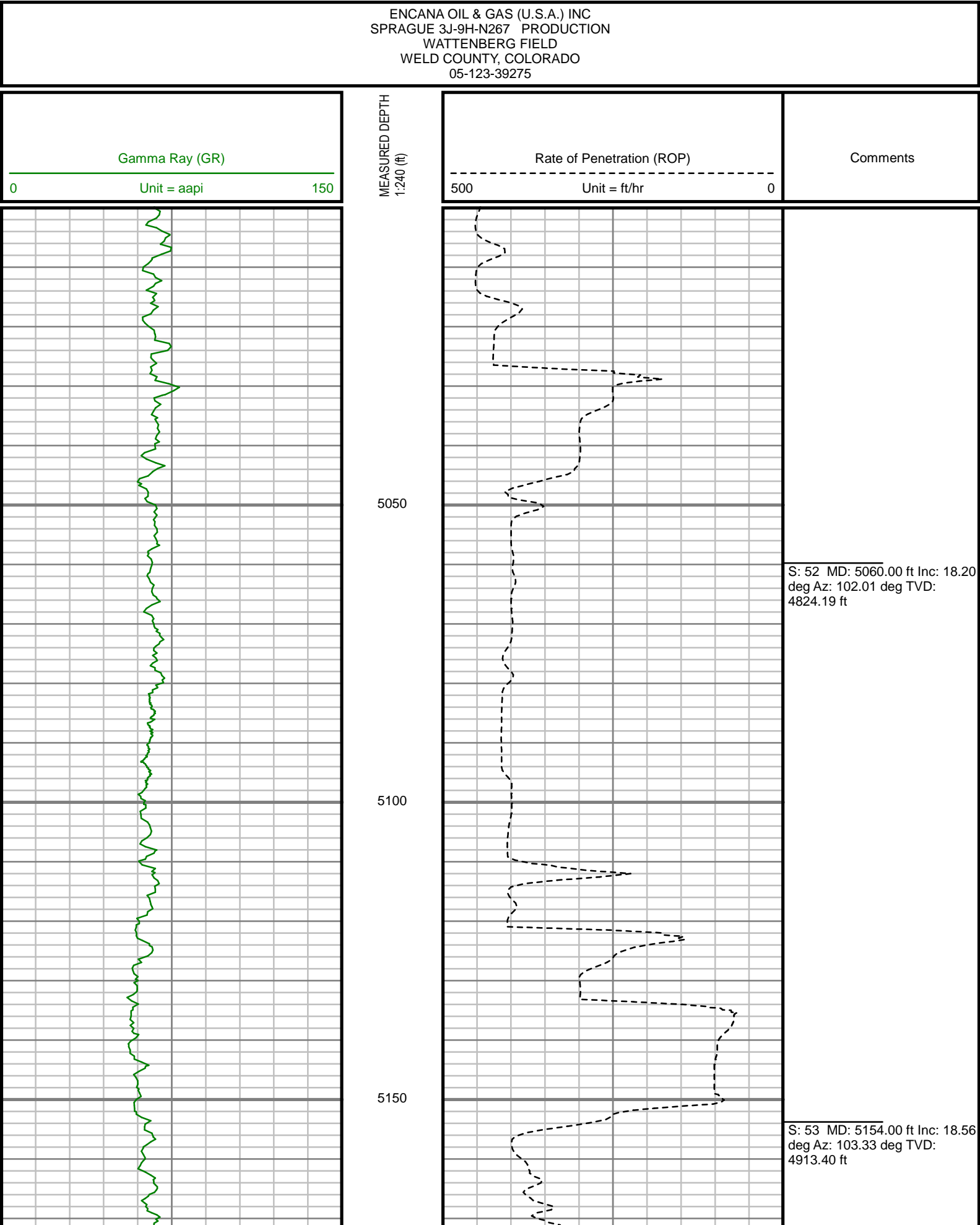
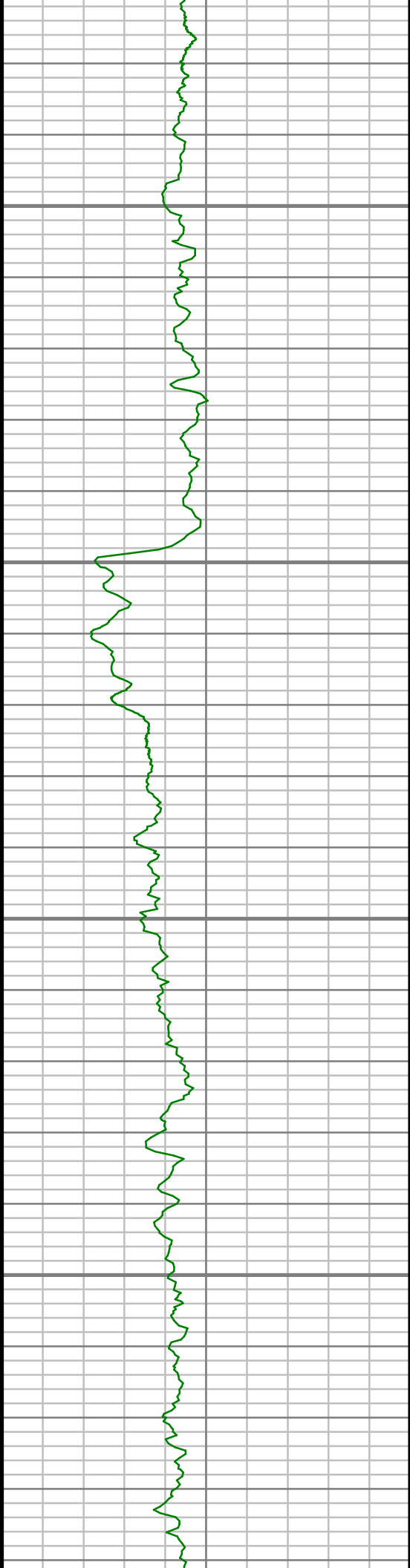


Remarks
ENCANA OIL & GAS (U.S.A.) INC PRODUCTION AFE# 14180732
SCIENTIFIC DRILLING INTERNATIONAL JOB# 276436
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN #1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-338 / CONT = 300 / MWD EYE = 1072 / GAMMA RAY = 1343
BIT TO SENSOR OFFSETS: SURVEY = 61.28 FT. / GAMMA RAY = 52.55 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-226 / CONT = 517 / MWD EYE = 0882 / GAMMA RAY = 1133
BIT TO SENSOR OFFSETS: SURVEY = 57.70 FT. / GAMMA RAY = 48.97 FT.
RUN #3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-226 / CONT = 517 / MWD EYE = 0882 / GAMMA RAY = 1133
BIT TO SENSOR OFFSETS: SURVEY = 57.70 FT. / GAMMA RAY = 48.97 FT.
RUN #4: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-338 / CONT = 300 / MWD EYE = 1072 / GAMMA RAY = 1343
BIT TO SENSOR OFFSETS: SURVEY = 63.05 FT. / GAMMA RAY = 58.99 FT.

[illegible]

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current price schedule.



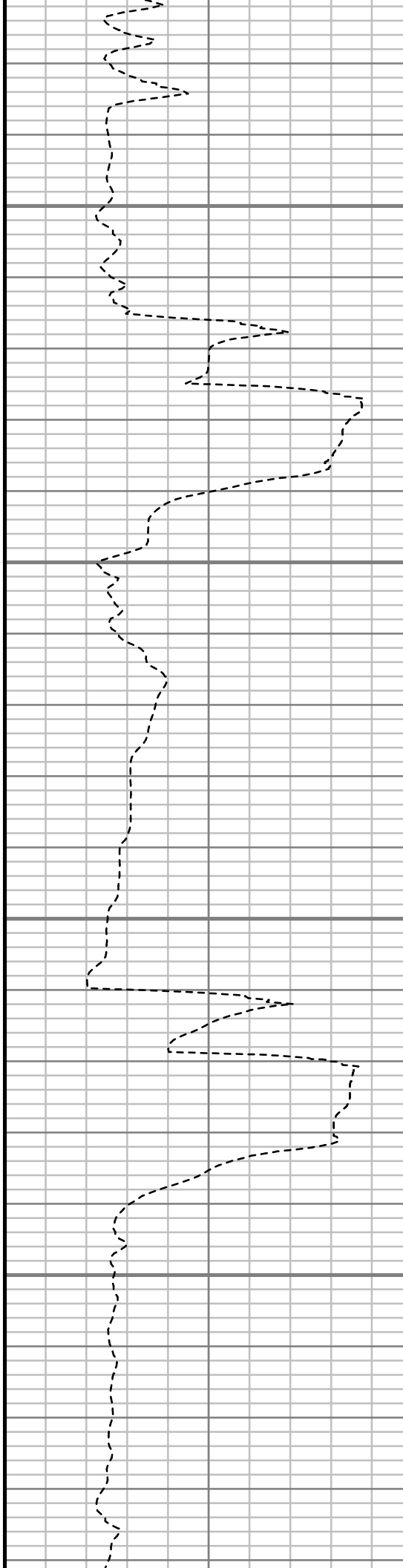


5200

5250

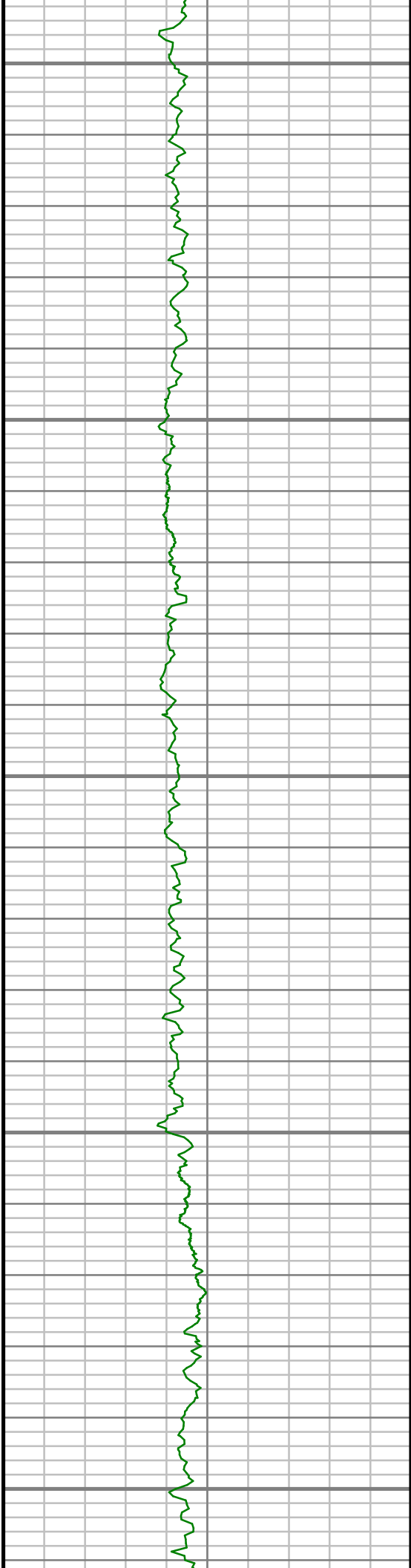
5300

5350



S: 54 MD: 5249.00 ft Inc: 18.94
deg Az: 103.31 deg TVD:
5003.35 ft

S: 55 MD: 5344.00 ft Inc: 20.14
deg Az: 106.47 deg TVD:
5092.88 ft



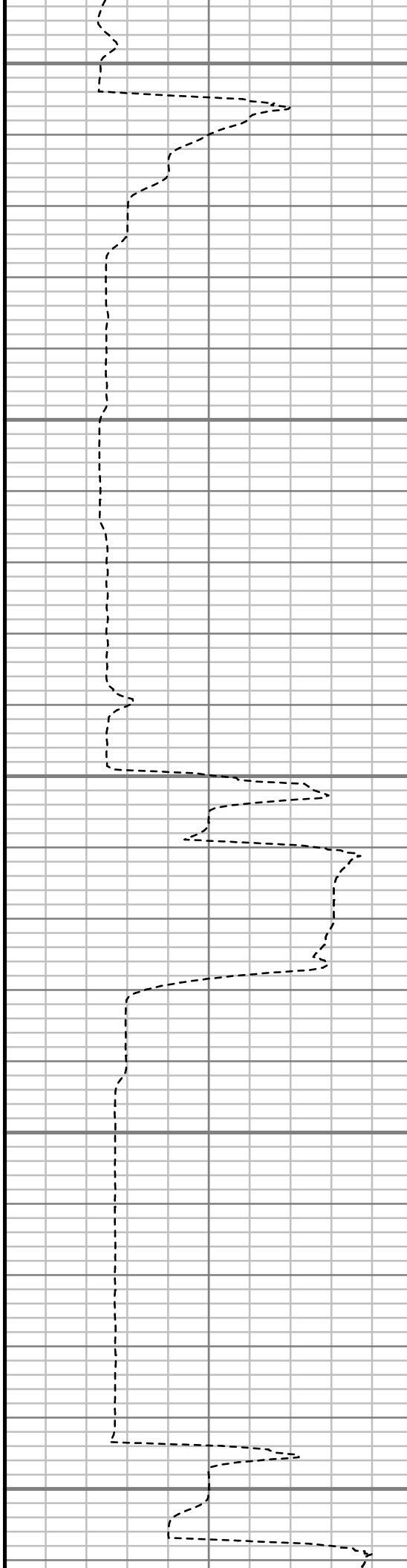
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5450

5500

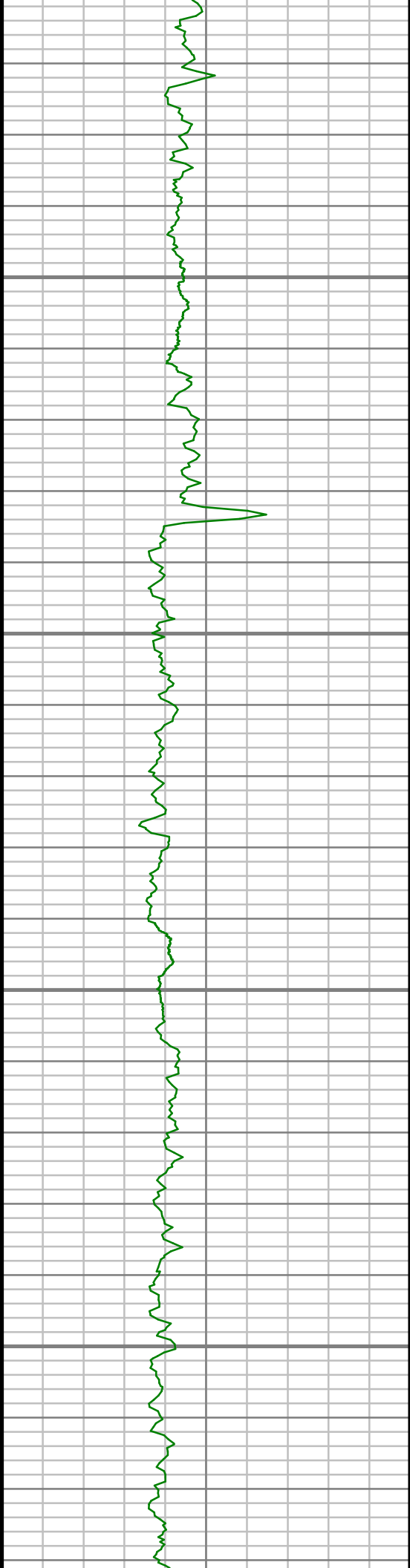
5550

5600



S: 56 MD: 5439.00 ft Inc: 18.27
deg Az: 105.49 deg TVD:
5182.59 ft

S: 57 MD: 5533.00 ft Inc: 17.40
deg Az: 109.47 deg TVD:
5272.08 ft

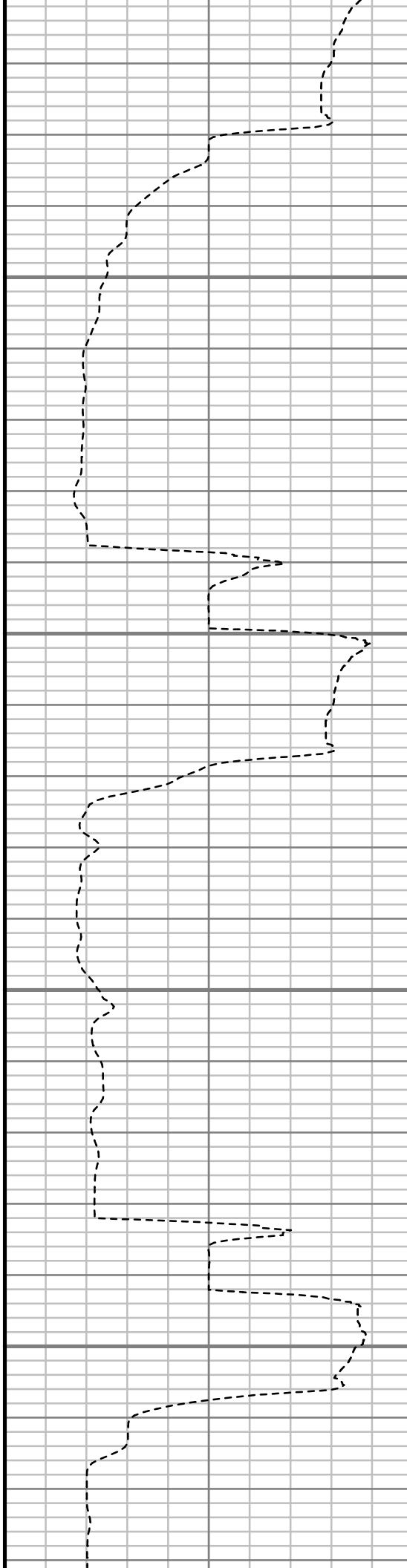


5650

5700

5750

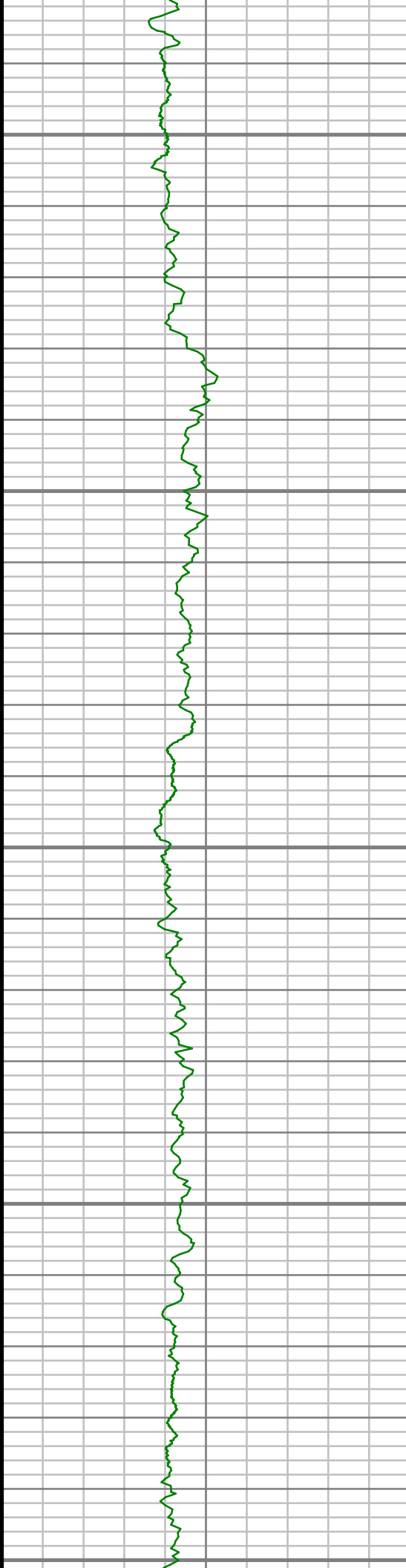
5800



S: 58 MD: 5627.00 ft Inc: 17.29
deg Az: 108.79 deg TVD:
5361.80 ft

S: 59 MD: 5722.00 ft Inc: 18.40
deg Az: 106.12 deg TVD:
5452.23 ft

S: 60 MD: 5817.00 ft Inc: 18.19
deg Az: 105.25 deg TVD:
5542.43 ft



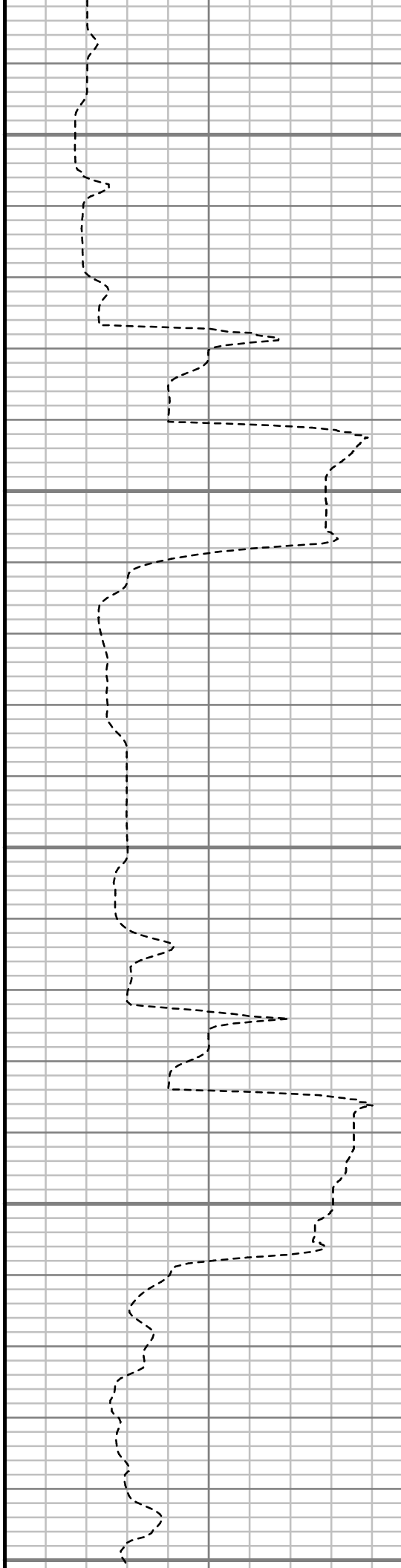
5850

5900

5950

6000

6050



S: 61 MD: 5912.00 ft Inc: 17.25
deg Az: 101.60 deg TVD:
5632.93 ft

S: 62 MD: 6006.00 ft Inc: 17.32
deg Az: 106.55 deg TVD:
5722.69 ft

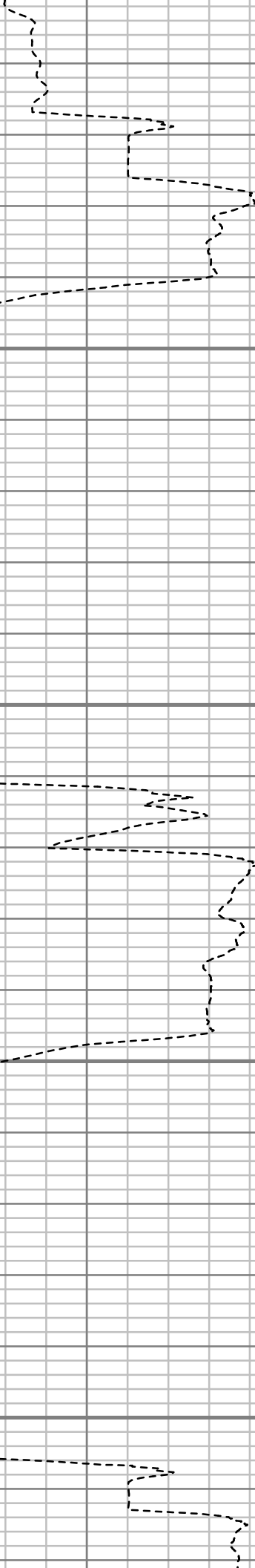


6100

6150

6200

6250



S: 63 MD: 6101.00 ft Inc: 16.95
deg Az: 107.55 deg TVD:
5813.47 ft

S: 64 MD: 6195.00 ft Inc: 17.73
deg Az: 107.17 deg TVD:
5903.20 ft

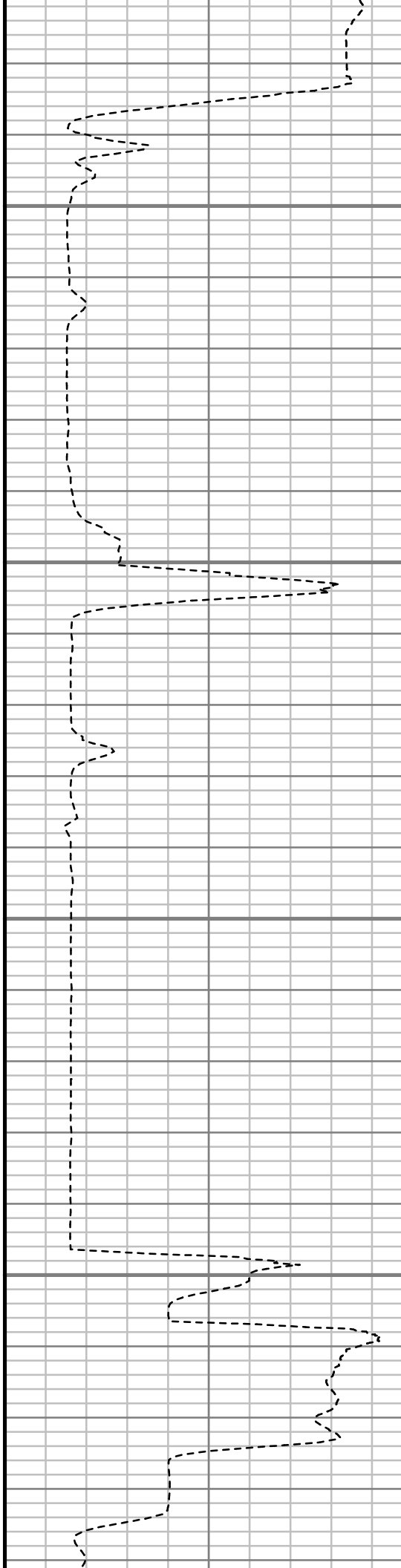


6300

6350

6400

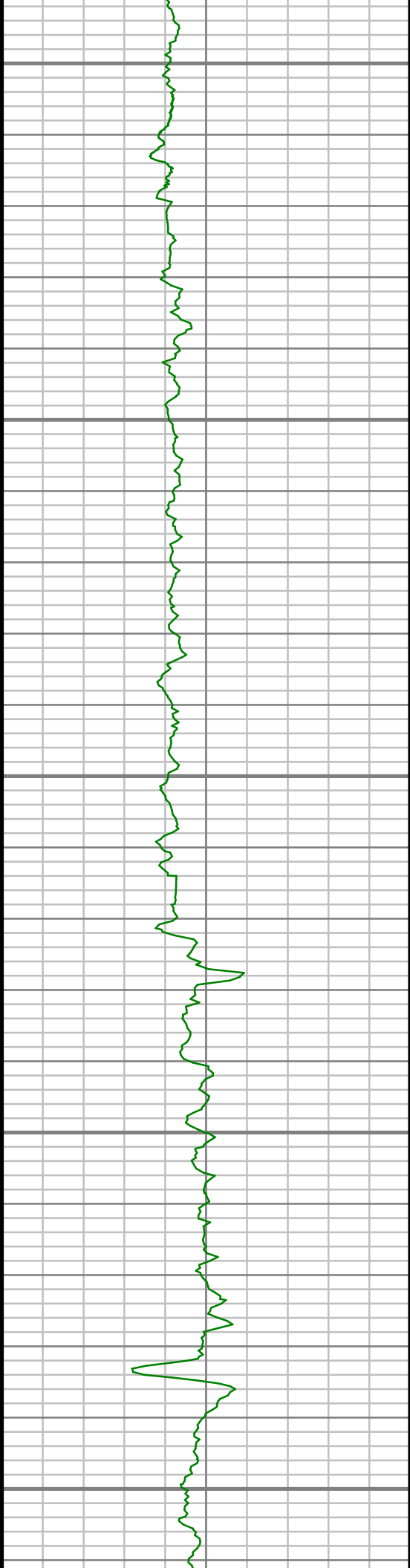
6450



S: 65 MD: 6290.00 ft Inc: 18.02
deg Az: 107.77 deg TVD:
5993.61 ft

S: 66 MD: 6387.00 ft Inc: 14.52
deg Az: 104.61 deg TVD:
6086.71 ft

S: 67 MD: 6482.00 ft Inc: 13.72
deg Az: 102.46 deg TVD:
6178.84 ft



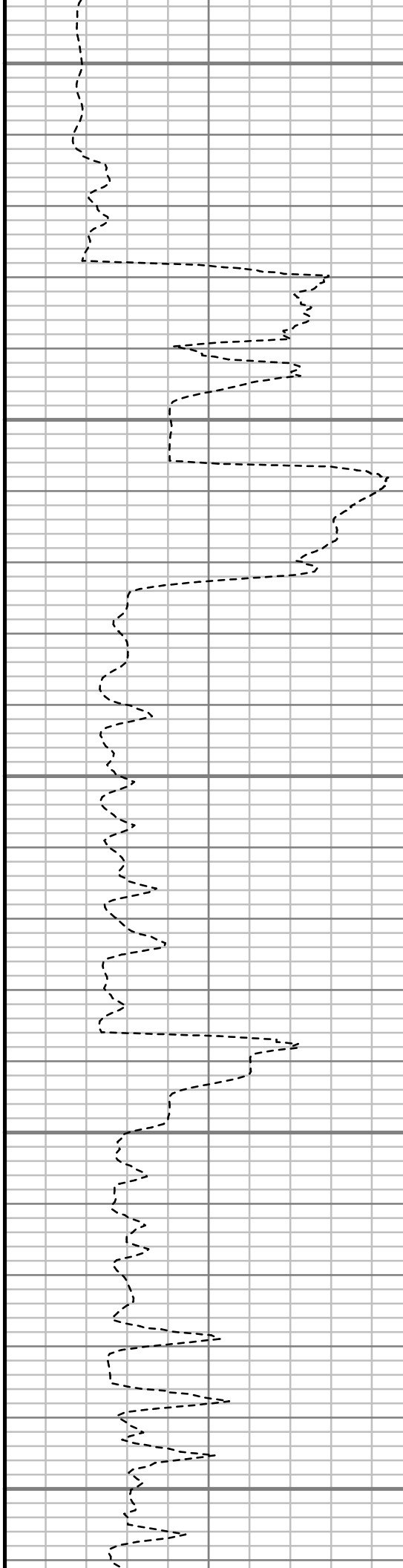
6500

6550

6600

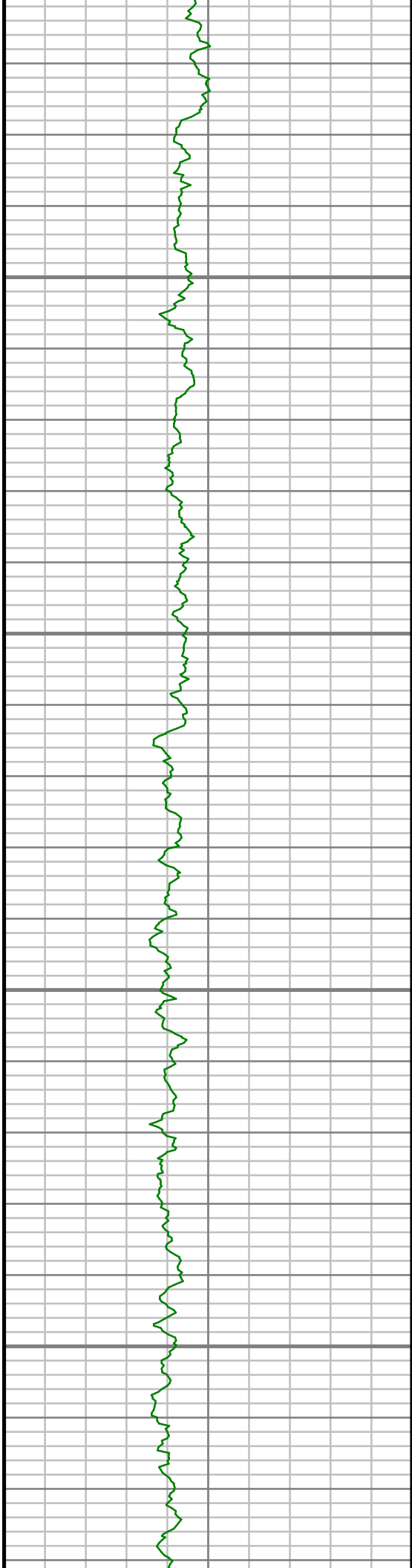
6650

6700



S: 68 MD: 6577.00 ft Inc: 12.08
deg Az: 105.30 deg TVD:
6271.44 ft

S: 69 MD: 6672.00 ft Inc: 9.99
deg Az: 103.51 deg TVD:
6364.68 ft

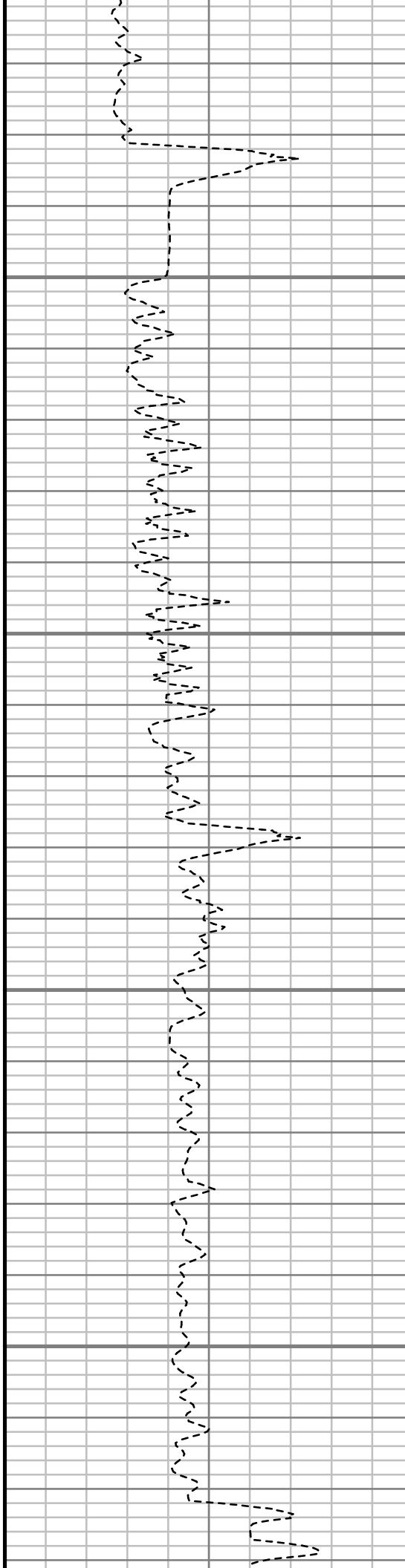


6750

6800

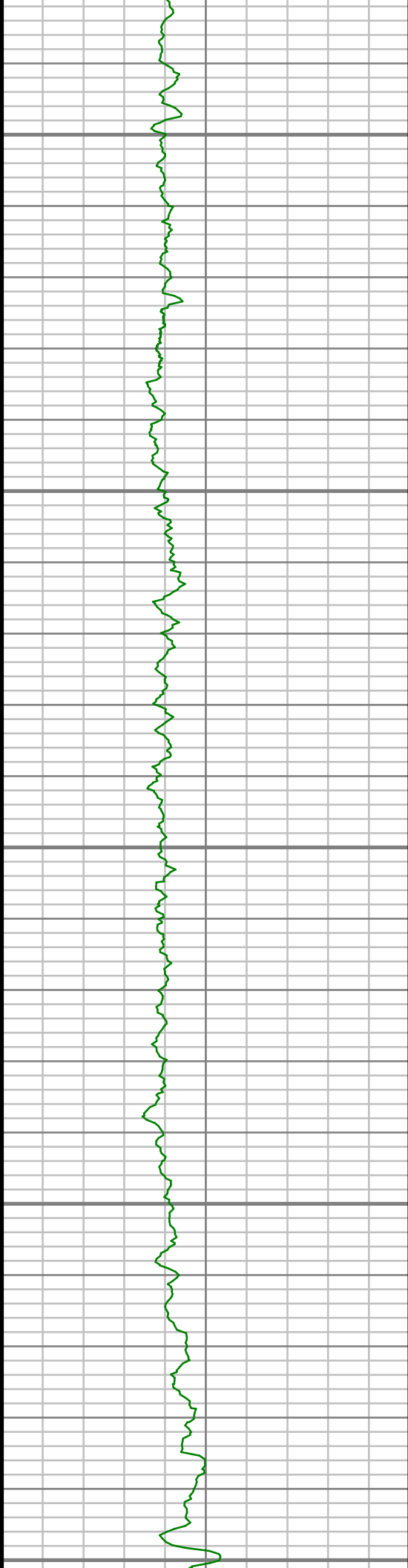
6850

6900



S: 70 MD: 6767.00 ft Inc: 8.06
deg Az: 97.74 deg TVD:
6458.50 ft

S: 71 MD: 6862.00 ft Inc: 6.34
deg Az: 94.09 deg TVD:
6552.75 ft



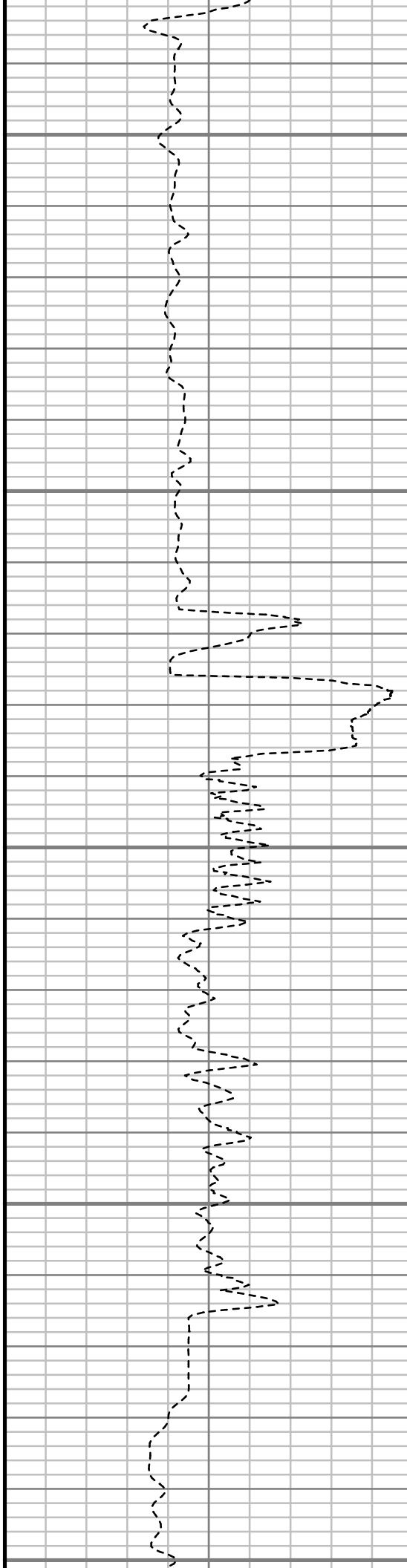
6950

7000

7050

7100

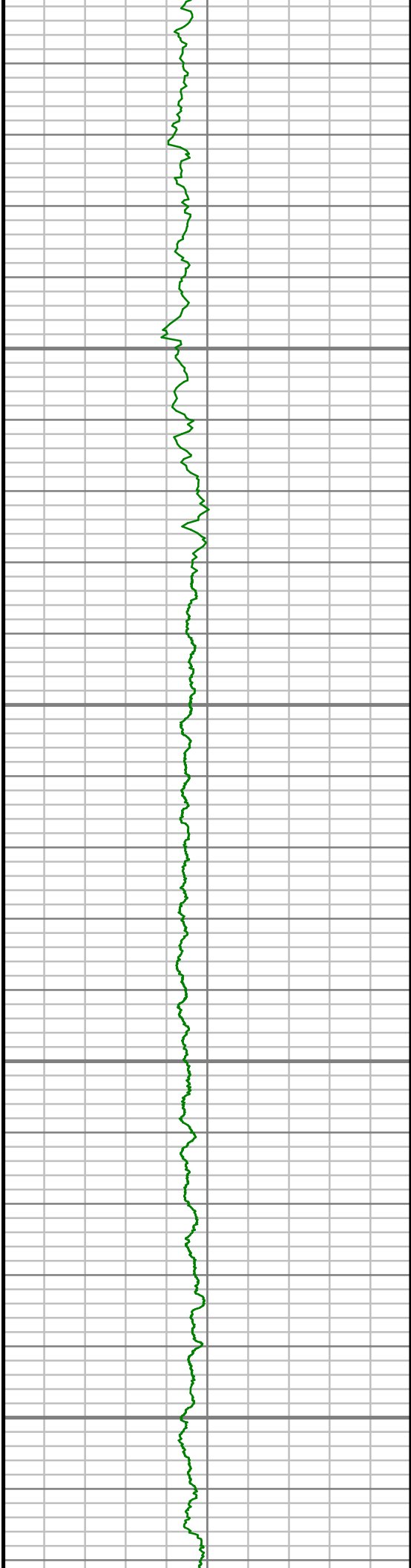
7150



S: 72 MD: 6957.00 ft Inc: 4.90
deg Az: 89.89 deg TVD:
6647.29 ft

S: 73 MD: 7052.00 ft Inc: 3.12
deg Az: 86.67 deg TVD:
6742.06 ft

S: 74 MD: 7147.00 ft Inc: 2.24
deg Az: 85.95 deg TVD:

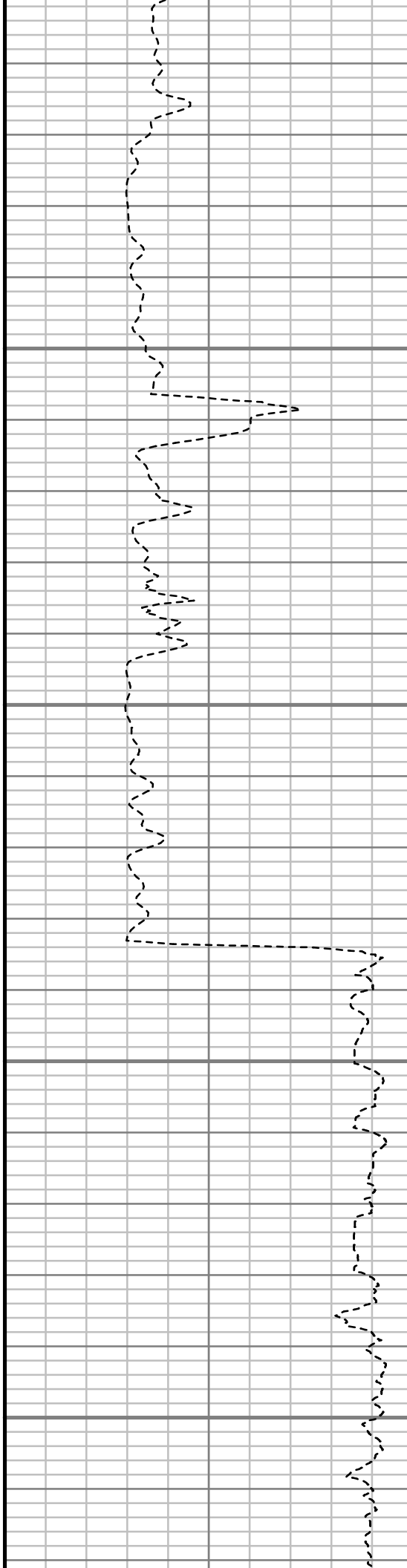


7200

7250

7300

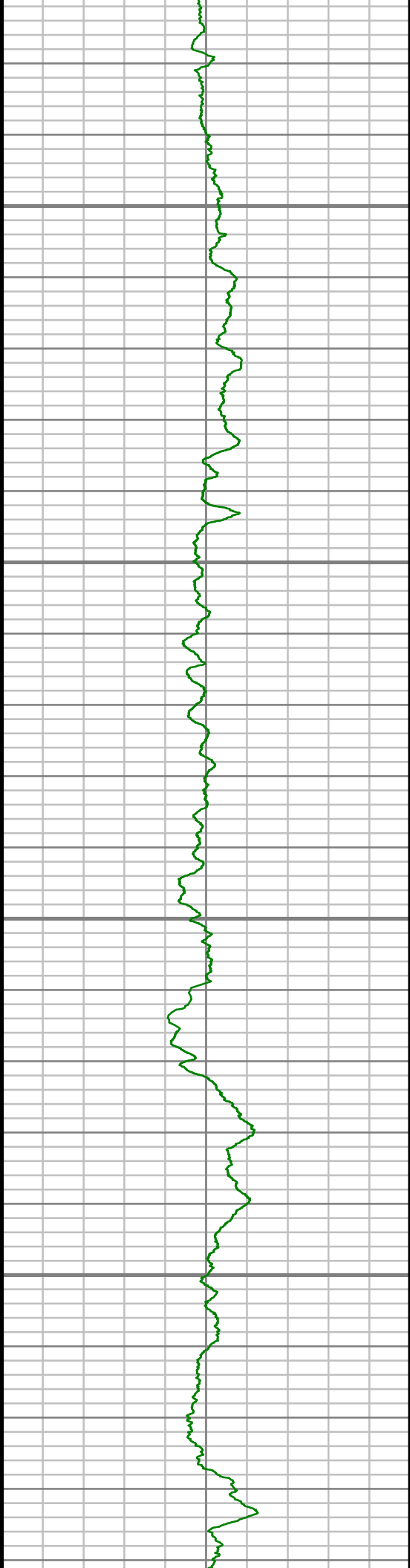
7350



deg: 121.00 deg TVD:
6836.95 ft

S: 75 MD: 7241.00 ft Inc: 1.63
deg Az: 86.40 deg TVD:
6930.90 ft

S: 76 MD: 7336.00 ft Inc: 2.93
deg Az: 347.12 deg TVD:
7025.85 ft

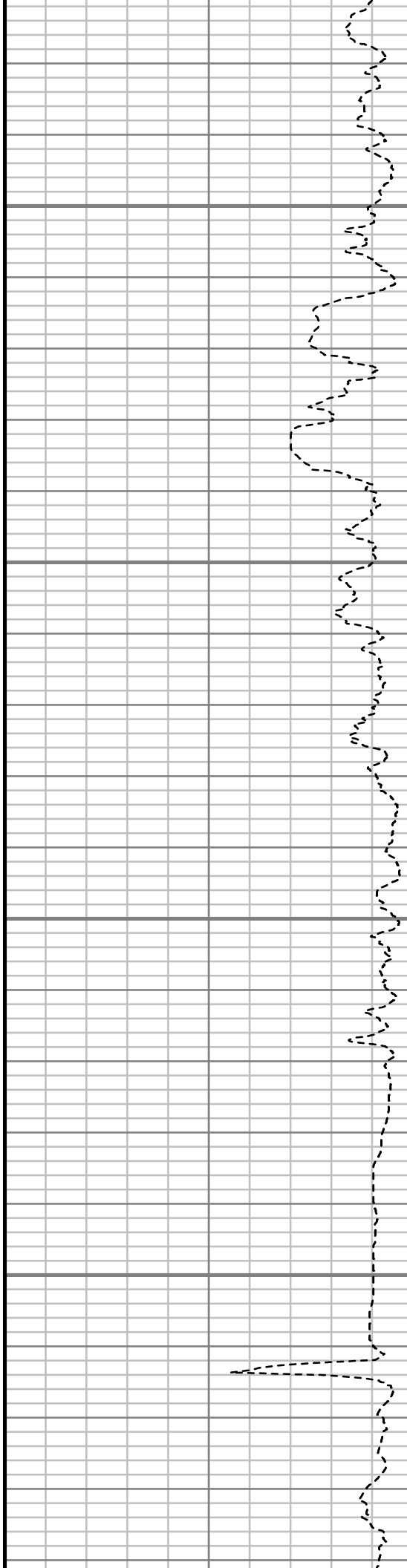


7400

7450

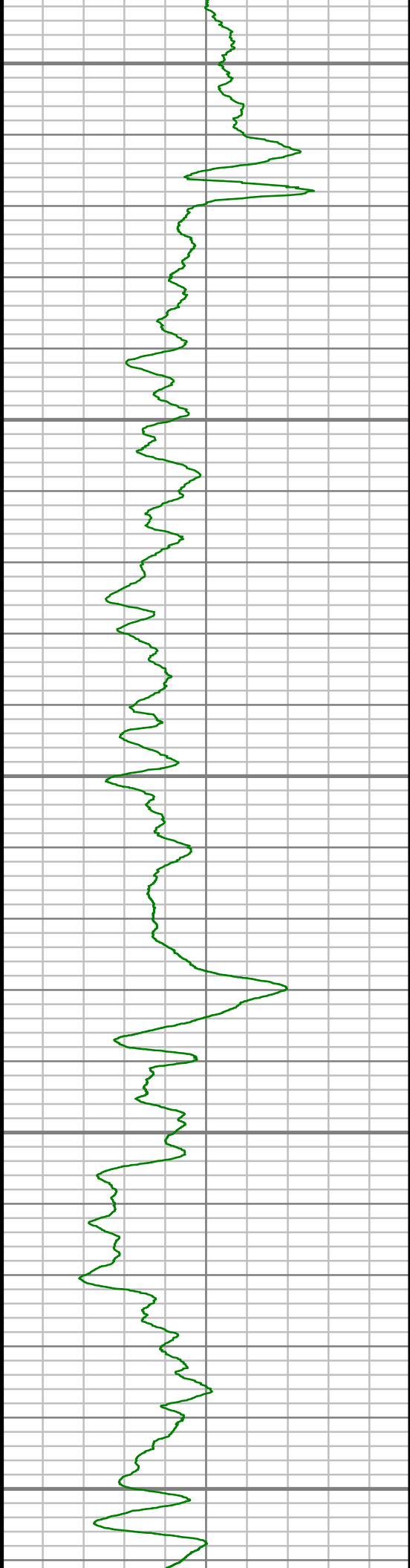
7500

7550



S: 77 MD: 7431.00 ft Inc: 5.58
deg Az: 17.01 deg TVD:
7120.59 ft

S: 78 MD: 7517.00 ft Inc: 8.40
deg Az: 19.33 deg TVD:
7205.94 ft



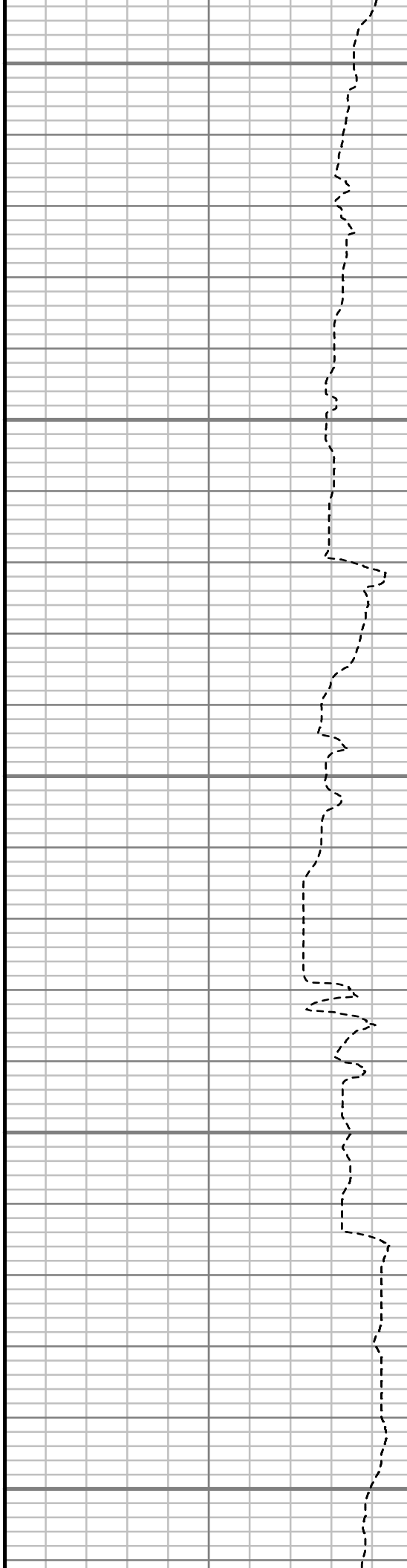
7600

7650

7700

7750

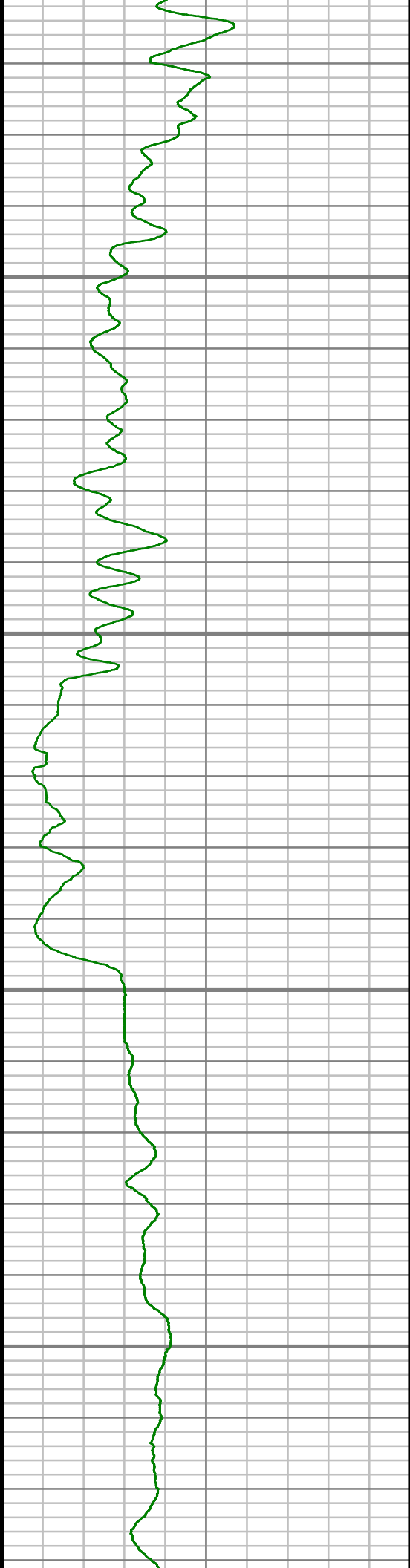
7800



S: 79 MD: 7611.00 ft Inc: 18.38
deg Az: 3.44 deg TVD: 7297.30
ft

S: 80 MD: 7706.00 ft Inc: 26.95
deg Az: 356.91 deg TVD:
7384.89 ft

S: 81 MD: 7797.00 ft Inc: 37.45
deg Az: 354.17 deg TVD:
7461.79 ft

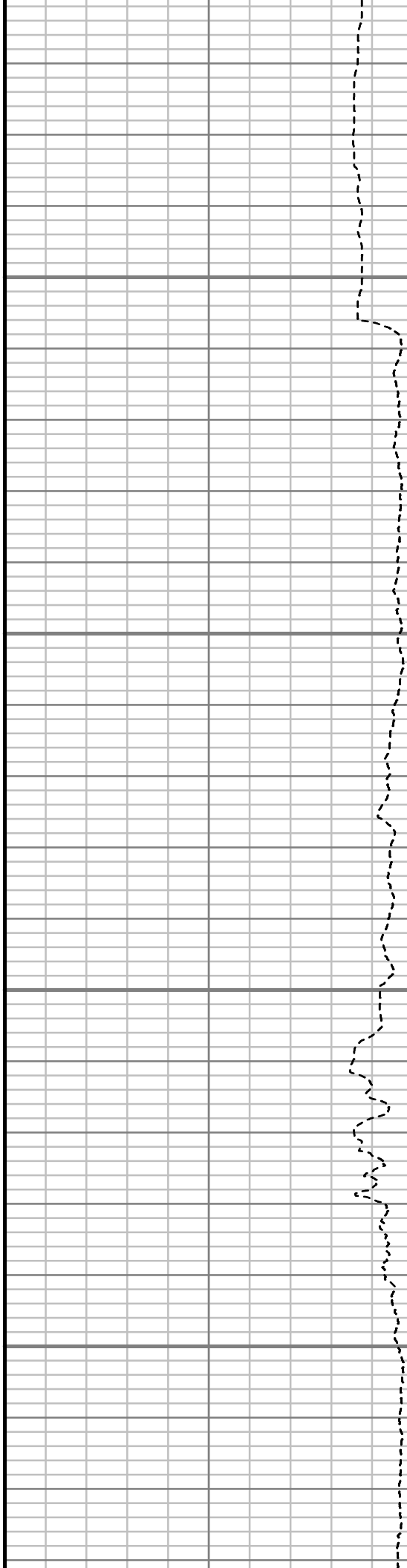


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7900

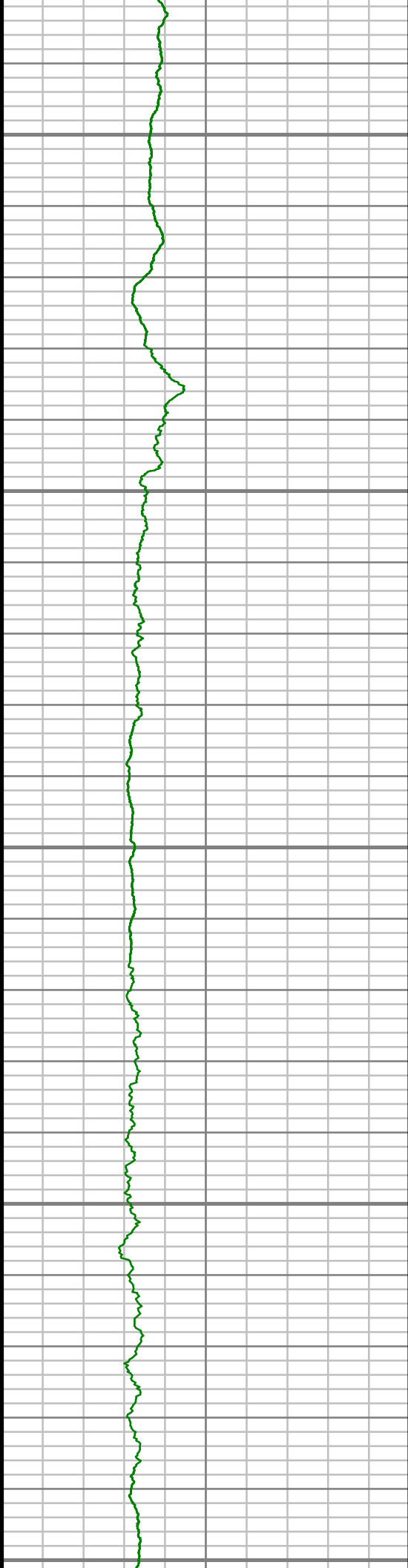
7950

8000



S: 82 MD: 7894.00 ft Inc: 51.88
deg Az: 350.44 deg TVD:
7530.61 ft

S: 83 MD: 7989.00 ft Inc: 67.46
deg Az: 349.37 deg TVD:
7578.44 ft



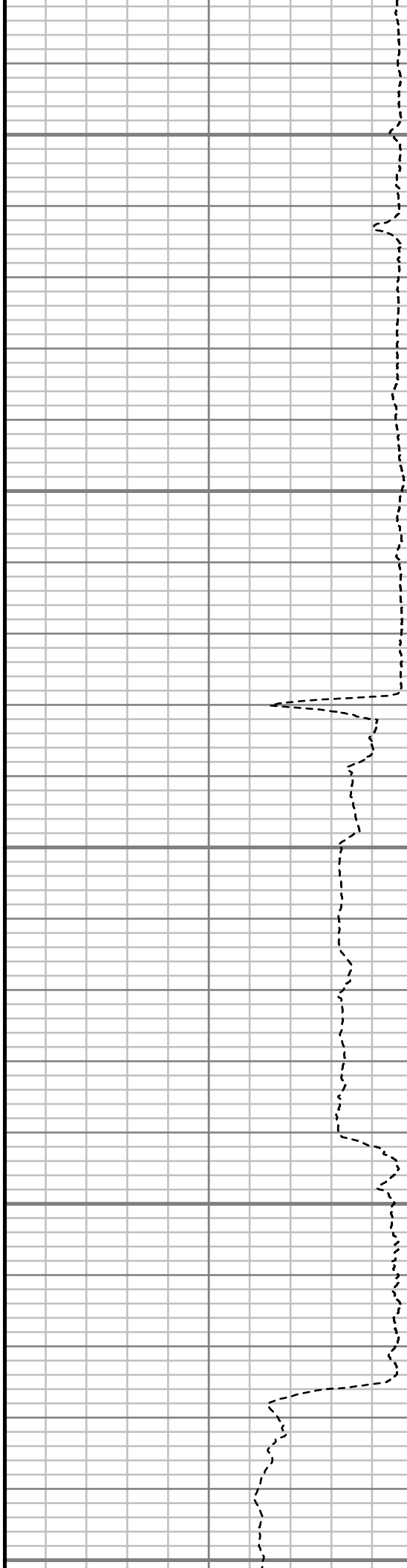
8050

8100

8150

8200

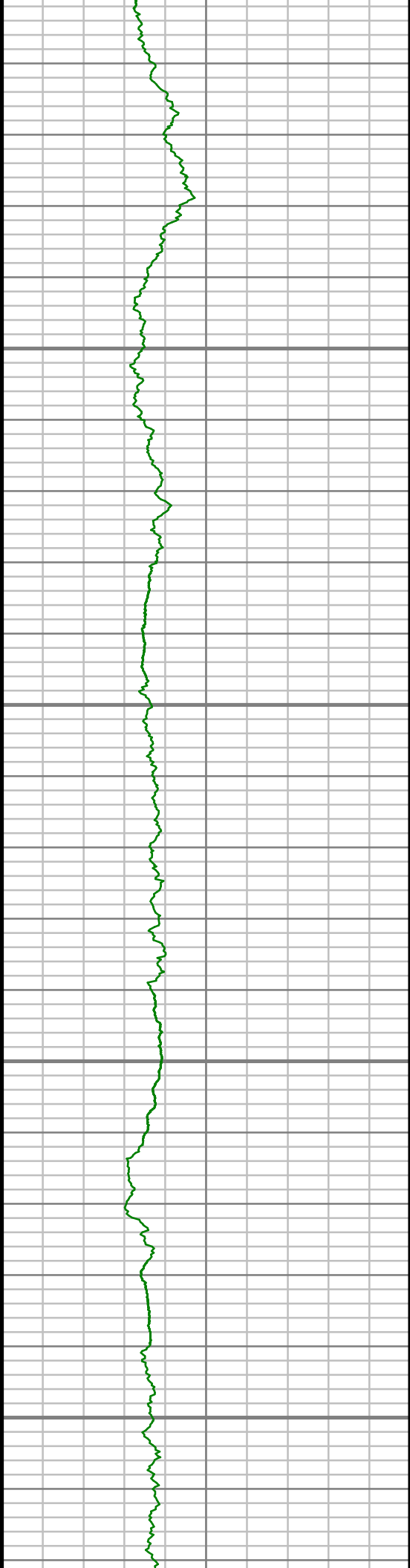
8250



S: 84 MD: 8065.00 ft Inc: 80.94
deg Az: 351.73 deg TVD:
7599.09 ft

S: 85 MD: 8127.00 ft Inc: 88.35
deg Az: 355.22 deg TVD:
7604.87 ft

S: 86 MD: 8222.00 ft Inc: 92.89
deg Az: 355.88 deg TVD:
7603.84 ft

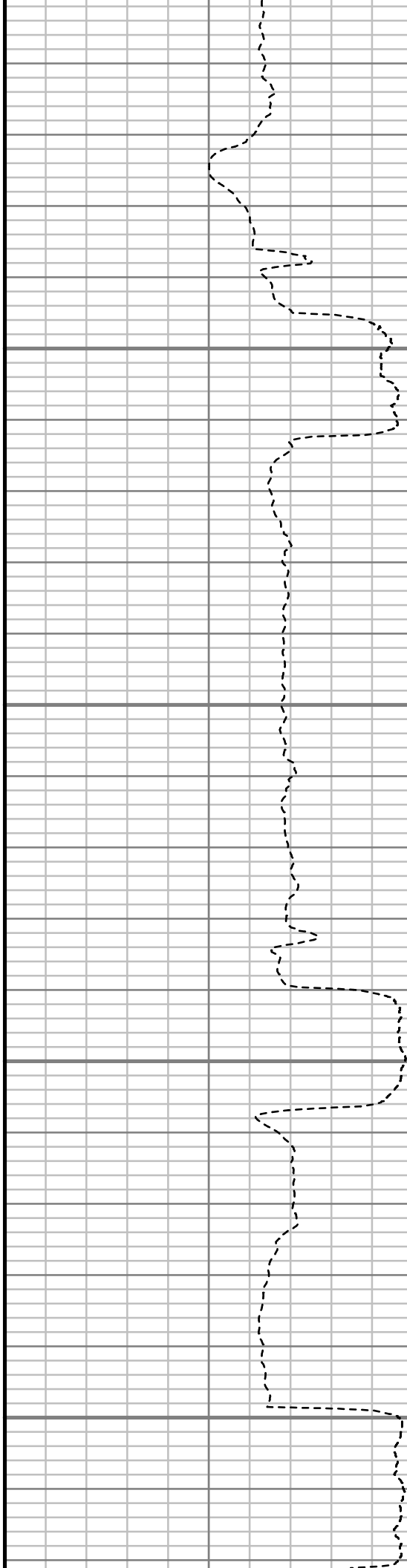


8300

8350

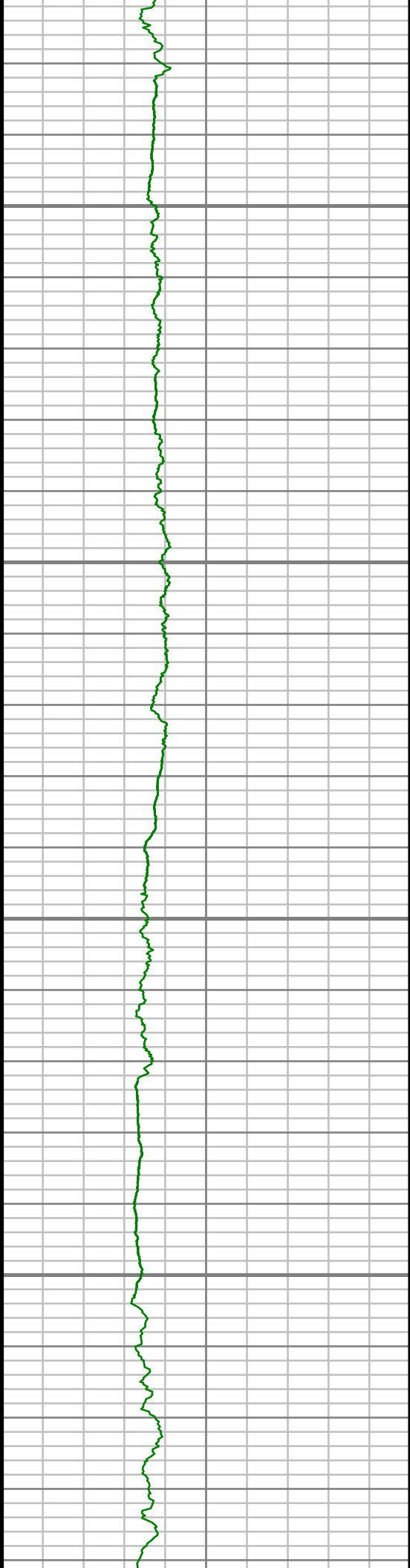
8400

8450



S: 87 MD: 8317.00 ft Inc: 94.57
deg Az: 358.03 deg TVD:
7597.66 ft

S: 88 MD: 8412.00 ft Inc: 95.17
deg Az: 358.52 deg TVD:
7589.59 ft

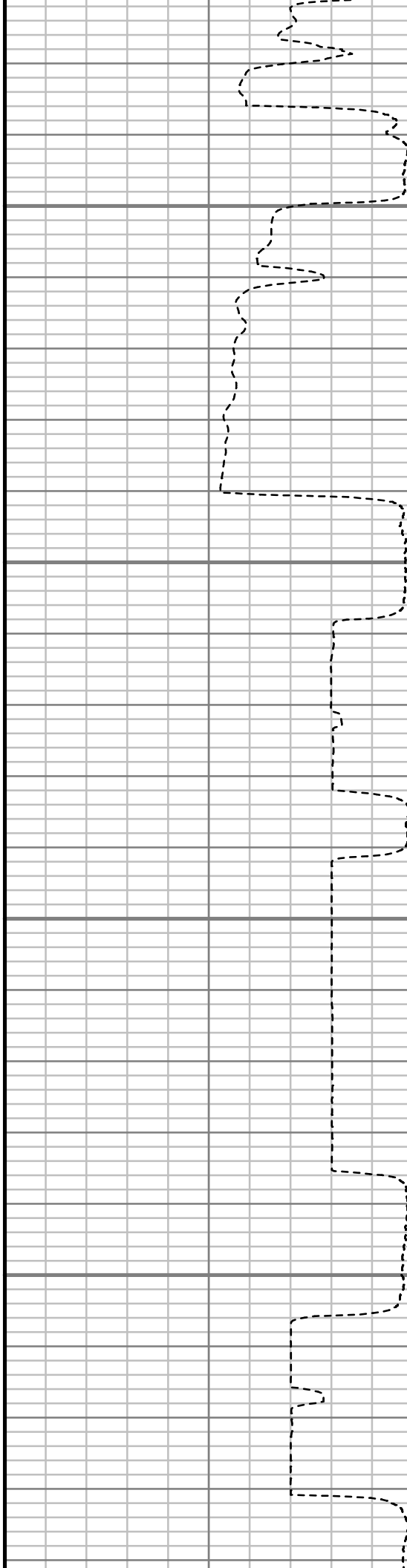


8500

8550

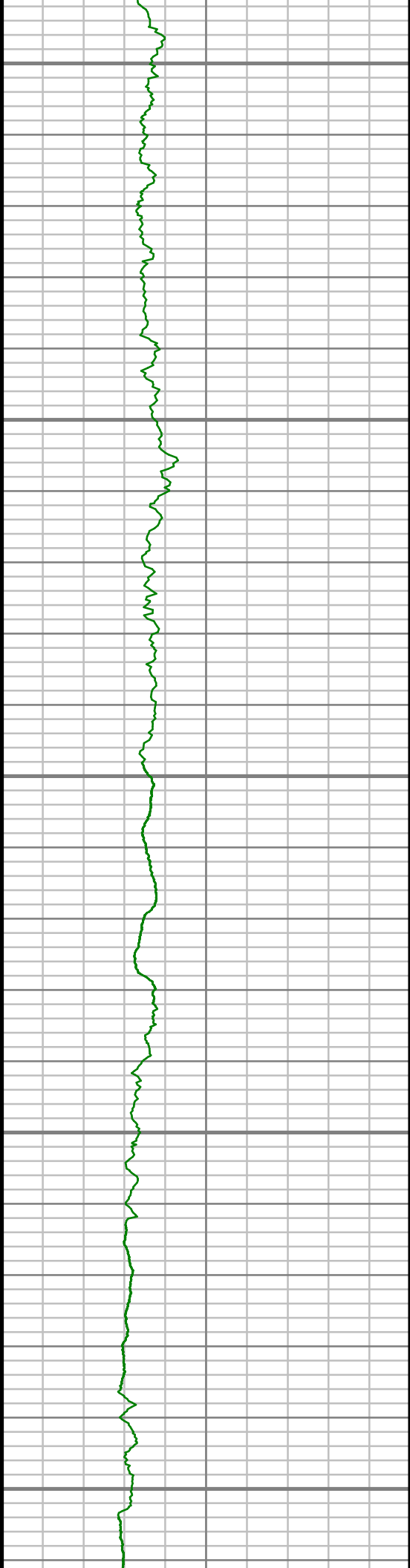
8600

8650



S: 89 MD: 8508.00 ft Inc: 93.22
deg Az: 0.10 deg TVD: 7582.56
ft

S: 90 MD: 8603.00 ft Inc: 92.85
deg Az: 0.29 deg TVD: 7577.53
ft



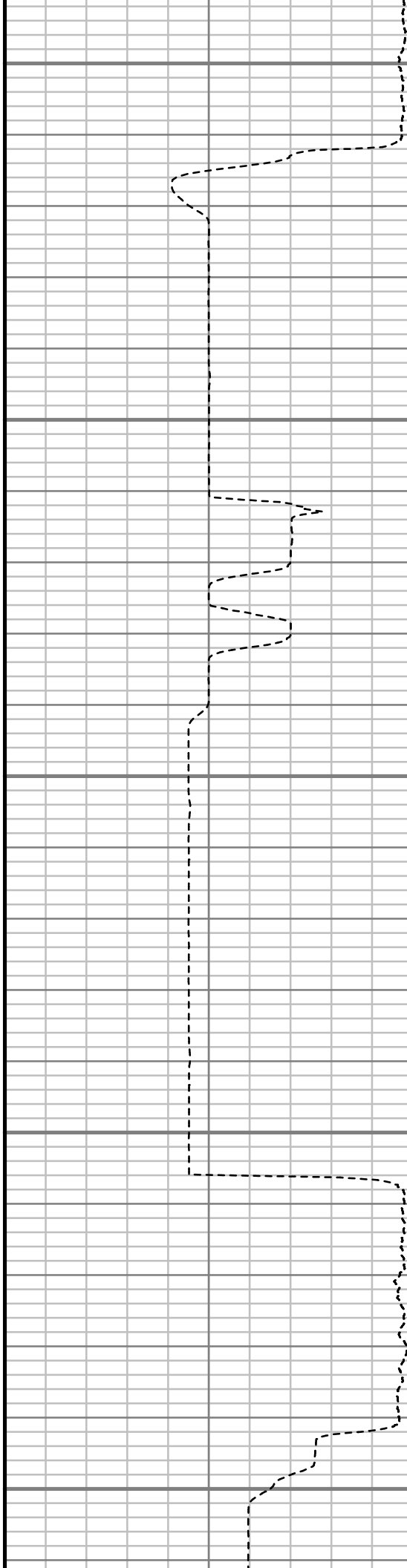
8700

8750

8800

8850

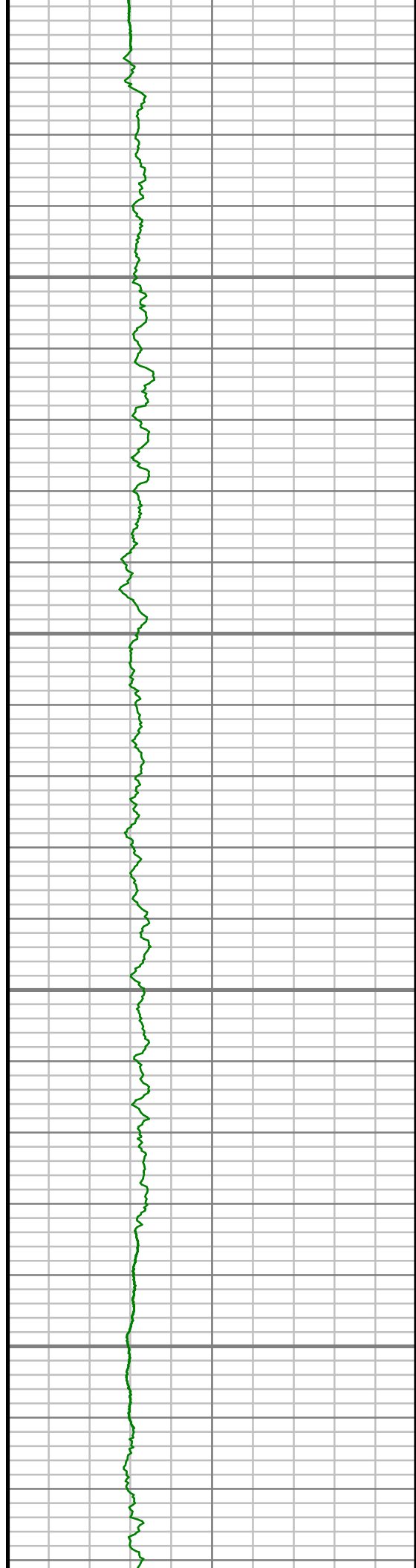
8900



S: 91 MD: 8698.00 ft Inc: 91.01
deg Az: 1.04 deg TVD: 7574.33
ft

S: 92 MD: 8793.00 ft Inc: 92.18
deg Az: 0.83 deg TVD: 7571.68
ft

S: 93 MD: 8888.00 ft Inc: 91.14
deg Az: 1.33 deg TVD: 7568.93
ft

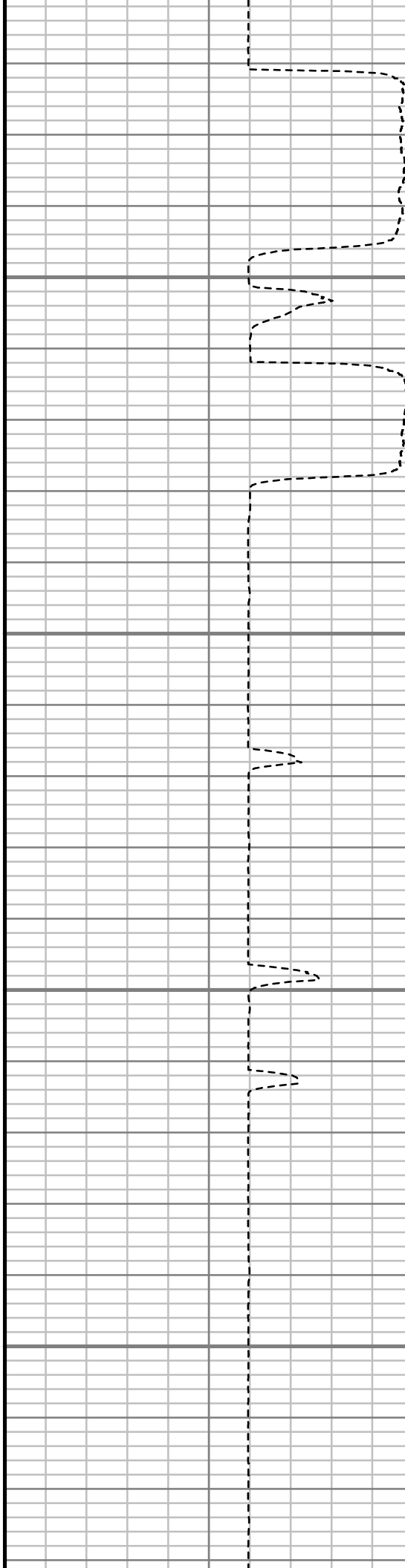


8950

9000

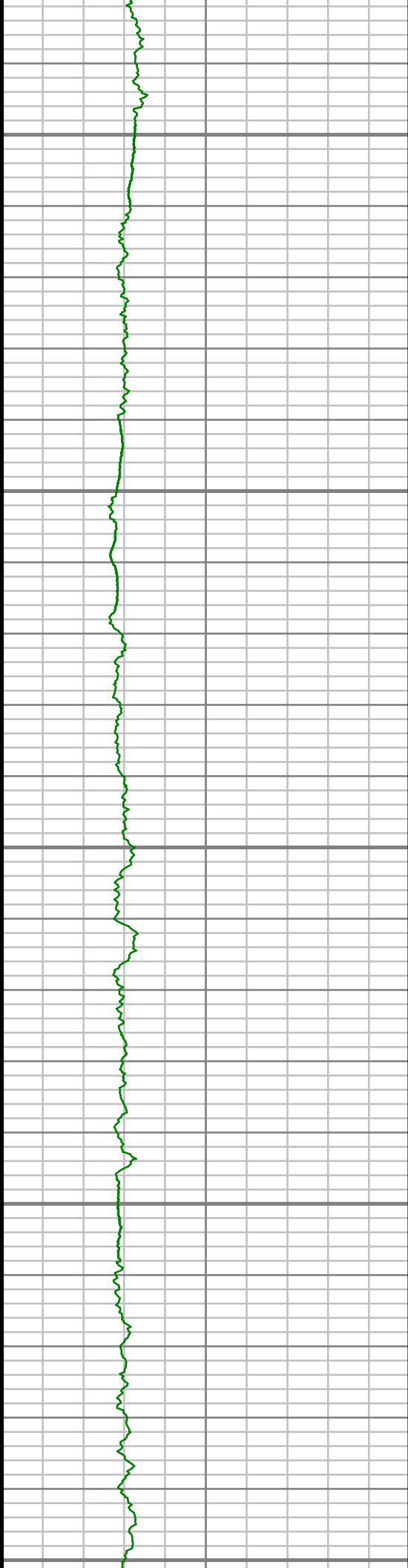
9050

9100



S: 94 MD: 8983.00 ft Inc: 88.32
deg Az: 1.77 deg TVD: 7569.38
ft

S: 95 MD: 9079.00 ft Inc: 90.94
deg Az: 0.78 deg TVD: 7569.99
ft



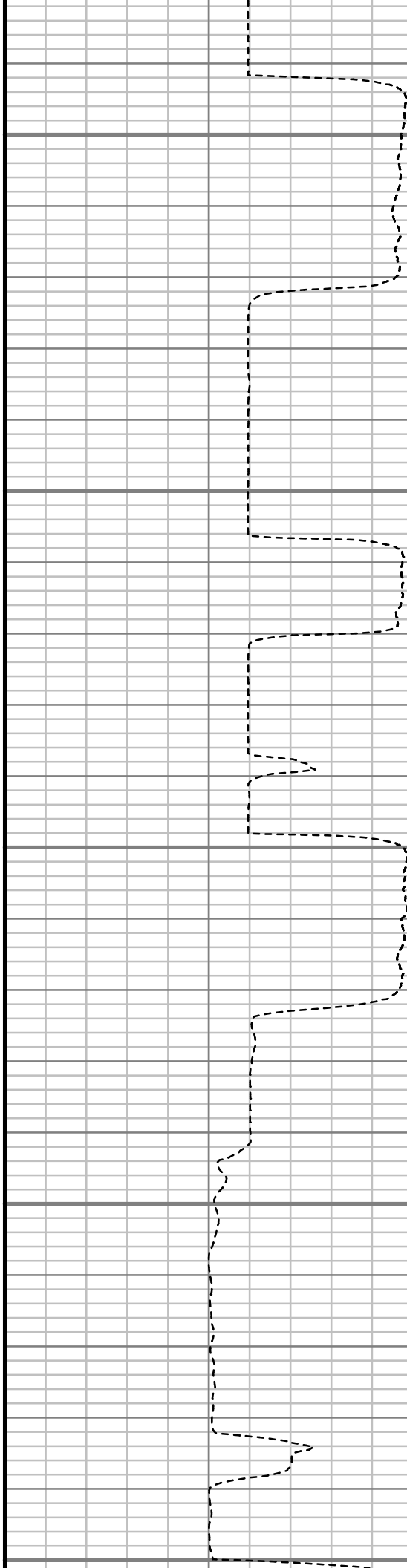
9150

9200

9250

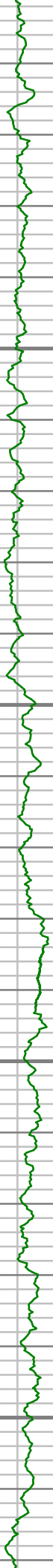
9300

9350



S: 96 MD: 9174.00 ft Inc: 90.77
deg Az: 1.11 deg TVD: 7568.57
ft

S: 97 MD: 9269.00 ft Inc: 88.76
deg Az: 1.17 deg TVD: 7568.96
ft

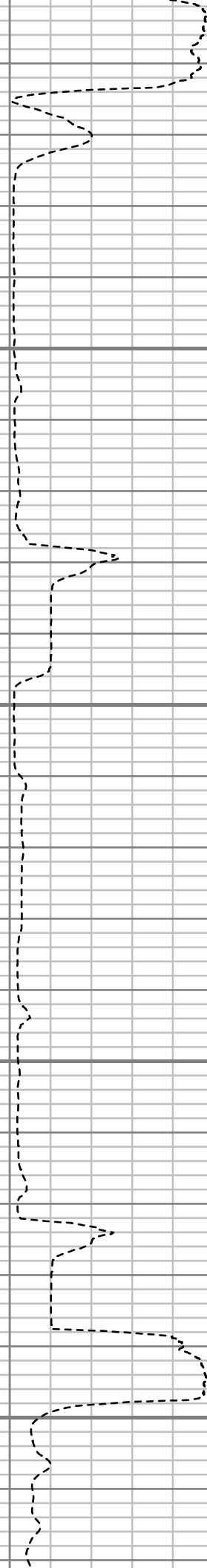


9400

9450

9500

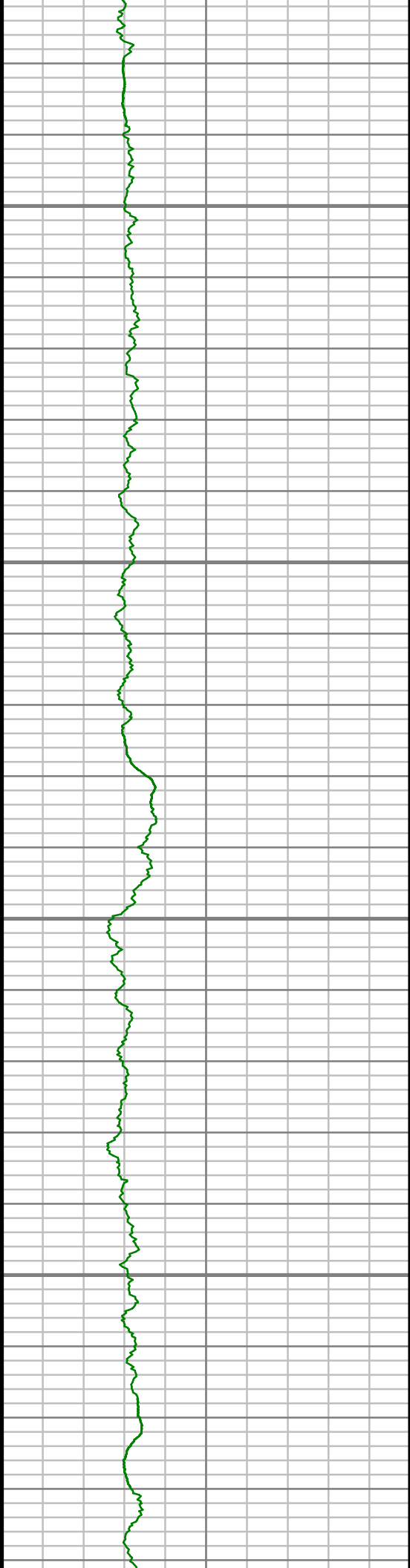
9550



S: 98 MD: 9364.00 ft Inc: 88.56
deg Az: 1.67 deg TVD: 7571.19
ft

S: 99 MD: 9459.00 ft Inc: 89.66
deg Az: 2.94 deg TVD: 7572.66
ft

S: 100 MD: 9554.00 ft Inc:
90.13 deg Az: 2.59 deg TVD:
7572.83 ft

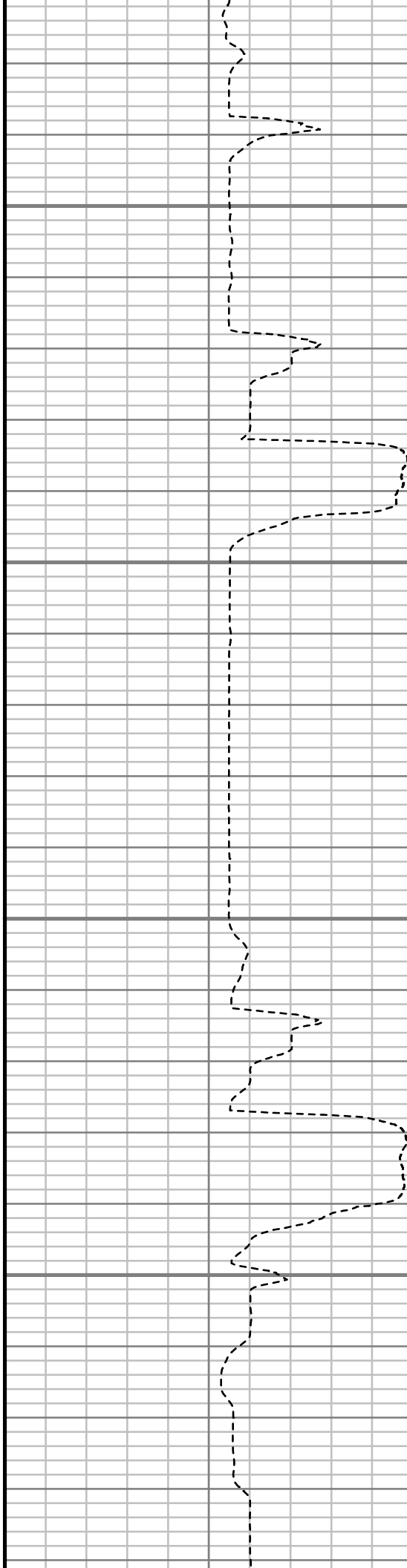


9600

9650

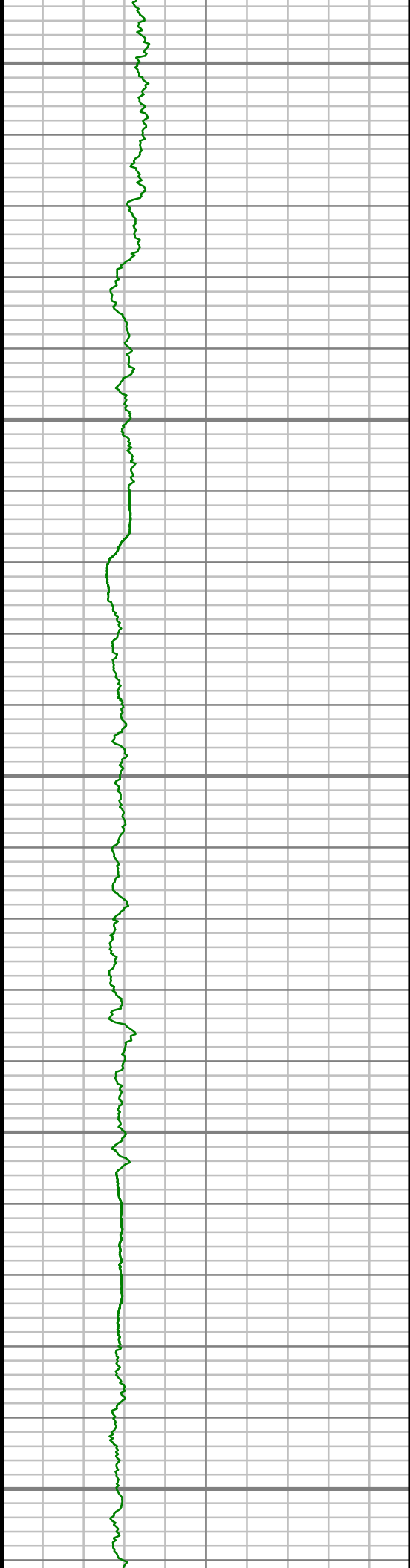
9700

9750



S: 101 MD: 9649.00 ft Inc:
90.64 deg Az: 2.85 deg TVD:
7572.19 ft

S: 102 MD: 9744.00 ft Inc:
90.94 deg Az: 1.88 deg TVD:
7570.88 ft



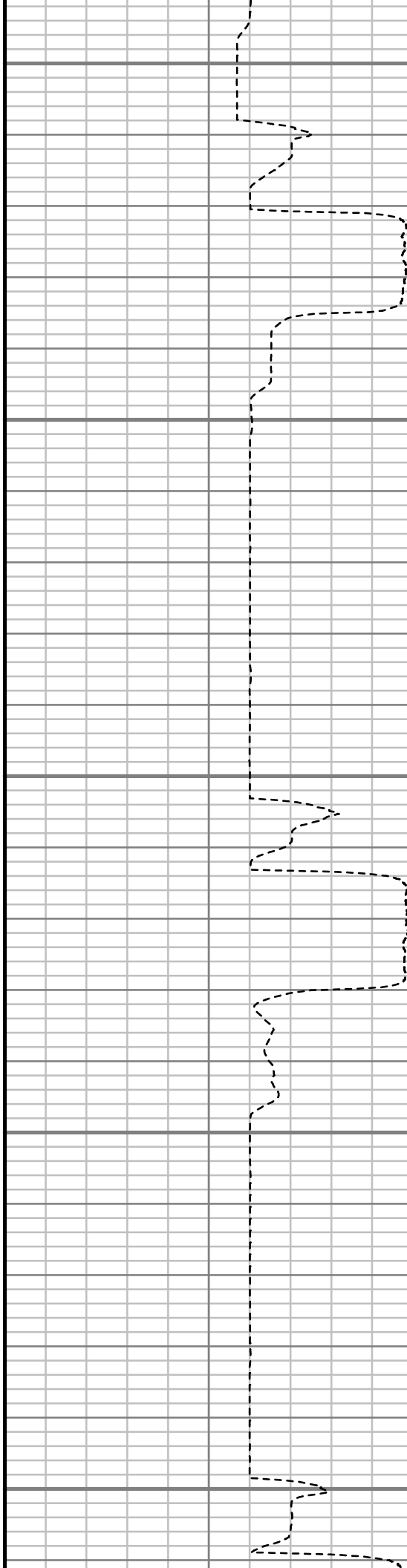
9800

9850

9900

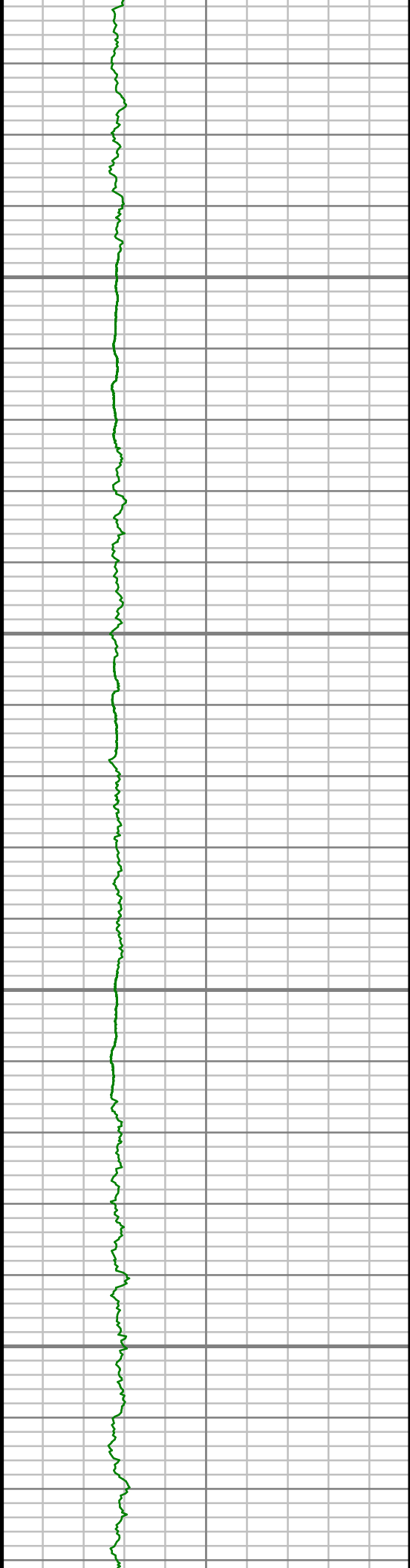
9950

10000



S: 103 MD: 9839.00 ft Inc:
91.11 deg Az: 1.82 deg TVD:
7569.18 ft

S: 104 MD: 9934.00 ft Inc:
91.14 deg Az: 0.92 deg TVD:
7567.32 ft

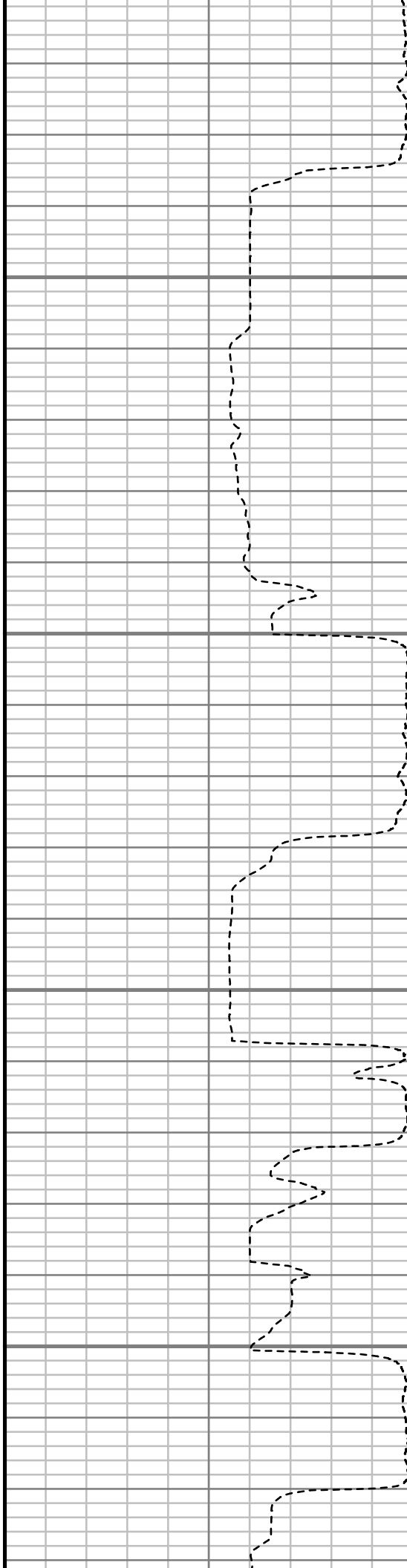


10050

10100

10150

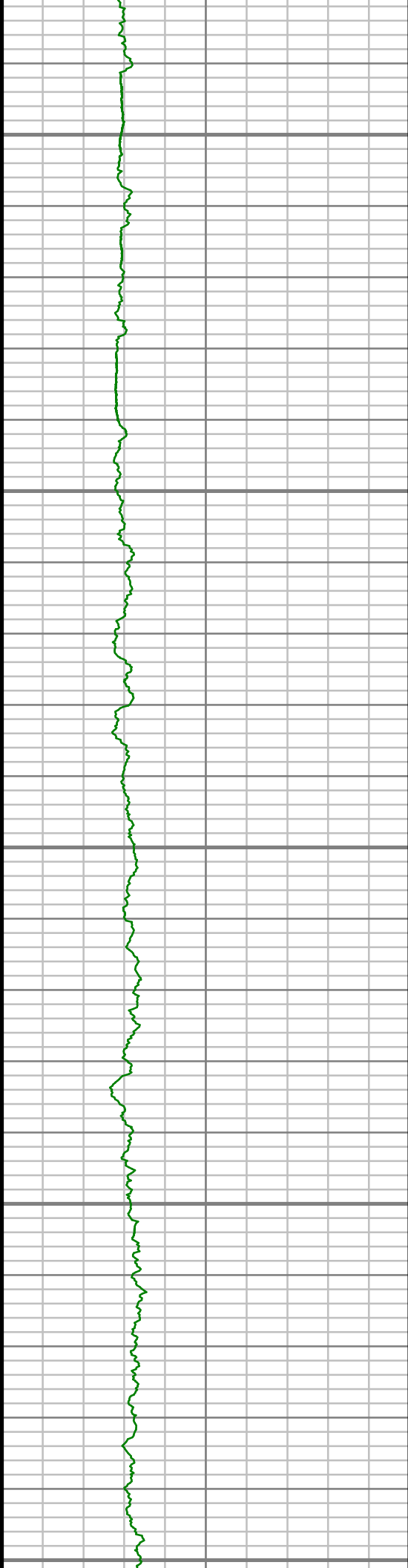
10200



S: 105 MD: 10030.00 ft Inc:
91.01 deg Az: 0.45 deg TVD:
7565.51 ft

S: 106 MD: 10125.00 ft Inc:
90.64 deg Az: 359.56 deg TVD:
7564.15 ft

S: 107 MD: 10220.00 ft Inc:
89.53 deg Az: 359.78 deg TVD:
7564.01 ft



10250

10300

10350

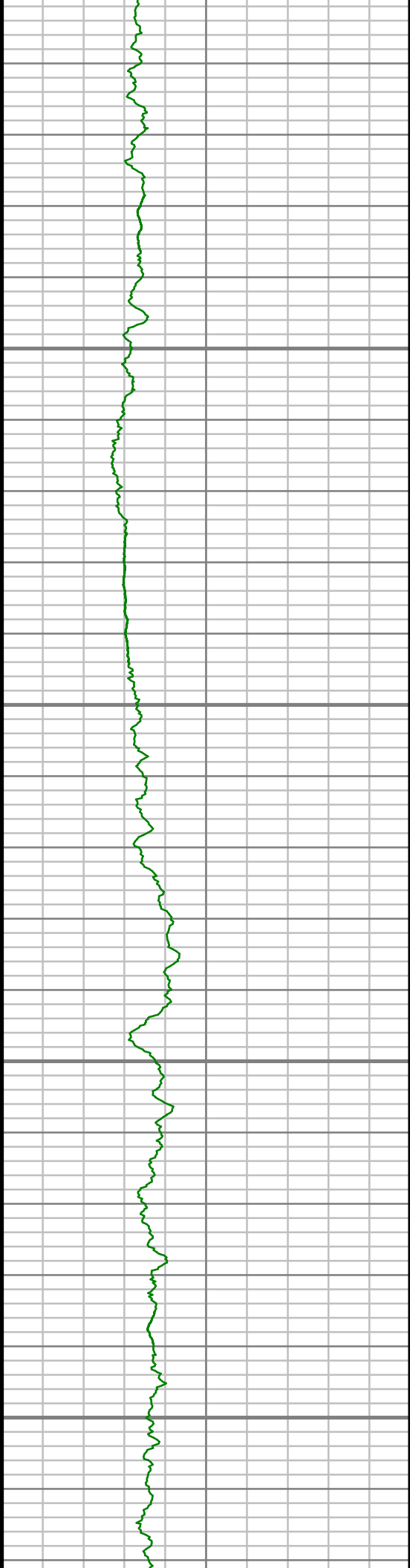
10400

10450



S: 108 MD: 10315.00 ft Inc:
89.73 deg Az: 359.37 deg TVD:
7564.62 ft

S: 109 MD: 10410.00 ft Inc:
89.70 deg Az: 358.15 deg TVD:
7565.10 ft



10500

10550

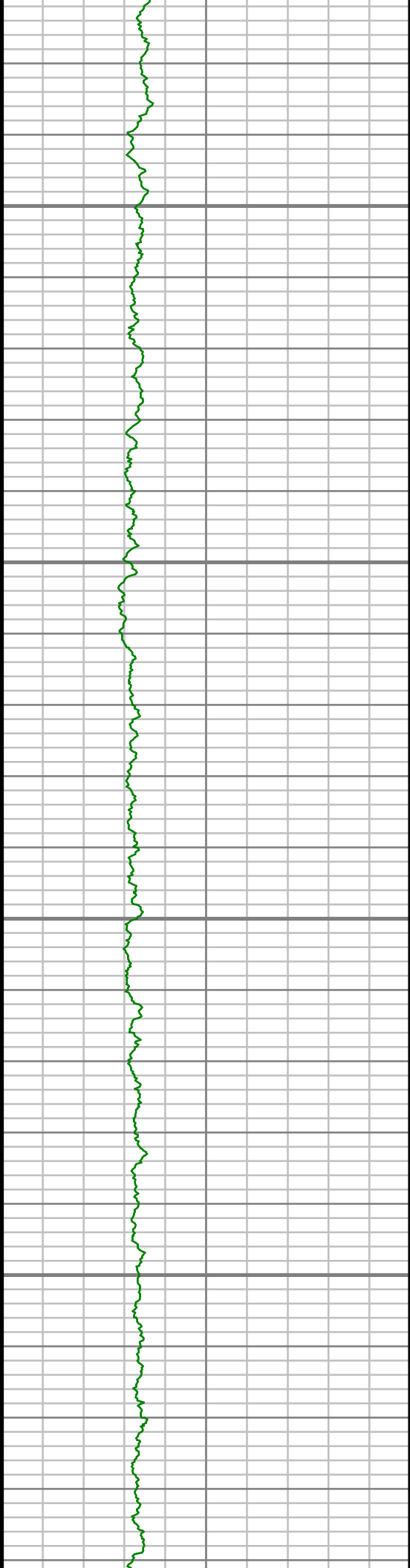
10600

10650



S: 110 MD: 10505.00 ft Inc:
91.11 deg Az: 358.19 deg TVD:
7564.43 ft

S: 111 MD: 10600.00 ft Inc:
88.52 deg Az: 357.99 deg TVD:
7564.73 ft

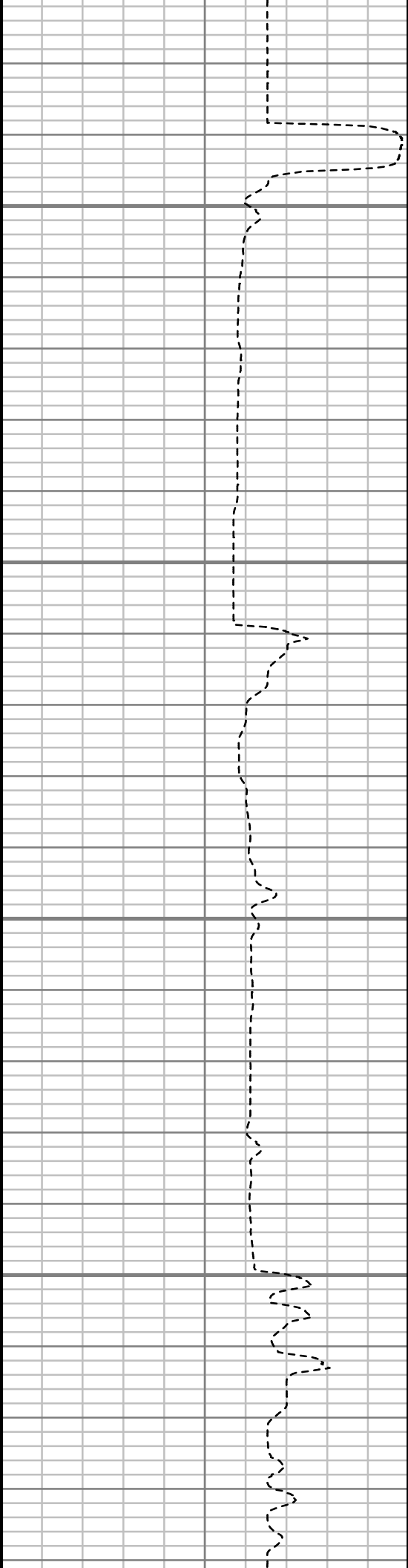


10700

10750

10800

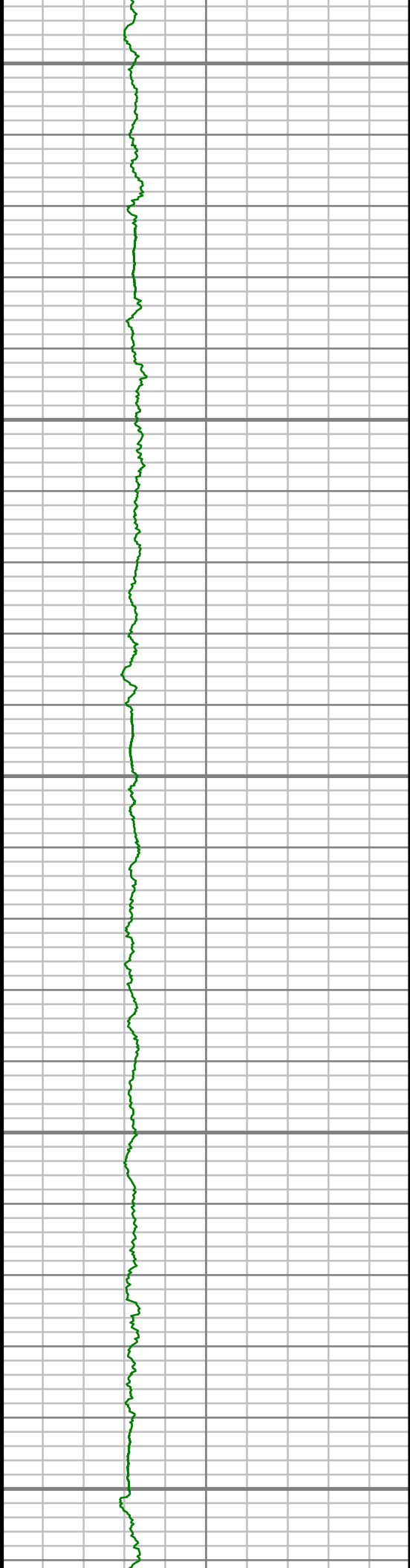
10850



S: 112 MD: 10696.00 ft Inc:
88.32 deg Az: 358.05 deg TVD:
7567.38 ft

S: 113 MD: 10791.00 ft Inc:
89.13 deg Az: 357.71 deg TVD:
7569.50 ft

S: 114 MD: 10886.00 ft Inc:
89.87 deg Az: 357.26 deg TVD:



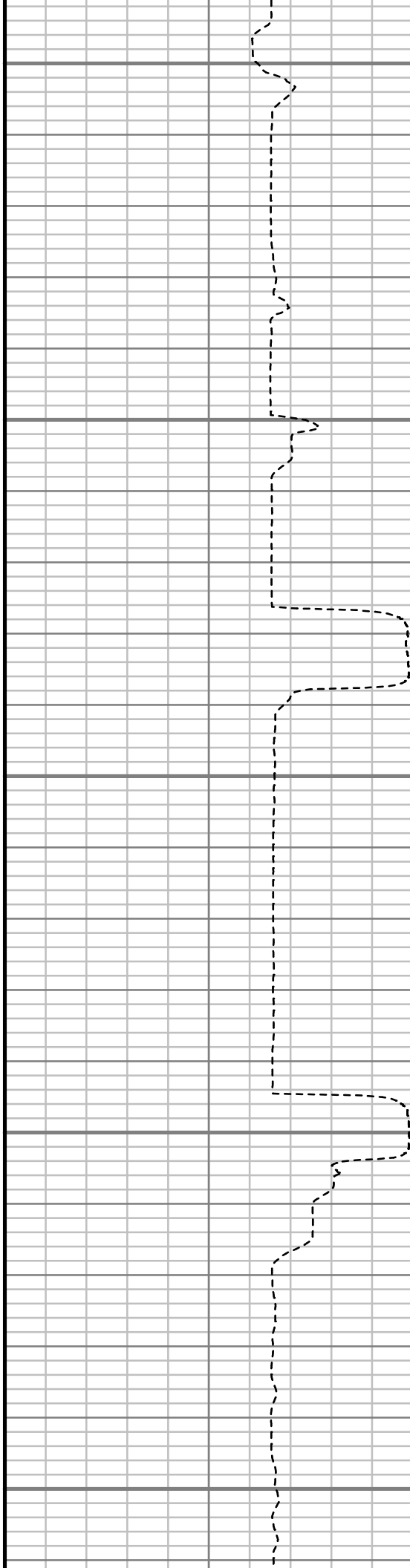
10900

10950

11000

11050

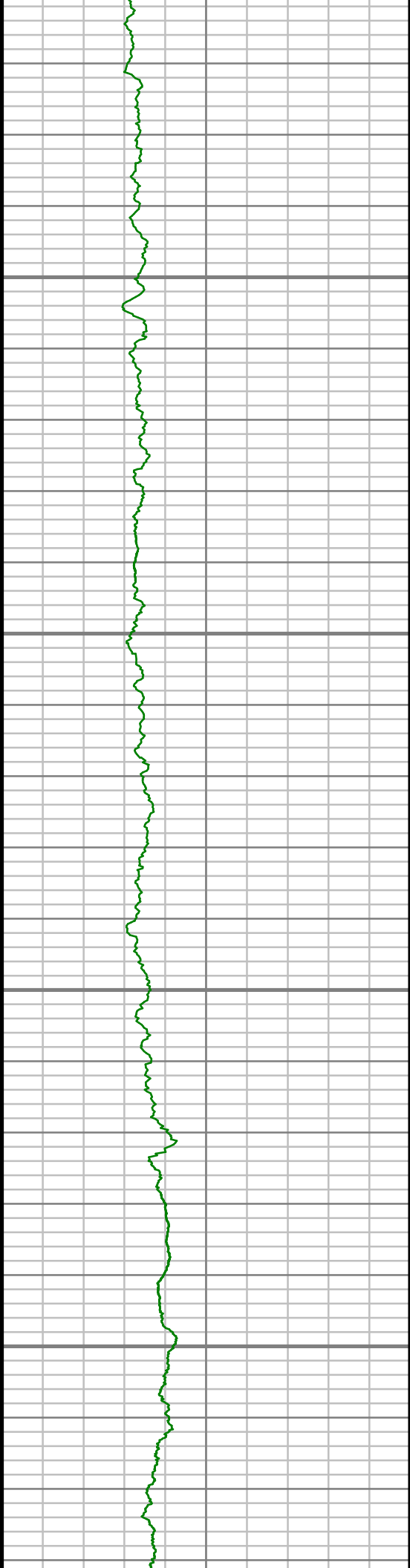
11100



7570.33 ft

S: 115 MD: 10981.00 ft Inc:
90.44 deg Az: 357.01 deg TVD:
7570.08 ft

S: 116 MD: 11076.00 ft Inc:
90.40 deg Az: 358.50 deg TVD:
7569.39 ft

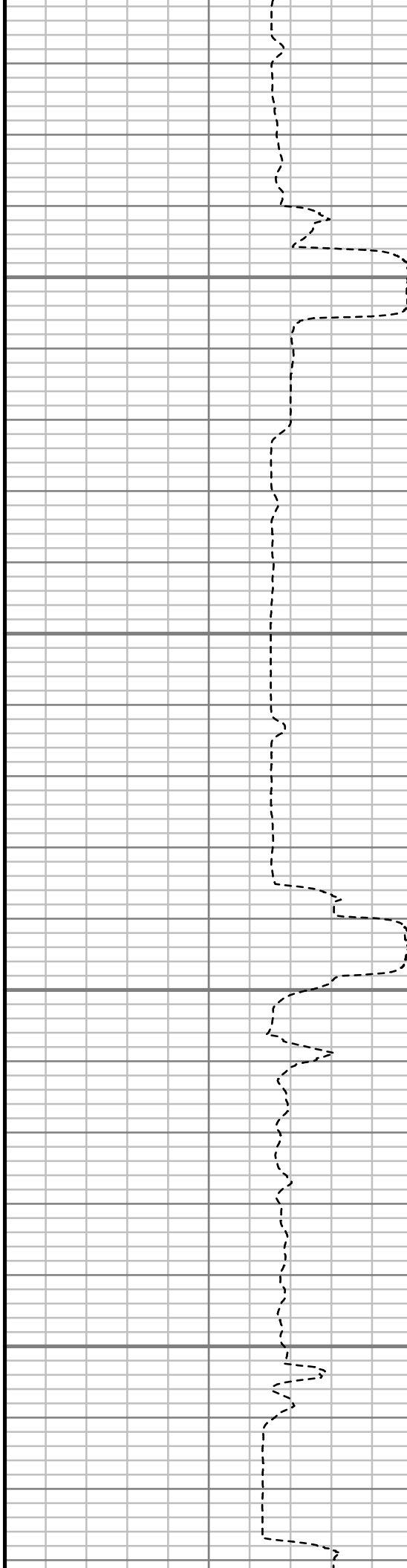


11150

11200

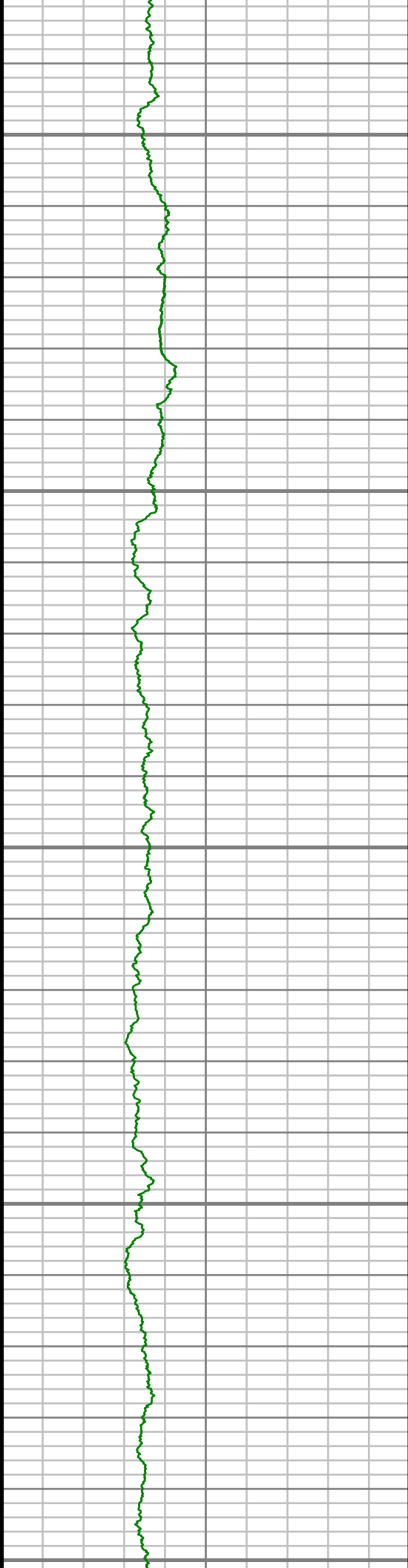
11250

11300



S: 117 MD: 11171.00 ft Inc:
90.30 deg Az: 358.22 deg TVD:
7568.80 ft

S: 118 MD: 11266.00 ft Inc:
91.48 deg Az: 358.64 deg TVD:
7567.33 ft



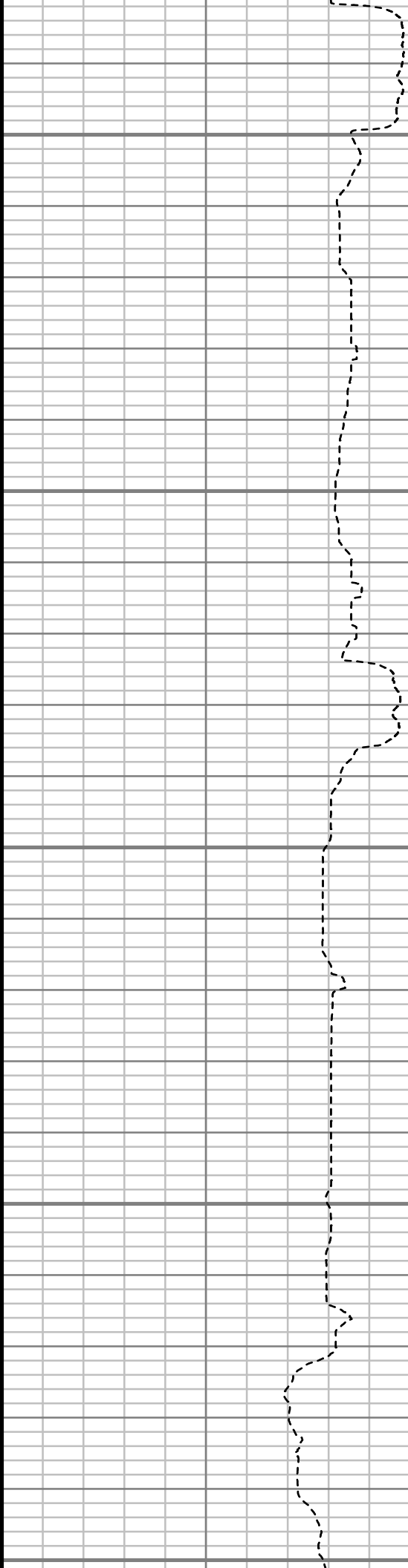
11350

11400

11450

11500

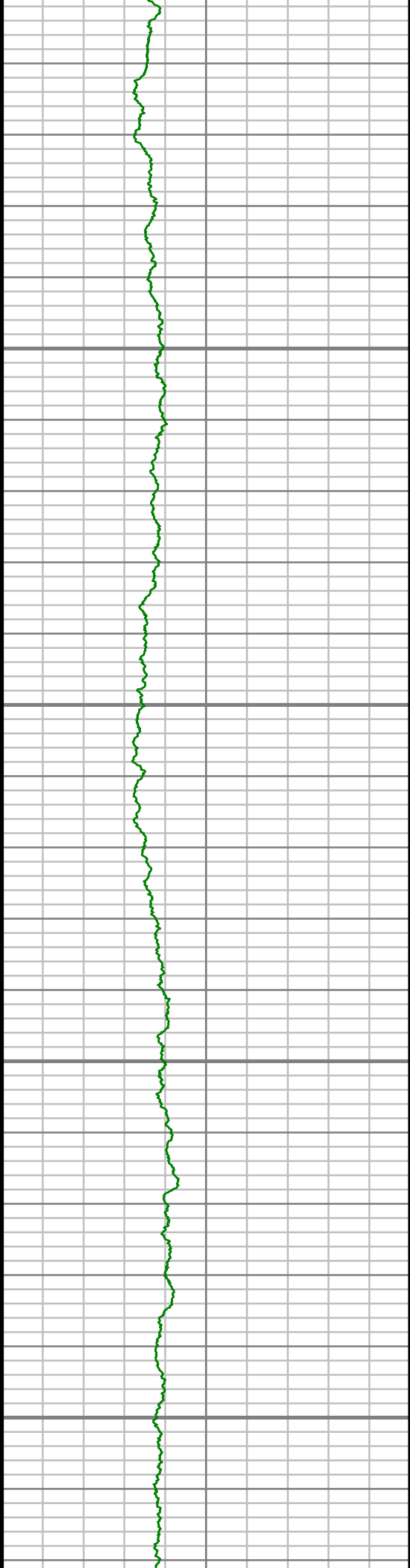
11550



S: 119 MD: 11356.00 ft Inc:
90.87 deg Az: 359.84 deg TVD:
7565.48 ft

S: 120 MD: 11451.00 ft Inc:
89.83 deg Az: 359.79 deg TVD:
7564.90 ft

S: 121 MD: 11546.00 ft Inc:
90.17 deg Az: 359.85 deg TVD:

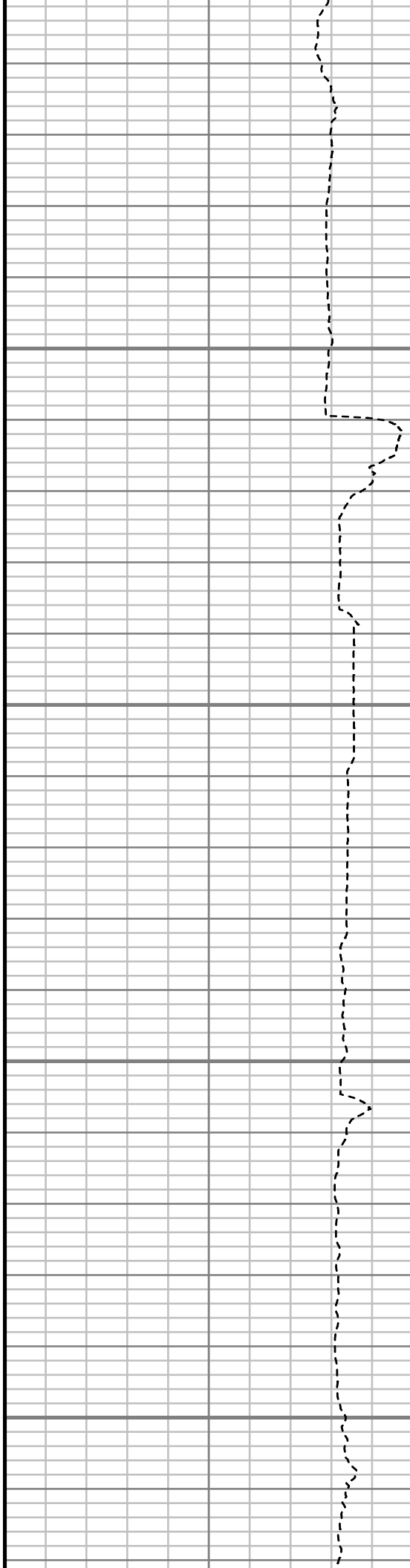


11600

11650

11700

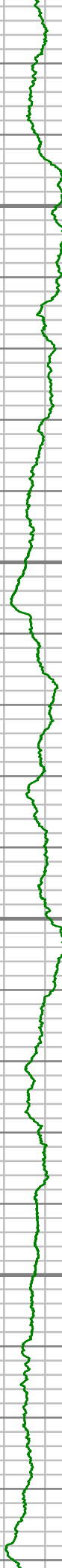
11750



7564.90 ft

S: 122 MD: 11641.00 ft Inc:
89.29 deg Az: 359.55 deg TVD:
7565.34 ft

S: 123 MD: 11736.00 ft Inc:
89.53 deg Az: 359.15 deg TVD:
7566.32 ft



11800

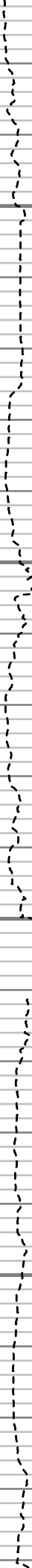
11850

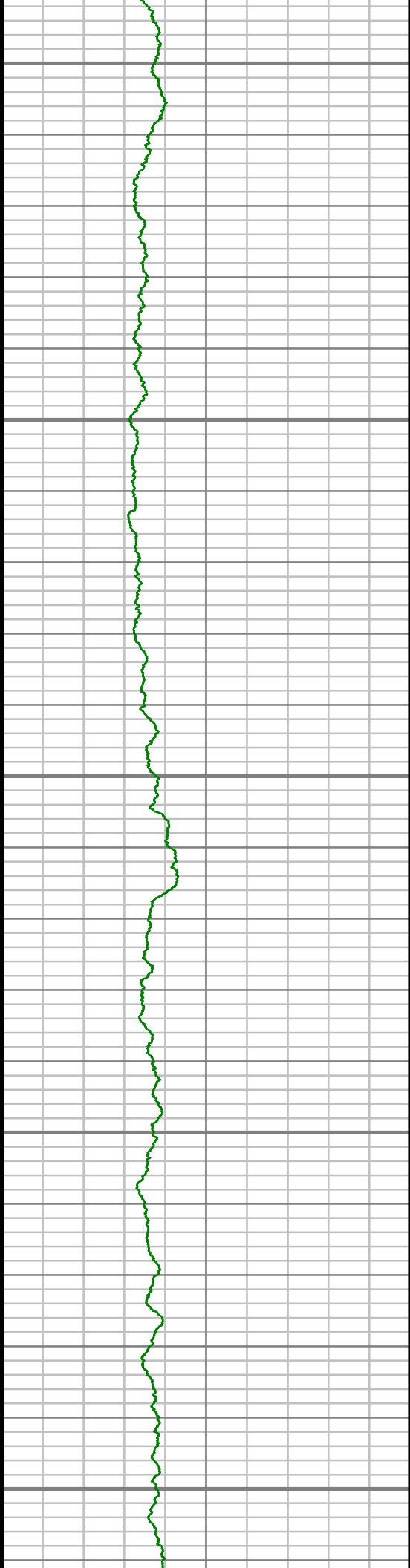
11900

11950

S: 124 MD: 11831.00 ft Inc:
89.83 deg Az: 358.54 deg TVD:
7566.85 ft

S: 125 MD: 11926.00 ft Inc:
90.44 deg Az: 357.43 deg TVD:
7566.63 ft





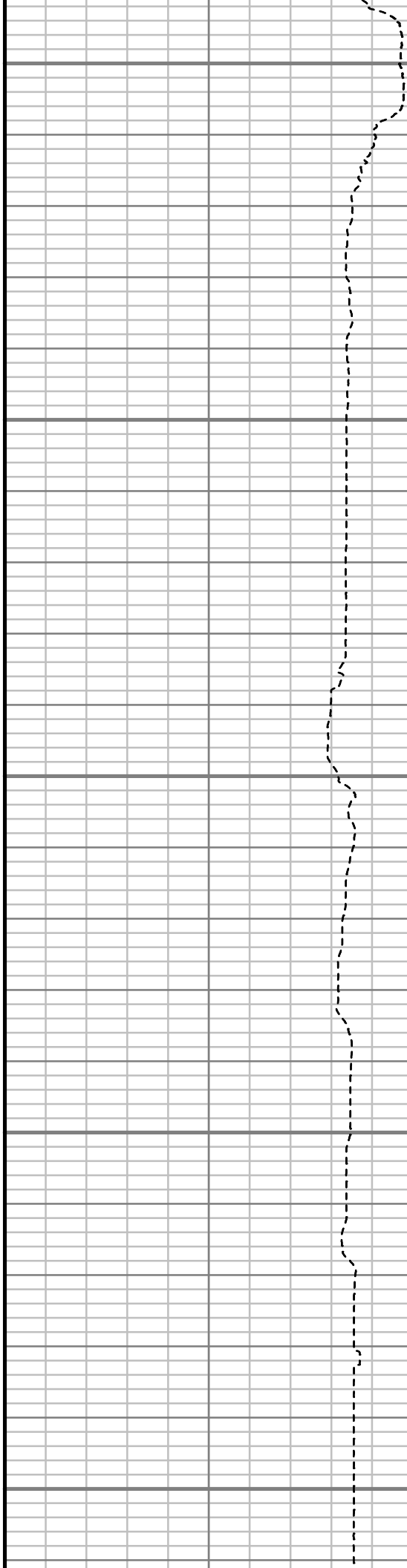
12000

12050

12100

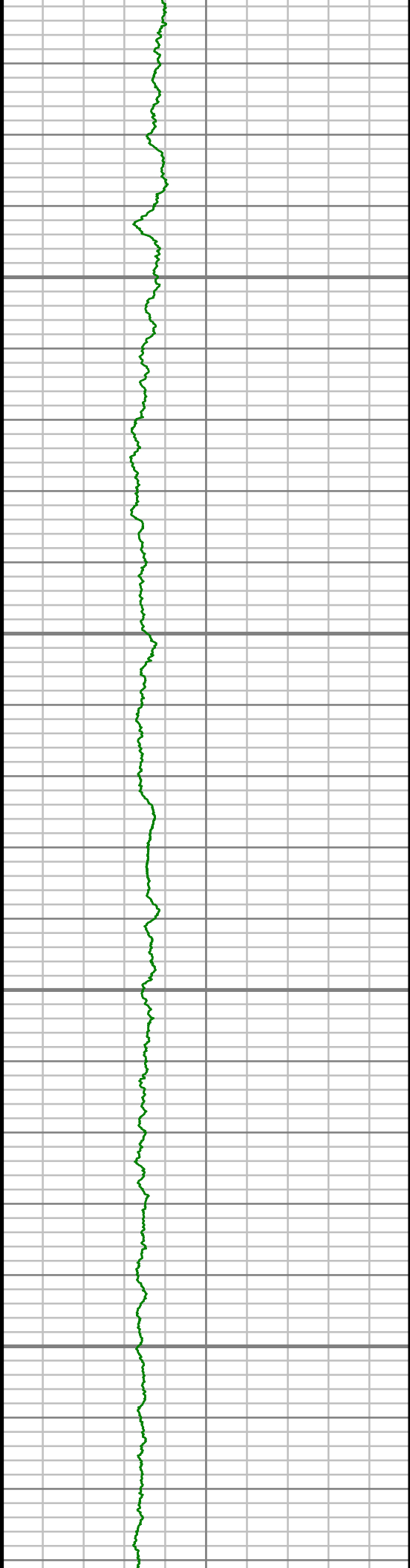
12150

12200



S: 126 MD: 12021.00 ft Inc:
90.27 deg Az: 355.69 deg TVD:
7566.04 ft

S: 127 MD: 12116.00 ft Inc:
90.57 deg Az: 355.31 deg TVD:
7565.35 ft

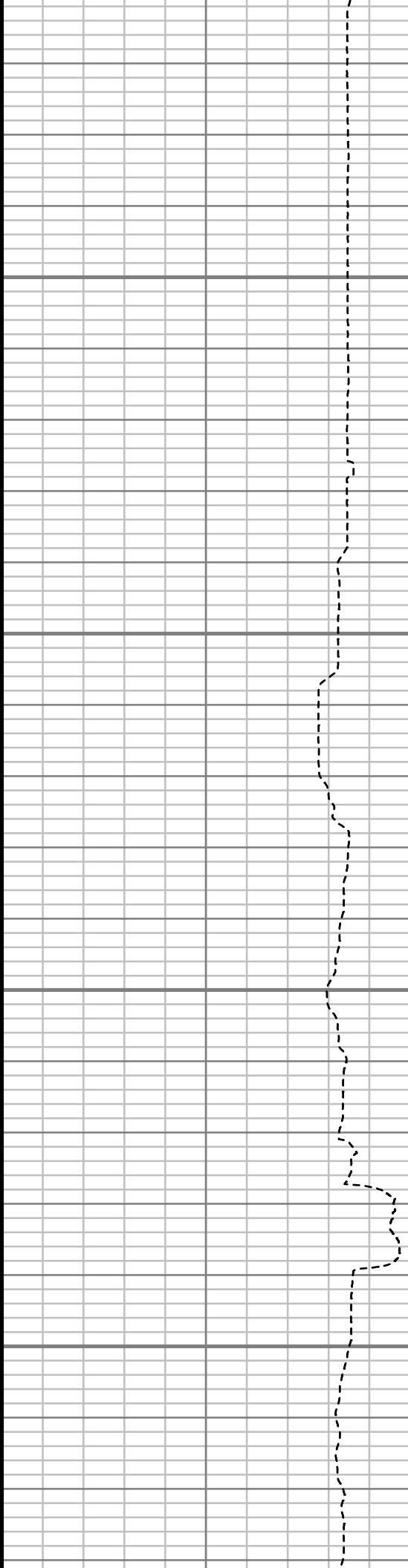


12250

12300

12350

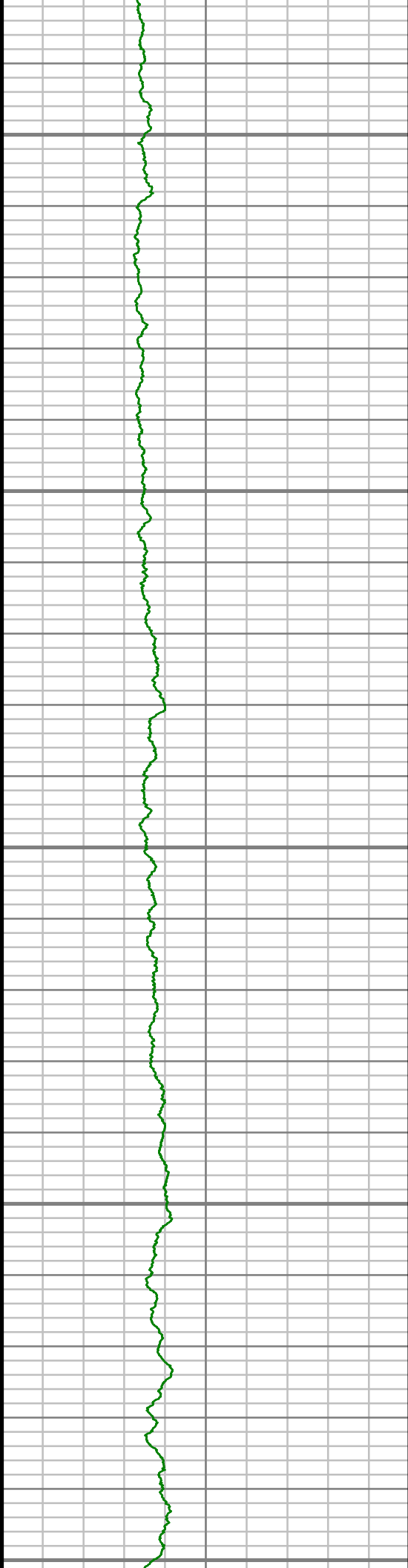
12400



S: 128 MD: 12211.00 ft Inc:
90.67 deg Az: 354.64 deg TVD:
7564.32 ft

S: 129 MD: 12307.00 ft Inc:
91.04 deg Az: 353.75 deg TVD:
7562.88 ft

S: 130 MD: 12402.00 ft Inc:
89.90 deg Az: 353.75 deg TVD:
7562.10 ft



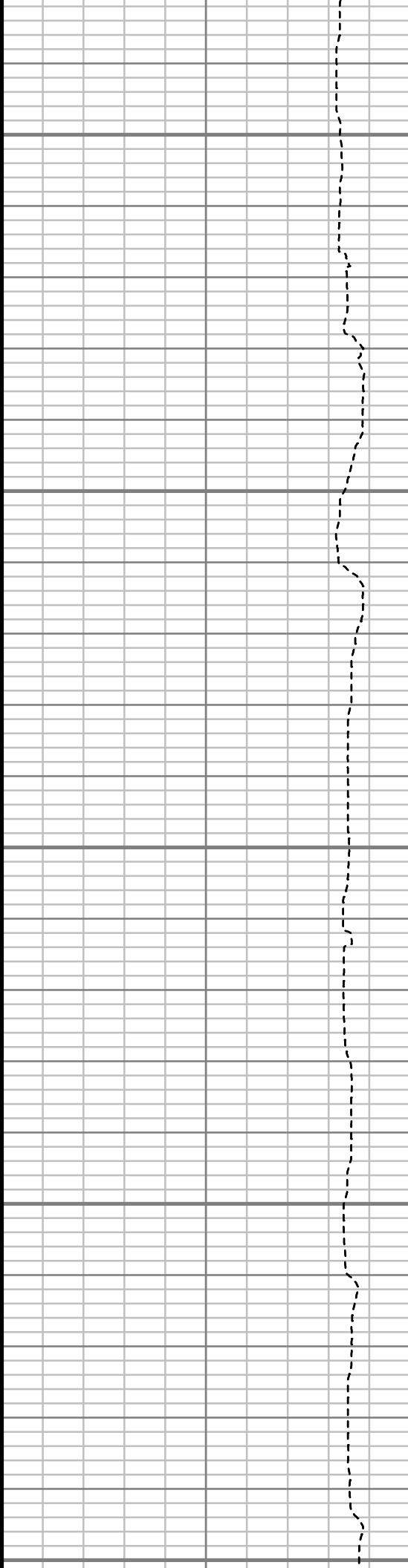
12450

12500

12550

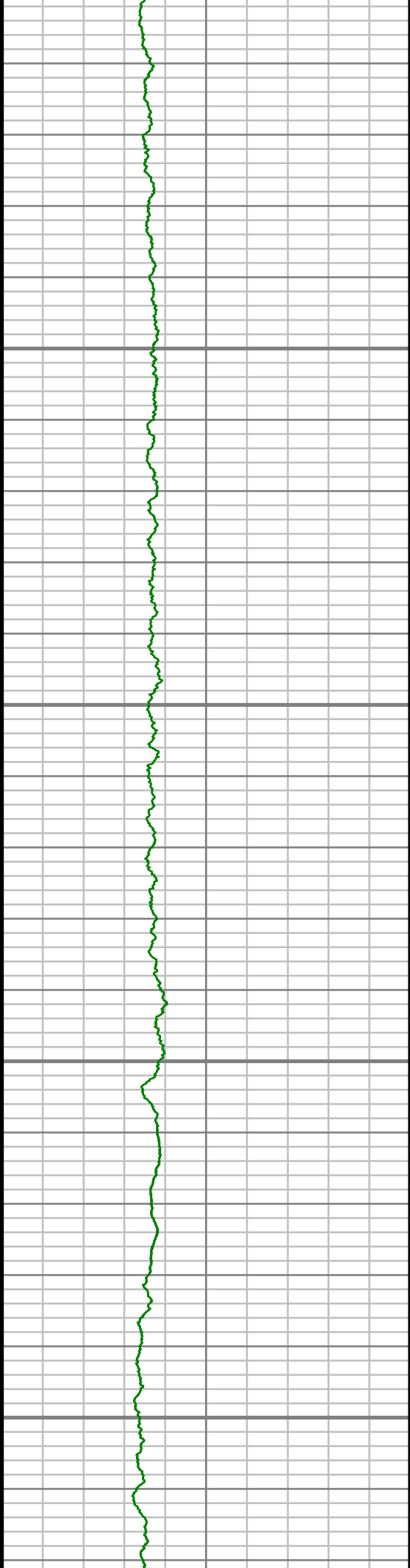
12600

12650



S: 131 MD: 12497.00 ft Inc:
90.03 deg Az: 352.77 deg TVD:
7562.16 ft

S: 132 MD: 12592.00 ft Inc:
90.23 deg Az: 352.66 deg TVD:
7561.94 ft

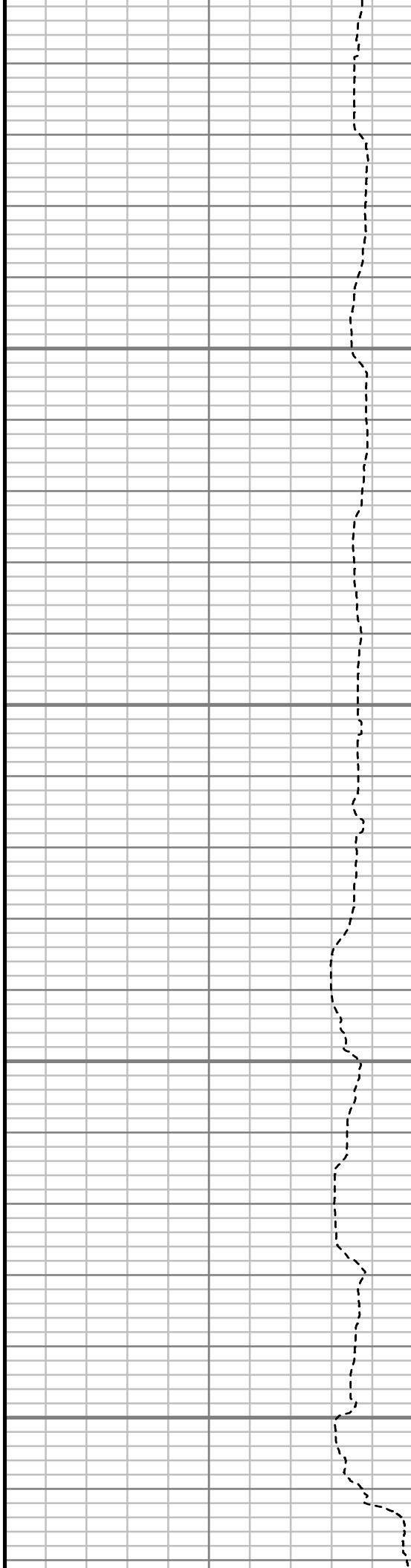


12700

12750

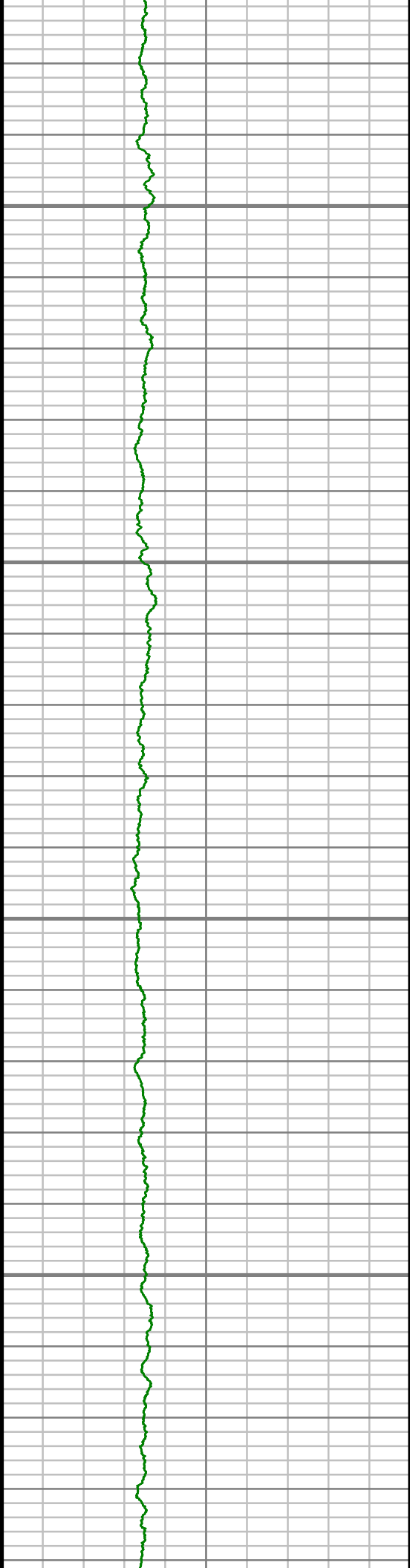
12800

12850



S: 133 MD: 12687.00 ft Inc:
90.40 deg Az: 351.73 deg TVD:
7561.41 ft

S: 134 MD: 12782.00 ft Inc:
90.74 deg Az: 350.56 deg TVD:
7560.46 ft

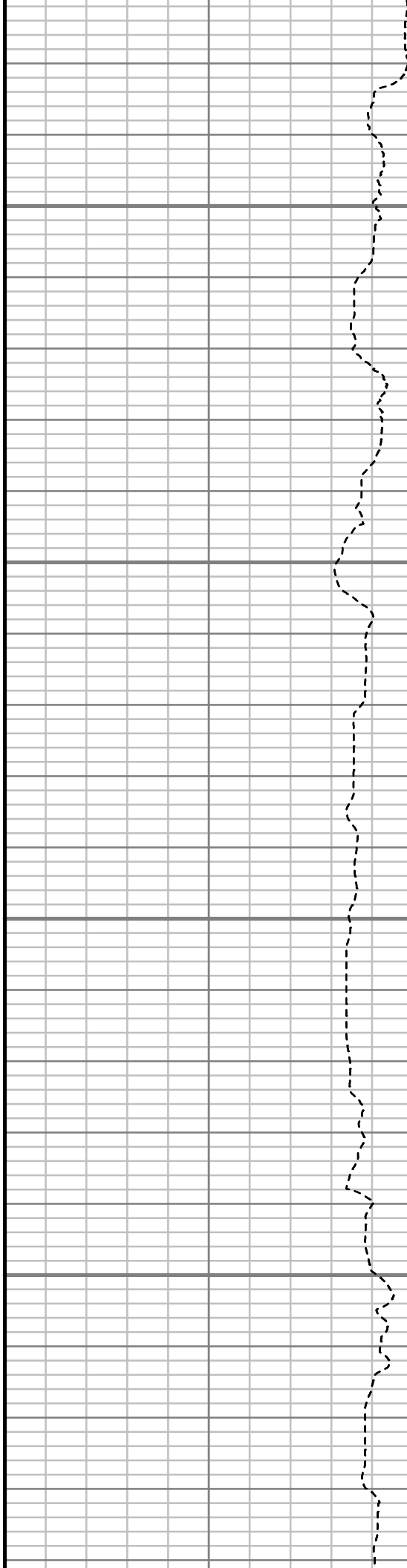


12900

12950

13000

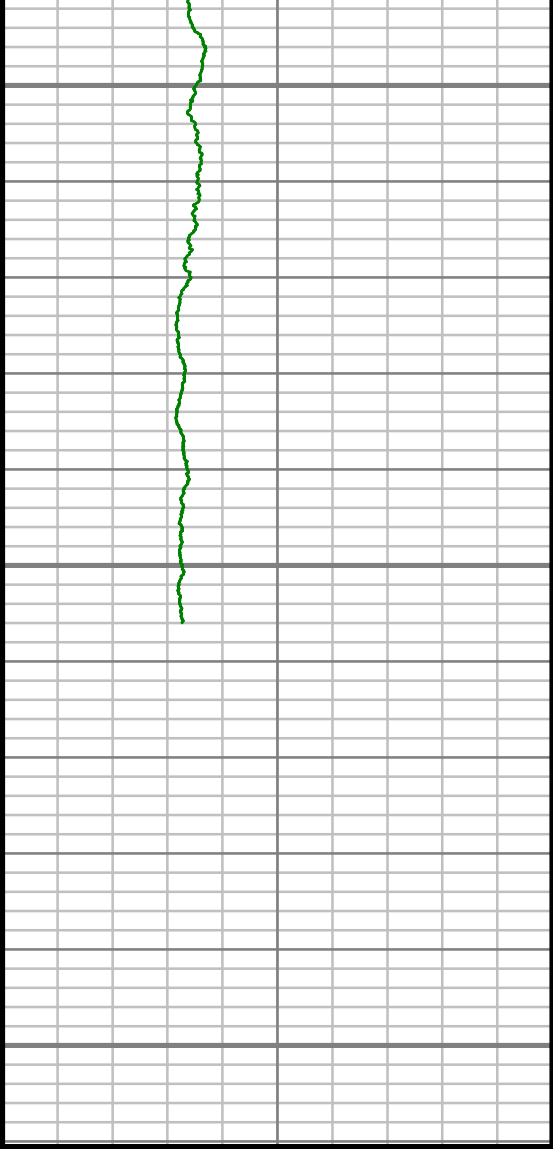
13050



S: 135 MD: 12878.00 ft Inc:
90.37 deg Az: 351.71 deg TVD:
7559.53 ft

S: 136 MD: 12973.00 ft Inc:
90.97 deg Az: 351.81 deg TVD:
7558.42 ft

S: 137 MD: 13068.00 ft Inc:
91.31 deg Az: 350.49 deg TVD:
7556.53 ft



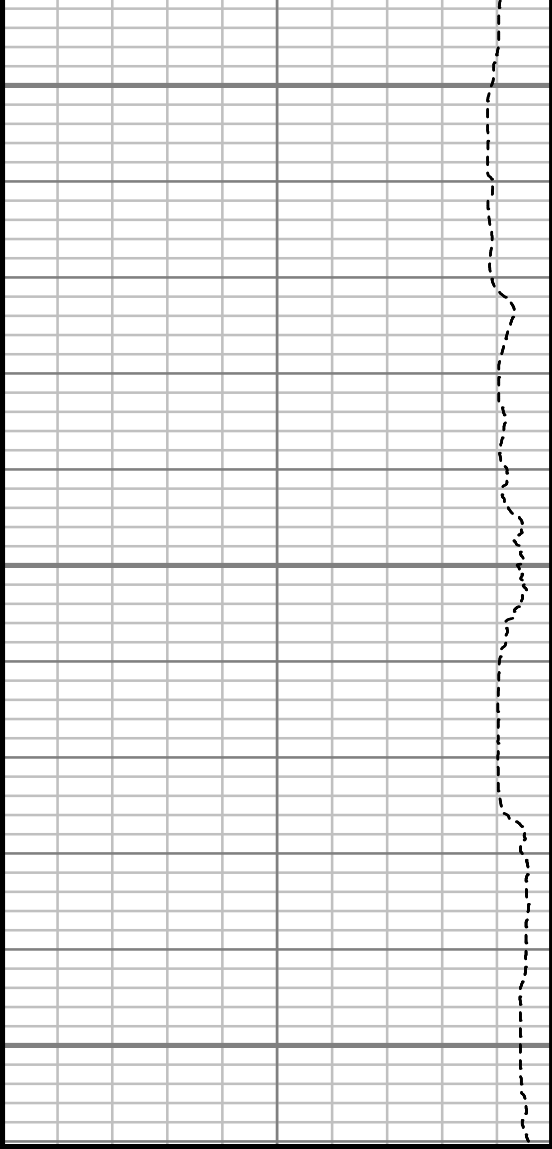
Gamma Ray (GR)		
0	Unit = aapi	150

13100

13150

13200

MEASURED DEPTH
1,240 (ft)



Rate of Penetration (ROP)	
500	0

S: 138 MD: 13145.00 ft Inc:
91.68 deg Az: 350.54 deg TVD:
7554.52 ft

Comments



MWD Survey Report

Well Location	SPRAGUE
Well Name	SPRAGUE 3J-9H-N267 PRODUCTION
Survey Date	4/26/2015
Latitude	40°8'49.236"N
Longitude	104°53'53.916"W
Btotal	52453 nT
Dip	66.68 deg
Magnetic Declination	8.51 deg
North Reference	True North
Grid Correction	None
Depth Reference	RKB (28.50 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 18.28Azim (deg)
Operator(s)	J. GREGORY, J. PARISEE, M. SMITH

Well Notes

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
316.00	3.90	108.44	315.76	-0.03	-3.40	10.20	108.44	10.75	1.23
409.00	5.99	105.20	408.40	0.22	-5.67	17.88	107.60	18.76	2.27
503.00	7.74	101.58	501.73	1.22	-8.23	28.82	105.94	29.97	1.92
596.00	9.53	105.44	593.67	2.34	-11.54	42.37	105.23	43.92	2.02
690.00	10.80	106.01	686.19	3.07	-16.04	58.34	105.37	60.51	1.36
783.00	11.11	102.40	777.50	4.33	-20.37	75.47	105.10	78.17	0.81
818.00	11.17	101.54	811.84	5.08	-21.77	82.08	104.85	84.92	0.50
903.00	12.10	99.23	895.09	7.44	-24.84	98.94	104.10	102.01	1.22
996.00	12.97	95.85	985.88	11.22	-27.47	118.94	103.01	122.07	1.22
1090.00	13.88	94.02	1077.31	16.27	-29.34	140.68	101.78	143.70	1.07
1183.00	16.91	96.70	1166.96	21.73	-31.70	165.24	100.86	168.26	3.35
1277.00	19.96	98.90	1256.13	27.09	-35.77	194.68	100.41	197.94	3.32
1370.00	19.76	101.44	1343.60	31.55	-41.35	225.77	100.38	229.53	0.95
1464.00	19.80	105.44	1432.06	34.23	-48.74	256.69	100.75	261.28	1.44
1558.00	19.72	103.86	1520.53	36.24	-56.78	287.43	101.17	292.98	0.57
1654.00	19.16	105.79	1611.06	38.18	-64.94	318.31	101.53	324.87	0.88
1748.00	18.95	102.87	1699.91	40.29	-72.54	348.03	101.77	355.51	1.04
1843.00	19.42	102.57	1789.63	43.31	-79.41	378.48	101.85	386.72	0.51

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
1937.00	19.07	108.75	1878.39	44.74	-87.75	408.28	102.13	417.60	2.20
2032.00	18.69	107.72	1968.28	44.76	-97.37	437.47	102.55	448.18	0.54
2127.00	19.59	108.87	2058.03	44.74	-107.16	467.04	102.92	479.18	1.03
2221.00	18.91	107.00	2146.77	44.92	-116.71	496.52	103.23	510.05	0.98
2316.00	19.60	107.97	2236.46	45.35	-126.12	526.39	103.47	541.29	0.80
2410.00	19.71	108.39	2324.98	45.41	-135.99	556.43	103.73	572.81	0.19
2505.00	18.75	106.38	2414.68	45.89	-145.34	586.29	103.92	604.03	1.23
2601.00	18.87	108.70	2505.55	46.28	-154.67	615.80	104.10	634.93	0.79
2695.00	20.33	111.82	2594.10	45.16	-165.62	645.36	104.39	666.28	1.91
2789.00	20.77	108.39	2682.12	44.12	-176.95	676.35	104.66	699.11	1.36
2885.00	20.79	109.46	2771.88	43.74	-188.00	708.56	104.86	733.08	0.40
2979.00	19.80	107.23	2860.04	43.69	-198.27	739.50	105.01	765.62	1.34
3074.00	19.09	105.94	2949.63	44.62	-207.30	769.81	105.07	797.23	0.87
3168.00	18.84	105.65	3038.52	45.94	-215.62	799.20	105.10	827.78	0.28
3262.00	17.56	105.15	3127.82	47.41	-223.42	827.51	105.11	857.14	1.37
3357.00	19.45	105.15	3217.90	49.06	-231.30	856.62	105.11	887.29	1.99
3451.00	19.92	106.95	3306.41	50.29	-240.06	887.04	105.14	918.95	0.81
3547.00	18.63	105.97	3397.02	51.29	-249.05	917.43	105.19	950.64	1.38

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
3642.00	18.24	103.42	3487.15	53.16	-256.67	946.49	105.17	980.68	0.94
3737.00	18.56	104.37	3577.29	55.45	-263.87	975.60	105.13	1010.66	0.46
3831.00	19.05	104.99	3666.27	57.35	-271.56	1004.92	105.12	1040.96	0.56
3926.00	19.18	108.90	3756.03	58.07	-280.62	1034.66	105.17	1072.04	1.35
4021.00	19.70	108.92	3845.61	57.73	-290.87	1064.58	105.28	1103.60	0.54
4115.00	18.82	108.23	3934.35	57.57	-300.75	1093.97	105.37	1134.56	0.97
4210.00	18.49	106.65	4024.36	58.01	-309.85	1122.96	105.43	1164.92	0.63
4304.00	19.89	104.85	4113.14	59.39	-318.22	1152.70	105.43	1195.81	1.61
4398.00	19.63	105.45	4201.60	61.13	-326.53	1183.37	105.43	1227.59	0.35
4493.00	20.06	105.47	4290.96	62.72	-335.12	1214.45	105.43	1259.84	0.45
4588.00	19.20	104.83	4380.44	64.45	-343.47	1245.25	105.42	1291.75	0.93
4682.00	19.38	103.87	4469.16	66.58	-351.16	1275.34	105.39	1322.80	0.39
4776.00	19.94	104.81	4557.68	68.75	-359.00	1305.98	105.37	1354.42	0.68
4871.00	21.24	103.72	4646.61	71.11	-367.22	1338.36	105.34	1387.83	1.43
4965.00	20.29	103.26	4734.50	73.89	-374.99	1370.77	105.30	1421.14	1.03
5060.00	18.20	102.01	4824.19	76.95	-381.86	1401.32	105.24	1452.41	2.24
5154.00	18.56	103.33	4913.40	79.85	-388.36	1430.23	105.19	1482.02	0.59
5249.00	18.94	103.31	5003.35	82.49	-395.39	1459.94	105.15	1512.54	0.40

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
5344.00	20.14	106.47	5092.88	84.34	-403.58	1490.63	105.15	1544.30	1.69
5439.00	18.27	105.49	5182.59	85.58	-412.20	1520.67	105.17	1575.55	1.99
5533.00	17.40	109.47	5272.08	86.00	-420.82	1548.13	105.21	1604.30	1.60
5627.00	17.29	108.79	5361.80	85.59	-430.00	1574.60	105.27	1632.26	0.25
5722.00	18.40	106.12	5452.23	86.02	-438.72	1602.37	105.31	1661.34	1.45
5817.00	18.19	105.25	5542.43	87.37	-446.78	1631.07	105.32	1691.16	0.36
5912.00	17.25	101.60	5632.93	89.79	-453.51	1659.17	105.29	1720.04	1.53
6006.00	17.32	106.55	5722.69	91.84	-460.30	1686.24	105.27	1747.93	1.56
6101.00	16.95	107.55	5813.47	92.44	-468.50	1713.00	105.30	1775.91	0.49
6195.00	17.73	107.17	5903.20	92.90	-476.86	1739.74	105.33	1803.91	0.83
6290.00	18.02	107.77	5993.61	93.31	-485.61	1767.56	105.36	1833.05	0.36
6387.00	14.52	104.61	6086.71	94.22	-493.26	1793.62	105.38	1860.21	3.72
6482.00	13.72	102.46	6178.84	96.13	-498.70	1816.15	105.35	1883.37	1.00
6577.00	12.08	105.30	6271.44	97.78	-503.75	1836.74	105.34	1904.57	1.86
6672.00	9.99	103.51	6364.68	98.99	-508.30	1854.34	105.33	1922.74	2.22
6767.00	8.06	97.74	6458.50	100.89	-511.12	1868.95	105.30	1937.59	2.24
6862.00	6.34	94.09	6552.75	103.39	-512.40	1880.79	105.24	1949.34	1.87
6957.00	4.90	89.89	6647.29	105.96	-512.76	1890.08	105.18	1958.40	1.58

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
7052.00	3.12	86.67	6742.06	108.19	-512.60	1896.71	105.12	1964.76	1.88
7147.00	2.24	85.95	6836.95	109.85	-512.32	1901.15	105.08	1968.97	0.92
7241.00	1.63	86.40	6930.90	111.04	-512.11	1904.31	105.05	1971.97	0.65
7336.00	2.93	347.12	7025.85	113.63	-509.65	1905.12	104.98	1972.11	3.77
7431.00	5.58	17.01	7120.59	120.32	-502.87	1905.93	104.78	1971.15	3.54
7517.00	8.40	19.33	7205.94	130.78	-492.95	1909.23	104.48	1971.84	3.30
7611.00	18.38	3.44	7297.30	152.03	-471.62	1912.40	103.85	1969.69	11.22
7706.00	26.95	356.91	7384.89	186.62	-435.10	1912.13	102.82	1961.01	9.39
7797.00	37.45	354.17	7461.79	231.21	-386.84	1908.20	101.46	1947.02	11.64
7894.00	51.88	350.44	7530.61	292.20	-319.51	1898.82	99.55	1925.52	15.12
7989.00	67.46	349.37	7578.44	364.10	-239.04	1884.44	97.23	1899.54	16.43
8065.00	80.94	351.73	7599.09	428.70	-167.07	1872.52	95.10	1879.95	17.98
8127.00	88.35	355.22	7604.87	484.69	-105.79	1865.52	93.25	1868.51	13.21
8222.00	92.89	355.88	7603.84	572.28	-11.11	1858.14	90.34	1858.17	4.82
8317.00	94.57	358.03	7597.66	660.58	83.55	1853.10	87.42	1854.98	2.87
8412.00	95.17	358.52	7589.59	749.52	178.16	1850.25	84.50	1858.81	0.82
8508.00	93.22	0.10	7582.56	840.06	273.89	1849.10	81.57	1869.27	2.61
8603.00	92.85	0.29	7577.53	930.24	368.75	1849.42	78.72	1885.83	0.44

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
8698.00	91.01	1.04	7574.33	1020.73	463.69	1850.52	75.93	1907.73	2.10
8793.00	92.18	0.83	7571.68	1111.37	558.64	1852.08	73.22	1934.49	1.25
8888.00	91.14	1.33	7568.93	1202.08	653.58	1853.87	70.58	1965.70	1.21
8983.00	88.32	1.77	7569.38	1293.05	748.53	1856.44	68.04	2001.67	3.01
9079.00	90.94	0.78	7569.99	1384.84	844.50	1858.58	65.56	2041.44	2.92
9174.00	90.77	1.11	7568.57	1475.52	939.47	1860.14	63.20	2083.92	0.40
9269.00	88.76	1.17	7568.96	1566.29	1034.45	1862.03	60.95	2130.08	2.12
9364.00	88.56	1.67	7571.19	1657.19	1129.39	1864.39	58.79	2179.79	0.57
9459.00	89.66	2.94	7572.66	1748.50	1224.30	1868.21	56.76	2233.64	1.77
9554.00	90.13	2.59	7572.83	1840.04	1319.19	1872.80	54.84	2290.77	0.62
9649.00	90.64	2.85	7572.19	1931.56	1414.08	1877.30	53.01	2350.30	0.60
9744.00	90.94	1.88	7570.88	2022.90	1508.99	1881.22	51.27	2411.65	1.07
9839.00	91.11	1.82	7569.18	2114.01	1603.93	1884.29	49.60	2474.49	0.19
9934.00	91.14	0.92	7567.32	2204.88	1698.88	1886.56	48.00	2538.76	0.94
10030.00	91.01	0.45	7565.51	2296.38	1794.85	1887.70	46.44	2604.79	0.52
10125.00	90.64	359.56	7564.15	2386.57	1889.84	1887.70	44.97	2671.13	1.01
10220.00	89.53	359.78	7564.01	2476.60	1984.84	1887.15	43.55	2738.79	1.19
10315.00	89.73	359.37	7564.62	2566.58	2079.84	1886.45	42.21	2807.92	0.48

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
10410.00	89.70	358.15	7565.10	2656.12	2174.81	1884.40	40.91	2877.63	1.28
10505.00	91.11	358.19	7564.43	2745.33	2269.76	1881.37	39.65	2948.11	1.49
10600.00	88.52	357.99	7564.73	2834.48	2364.70	1878.21	38.46	3019.84	2.73
10696.00	88.32	358.05	7567.38	2924.51	2460.60	1874.90	37.31	3093.51	0.22
10791.00	89.13	357.71	7569.50	3013.53	2555.51	1871.39	36.22	3167.45	0.92
10886.00	89.87	357.26	7570.33	3102.34	2650.42	1867.22	35.16	3242.10	0.91
10981.00	90.44	357.01	7570.08	3190.94	2745.30	1862.47	34.15	3317.45	0.65
11076.00	90.40	358.50	7569.39	3279.91	2840.22	1858.76	33.20	3394.38	1.56
11171.00	90.30	358.22	7568.80	3369.22	2935.18	1856.04	32.31	3472.77	0.31
11266.00	91.48	358.64	7567.33	3458.56	3030.13	1853.43	31.45	3552.03	1.31
11356.00	90.87	359.84	7565.48	3543.62	3120.10	1852.24	30.70	3628.47	1.50
11451.00	89.83	359.79	7564.90	3633.73	3215.10	1851.94	29.94	3710.33	1.10
11546.00	90.17	359.85	7564.90	3723.84	3310.10	1851.64	29.22	3792.80	0.36
11641.00	89.29	359.55	7565.34	3813.89	3405.09	1851.14	28.53	3875.74	0.97
11736.00	89.53	359.15	7566.32	3903.74	3500.08	1850.05	27.86	3958.95	0.49
11831.00	89.83	358.54	7566.85	3993.32	3595.06	1848.14	27.21	4042.29	0.71
11926.00	90.44	357.43	7566.63	4082.43	3690.00	1844.80	26.56	4125.45	1.33
12021.00	90.27	355.69	7566.04	4170.68	3784.82	1839.10	25.92	4207.99	1.84

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	"/100ft
12116.00	90.57	355.31	7565.35	4258.26	3879.53	1831.65	25.27	4290.18	0.52
12211.00	90.67	354.64	7564.32	4345.51	3974.16	1823.32	24.65	4372.46	0.71
12307.00	91.04	353.75	7562.88	4433.14	4069.65	1813.62	24.02	4455.48	1.00
12402.00	89.90	353.75	7562.10	4519.56	4164.08	1803.28	23.42	4537.77	1.20
12497.00	90.03	352.77	7562.16	4605.64	4258.43	1792.13	22.82	4620.16	1.04
12592.00	90.23	352.66	7561.94	4691.34	4352.66	1780.08	22.24	4702.58	0.24
12687.00	90.40	351.73	7561.41	4776.66	4446.77	1767.17	21.67	4785.05	0.99
12782.00	90.74	350.56	7560.46	4861.19	4540.63	1752.54	21.10	4867.11	1.28
12878.00	90.37	351.71	7559.53	4946.61	4635.48	1737.75	20.55	4950.50	1.27
12973.00	90.97	351.81	7558.42	5031.61	4729.49	1724.13	20.03	5033.96	0.64
13068.00	91.31	350.49	7556.53	5116.14	4823.34	1709.52	19.52	5117.33	1.43
13145.00	91.68	350.54	7554.52	5184.25	4899.26	1696.84	19.10	5184.79	0.48

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft

5" = 100' FEET MD