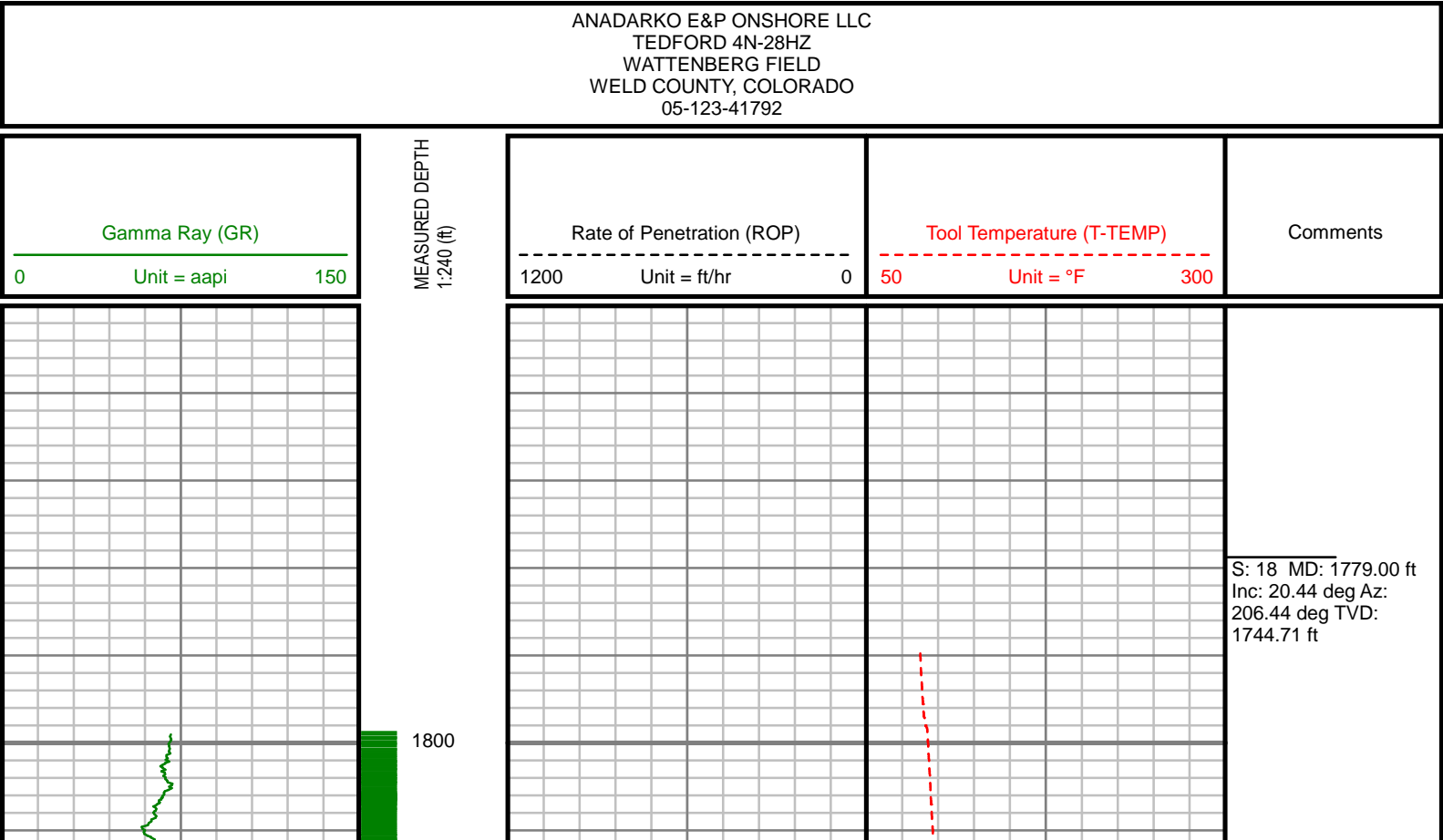


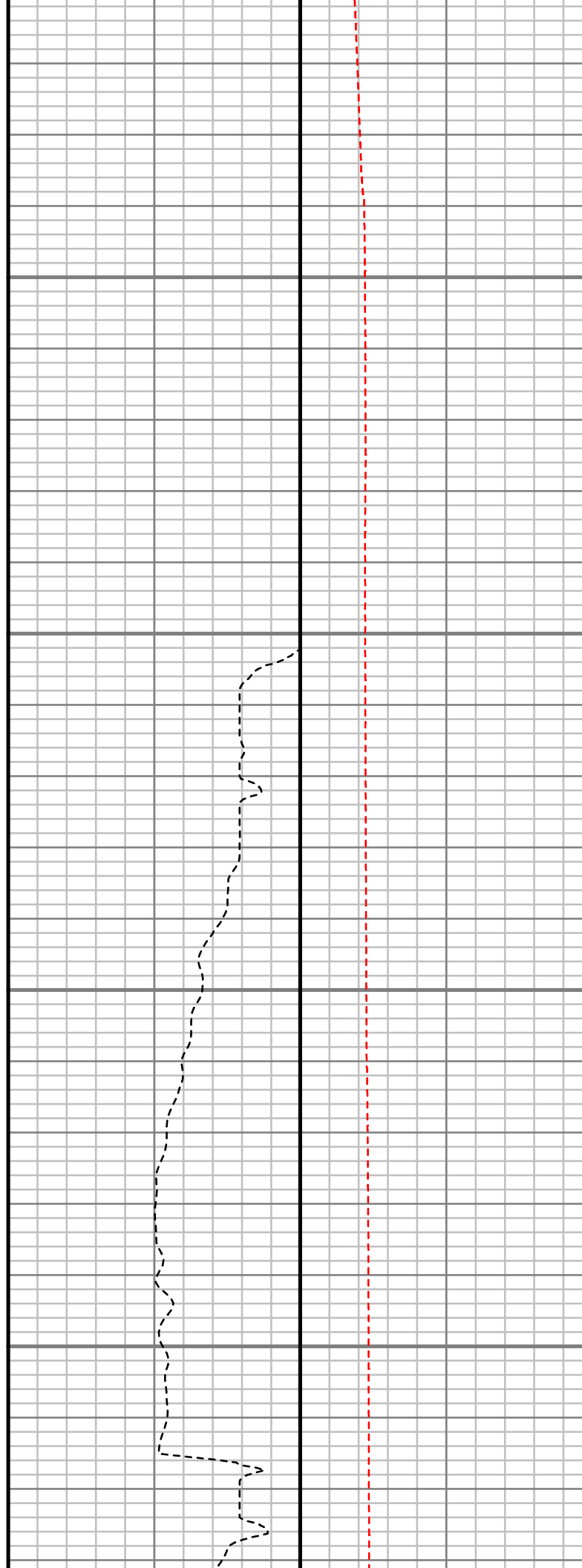
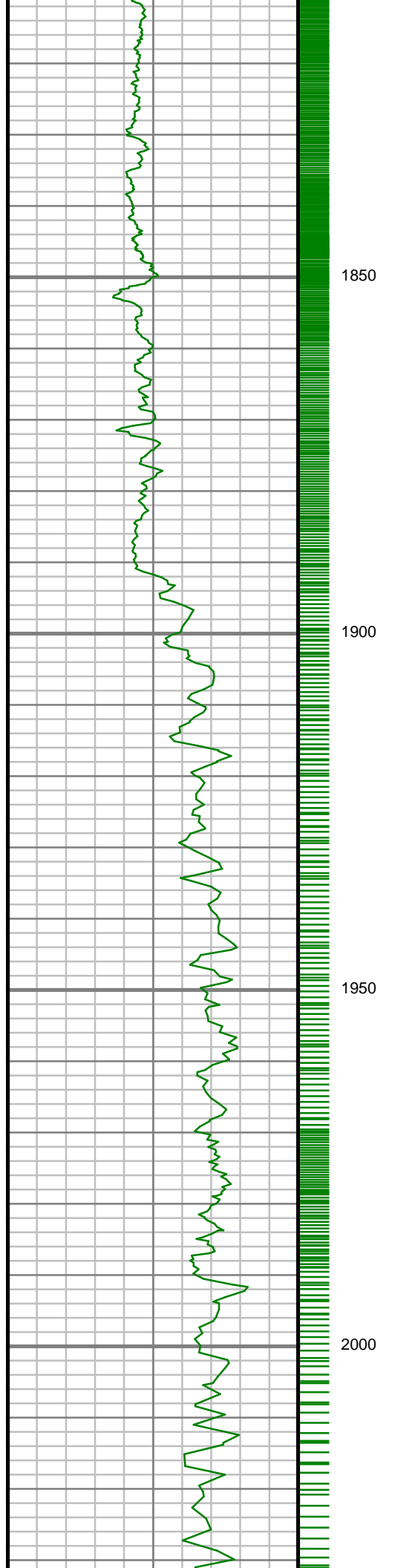
5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC									
WELL : TEDFORD 4N-28HZ									
FIELD : WATTENBERG									
COUNTY : WELD									
STATE : COLORADO									
COUNTRY : U.S.A.									
UWI : 05-123-41792									
OTHER SERVICES									
WELL LOCATION									
LAT:40°6'9.475"N LONG:104°47'14.186"W									
N:14564177.39 ft E:1699901.52 ft									
SEC:28 TWP:2N RANGE:66W									
DIRECTIONAL									
ROP									
DEPTH REF. : RKB									
REF. HEIGHT : 25.000 ft									
RKB to Ground Level									
GROUND LEVEL : 4965.000 ft									
G.L. to MEAN SEA LEVEL									
BOREHOLE RECORD									
DEVIATION RECORD									
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft				
8.5	1903	13145	0-22	0	6855				
			22-90	6855	7910				
			90-93	7910	13145				
CASING RECORD									
CASING SIZE in	FROM ft	TO ft							
9.625	0	1893							
DRILLING CO.: H&P									
RIG: 307									
LMD UNIT NO.: C-46									
DISTRICT: CASPER									
SPUD DATE: 08/24/2015									
LMD START DATE: 08/24/2015									
DEPTH: 1857 ft									
LMD END DATE: 08/28/2015									
DEPTH: 13145 ft									
TOTAL DEPTH: 13145 ft									

Remarks
ANADARKO E&P ONSHORE LLC PRODUCTION AFE# 2107809
SCIENTIFIC DRILLING INTERNATIONAL JOB# 306720
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 = 128-423 / CONT = 826 / MWD EYE =0009 / GAMMA RAY = 1062
BIT TO SENSOR OFFSETS: SURVEY = 55.46 FT. / GAMMA RAY = 46.2 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-070 / CONT = 863 / MWD EYE =0616 / GAMMA RAY = 1327
BIT TO SENSOR OFFSETS: SURVEY = 54.95 FT. / GAMMA RAY = 45.69 FT.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
T-TEMP = TOOL TEMPERATURE

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.





S: 19 MD: 1844.00 ft
Inc: 21.56 deg Az:
205.85 deg TVD:
1805.39 ft

S: 20 MD: 1959.00 ft
Inc: 21.74 deg Az:
203.08 deg TVD:
1912.28 ft

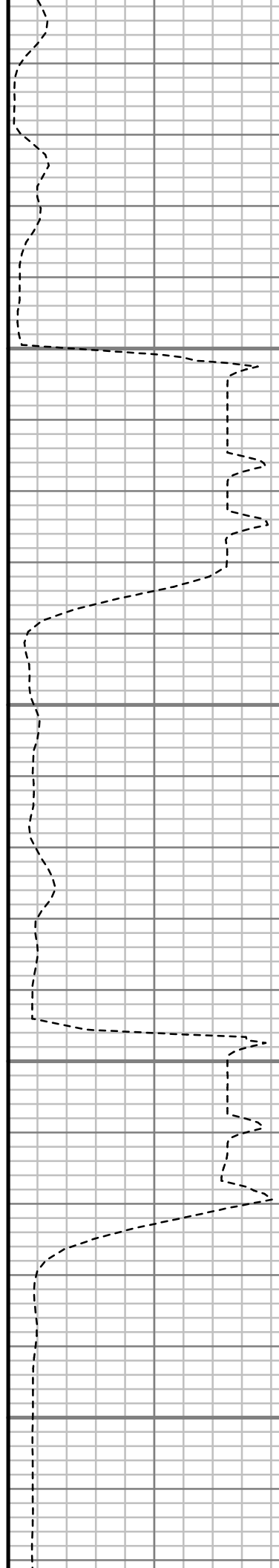


2300

2350

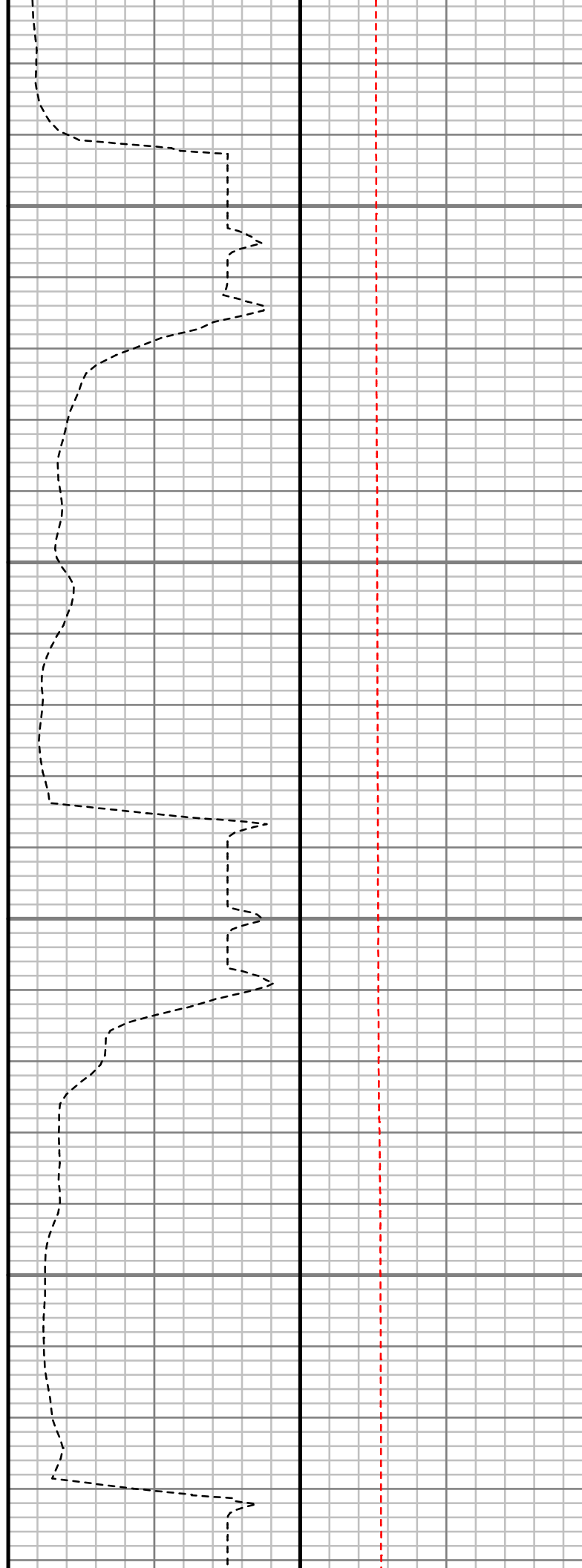
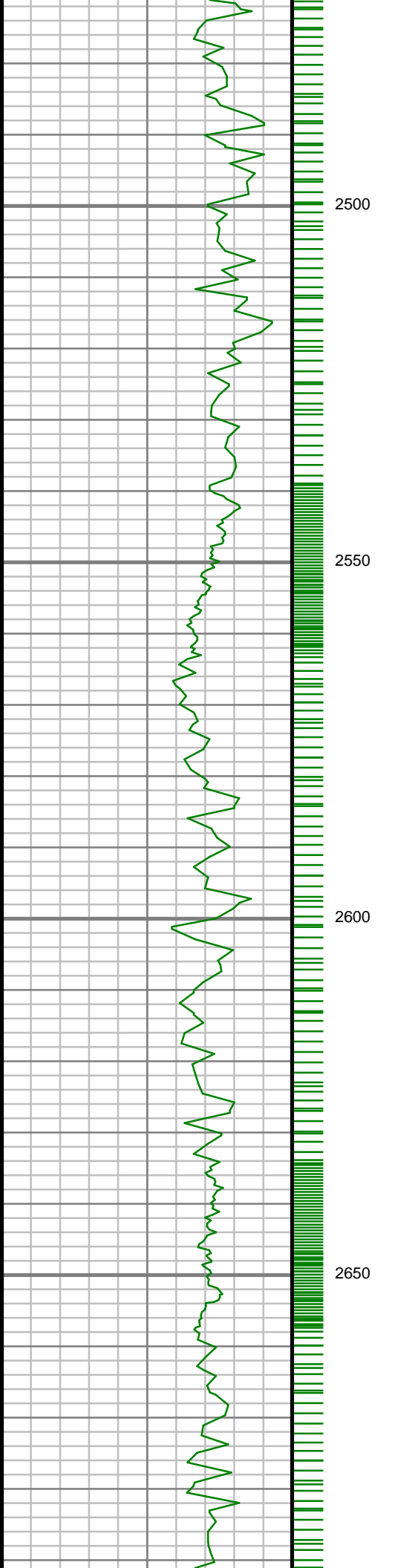
2400

2450



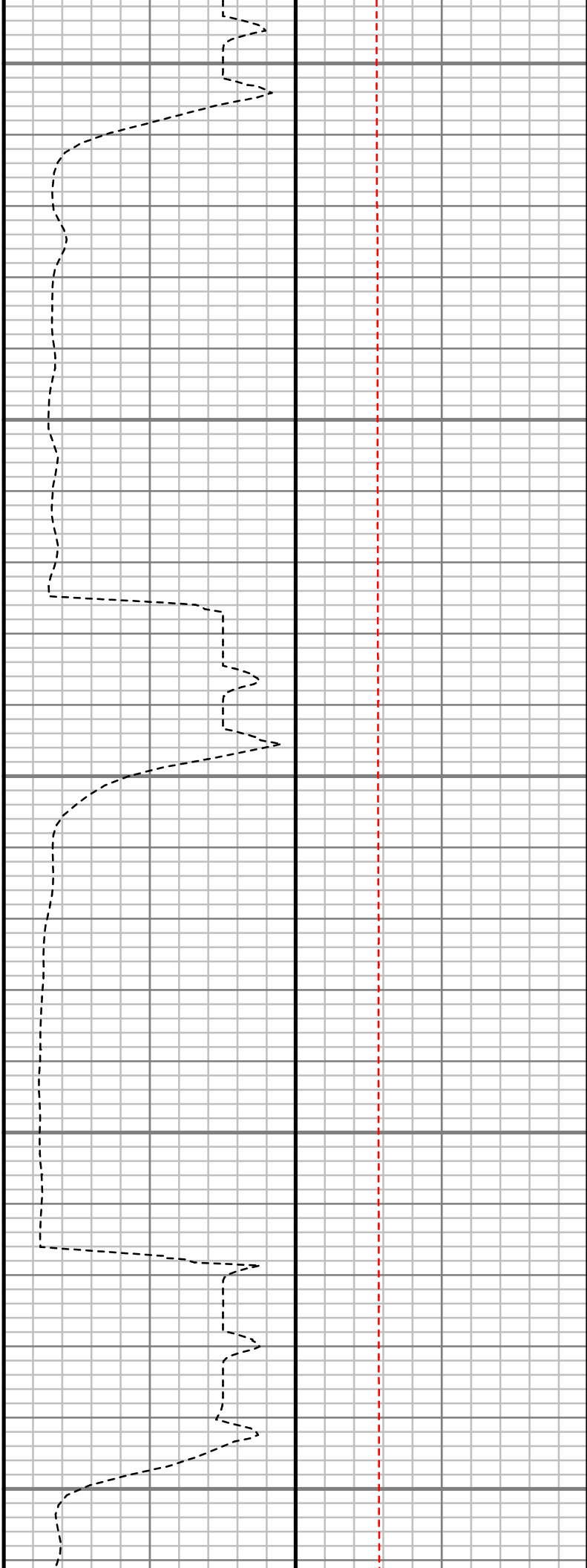
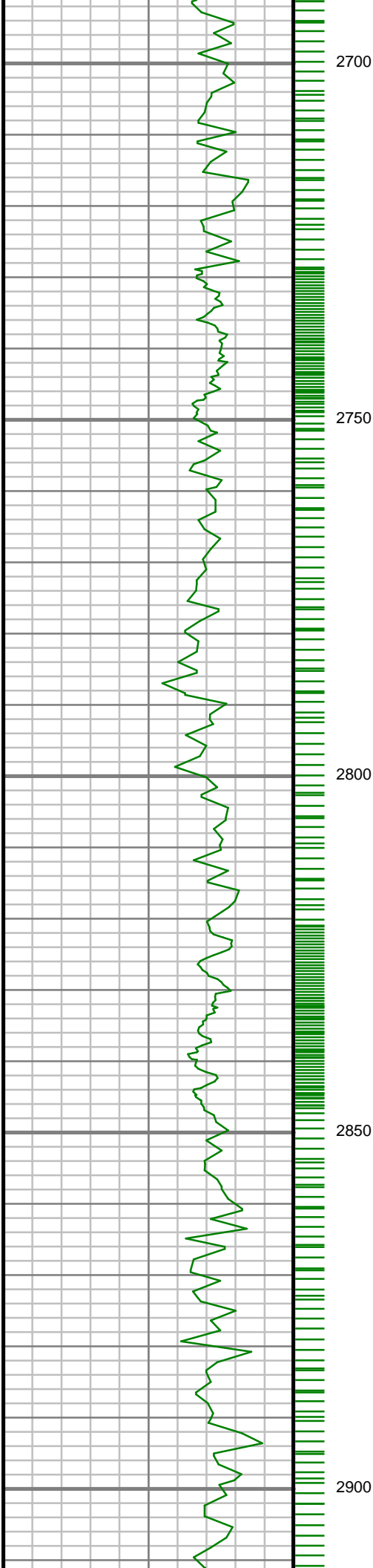
S: 24 MD: 2338.00 ft
Inc: 21.88 deg Az:
202.91 deg TVD:
2263.93 ft

S: 25 MD: 2432.00 ft
Inc: 22.06 deg Az:
205.93 deg TVD:
2351.10 ft



S: 26 MD: 2526.00 ft
Inc: 22.05 deg Az:
206.97 deg TVD:
2438.22 ft

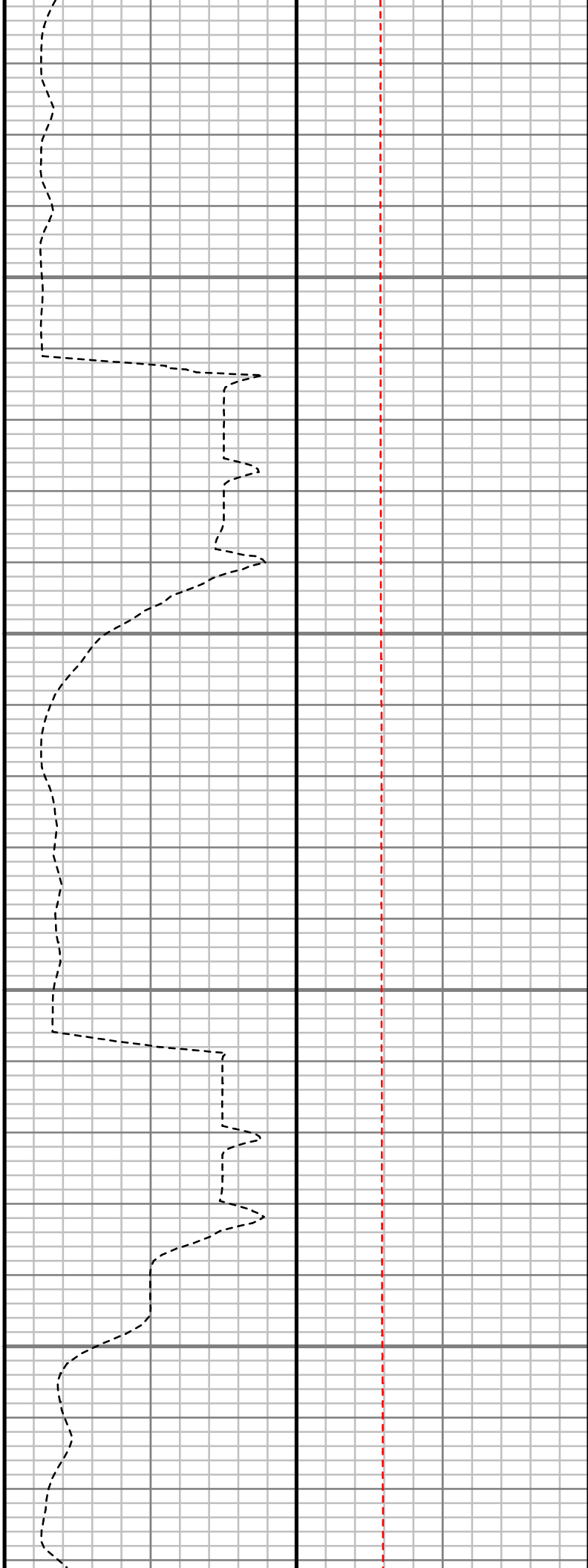
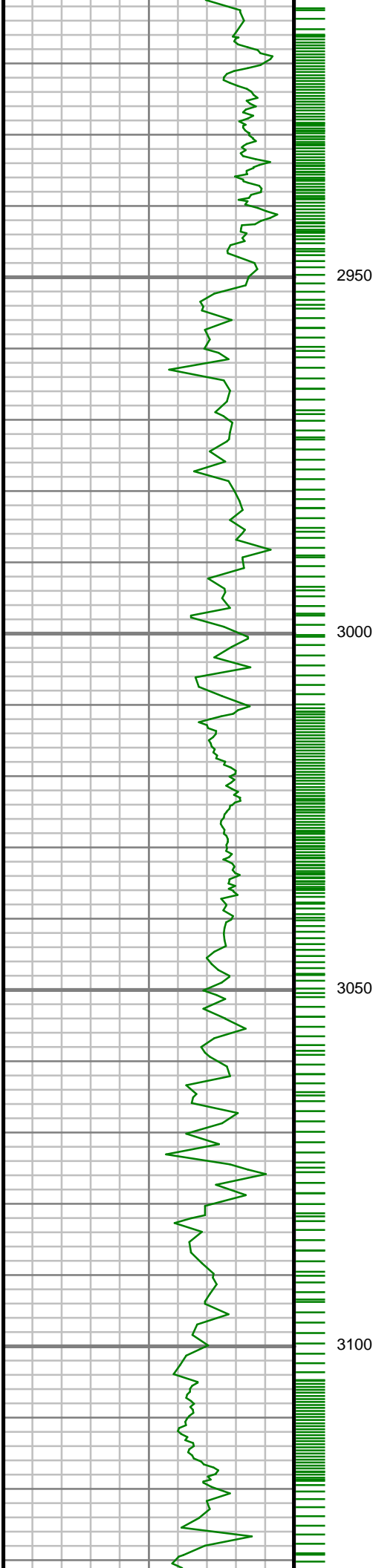
S: 27 MD: 2621.00 ft
Inc: 22.90 deg Az:
207.06 deg TVD:
2526.01 ft



S: 28 MD: 2716.00 ft
Inc: 22.05 deg Az:
206.22 deg TVD:
2613.79 ft

S: 29 MD: 2810.00 ft
Inc: 21.53 deg Az:
205.32 deg TVD:
2701.07 ft

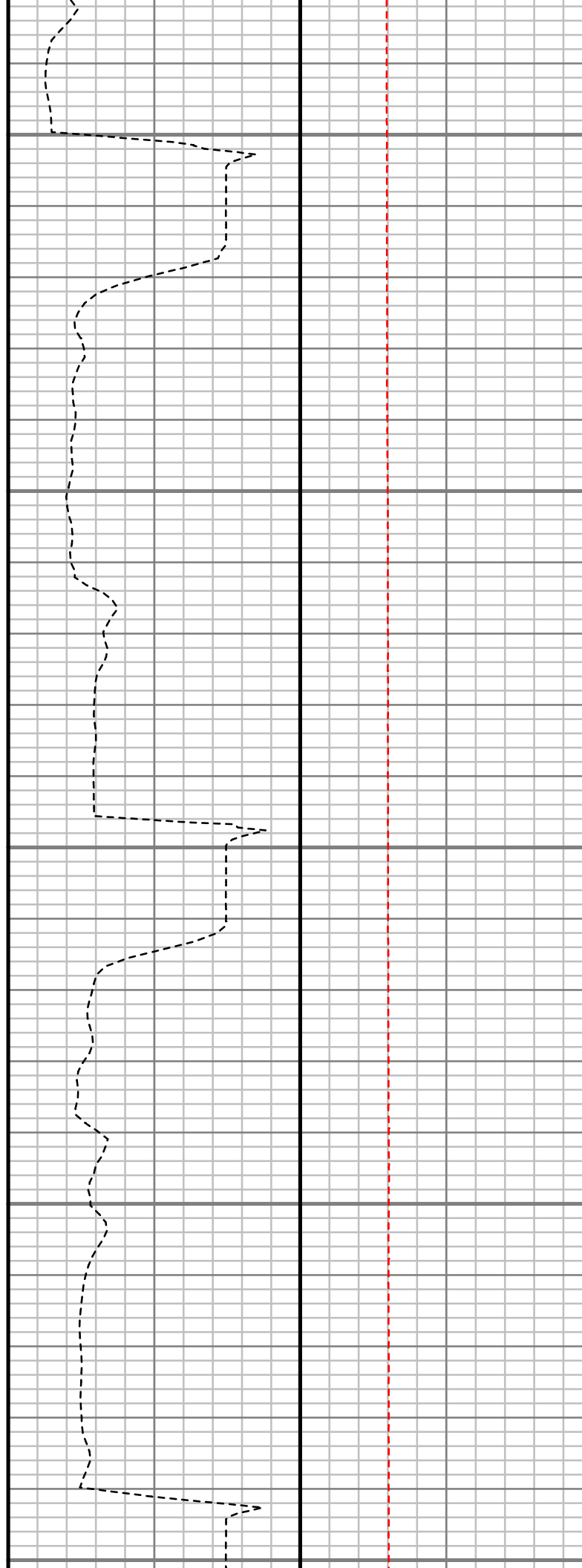
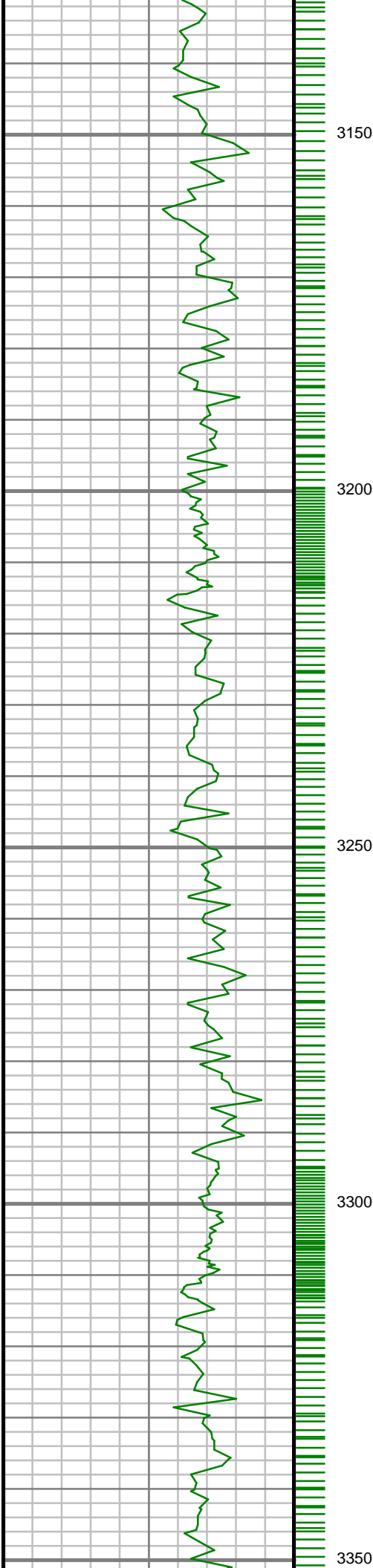
S: 30 MD: 2905.00 ft
Inc: 21.49 deg Az:
205.70 deg TVD:



203.70 deg TVD:
2789.46 ft

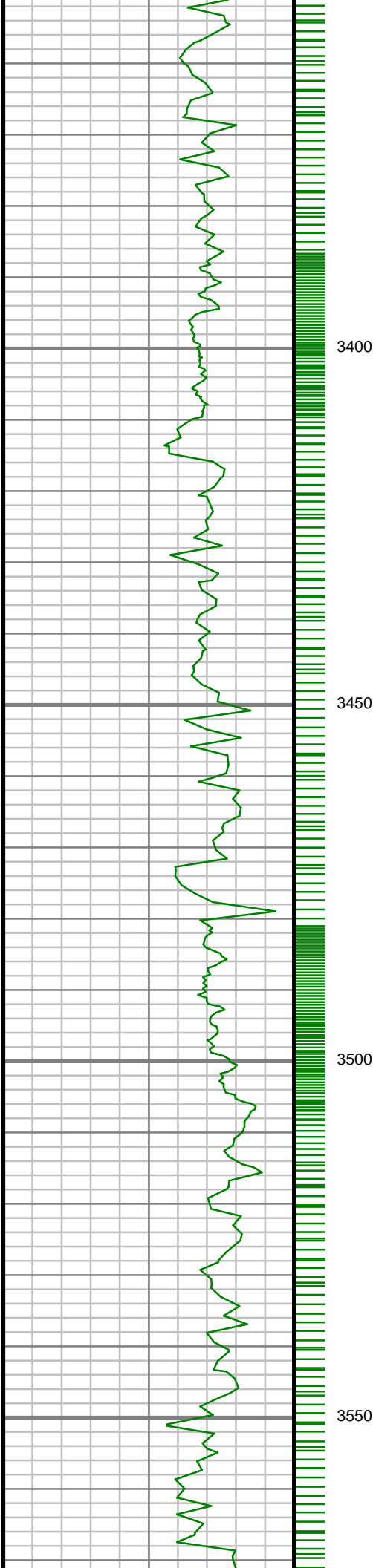
S: 31 MD: 2999.00 ft
Inc: 21.51 deg Az:
203.04 deg TVD:
2876.92 ft

S: 32 MD: 3093.00 ft
Inc: 21.61 deg Az:
201.85 deg TVD:
2964.34 ft



S: 33 MD: 3188.00 ft
Inc: 20.74 deg Az:
201.01 deg TVD:
3052.93 ft

S: 34 MD: 3282.00 ft
Inc: 19.59 deg Az:
201.61 deg TVD:
3141.16 ft

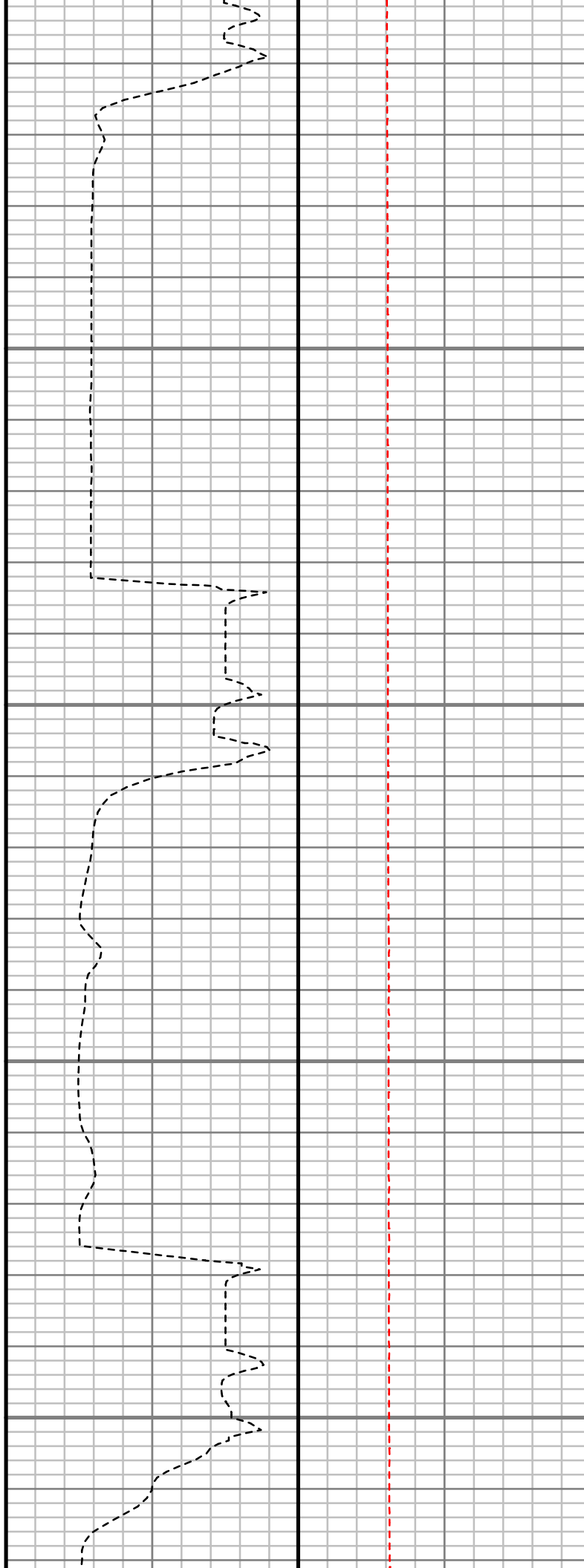


3400

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3500

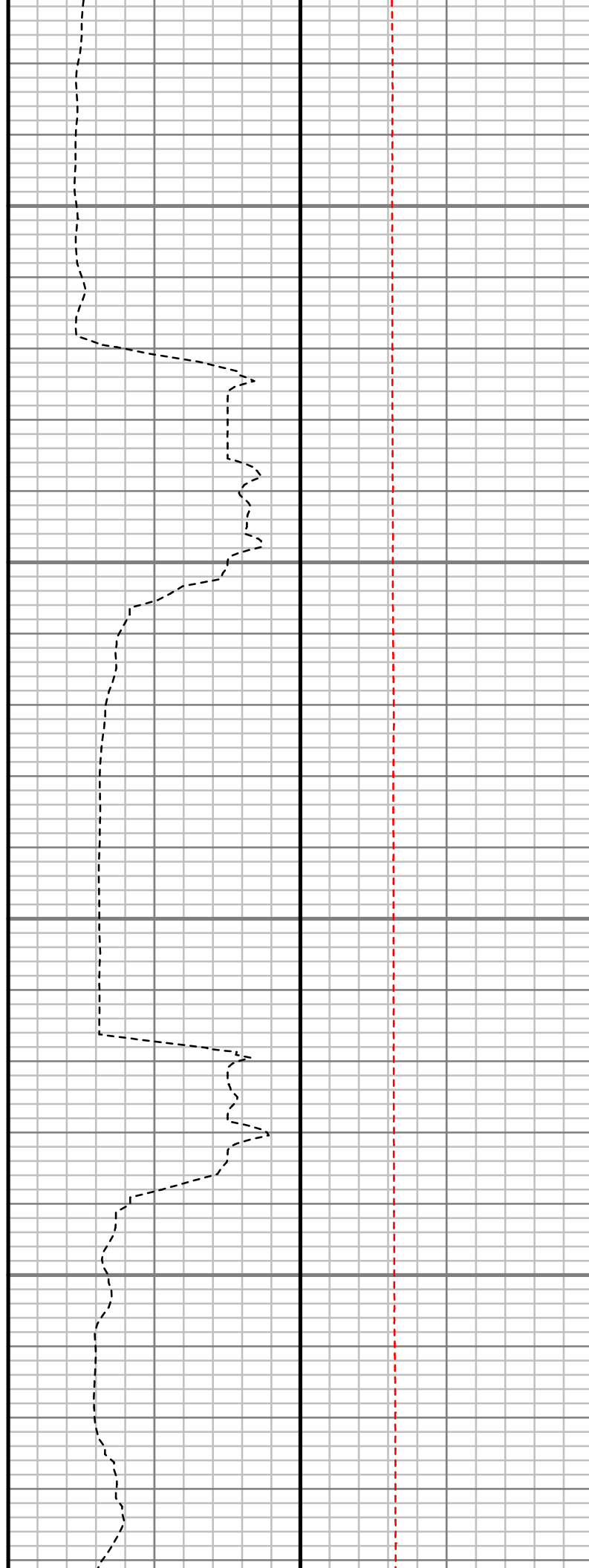
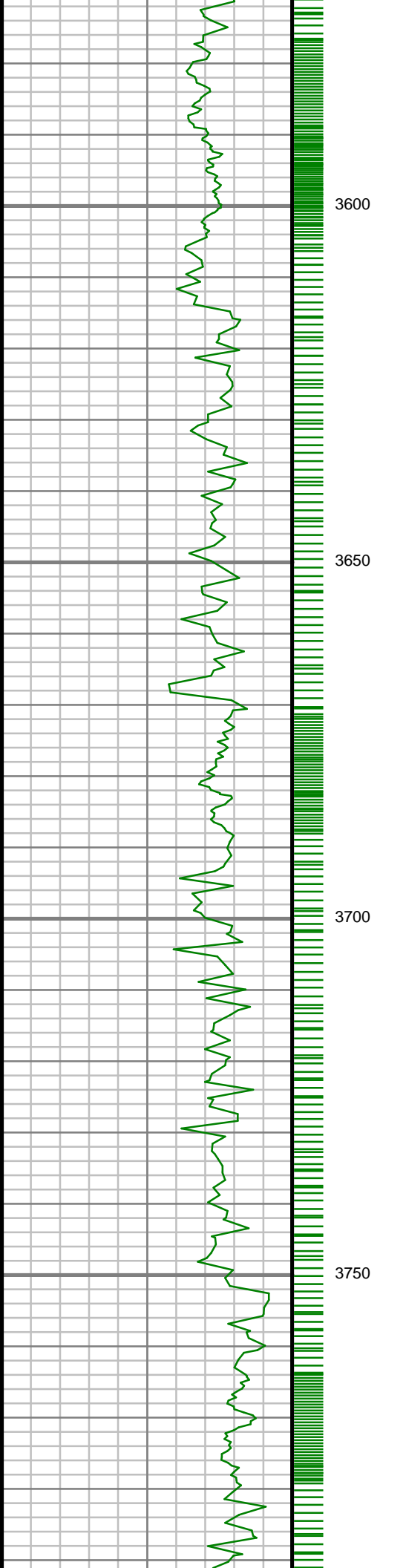
3550



S: 35 MD: 3377.00 ft
Inc: 17.89 deg Az:
202.13 deg TVD:
3231.12 ft

S: 36 MD: 3471.00 ft
Inc: 15.26 deg Az:
205.82 deg TVD:
3321.21 ft

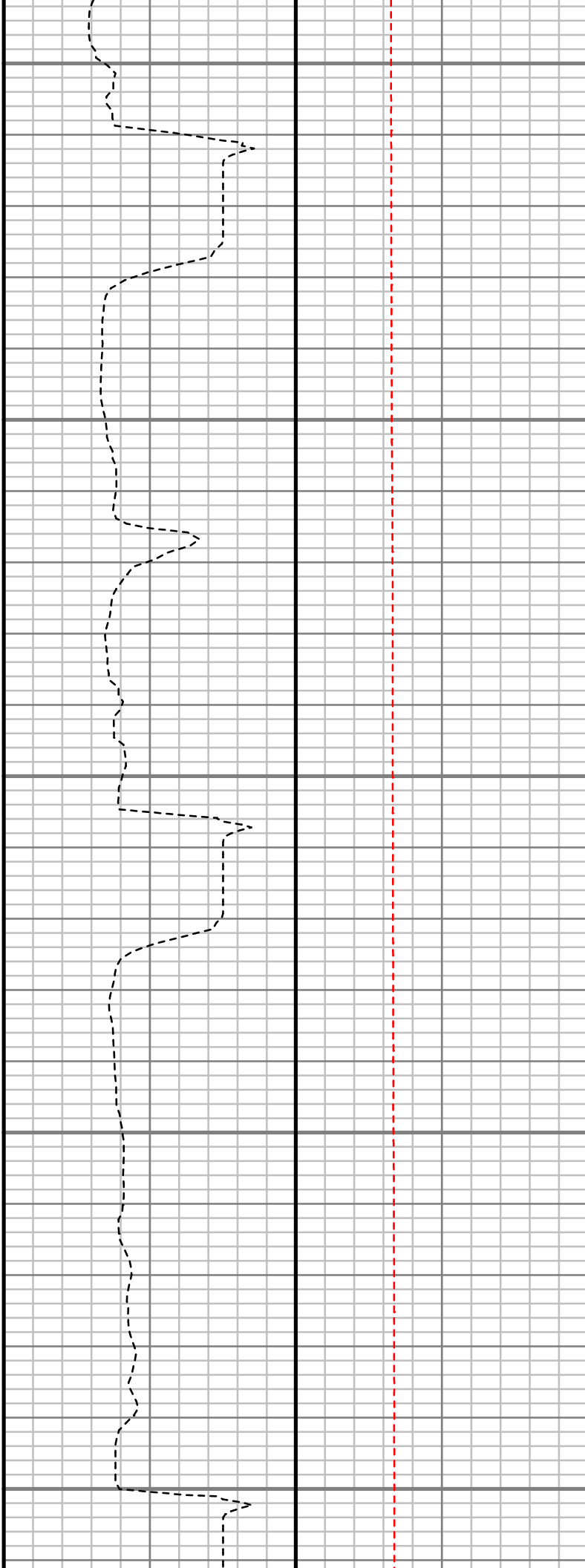
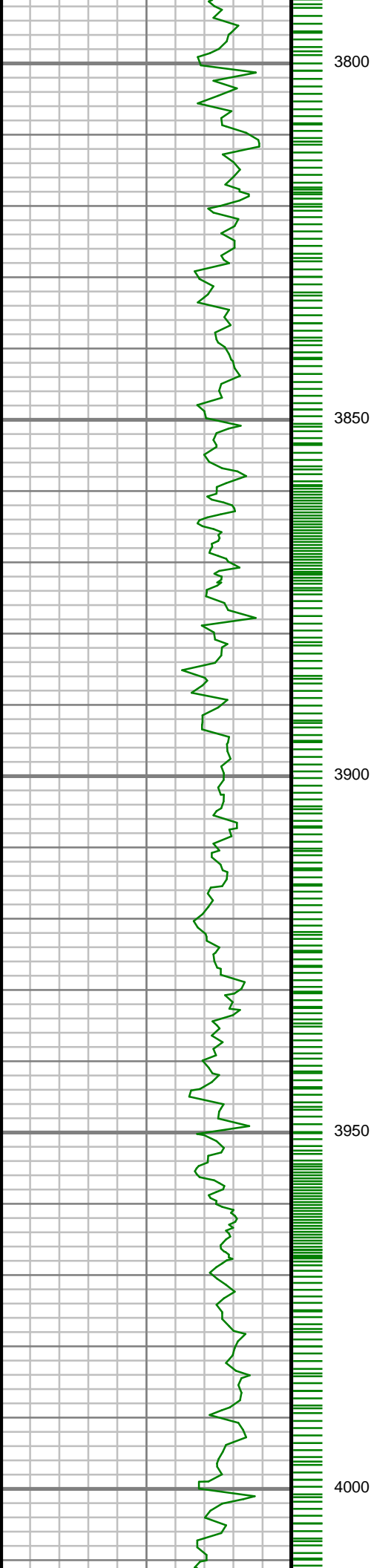
S: 37 MD: 3566.00 ft
Inc: 12.40 deg Az:



208.30 deg TVD:
3413.45 ft

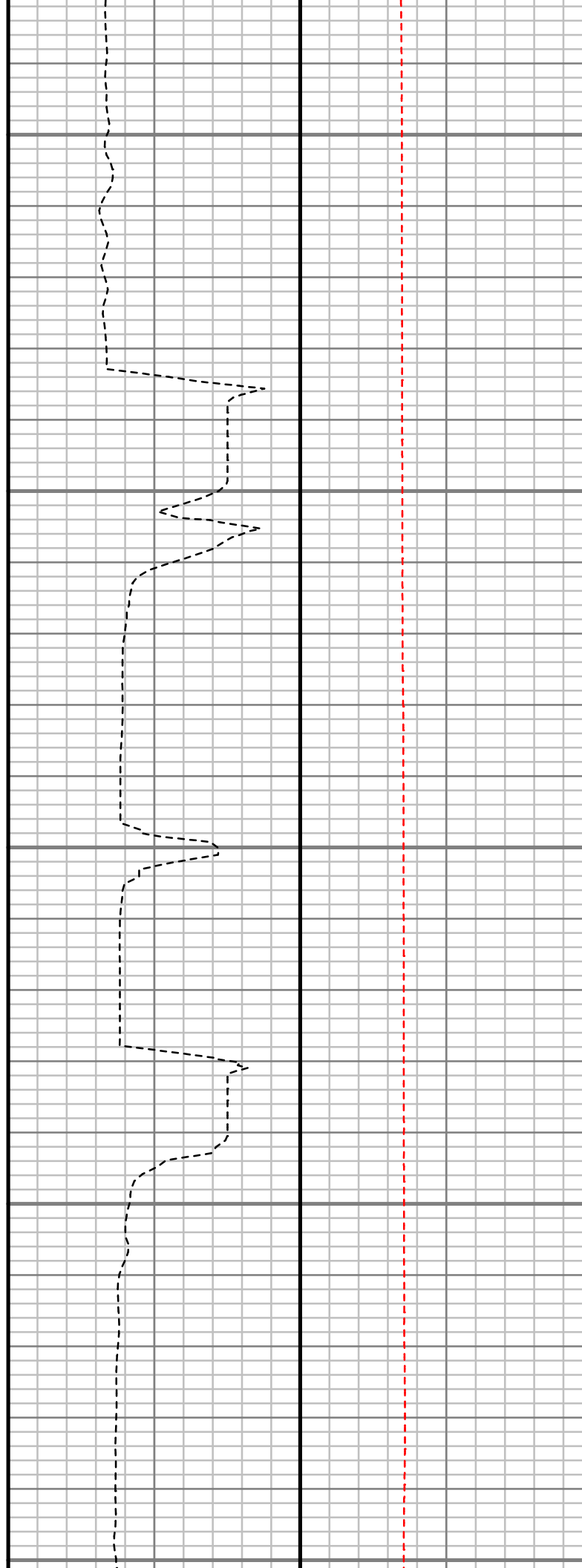
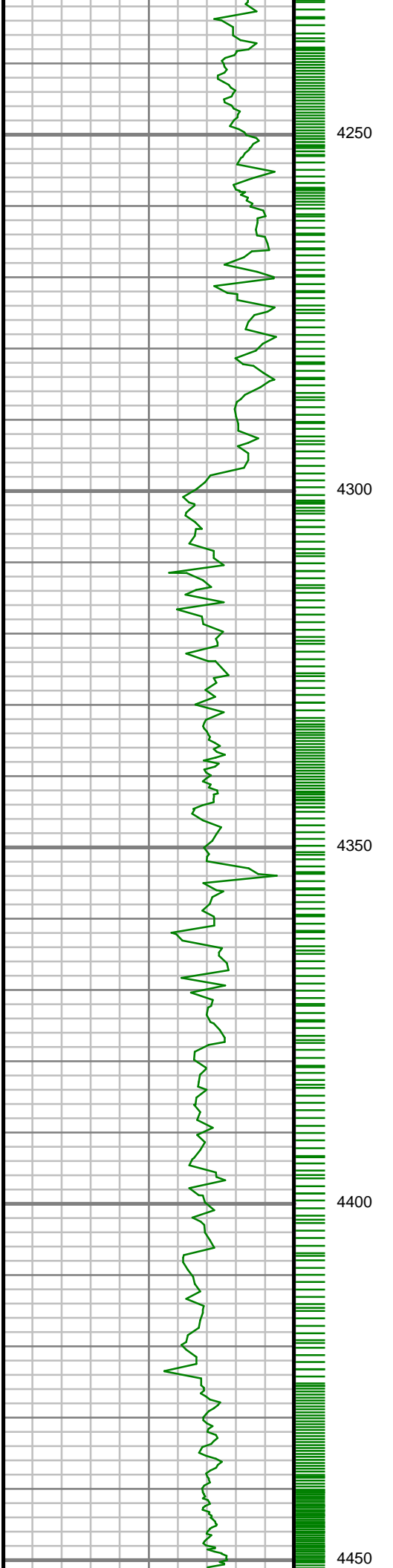
S: 38 MD: 3660.00 ft
Inc: 10.14 deg Az:
200.70 deg TVD:
3505.63 ft

S: 39 MD: 3755.00 ft
Inc: 8.24 deg Az:
194.30 deg TVD:
3599.41 ft



S: 40 MD: 3849.00 ft
Inc: 6.81 deg Az:
190.45 deg TVD:
3692.60 ft

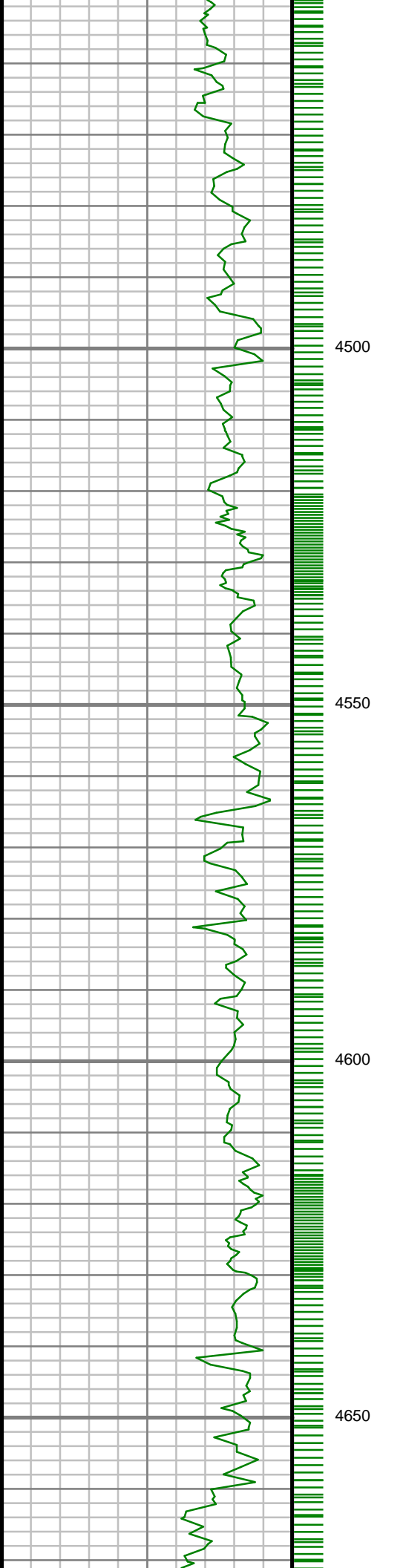
S: 41 MD: 3944.00 ft
Inc: 6.06 deg Az:
190.33 deg TVD:
3787.00 ft



Inc: 2.12 deg Az:
211.85 deg TVD:
4069.07 ft

S: 45 MD: 4321.00 ft
Inc: 2.61 deg Az:
216.86 deg TVD:
4162.94 ft

S: 46 MD: 4416.00 ft
Inc: 2.42 deg Az:
221.10 deg TVD:
4257.85 ft

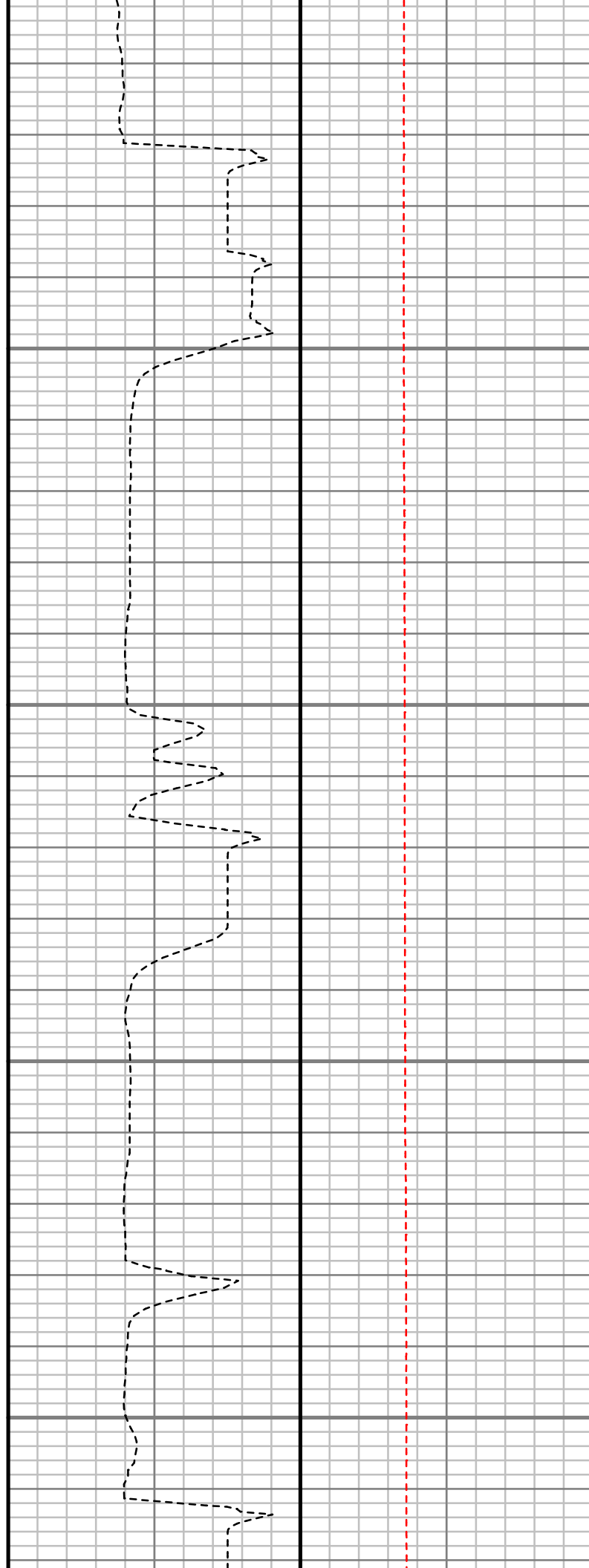


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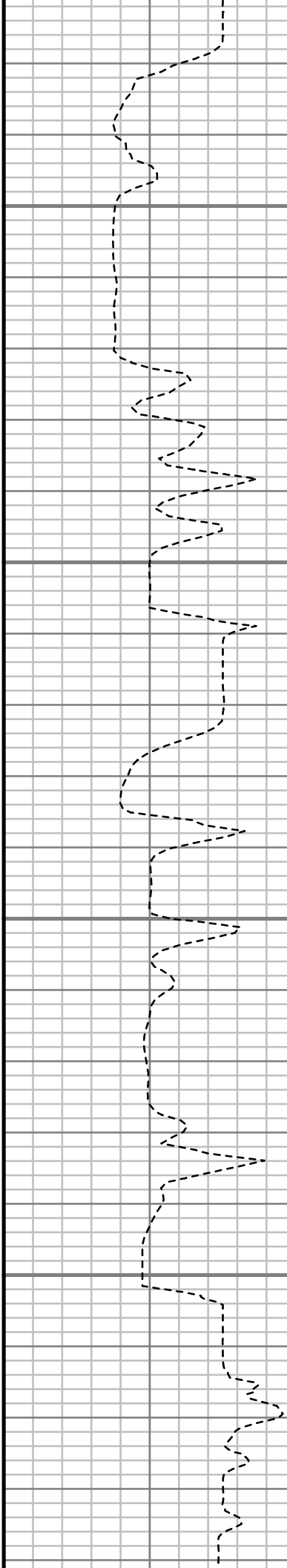
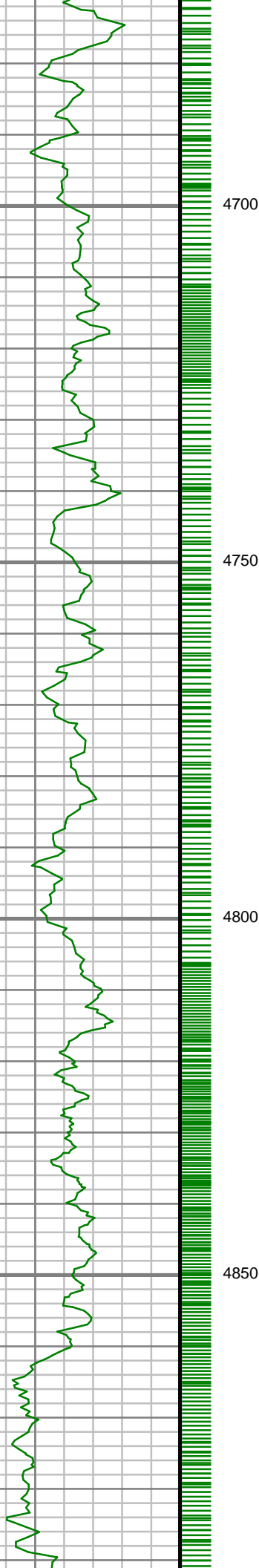
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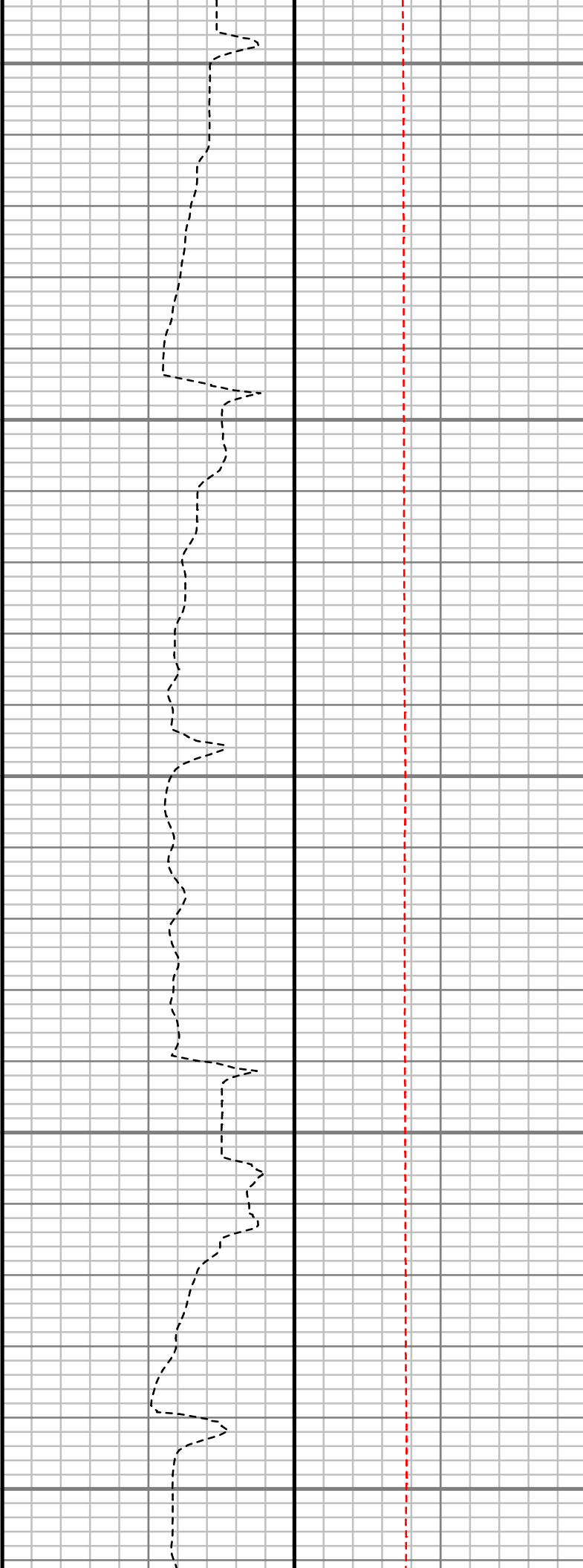
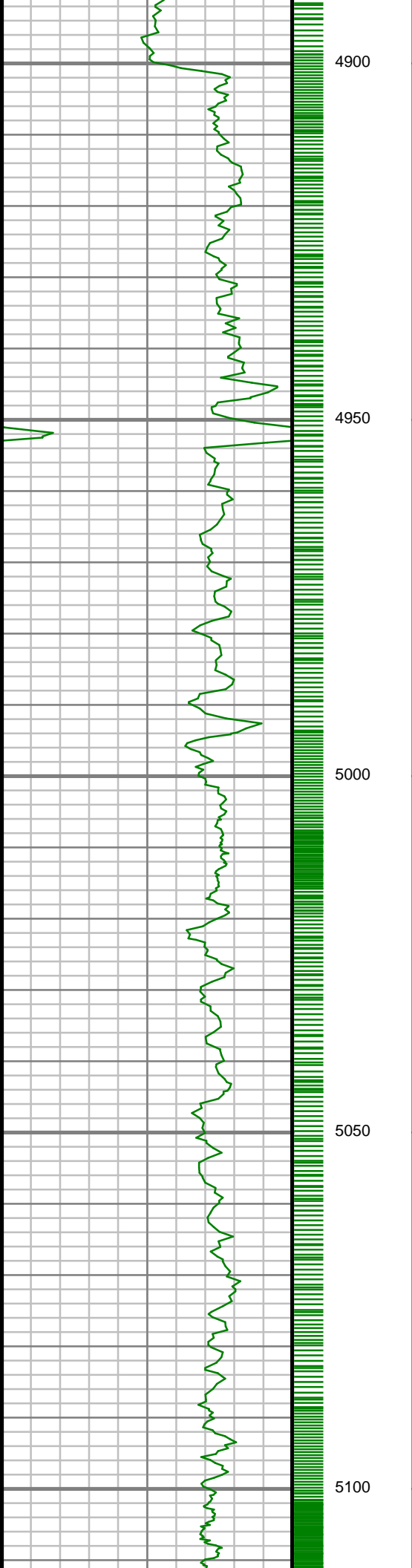
S: 47 MD: 4510.00 ft
Inc: 1.27 deg Az:
183.47 deg TVD:
4351.80 ft

S: 48 MD: 4605.00 ft
Inc: 0.50 deg Az:
227.12 deg TVD:
4446.79 ft



S: 49 MD: 4794.00 ft
Inc: 0.96 deg Az:
334.39 deg TVD:
4635.78 ft

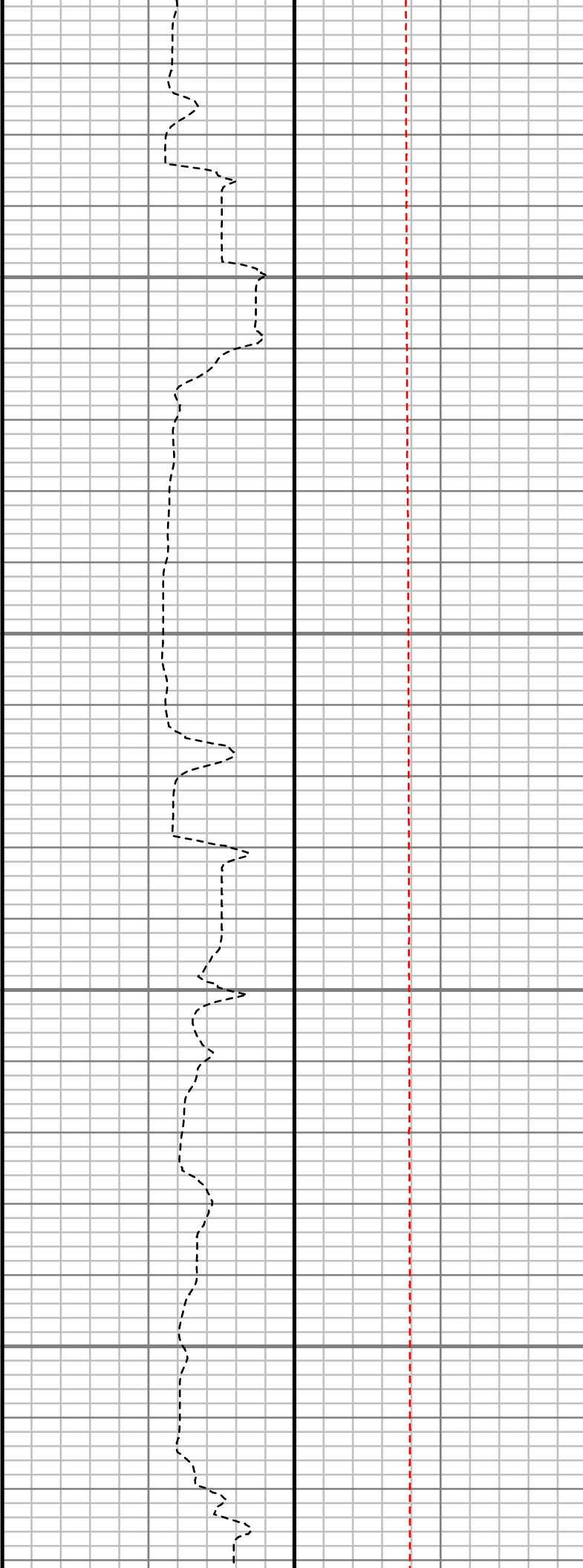
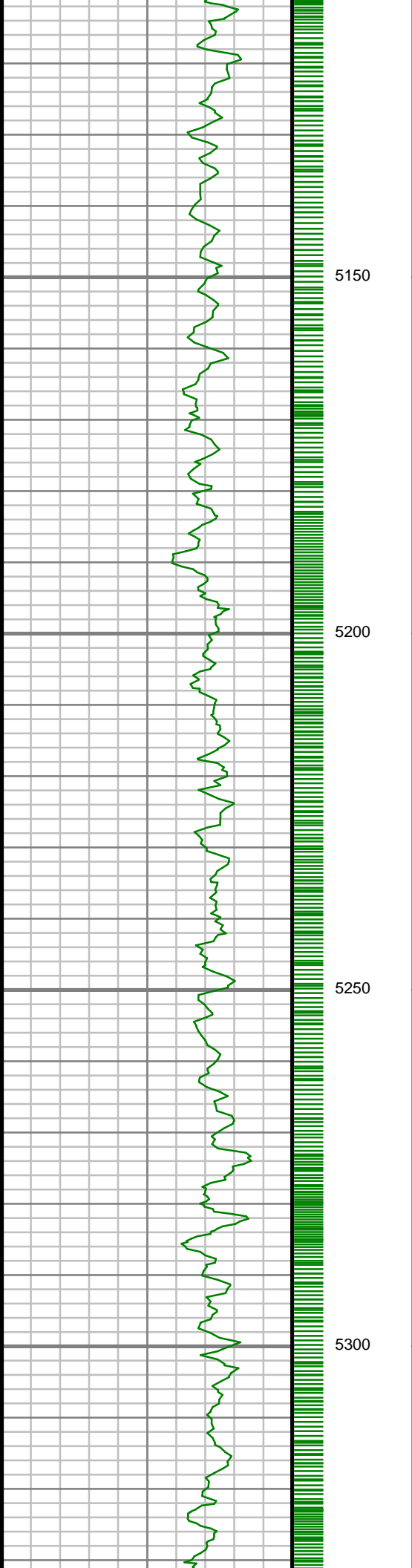
S: 50 MD: 4888.00 ft



Inc: 1.05 deg Az:
340.67 deg TVD:
4729.77 ft

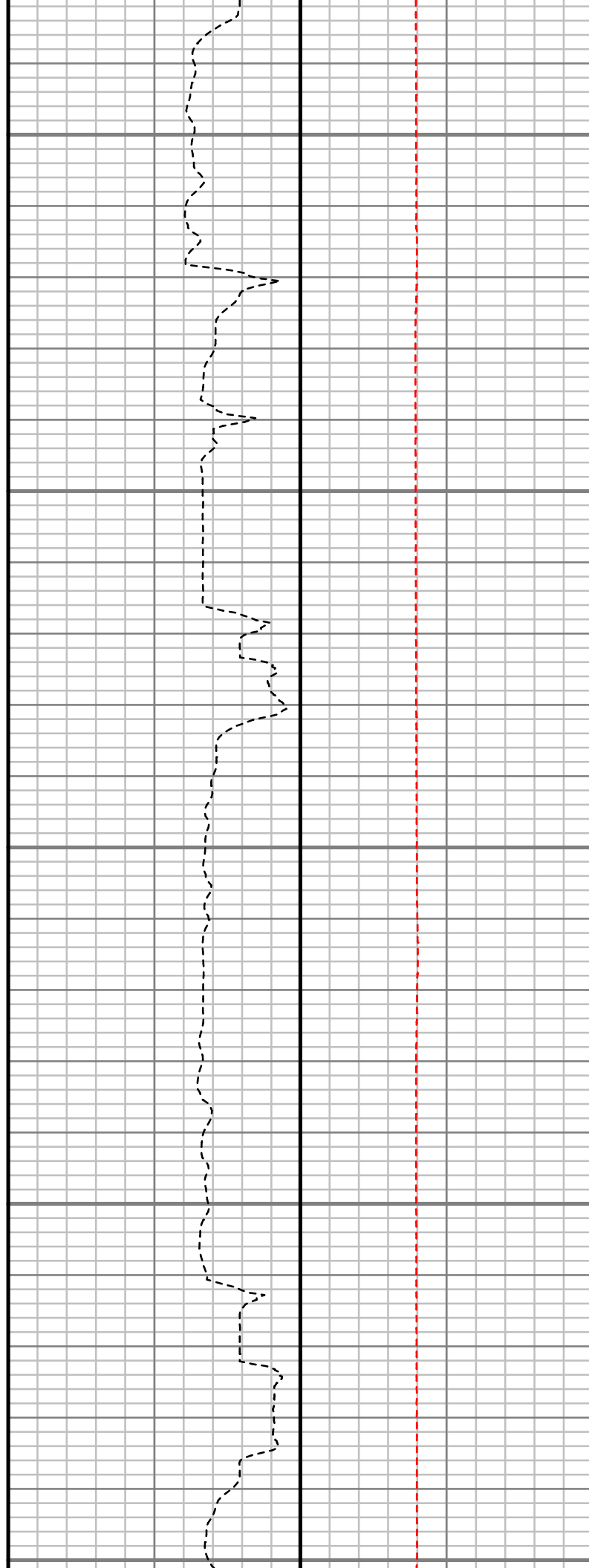
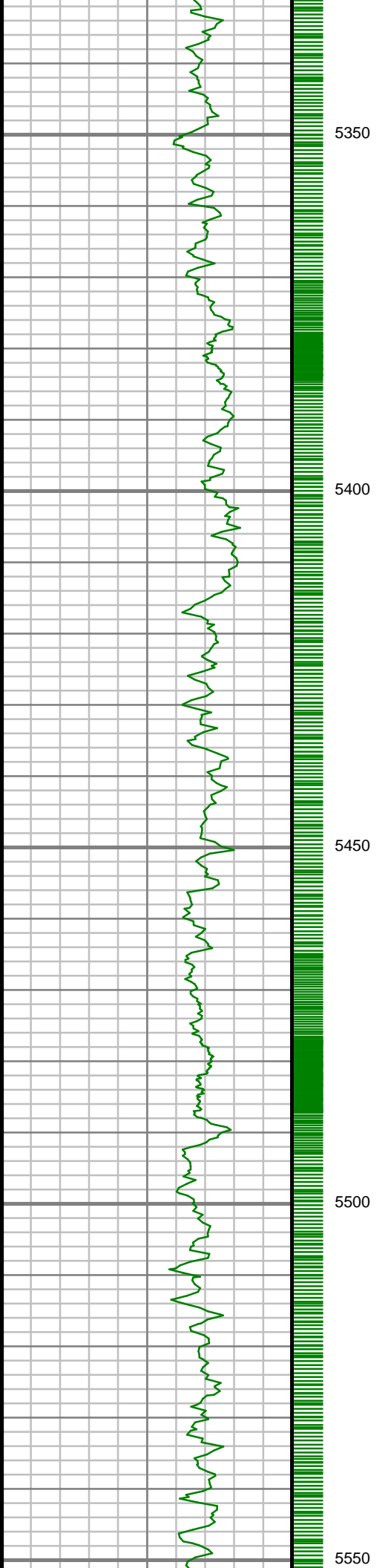
S: 51 MD: 4983.00 ft
Inc: 1.04 deg Az:
348.71 deg TVD:
4824.75 ft

S: 52 MD: 5077.00 ft
Inc: 0.86 deg Az: 20.67
deg TVD: 4918.74 ft



S: 53 MD: 5172.00 ft
Inc: 0.61 deg Az: 108.84 deg TVD: 5013.73 ft

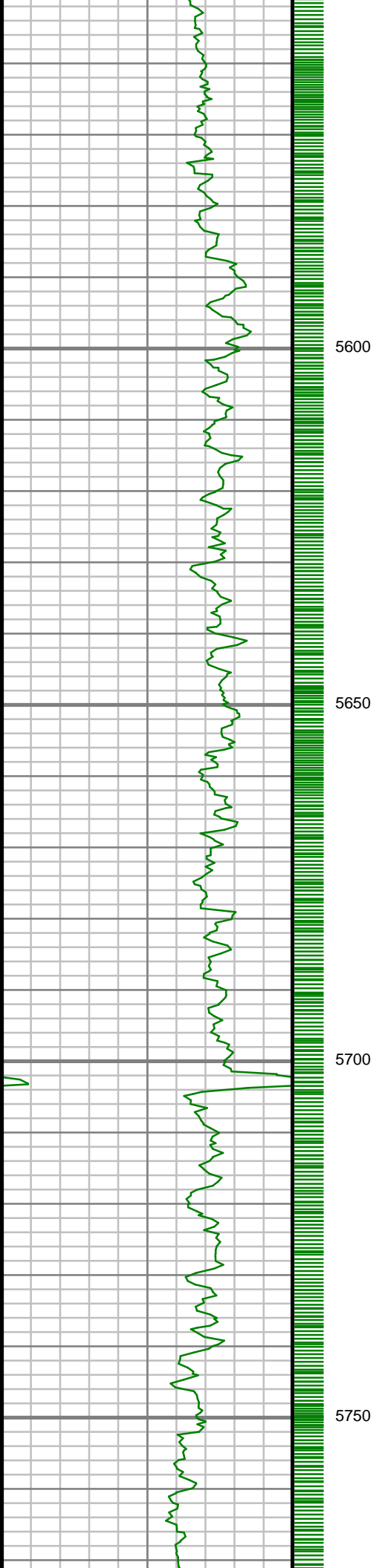
S: 54 MD: 5266.00 ft
Inc: 0.61 deg Az: 93.32 deg TVD: 5107.73 ft



S: 55 MD: 5360.00 ft
Inc: 0.69 deg Az: 75.64
deg TVD: 5201.72 ft

S: 56 MD: 5455.00 ft
Inc: 0.53 deg Az: 75.40
deg TVD: 5296.72 ft

S: 57 MD: 5549.00 ft

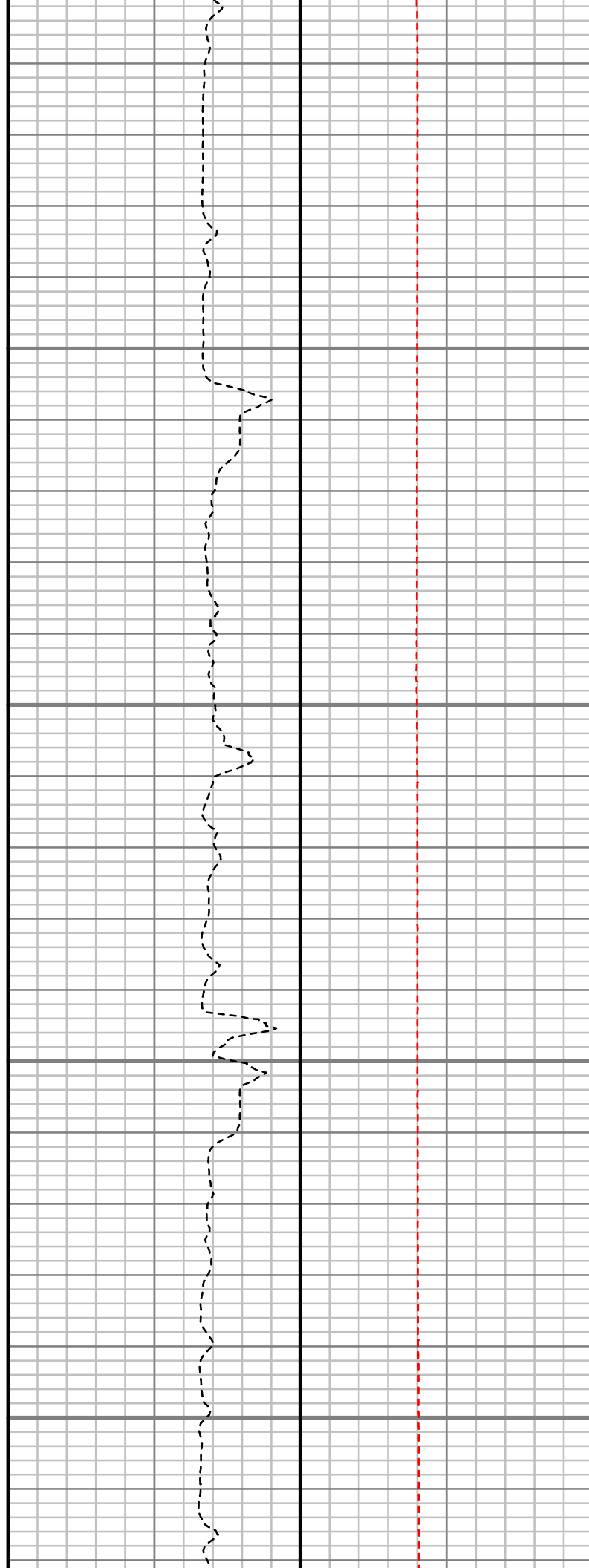


5600

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5700

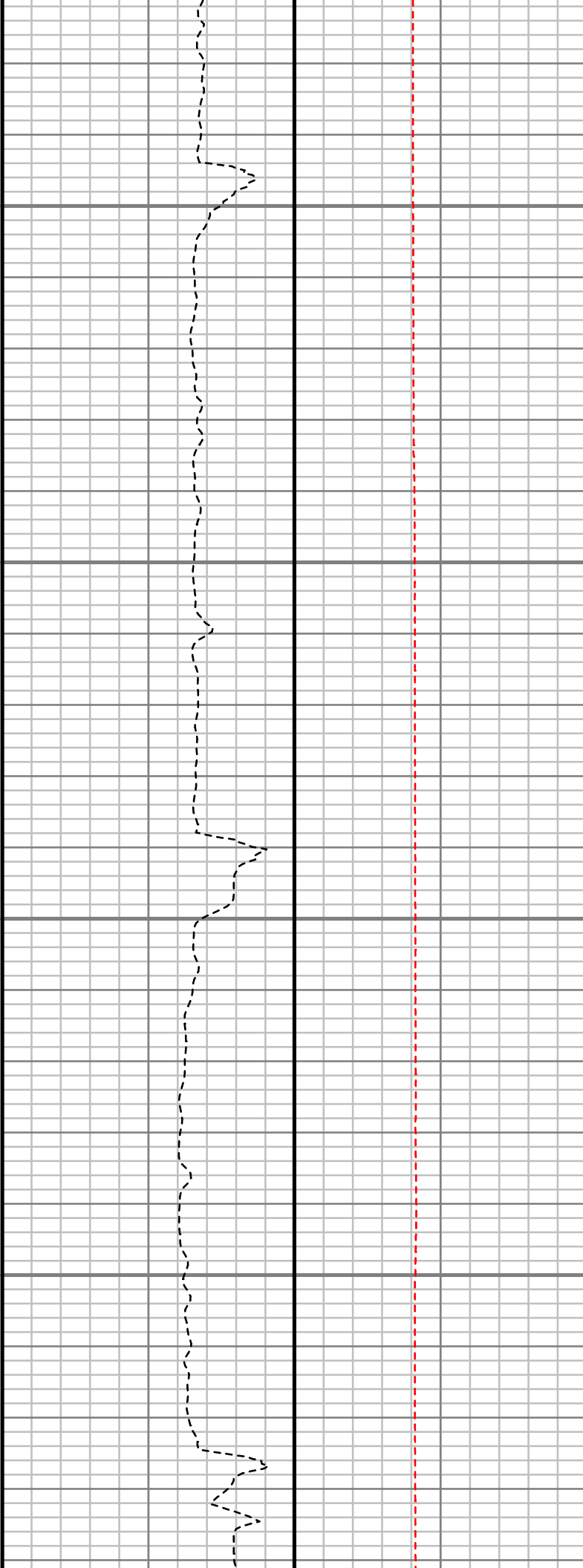
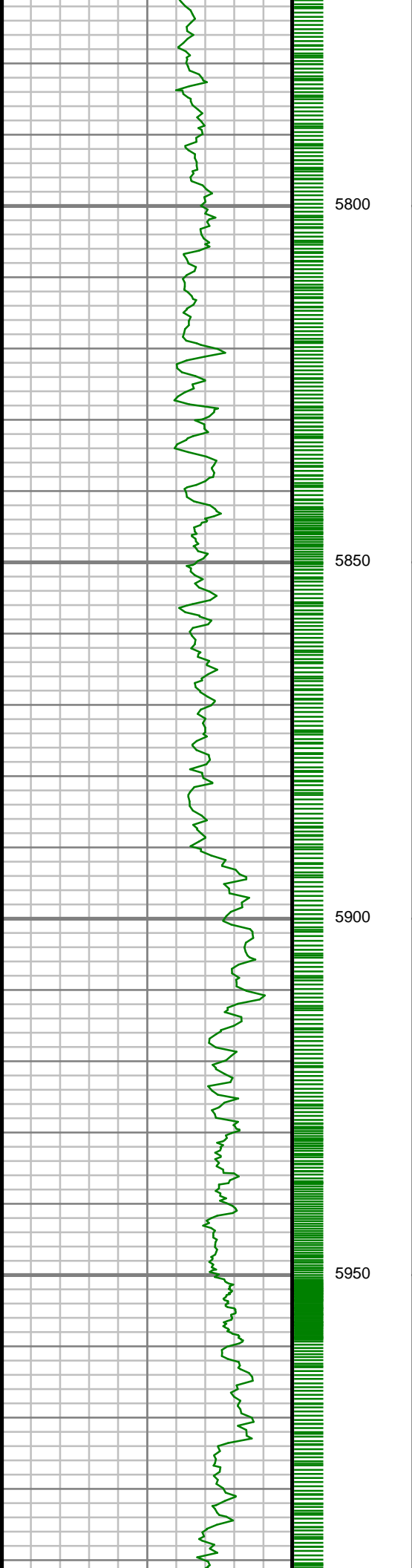
5750



Inc: 1.17 deg Az:
132.96 deg TVD:
5390.71 ft

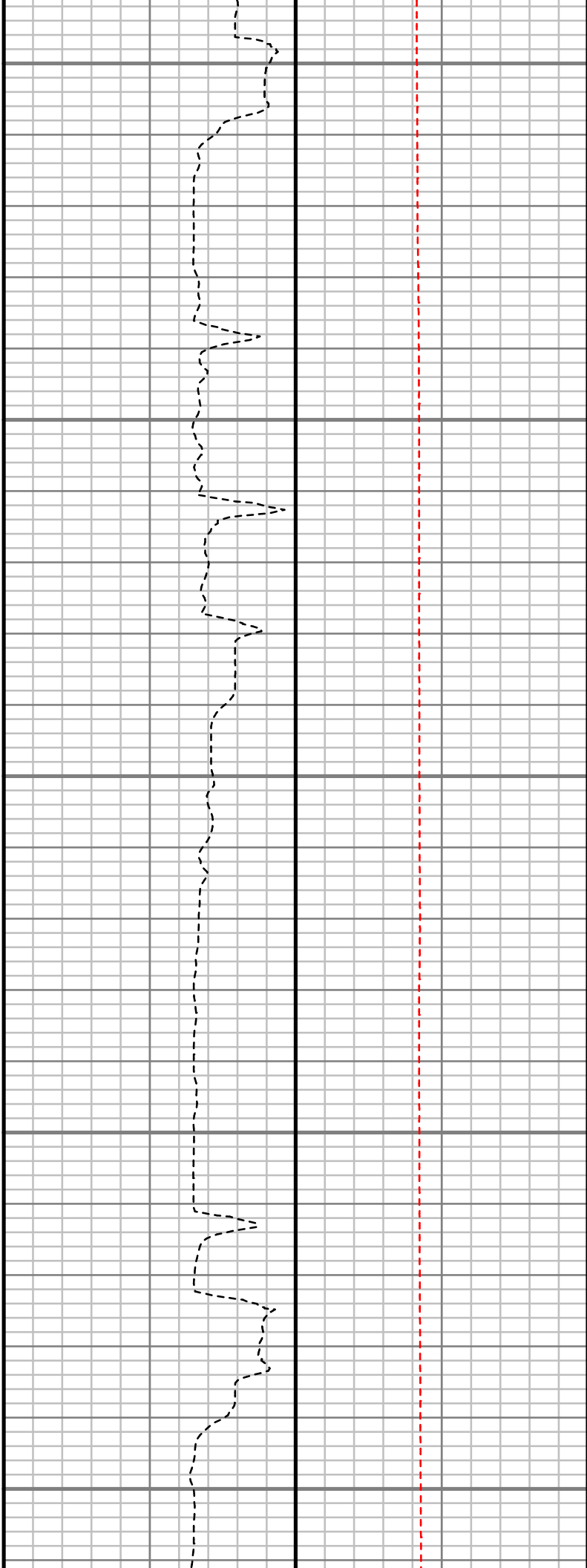
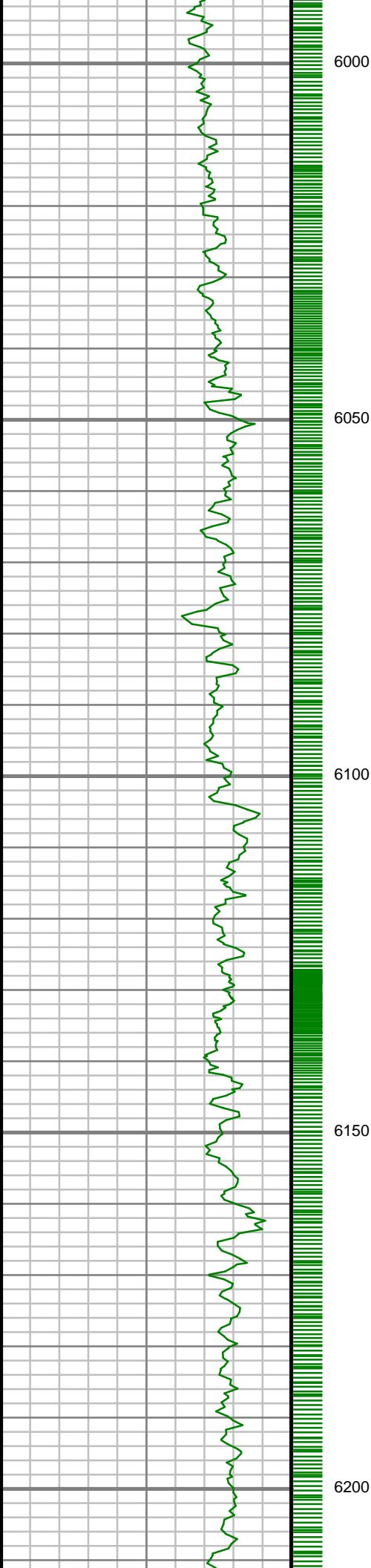
S: 58 MD: 5644.00 ft
Inc: 1.13 deg Az:
128.23 deg TVD:
5485.69 ft

S: 59 MD: 5738.00 ft
Inc: 1.10 deg Az:
122.98 deg TVD:
5579.67 ft



S: 60 MD: 5832.00 ft
Inc: 1.02 deg Az:
127.87 deg TVD:
5673.66 ft

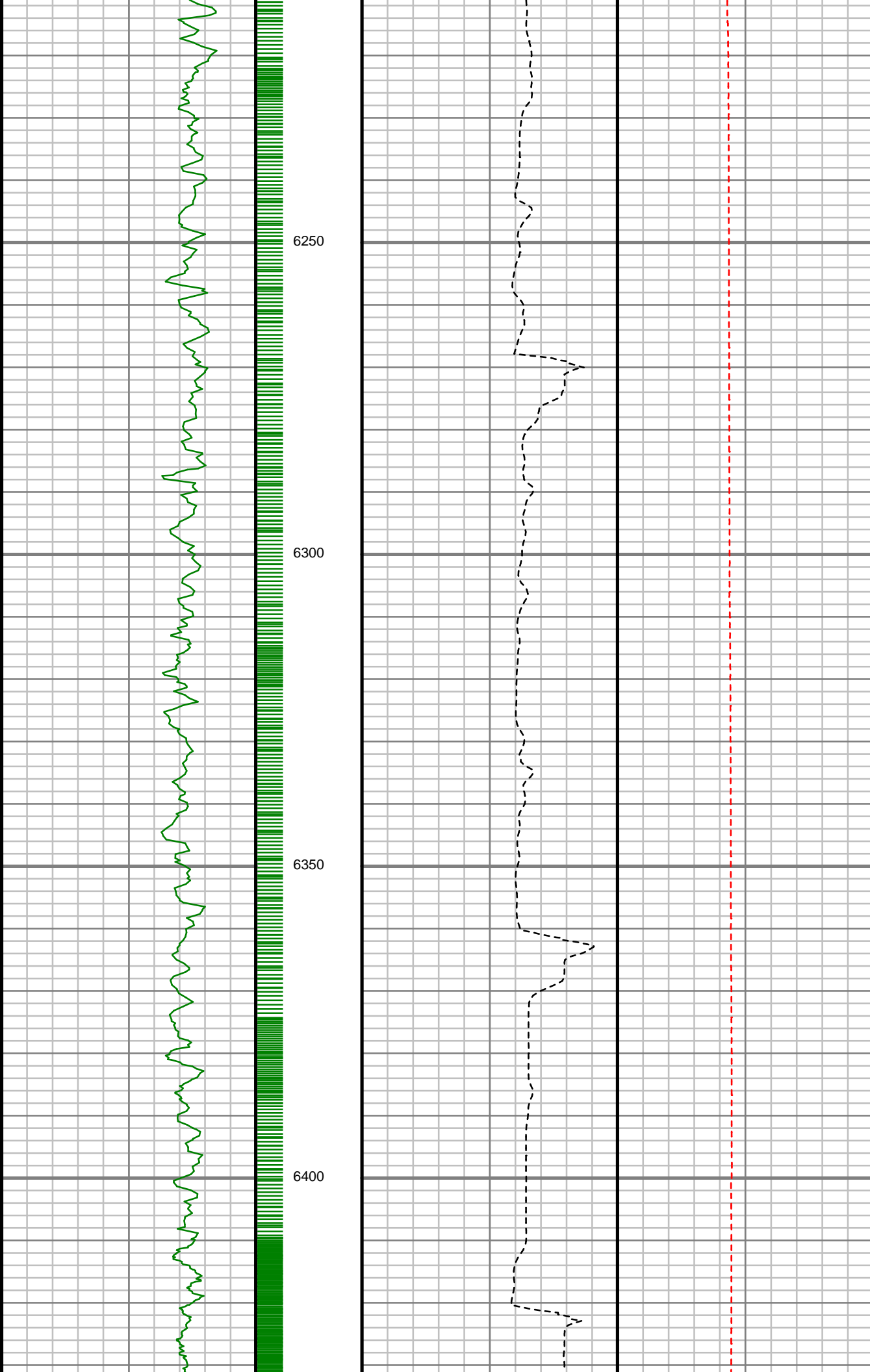
S: 61 MD: 5927.00 ft
Inc: 1.00 deg Az:
125.84 deg TVD:
5768.64 ft



S: 62 MD: 6021.00 ft
Inc: 1.19 deg Az:
173.08 deg TVD:
5862.63 ft

S: 63 MD: 6116.00 ft
Inc: 1.06 deg Az:
156.51 deg TVD:
5957.61 ft

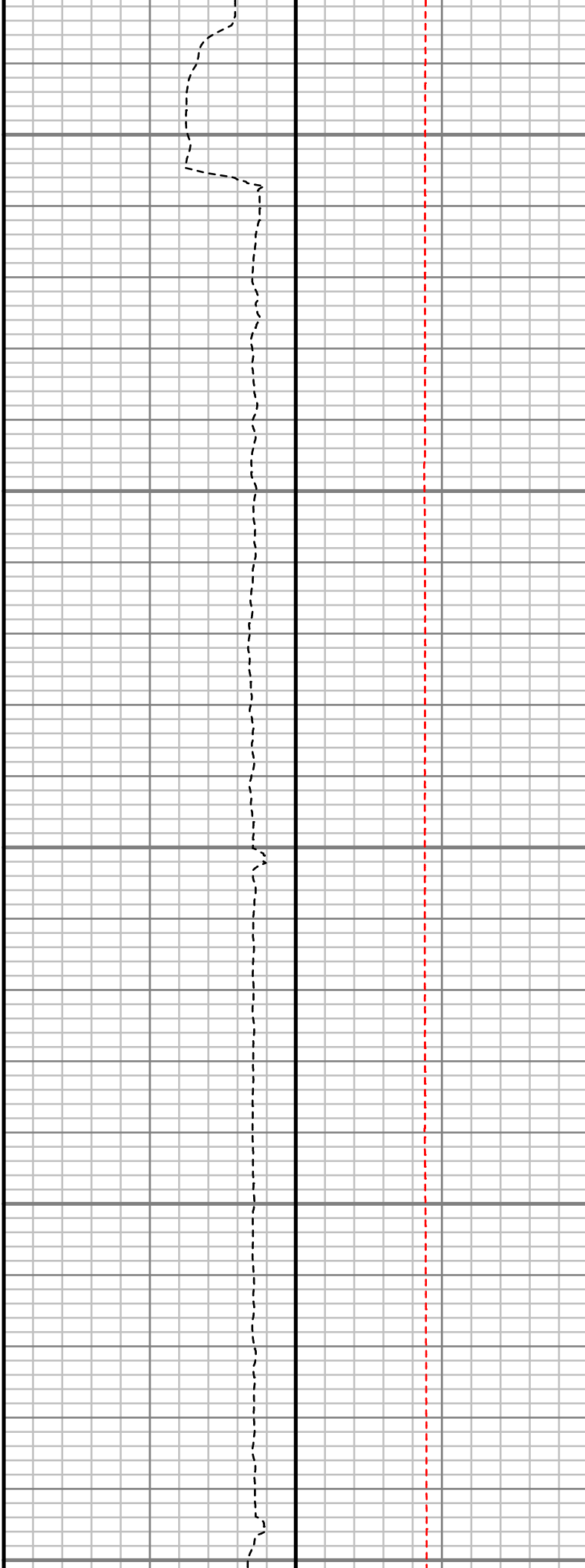
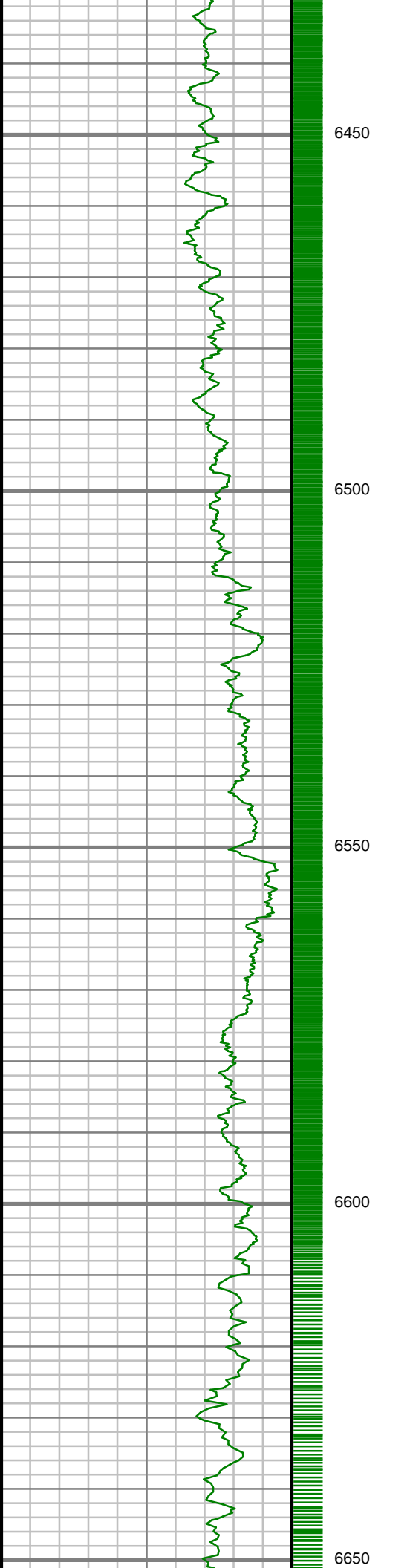
S: 64 MD: 6210.00 ft



S: 64 MD: 6210.00 ft
Inc: 0.76 deg Az:
246.05 deg TVD:
6051.60 ft

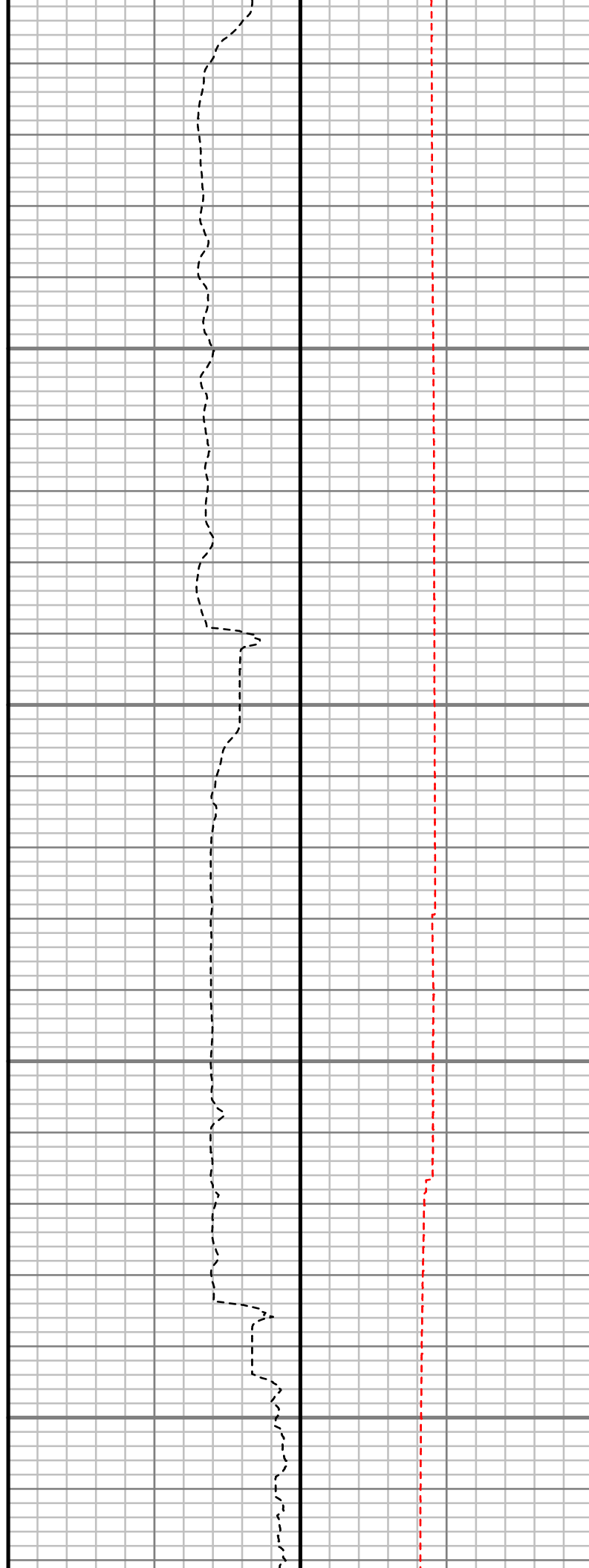
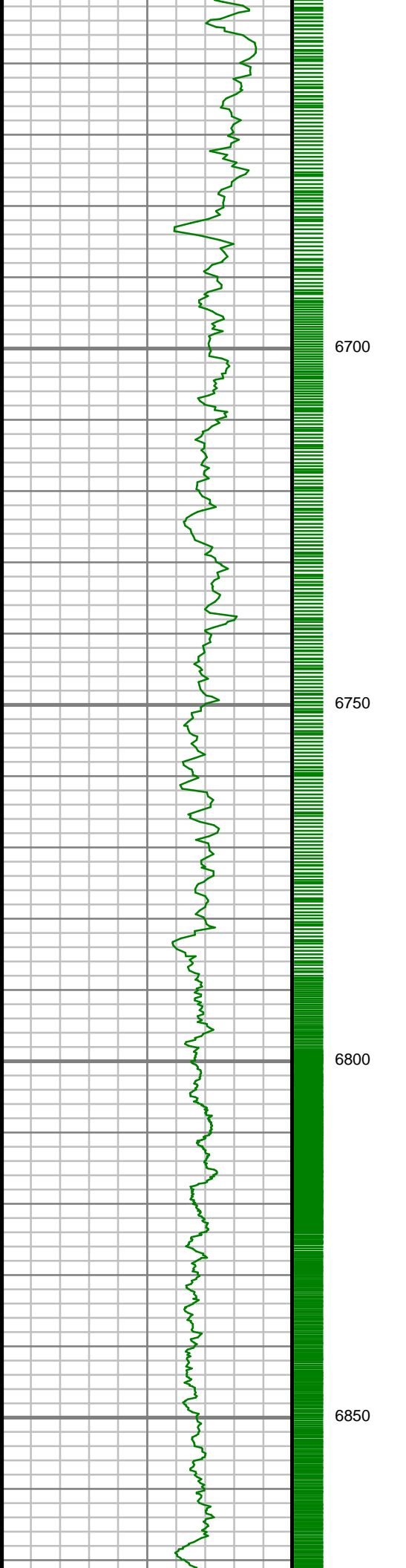
S: 65 MD: 6305.00 ft
Inc: 0.61 deg Az:
229.74 deg TVD:
6146.59 ft

S: 66 MD: 6399.00 ft
Inc: 0.61 deg Az:
243.68 deg TVD:
6240.59 ft



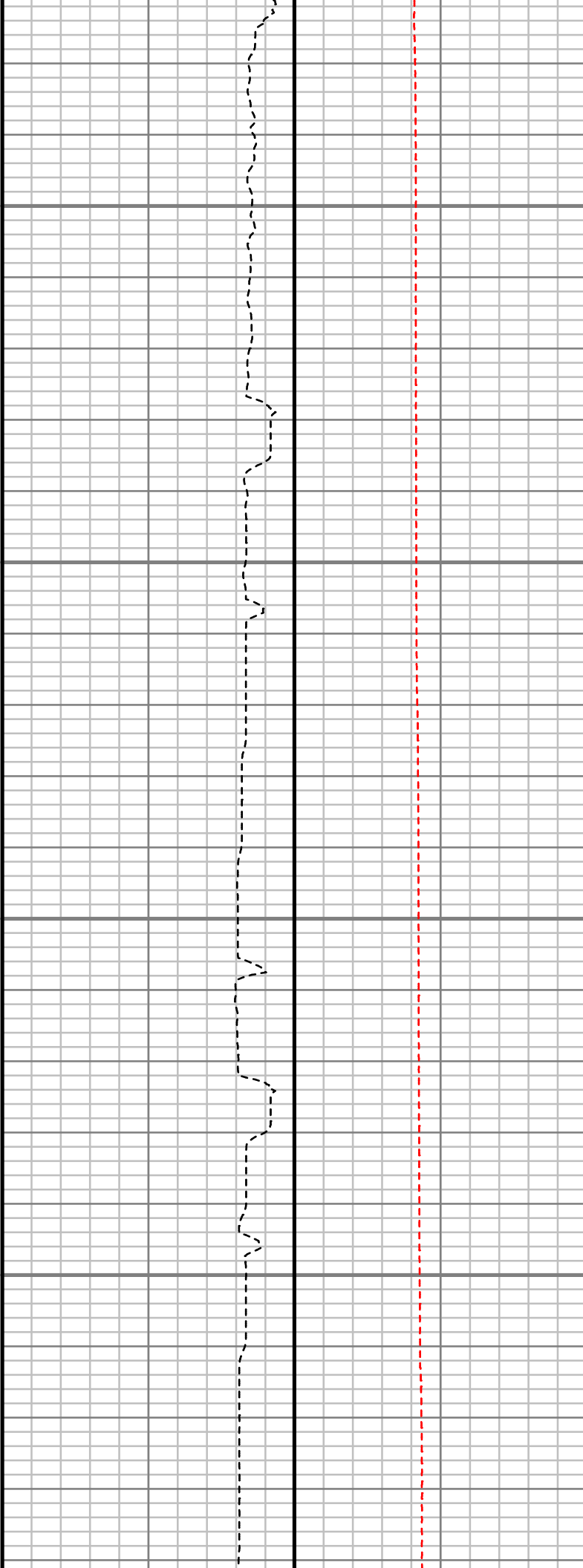
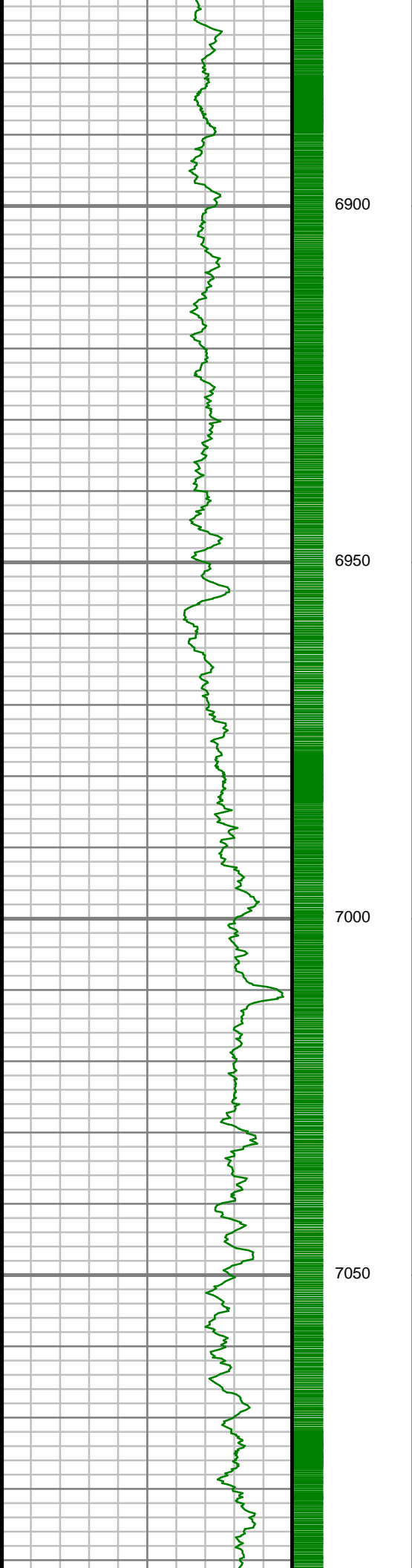
S: 67 MD: 6494.00 ft
Inc: 0.41 deg Az:
221.05 deg TVD:
6335.58 ft

S: 68 MD: 6588.00 ft
Inc: 0.20 deg Az:
199.38 deg TVD:
6429.58 ft



S: 69 MD: 6683.00 ft
Inc: 0.10 deg Az:
356.82 deg TVD:
6524.58 ft

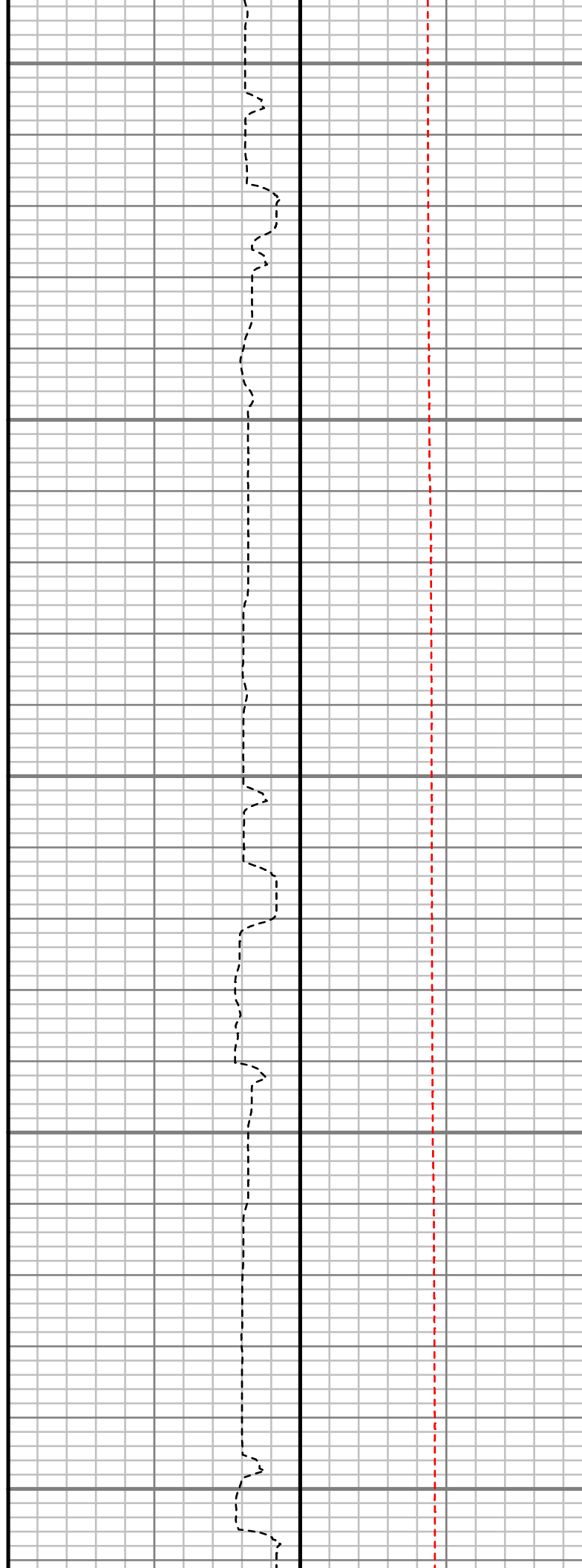
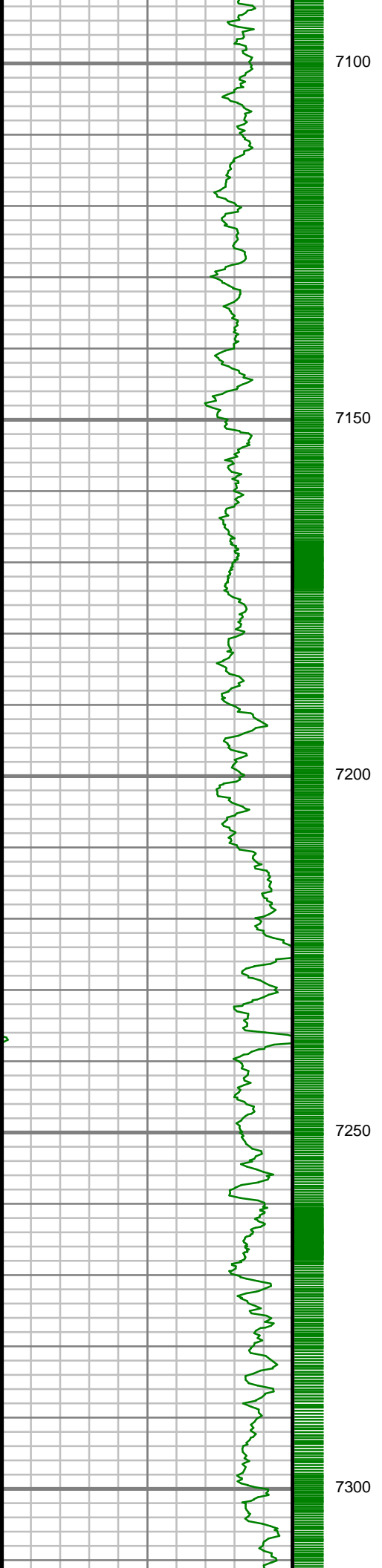
S: 70 MD: 6777.00 ft
Inc: 0.20 deg Az: 8.91
deg TVD: 6618.58 ft



S: 71 MD: 6871.00 ft
Inc: 2.47 deg Az: 19.76
deg TVD: 6712.55 ft

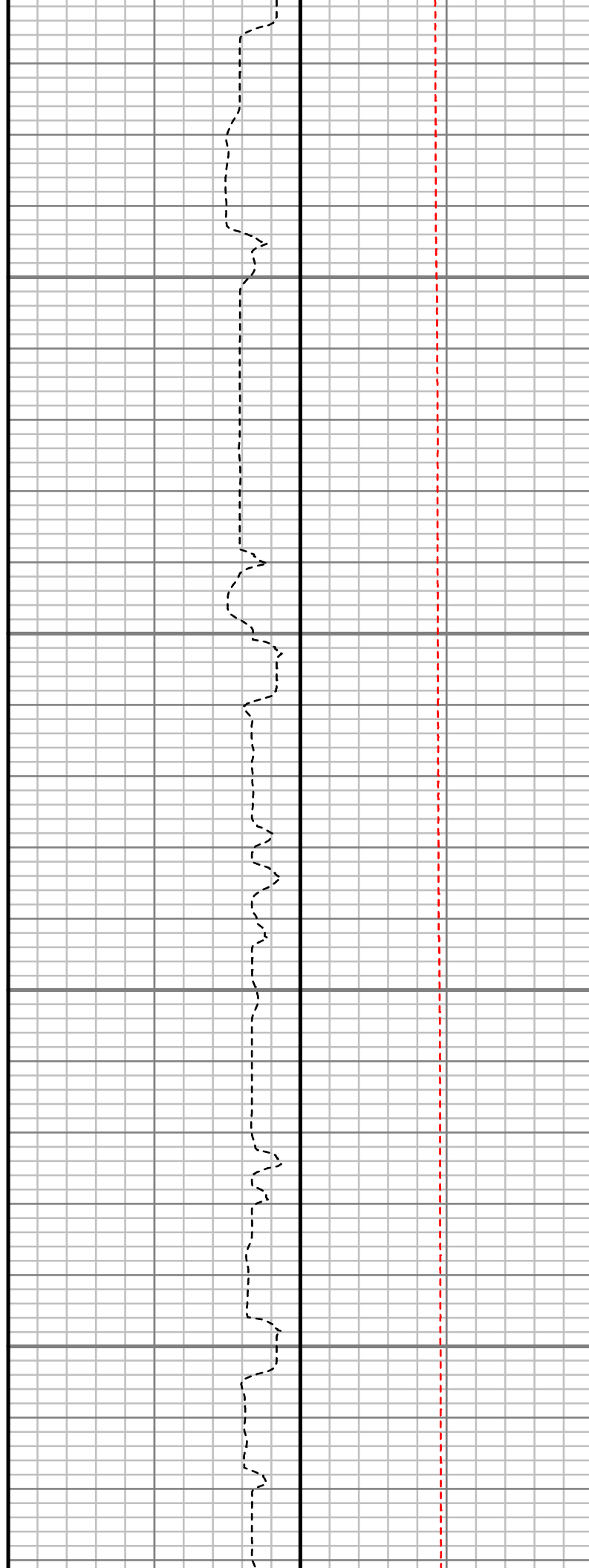
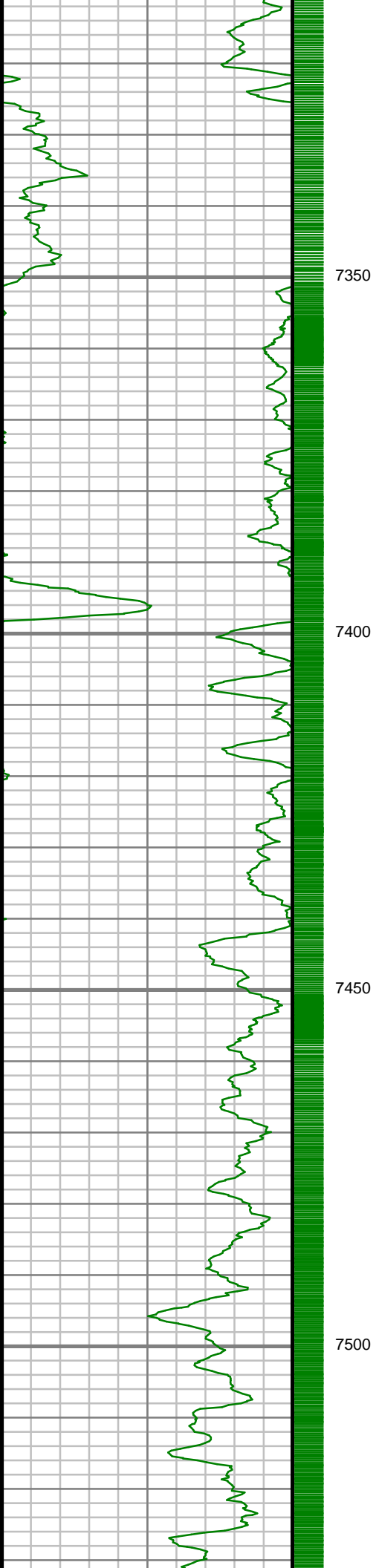
S: 72 MD: 6966.00 ft
Inc: 13.08 deg Az: 4.53
deg TVD: 6806.55 ft

S: 73 MD: 7060.00 ft
Inc: 19.99 deg Az:
358.42 deg TVD:
6896.61 ft



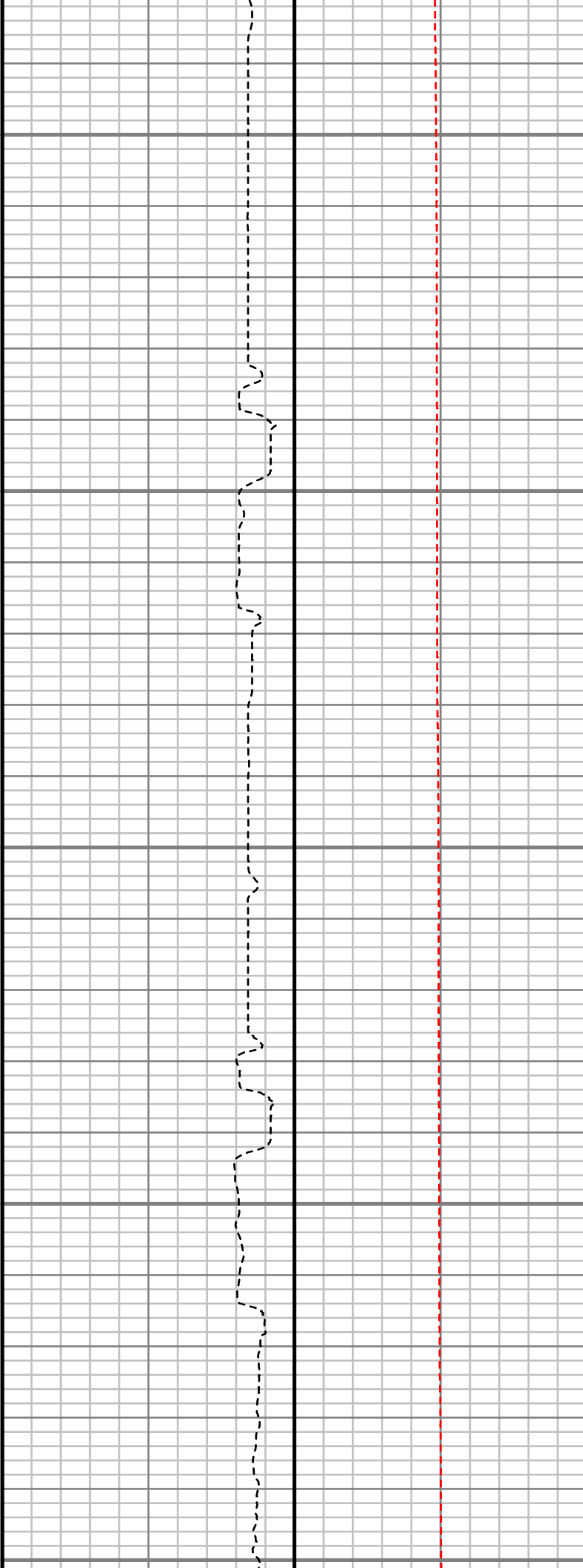
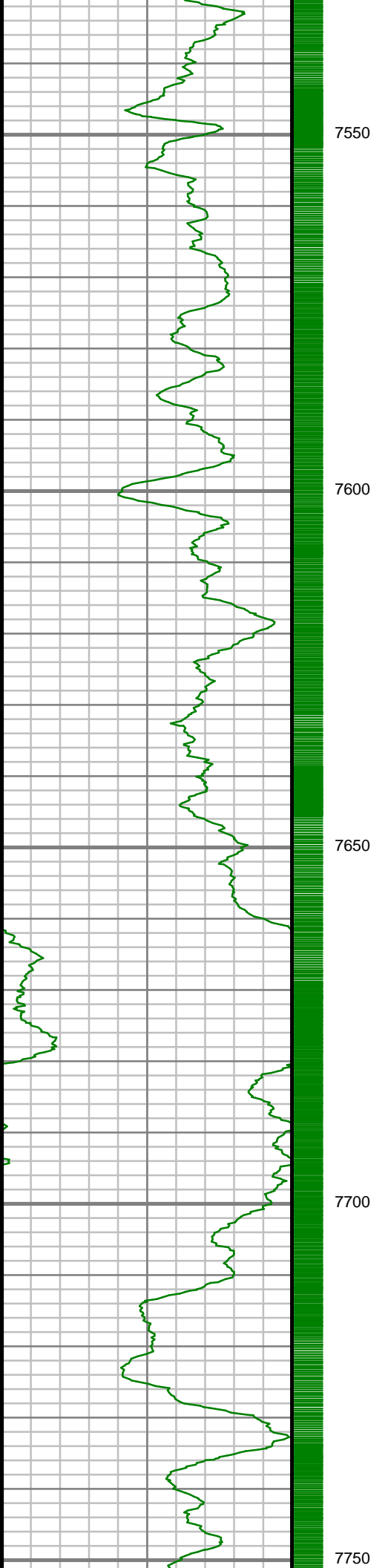
S: 74 MD: 7155.00 ft
Inc: 30.30 deg Az:
356.17 deg TVD:
6982.49 ft

S: 75 MD: 7249.00 ft
Inc: 37.70 deg Az:
357.86 deg TVD:
7060.37 ft



S: 76 MD: 7344.00 ft
Inc: 43.45 deg Az: 0.85
deg TVD: 7132.50 ft

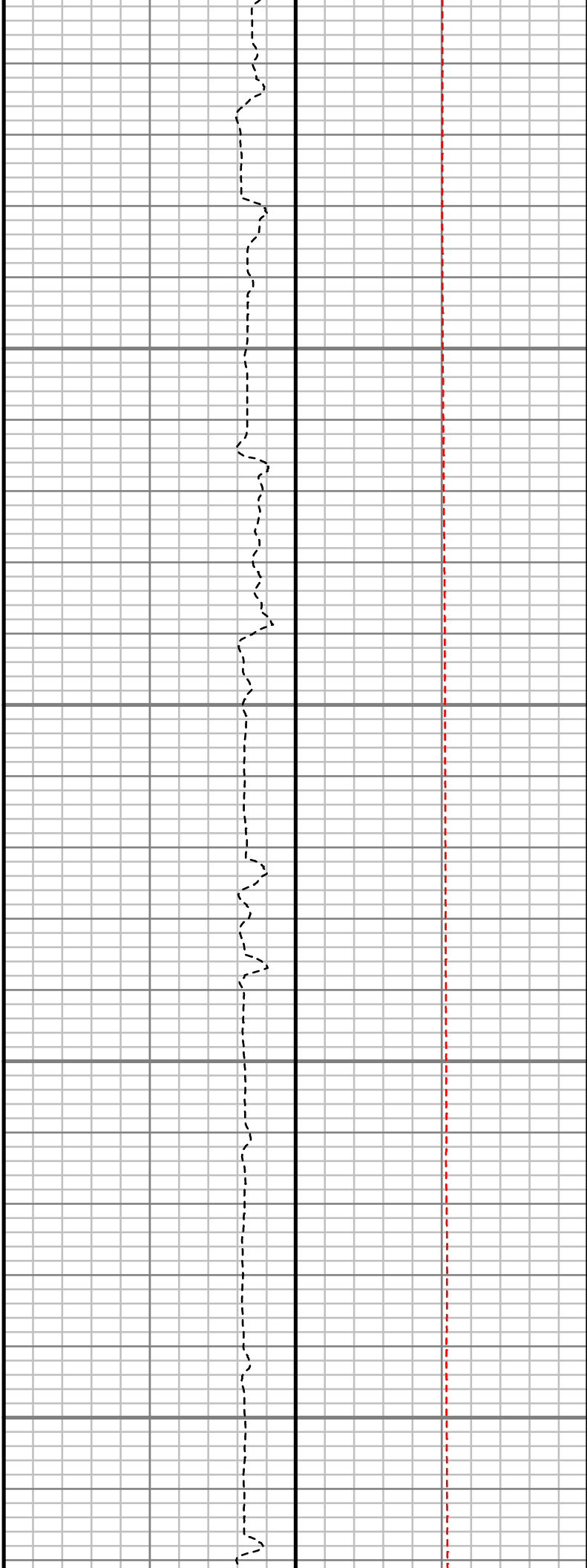
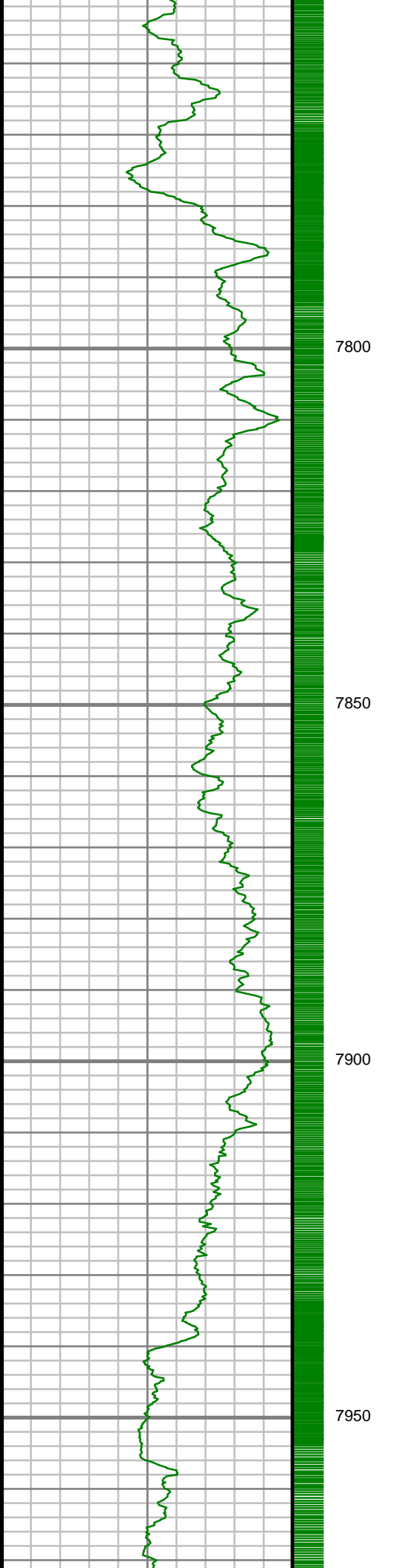
S: 77 MD: 7438.00 ft
Inc: 50.38 deg Az:
357.52 deg TVD:
7196.68 ft



S: 78 MD: 7533.00 ft
Inc: 58.01 deg Az:
354.36 deg TVD:
7252.23 ft

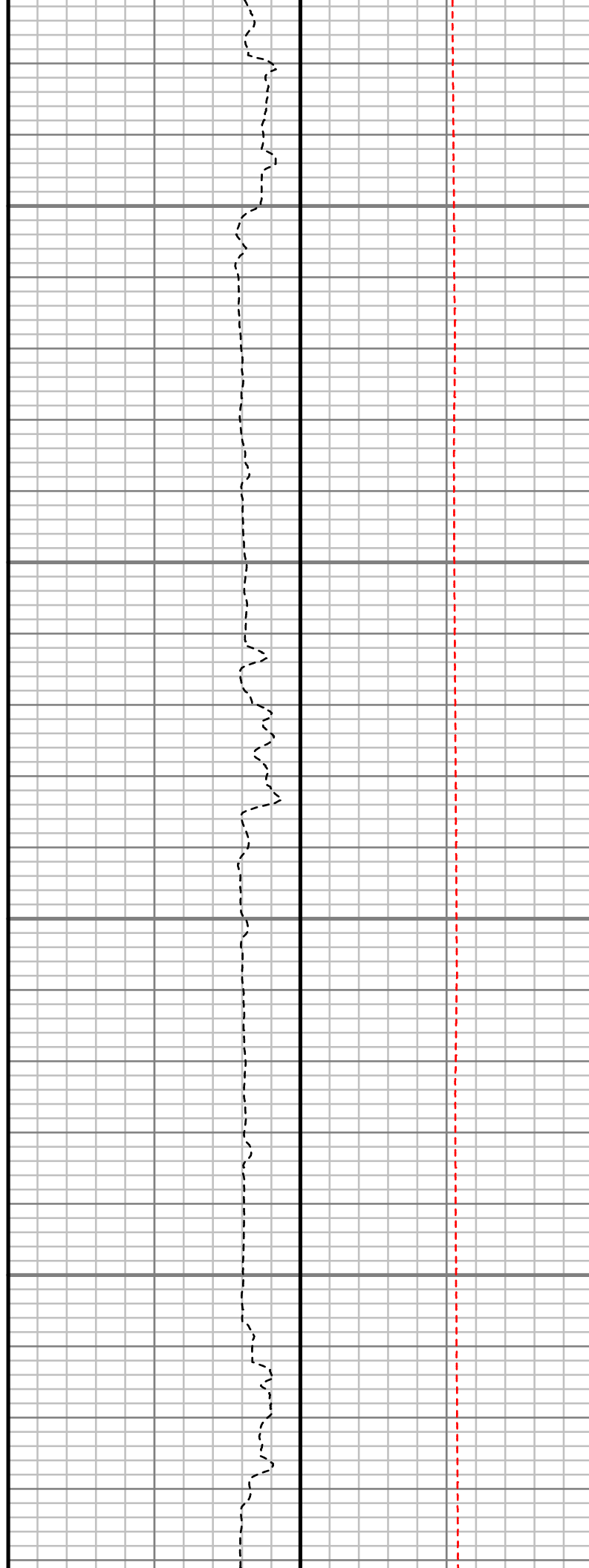
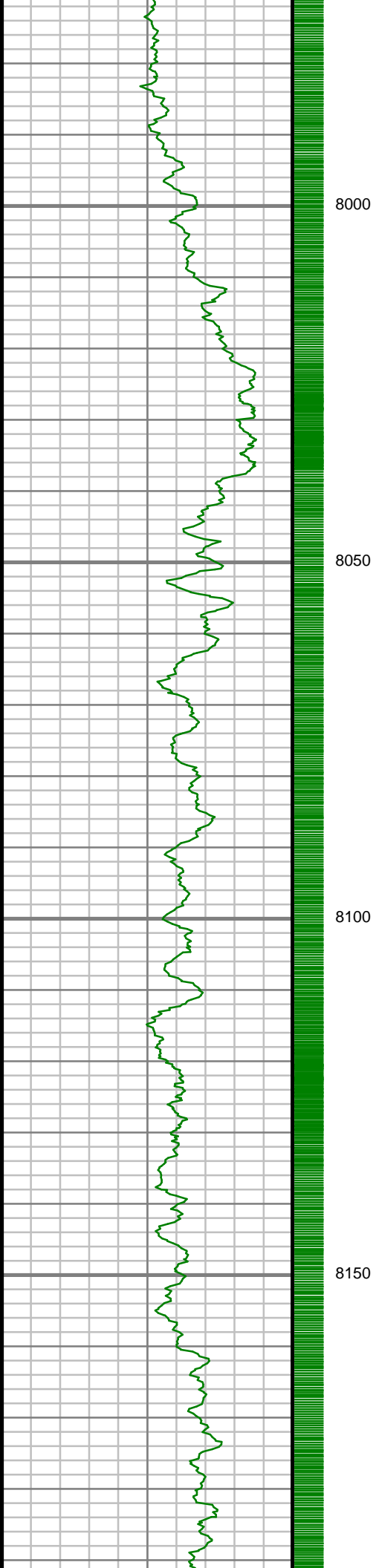
S: 79 MD: 7627.00 ft
Inc: 67.83 deg Az:
355.56 deg TVD:
7294.97 ft

S: 80 MD: 7721.00 ft
Inc: 77.80 deg Az:
358.76 deg TVD:
7322.71 ft



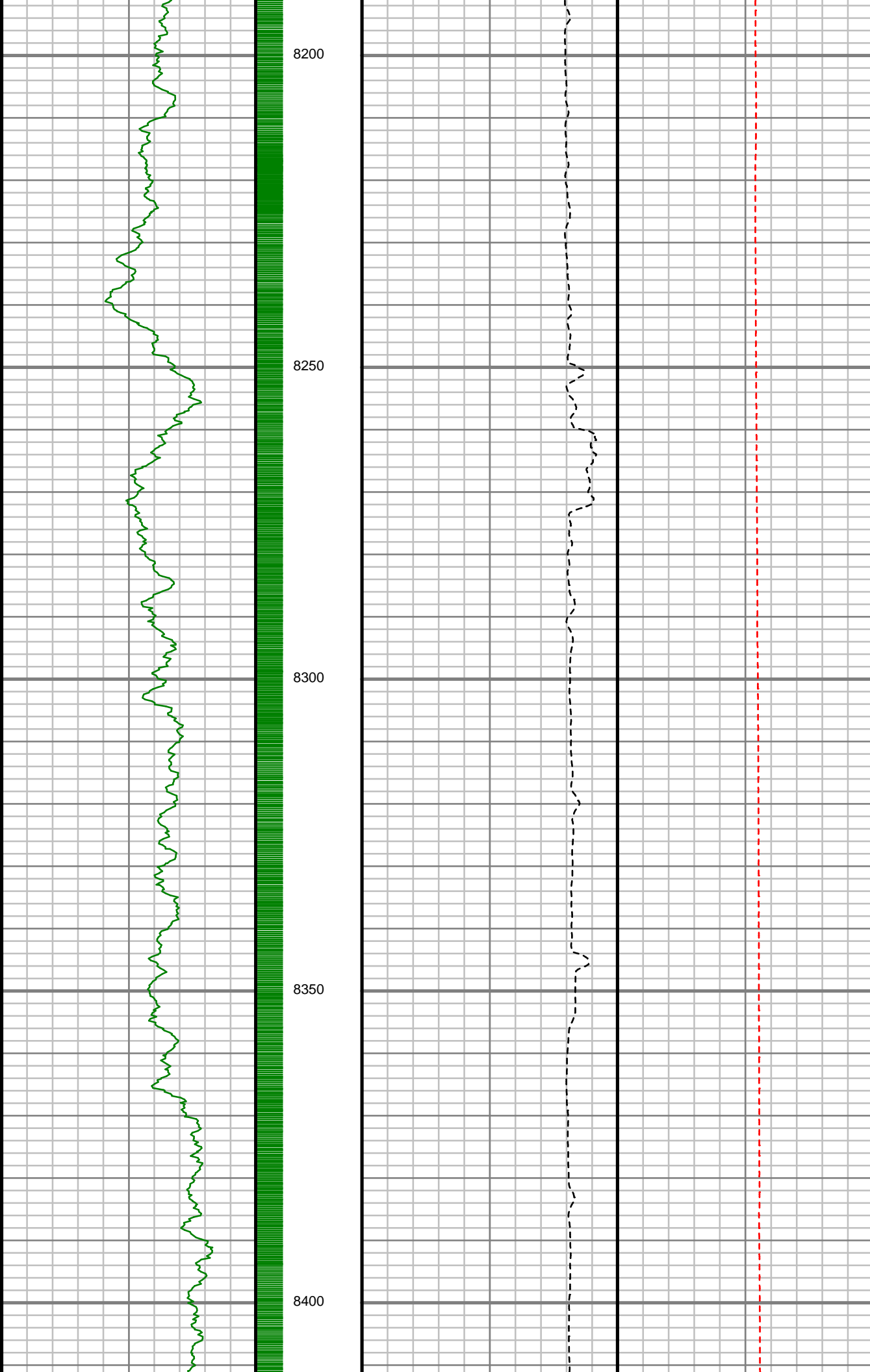
S: 81 MD: 7816.00 ft
Inc: 85.39 deg Az: 0.77
deg TVD: 7336.58 ft

S: 82 MD: 7910.00 ft
Inc: 89.50 deg Az: 1.24
deg TVD: 7340.77 ft



S: 83 MD: 8005.00 ft
Inc: 92.66 deg Az: 0.94
deg TVD: 7338.99 ft

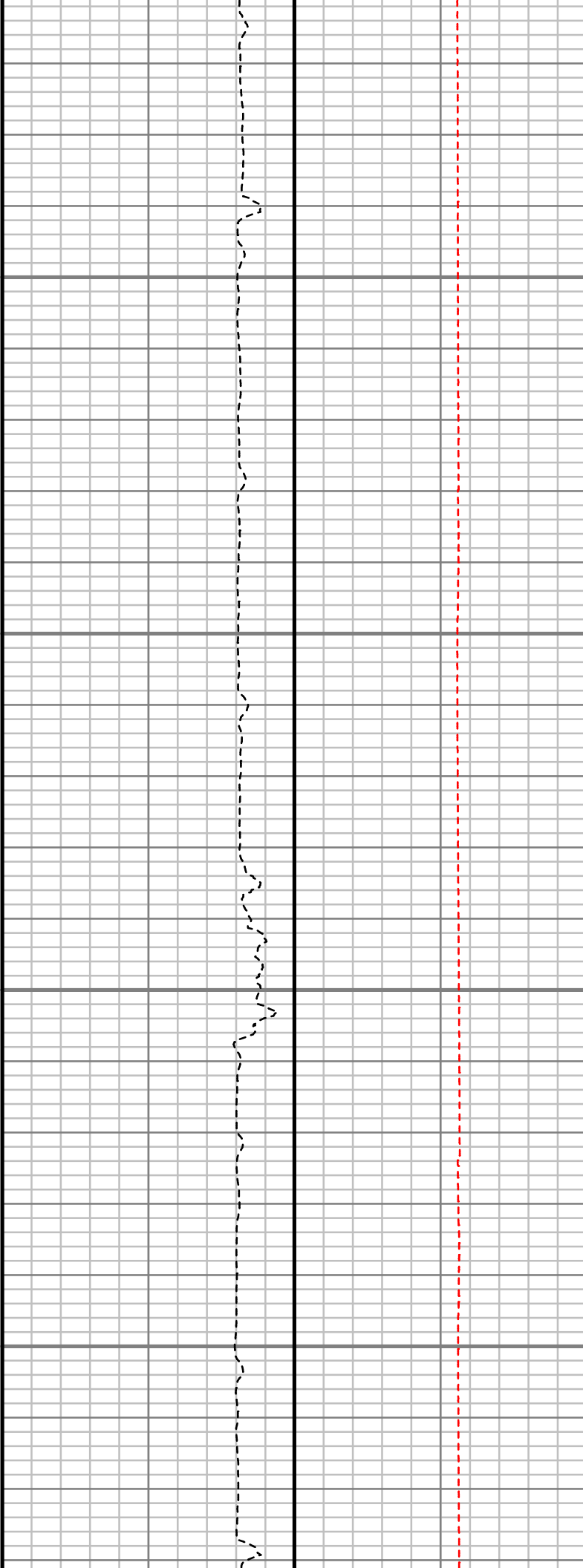
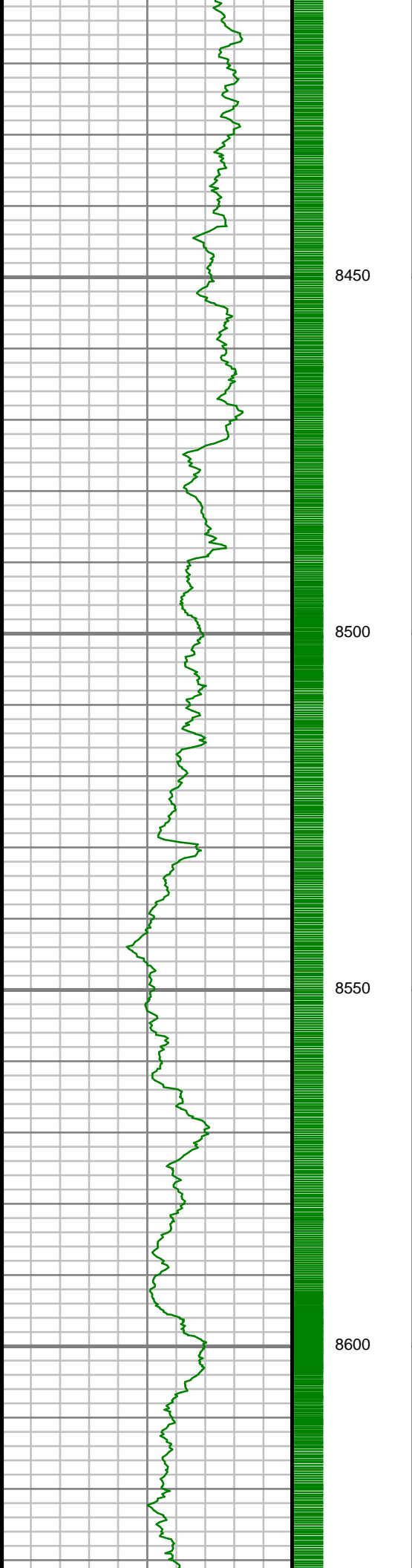
S: 84 MD: 8099.00 ft
Inc: 92.52 deg Az:
359.22 deg TVD:
7334.74 ft



S: 85 MD: 8194.00 ft
Inc: 91.07 deg Az:
358.70 deg TVD:
7331.76 ft

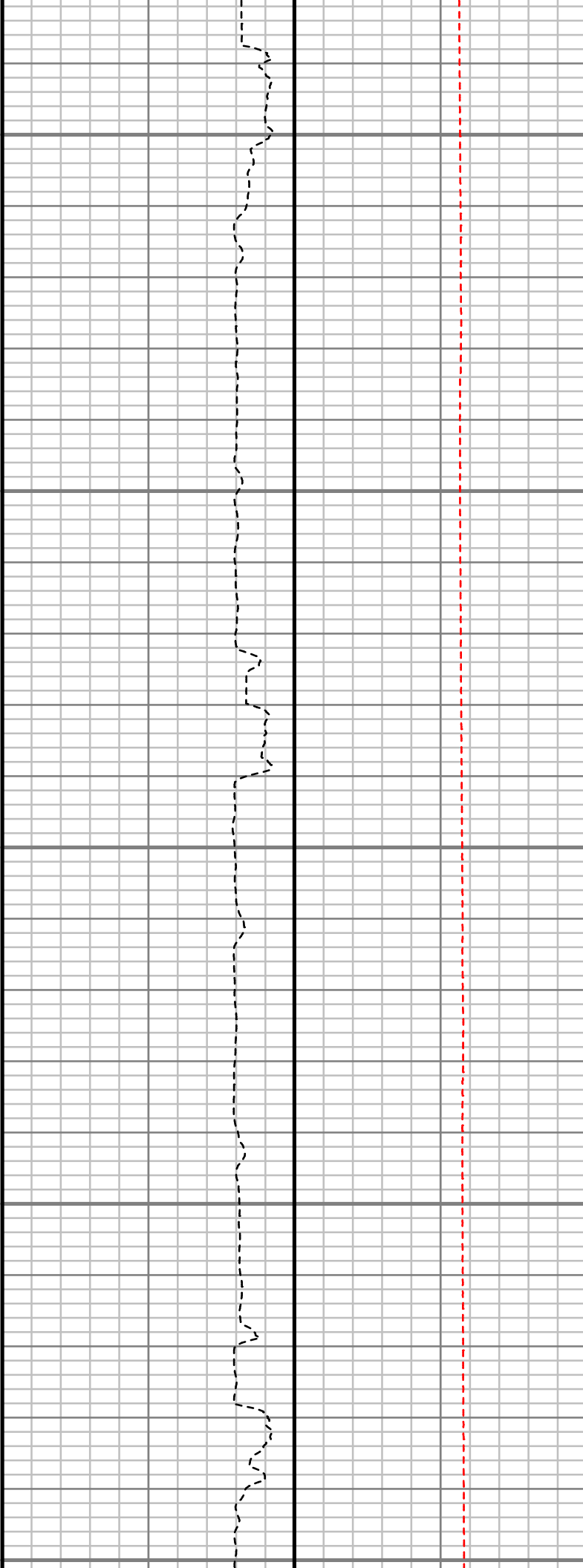
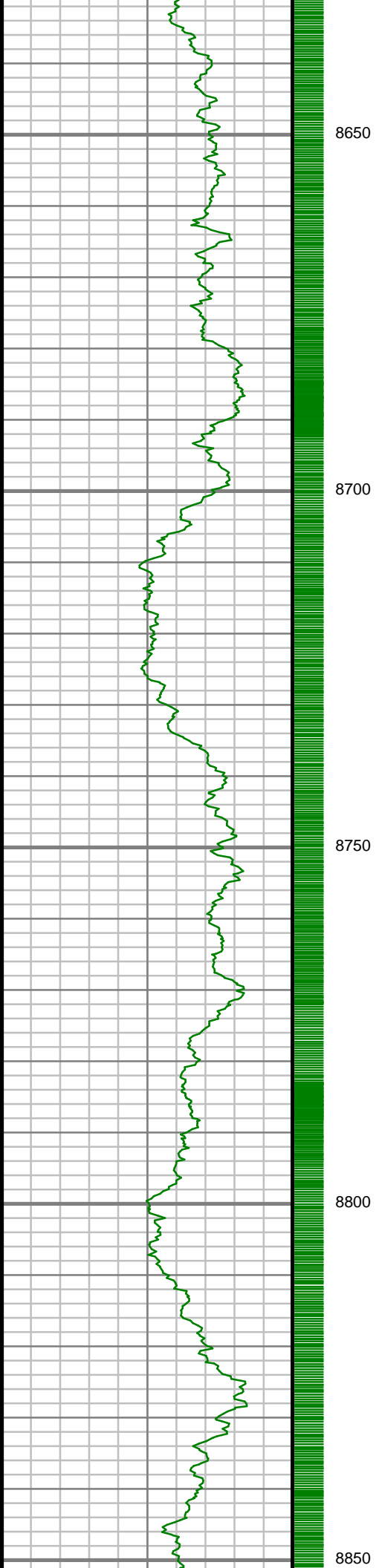
S: 86 MD: 8288.00 ft
Inc: 89.33 deg Az:
358.82 deg TVD:
7331.43 ft

S: 87 MD: 8383.00 ft
Inc: 90.03 deg Az:
358.22 deg TVD:
7331.96 ft



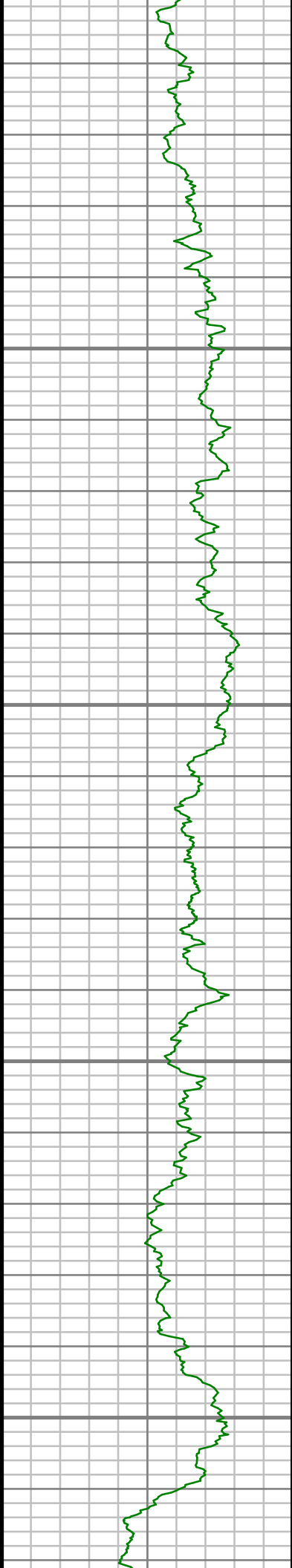
S: 88 MD: 8477.00 ft
Inc: 91.51 deg Az:
357.82 deg TVD:
7330.69 ft

S: 89 MD: 8572.00 ft
Inc: 91.65 deg Az:
357.75 deg TVD:
7328.08 ft



S: 90 MD: 8667.00 ft
Inc: 91.28 deg Az:
359.58 deg TVD:
7325.65 ft

S: 91 MD: 8761.00 ft
Inc: 90.91 deg Az:
358.75 deg TVD:
7323.86 ft

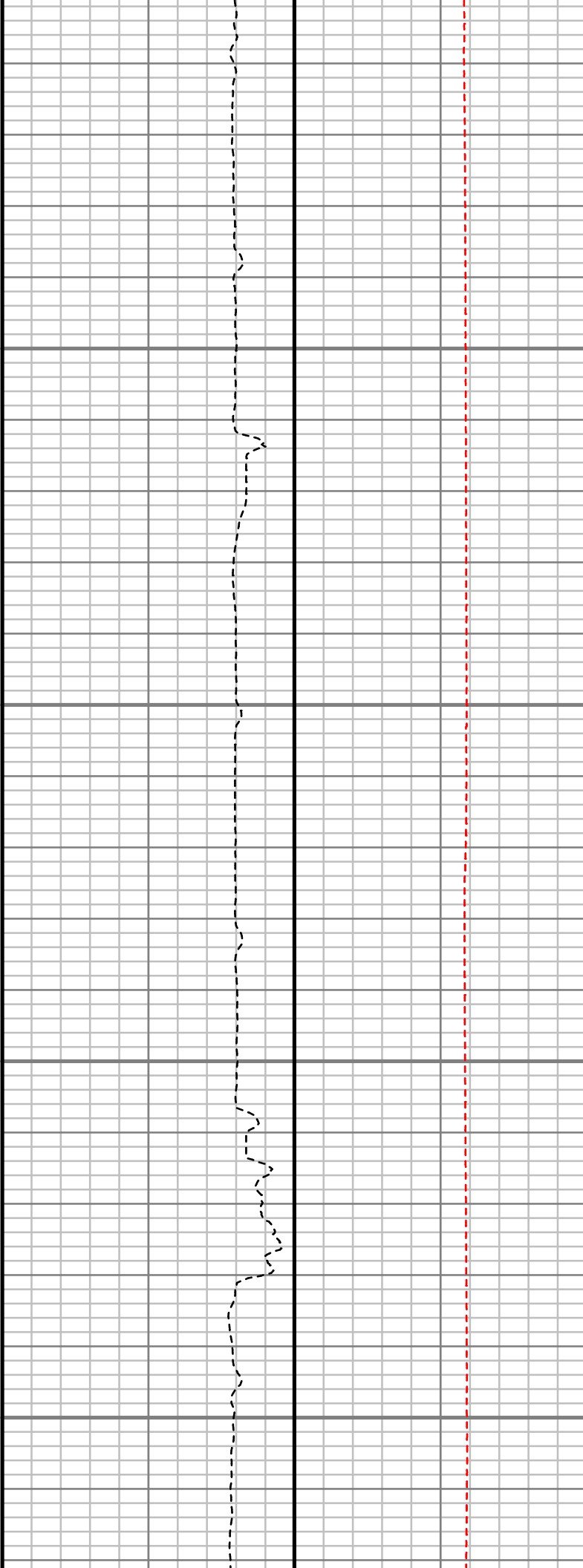


8900

8950

9000

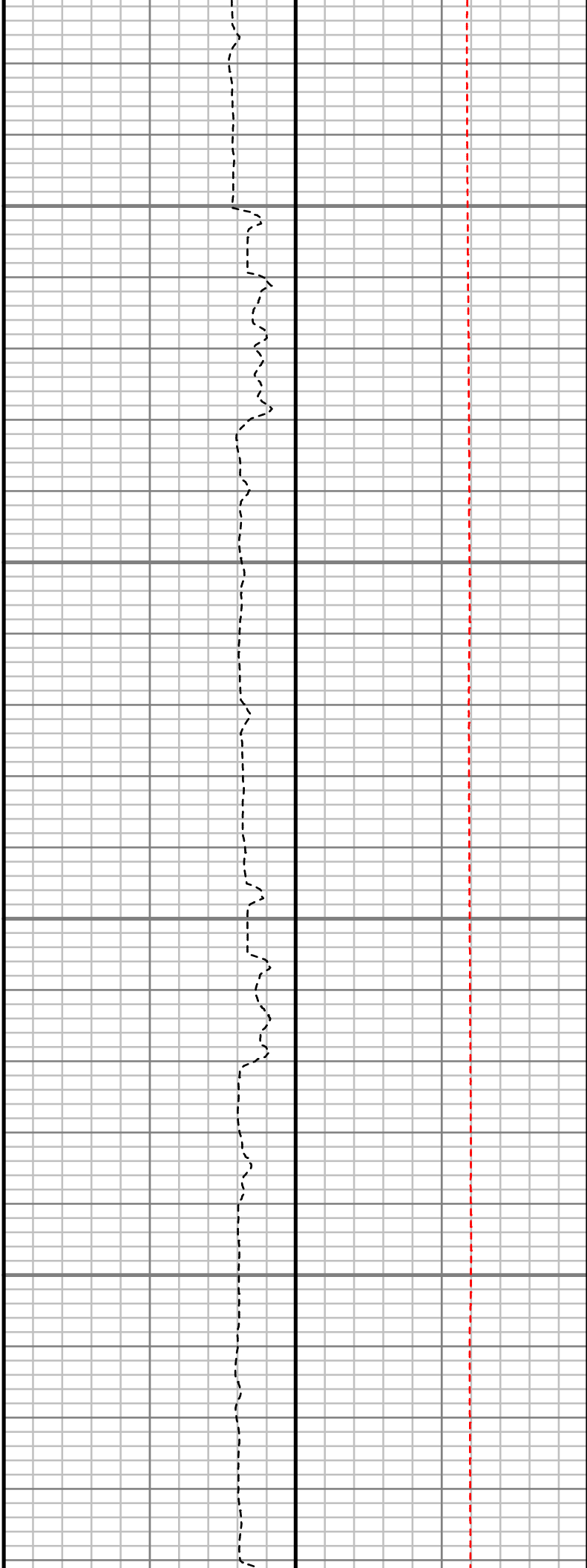
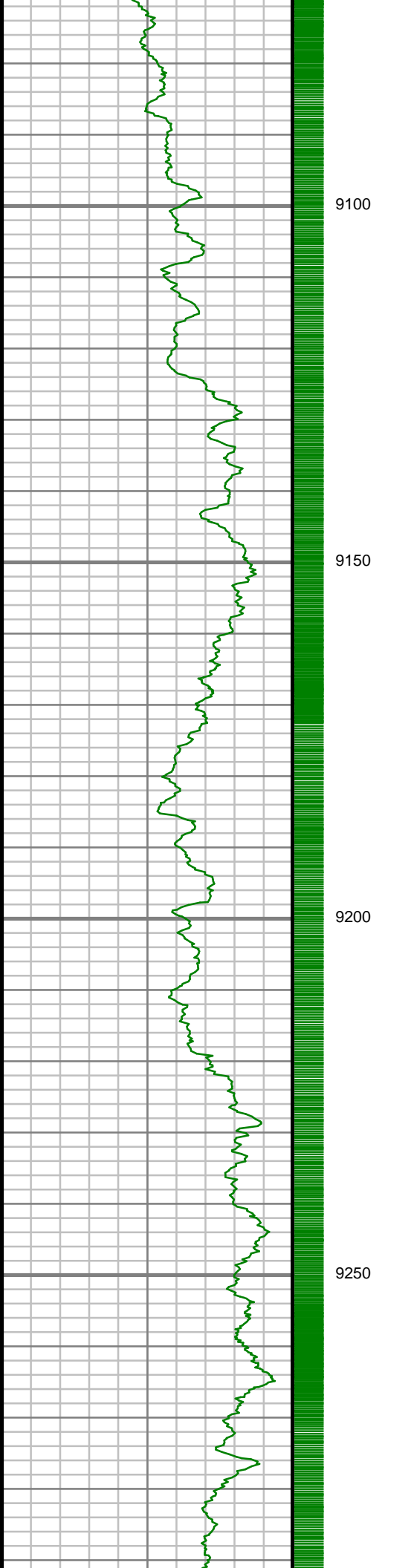
9050



S: 92 MD: 8856.00 ft
Inc: 90.54 deg Az:
358.29 deg TVD:
7322.67 ft

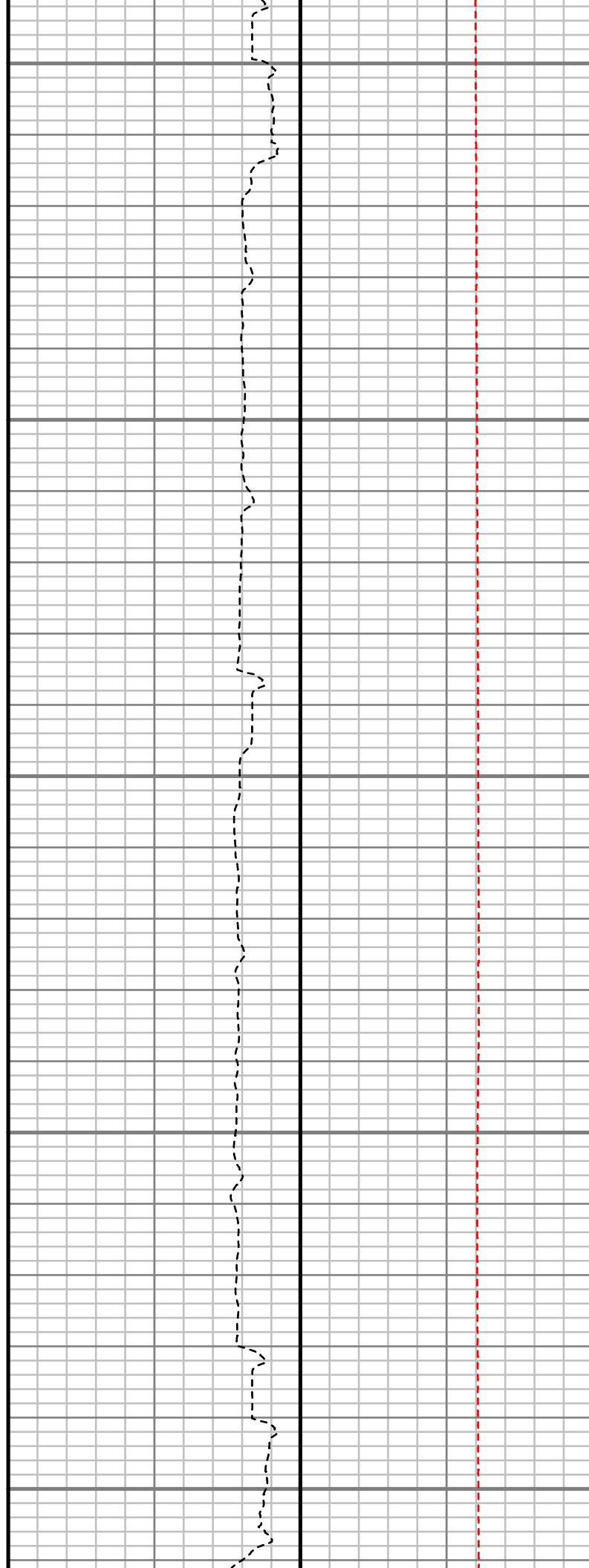
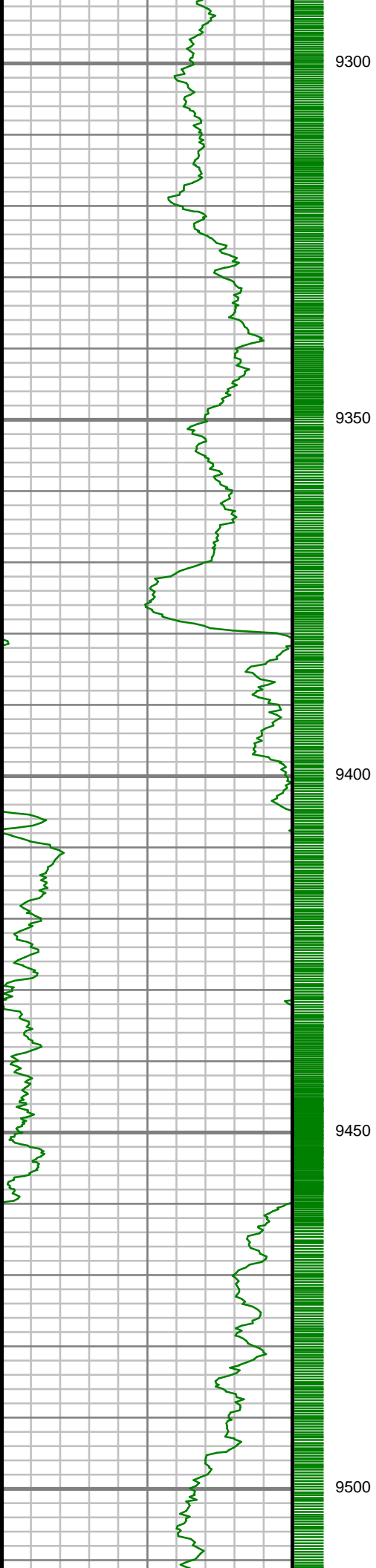
S: 93 MD: 8950.00 ft
Inc: 92.08 deg Az:
358.02 deg TVD:
7320.52 ft

S: 94 MD: 9045.00 ft
Inc: 92.39 deg Az:
359.14 deg TVD:
7316.81 ft



S: 95 MD: 9139.00 ft
Inc: 91.18 deg Az:
359.55 deg TVD:
7313.89 ft

S: 96 MD: 9234.00 ft
Inc: 90.60 deg Az:
359.83 deg TVD:
7312.41 ft



S: 97 MD: 9328.00 ft
Inc: 89.36 deg Az:
359.74 deg TVD:
7312.44 ft

S: 98 MD: 9423.00 ft
Inc: 90.60 deg Az:
358.35 deg TVD:
7312.47 ft

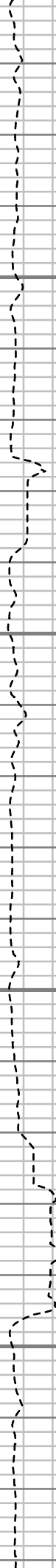


9550

9600

9650

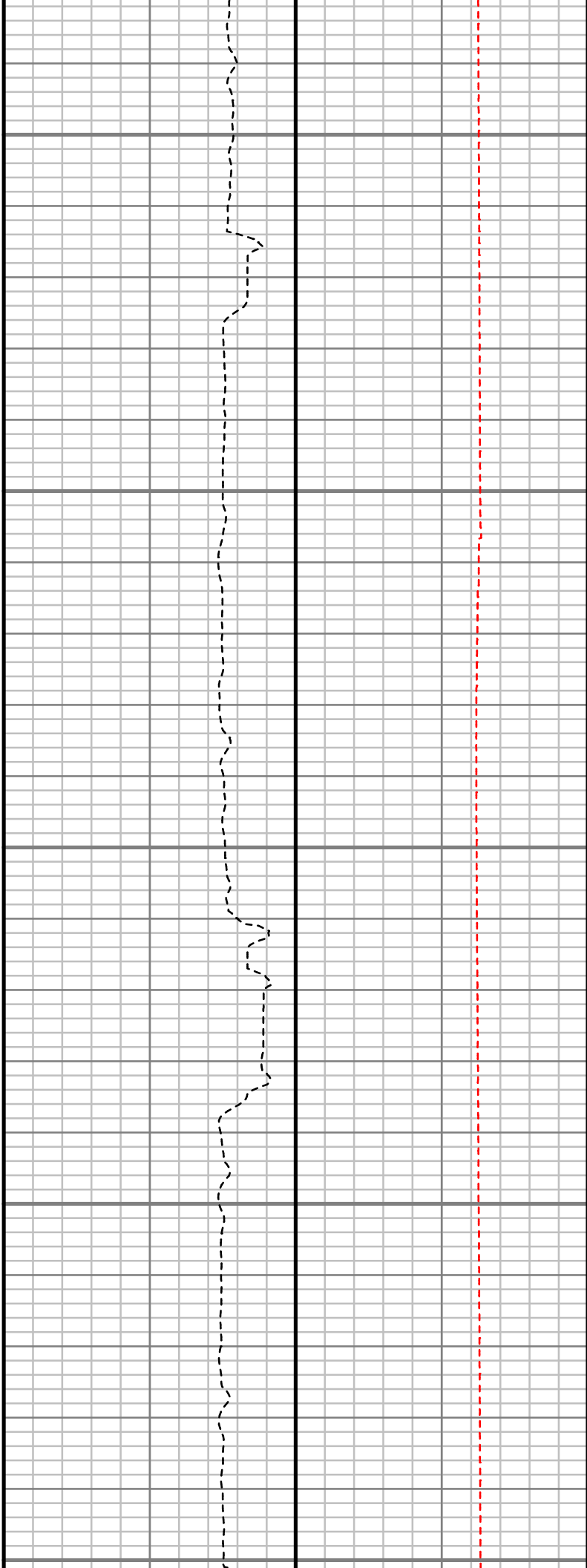
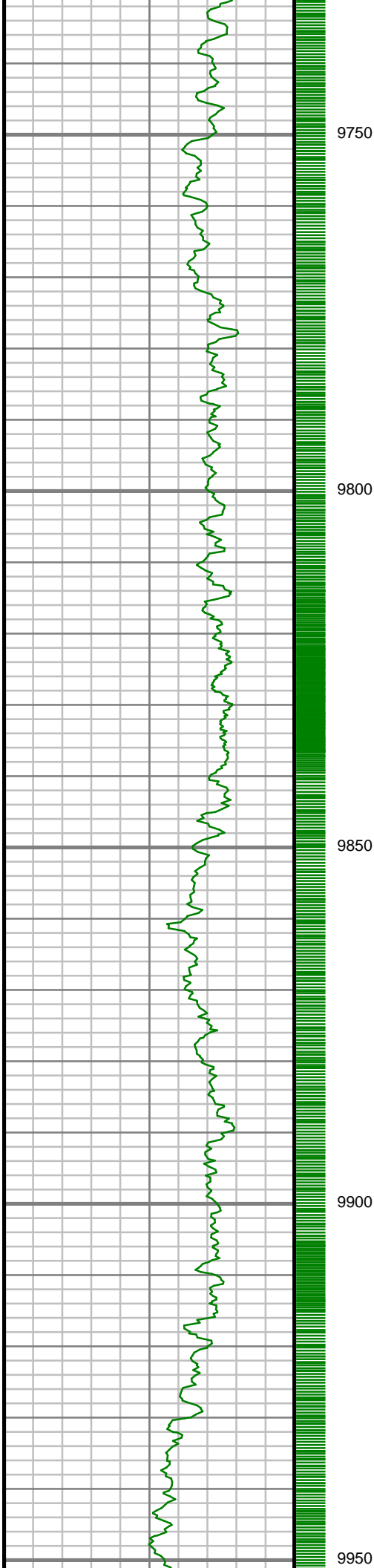
9700



S: 99 MD: 9518.00 ft
Inc: 89.40 deg Az:
357.60 deg TVD:
7312.47 ft

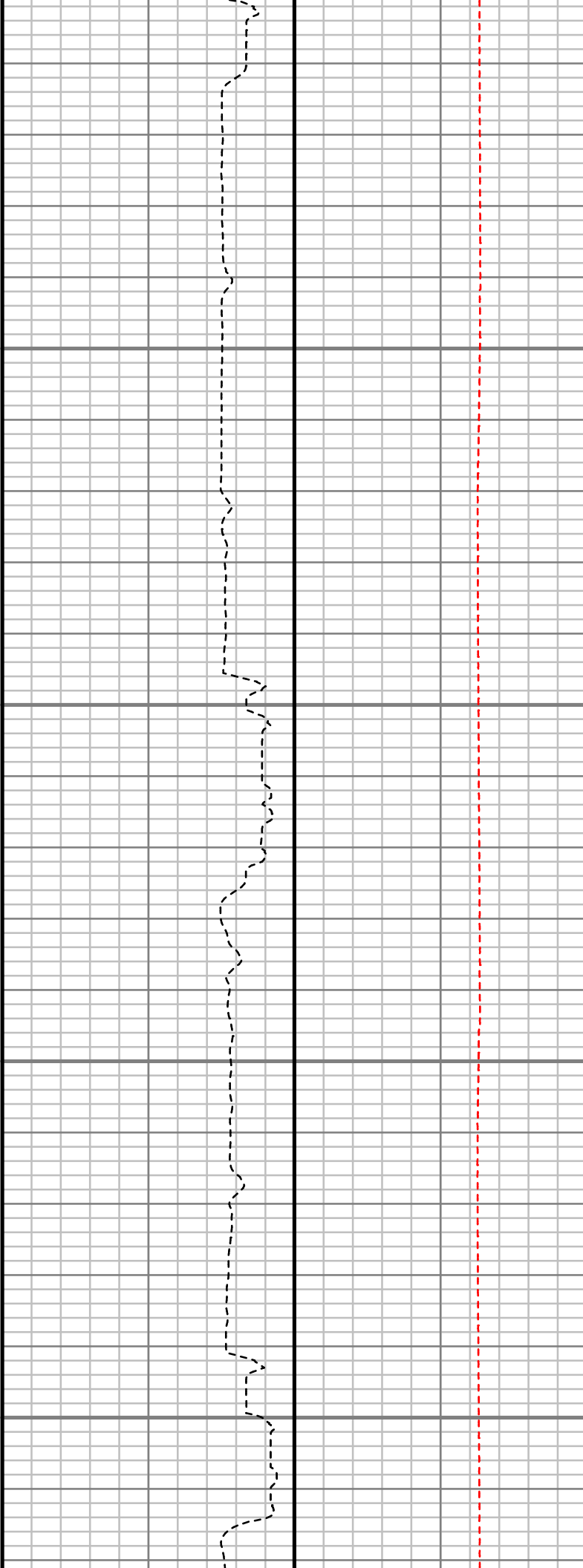
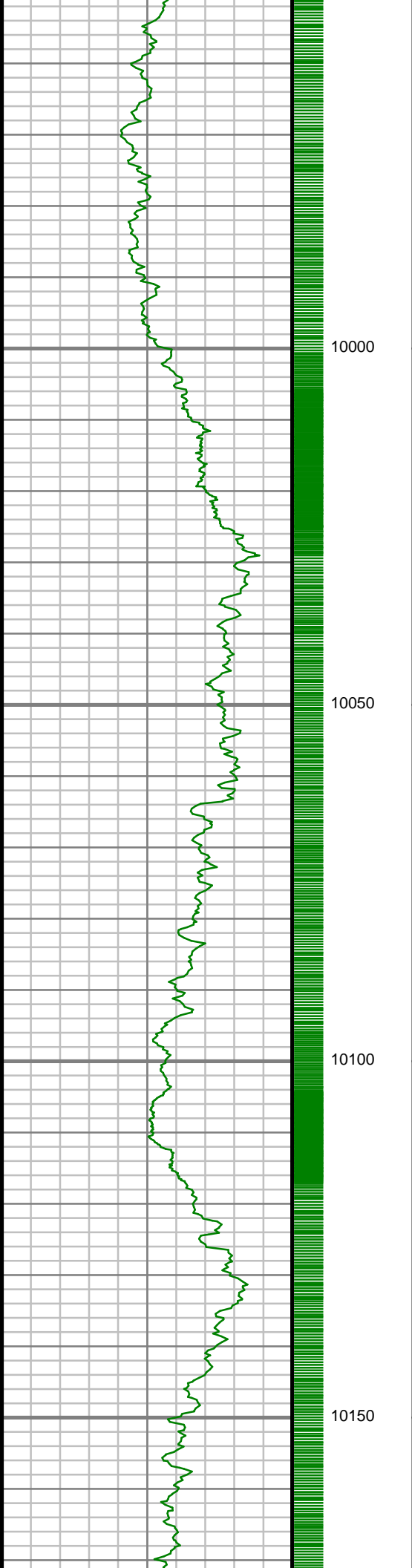
S: 100 MD: 9612.00 ft
Inc: 90.13 deg Az:
356.49 deg TVD:
7312.85 ft

S: 101 MD: 9707.00 ft
Inc: 89.90 deg Az:
357.83 deg TVD:
7312.83 ft



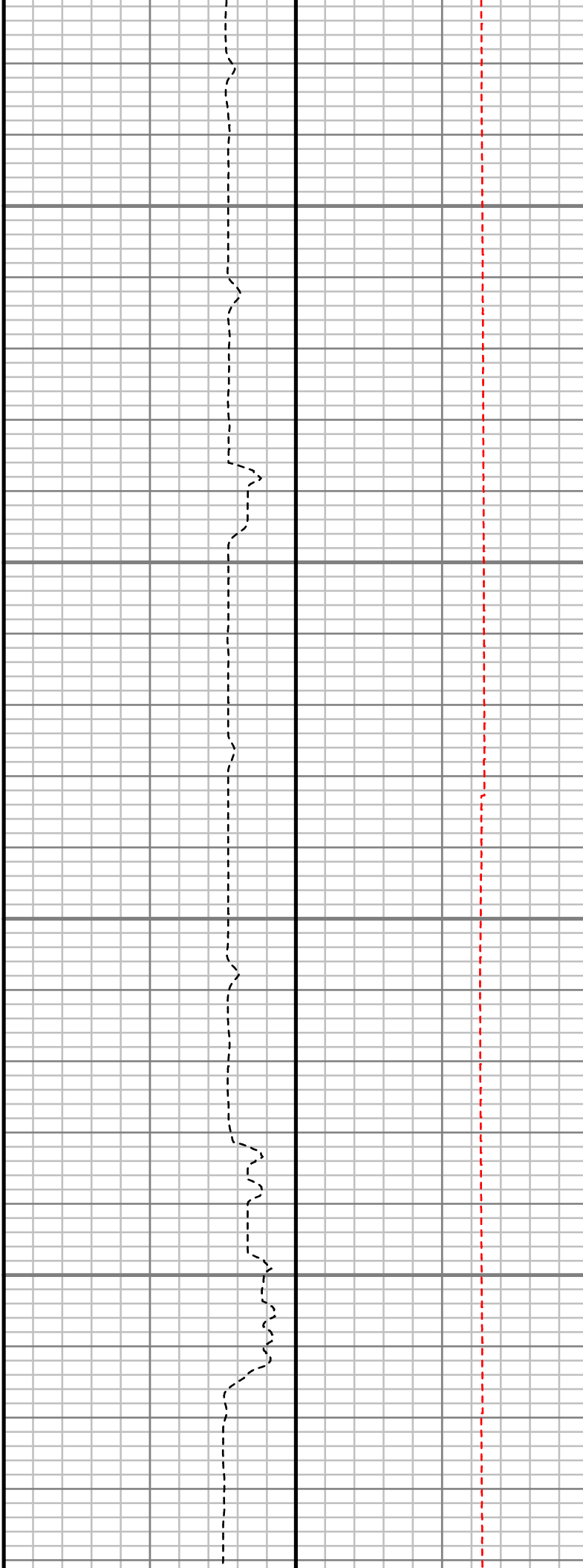
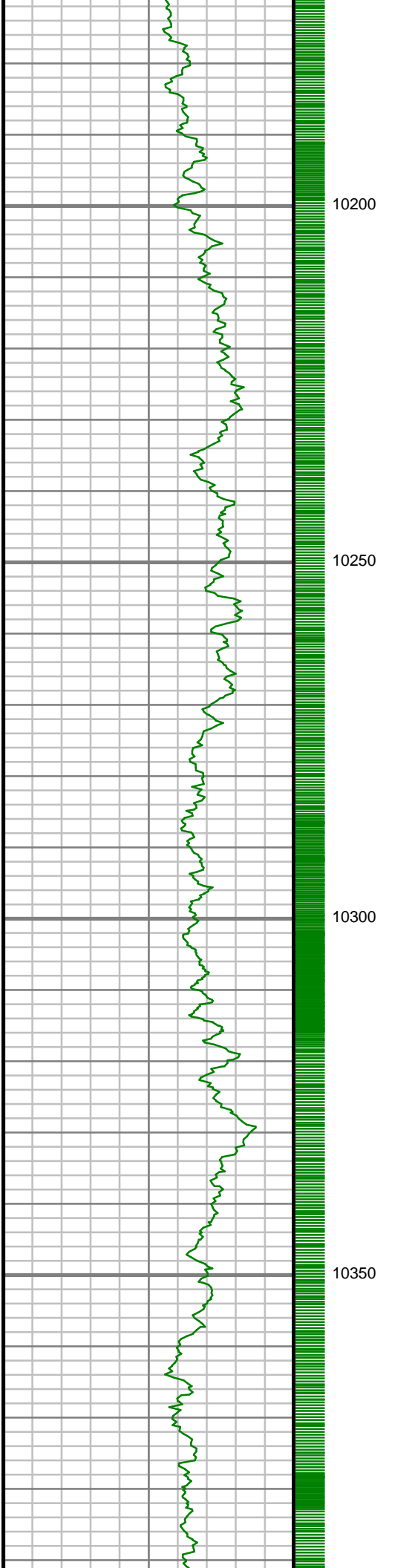
S: 102 MD: 9801.00 ft
Inc: 91.01 deg Az:
357.71 deg TVD:
7312.08 ft

S: 103 MD: 9896.00 ft
Inc: 90.13 deg Az:
358.58 deg TVD:
7311.14 ft



S: 104 MD: 9990.00 ft
Inc: 90.81 deg Az:
357.25 deg TVD:
7310.36 ft

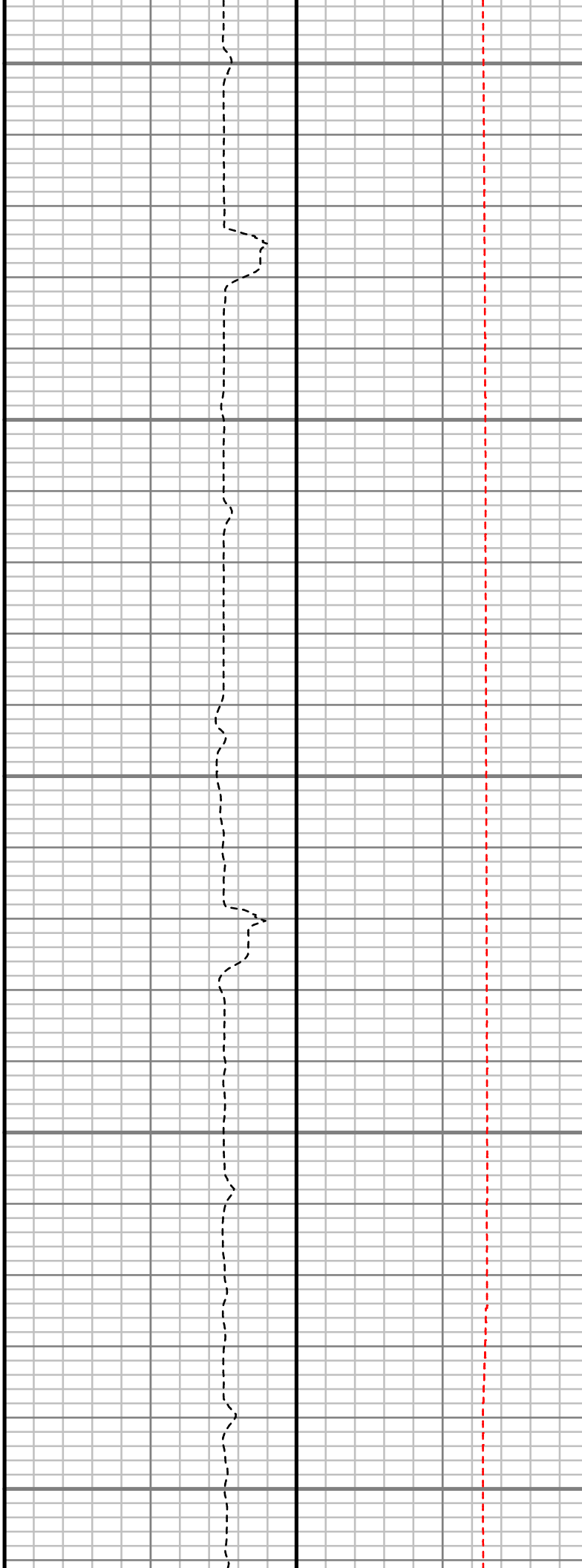
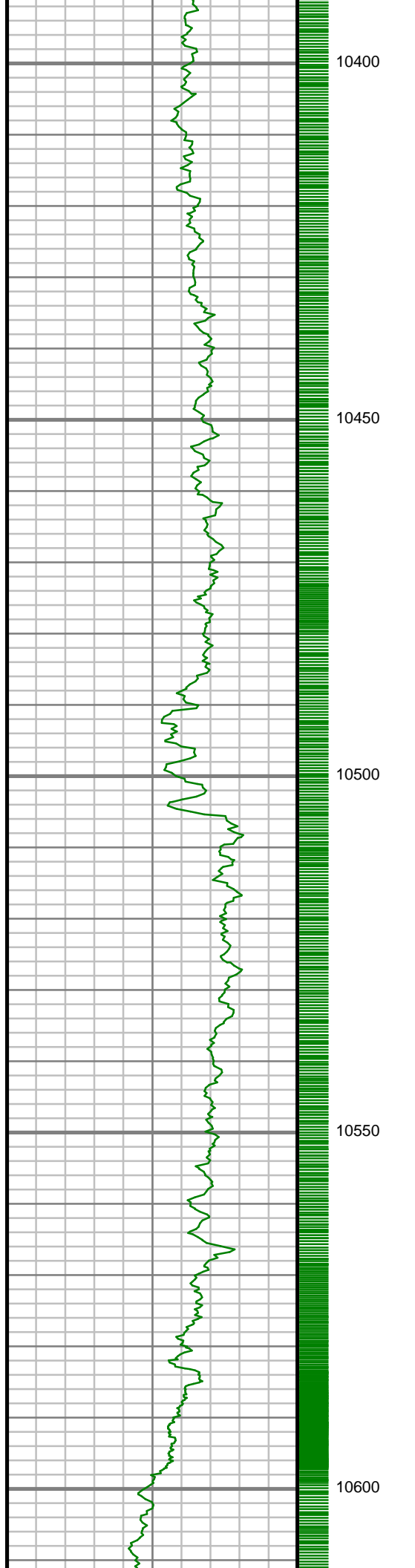
S: 105 MD: 10085.00 ft
Inc: 91.75 deg Az:
359.65 deg TVD:
7308.25 ft



S: 106 MD: 10179.00 ft
Inc: 90.60 deg Az: 1.14
deg TVD: 7306.32 ft

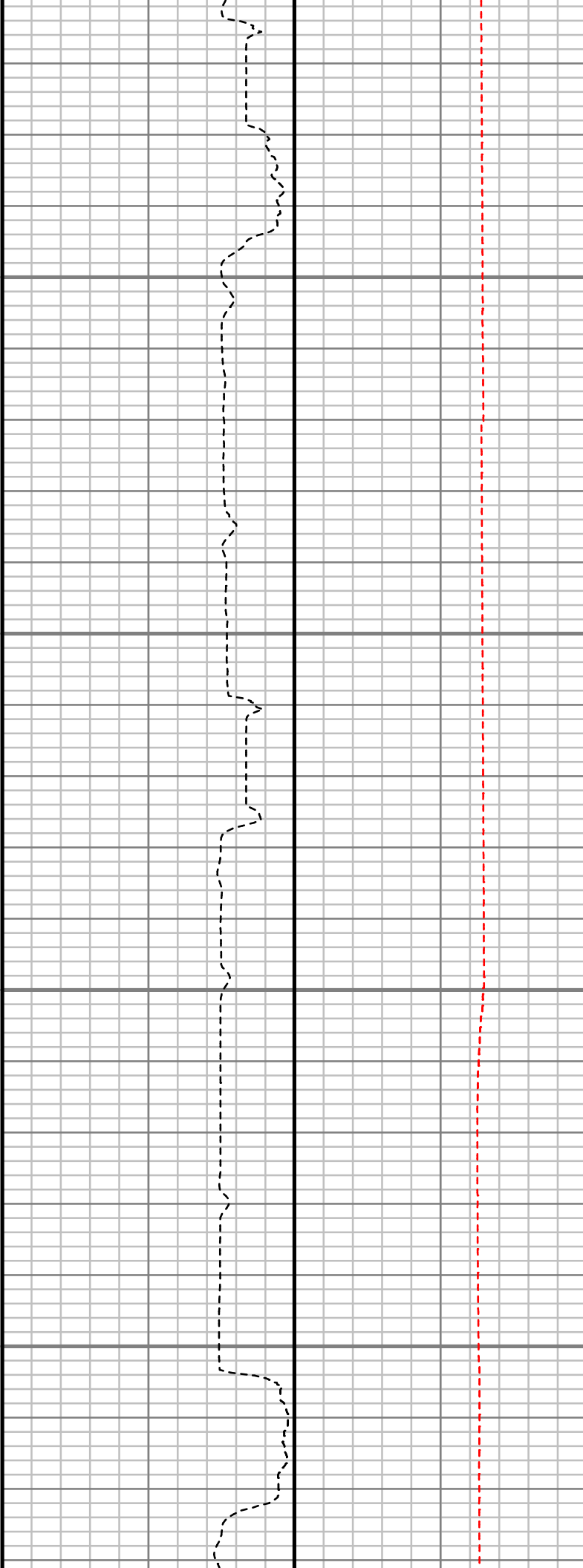
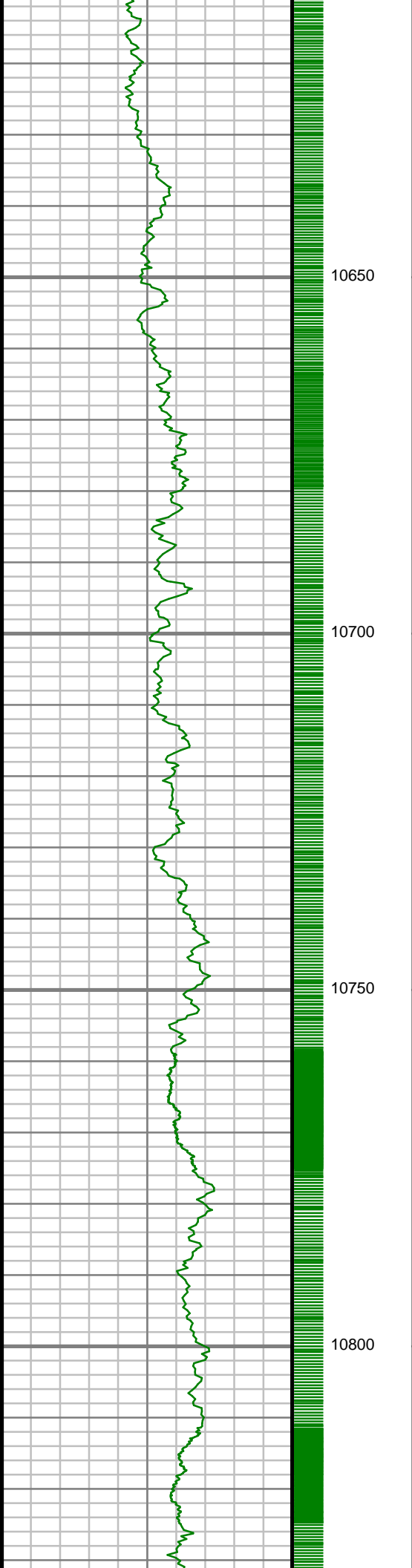
S: 107 MD: 10274.00 ft
Inc: 91.41 deg Az: 1.44
deg TVD: 7304.65 ft

S: 108 MD: 10368.00 ft
Inc: 90.37 deg Az: 1.18
deg TVD: 7303.19 ft



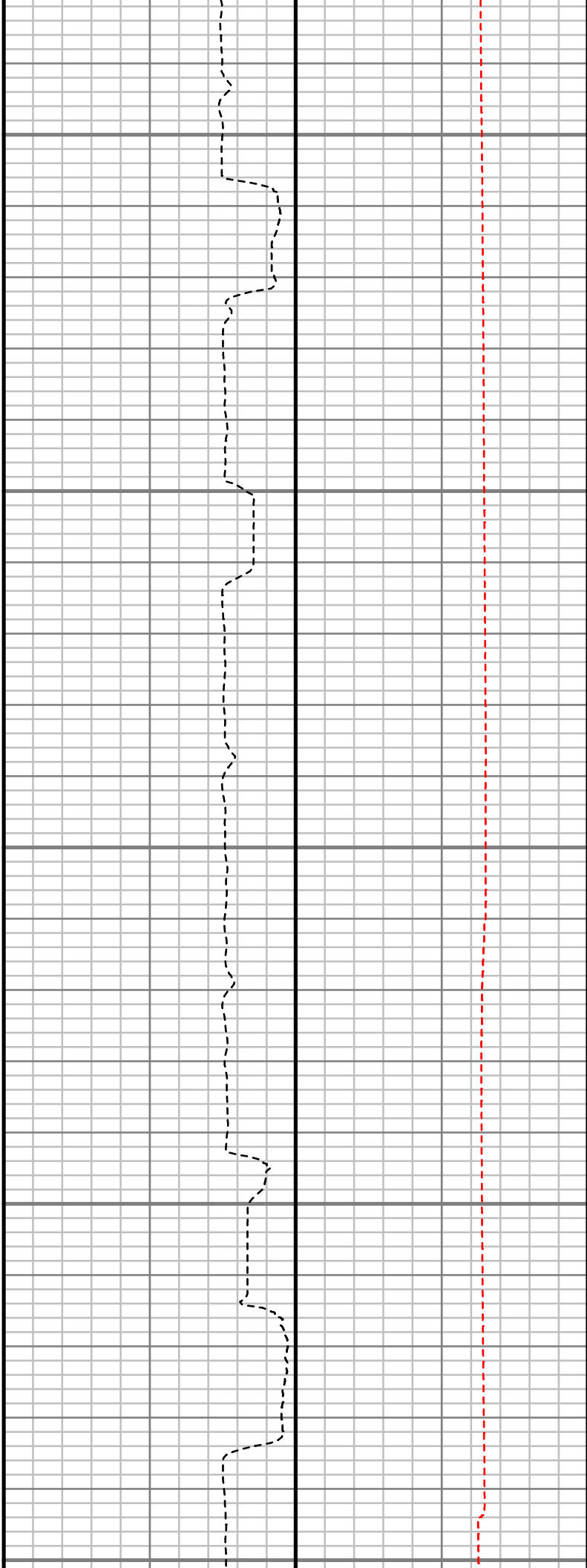
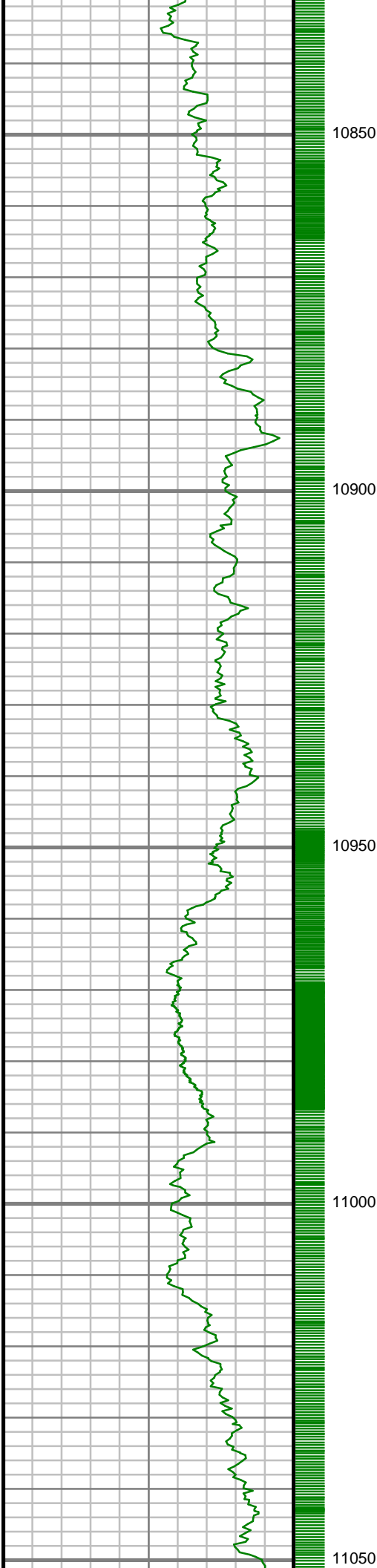
S: 109 MD: 10463.00 ft
Inc: 90.54 deg Az: 1.21
deg TVD: 7302.43 ft

S: 110 MD: 10557.00 ft
Inc: 90.67 deg Az: 0.93
deg TVD: 7301.44 ft



S: 111 MD: 10652.00 ft
Inc: 91.34 deg Az:
359.27 deg TVD:
7299.77 ft

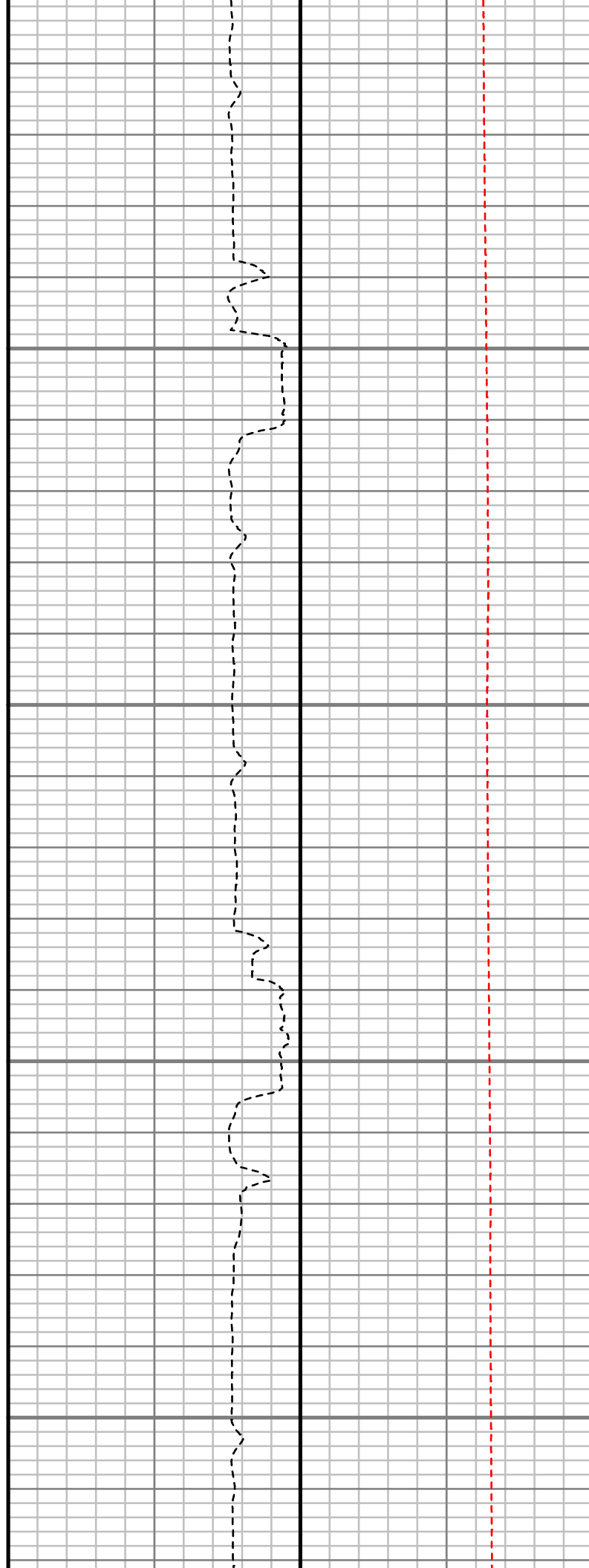
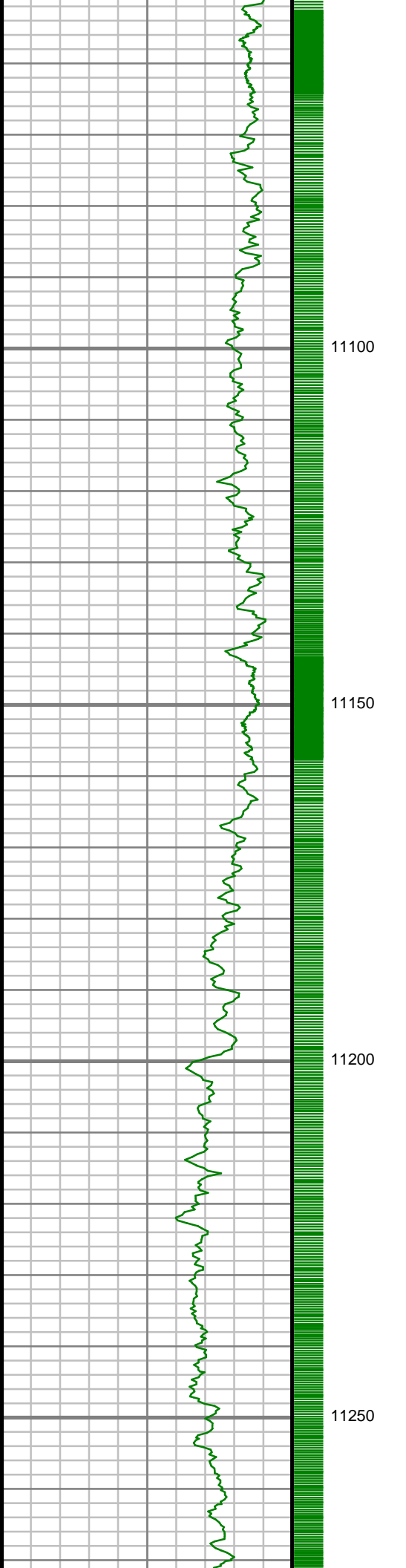
S: 112 MD: 10746.00 ft
Inc: 92.05 deg Az:
359.37 deg TVD:
7296.99 ft



S: 113 MD: 10841.00 ft
Inc: 91.64 deg Az:
359.37 deg TVD:
7293.93 ft

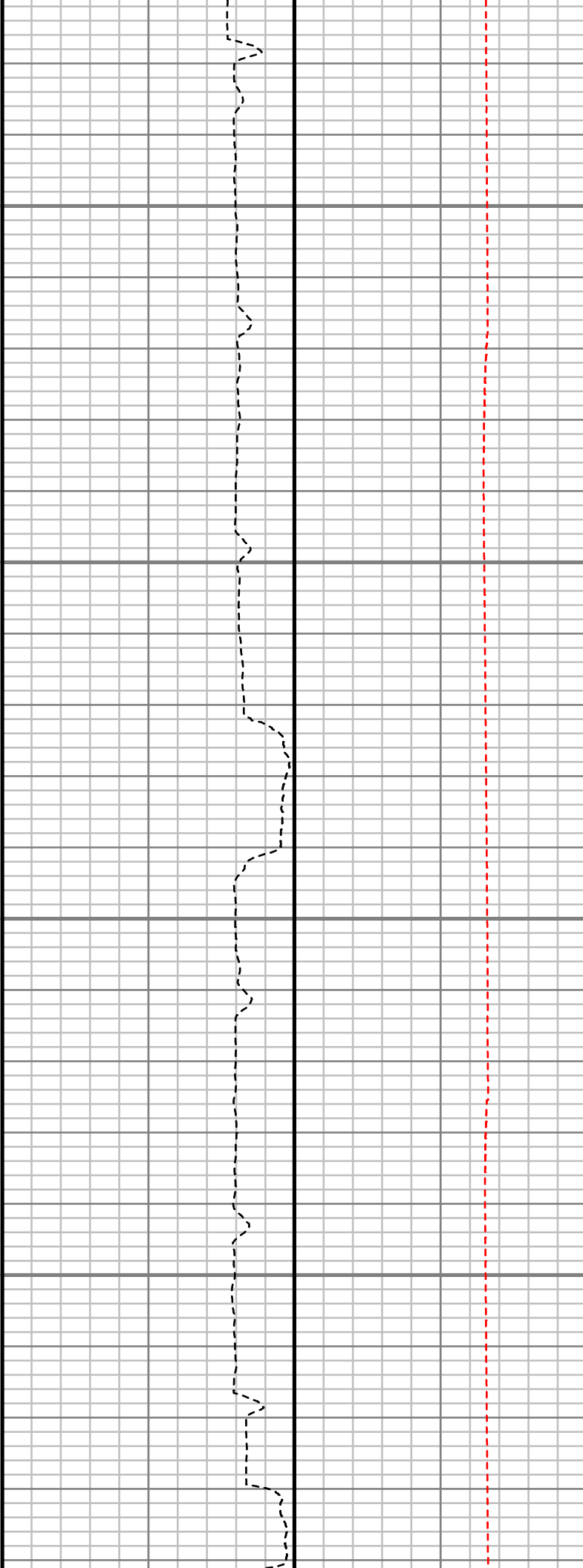
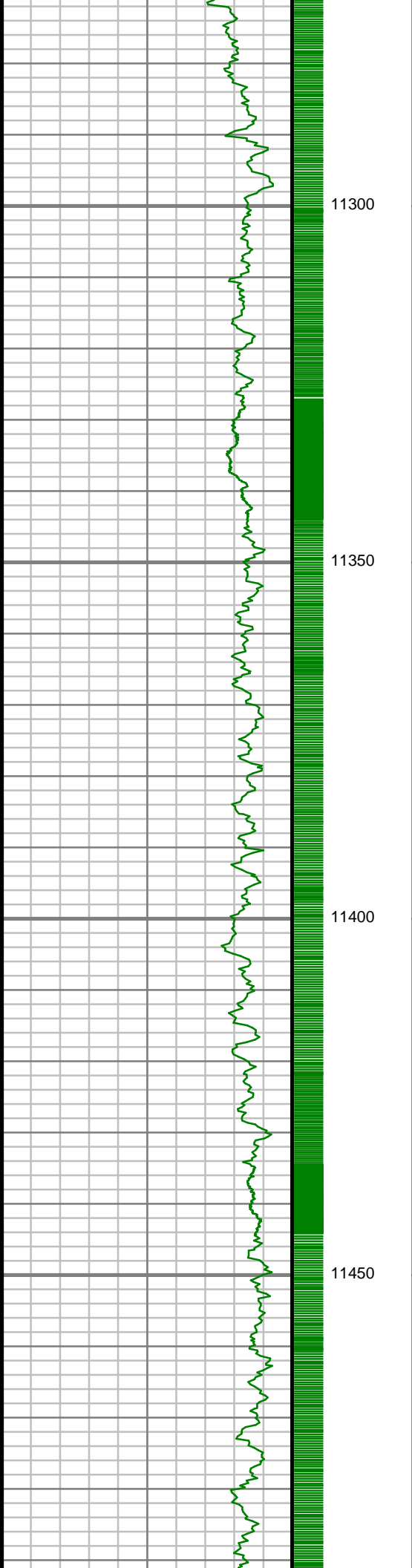
S: 114 MD: 10936.00 ft
Inc: 92.72 deg Az:
356.86 deg TVD:
7290.31 ft

S: 115 MD: 11030.00 ft
Inc: 91.31 deg Az:
356.38 deg TVD:
7287.01 ft



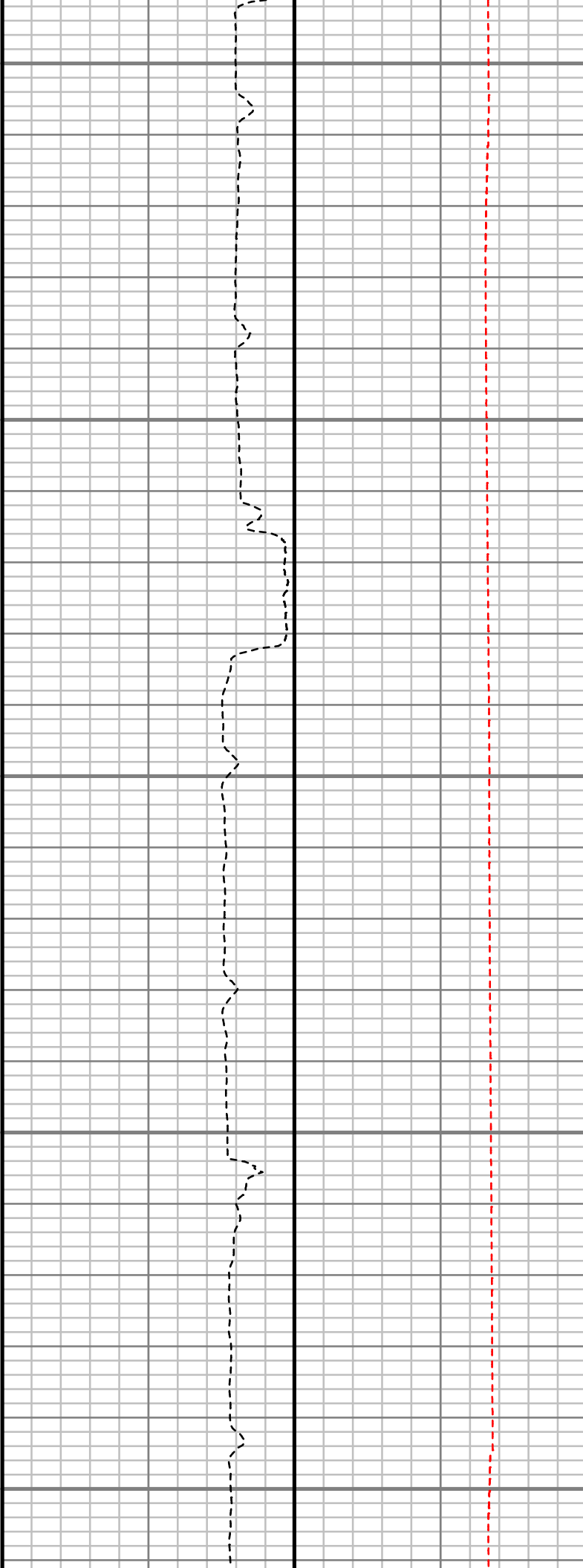
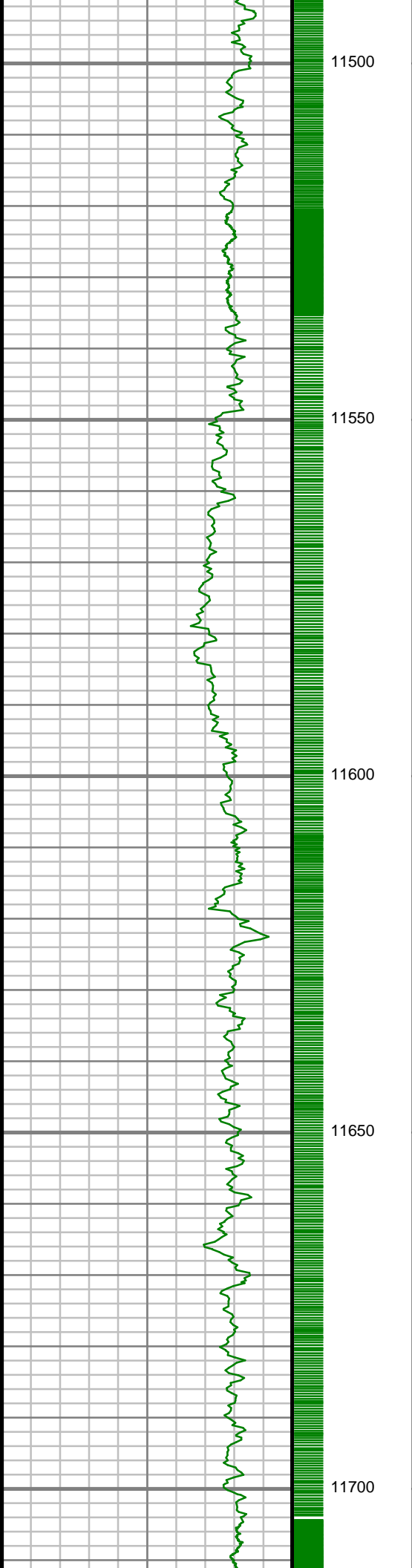
S: 116 MD: 11125.00 ft
Inc: 89.30 deg Az:
355.38 deg TVD:
7286.51 ft

S: 117 MD: 11219.00 ft
Inc: 90.20 deg Az:
357.59 deg TVD:
7286.92 ft



S: 118 MD: 11314.00 ft
Inc: 91.54 deg Az:
356.97 deg TVD:
7285.47 ft

S: 119 MD: 11409.00 ft
Inc: 90.57 deg Az:
358.66 deg TVD:
7283.72 ft



S: 120 MD: 11503.00 ft
Inc: 91.24 deg Az:
359.01 deg TVD:
7282.23 ft

S: 121 MD: 11598.00 ft
Inc: 89.67 deg Az:
359.69 deg TVD:
7281.48 ft

S: 122 MD: 11692.00 ft
Inc: 90.67 deg Az: 0.09
deg TVD: 7281.20 ft

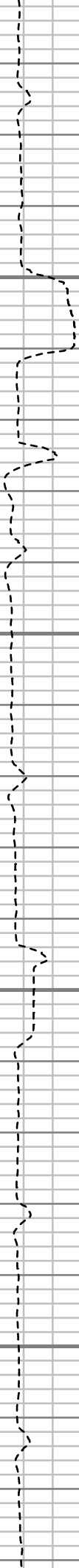


11750

11800

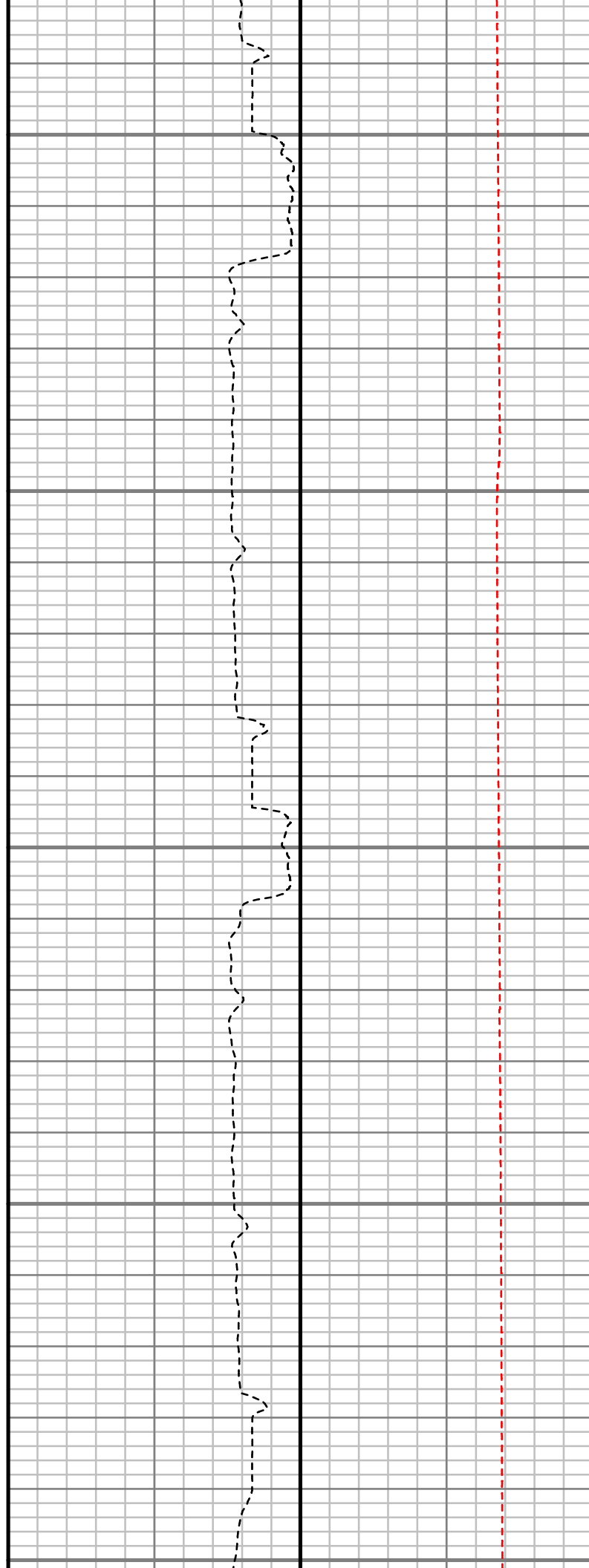
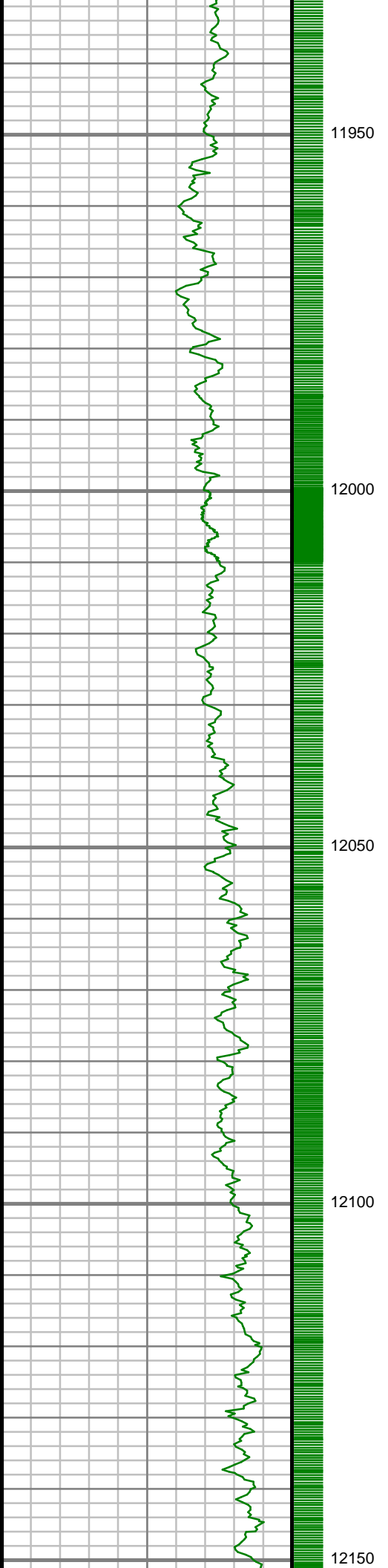
11850

11900



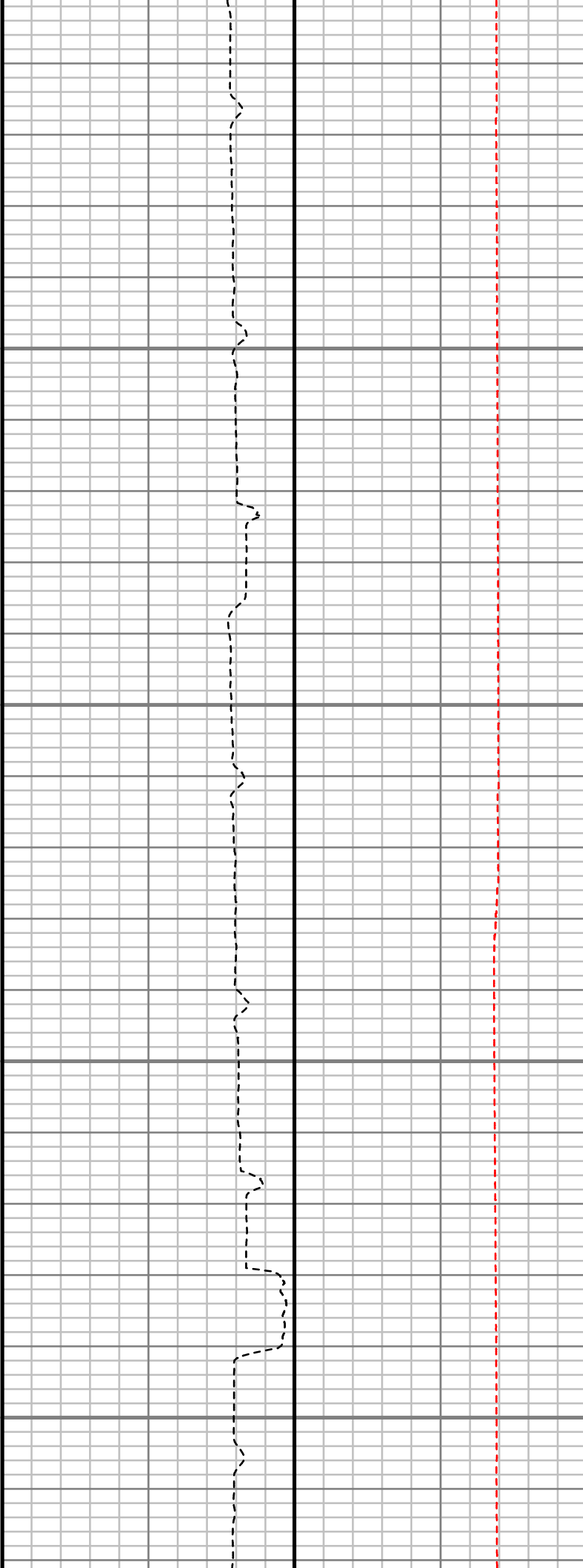
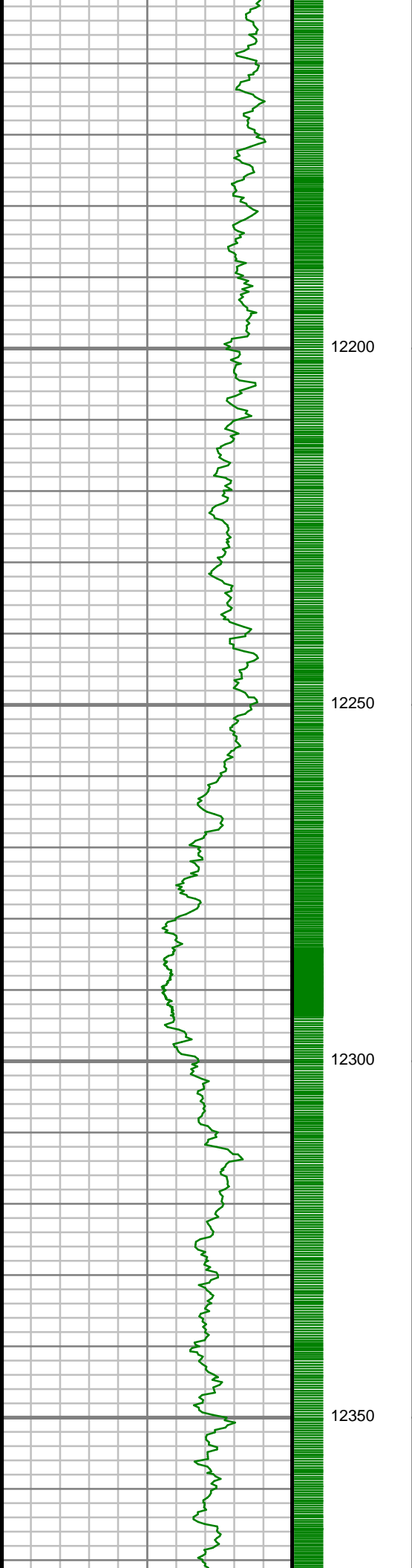
S: 123 MD: 11787.00 ft
Inc: 89.83 deg Az:
357.80 deg TVD:
7280.78 ft

S: 124 MD: 11882.00 ft
Inc: 91.44 deg Az:
358.03 deg TVD:
7279.73 ft



S: 125 MD: 11976.00 ft
Inc: 90.70 deg Az:
358.49 deg TVD:
7277.97 ft

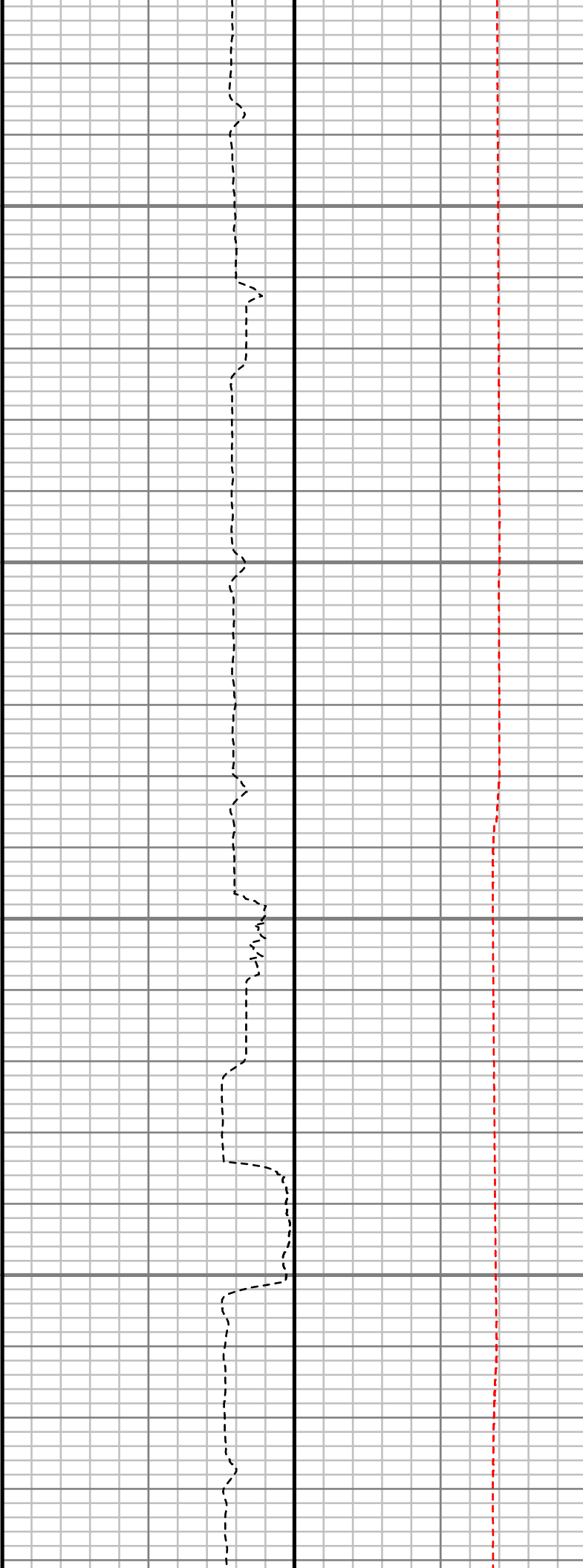
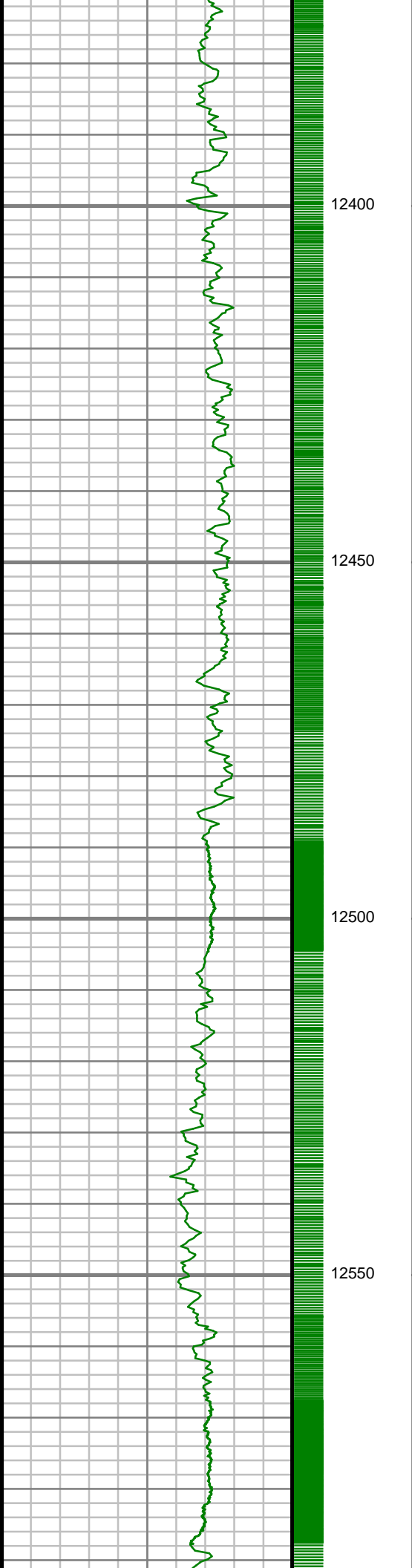
S: 126 MD: 12071.00 ft
Inc: 89.46 deg Az:
358.55 deg TVD:
7277.83 ft



S: 127 MD: 12165.00 ft
Inc: 90.40 deg Az:
358.65 deg TVD:
7277.94 ft

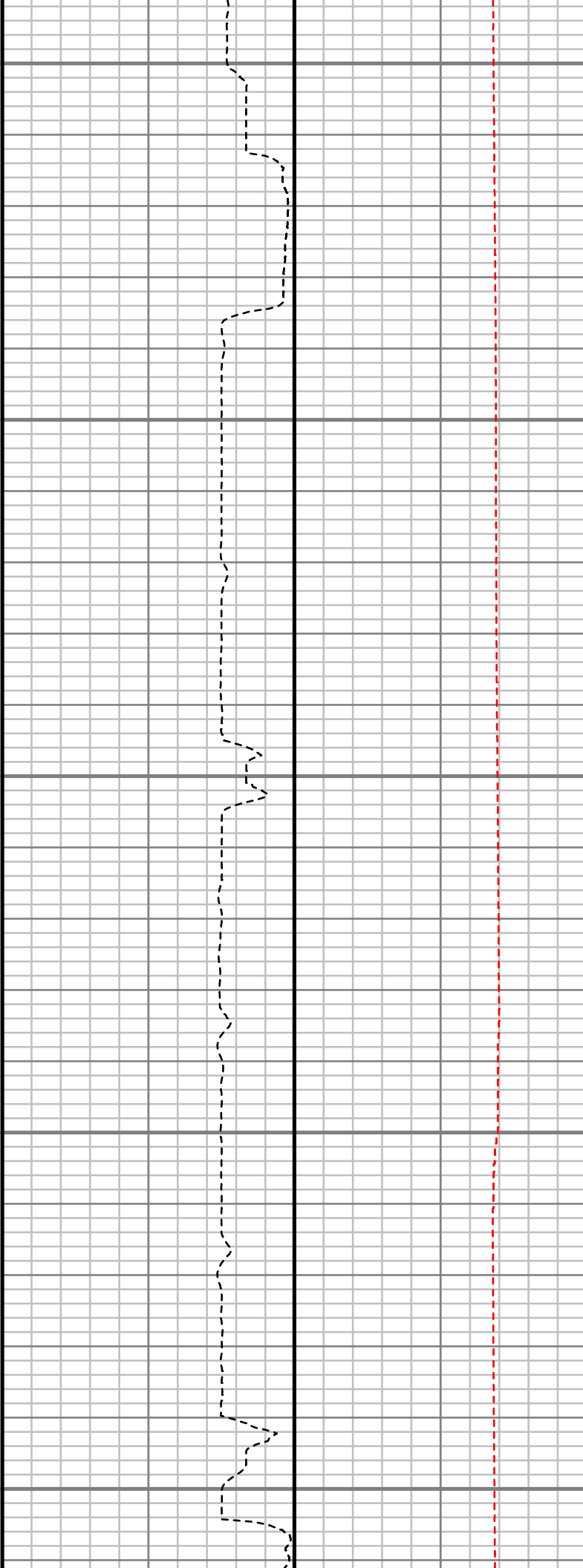
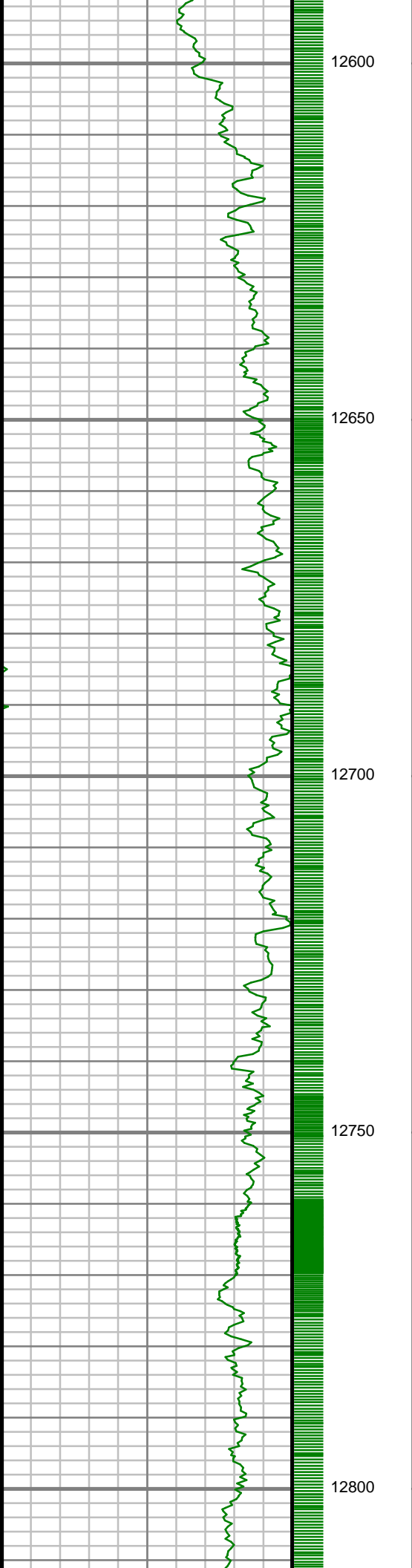
S: 128 MD: 12260.00 ft
Inc: 91.21 deg Az:
357.90 deg TVD:
7276.61 ft

S: 129 MD: 12354.00 ft
Inc: 90.17 deg Az:
358.66 deg TVD:
7275.48 ft



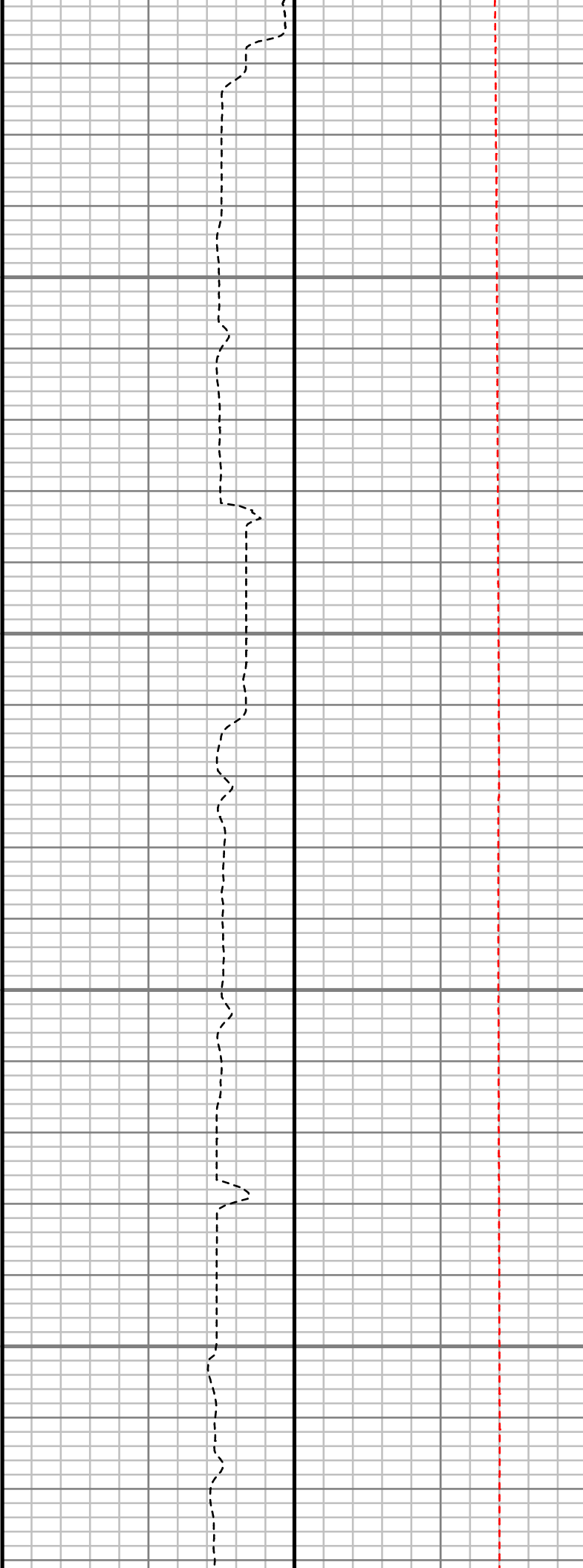
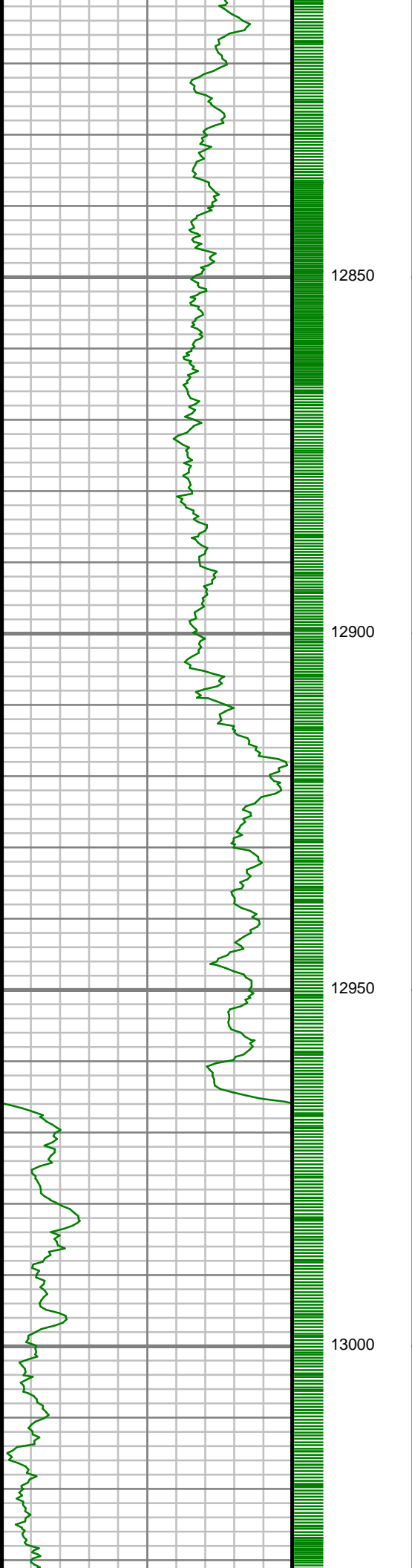
S: 130 MD: 12449.00 ft
Inc: 91.07 deg Az:
357.97 deg TVD:
7274.45 ft

S: 131 MD: 12543.00 ft
Inc: 91.54 deg Az:
357.98 deg TVD:
7272.30 ft

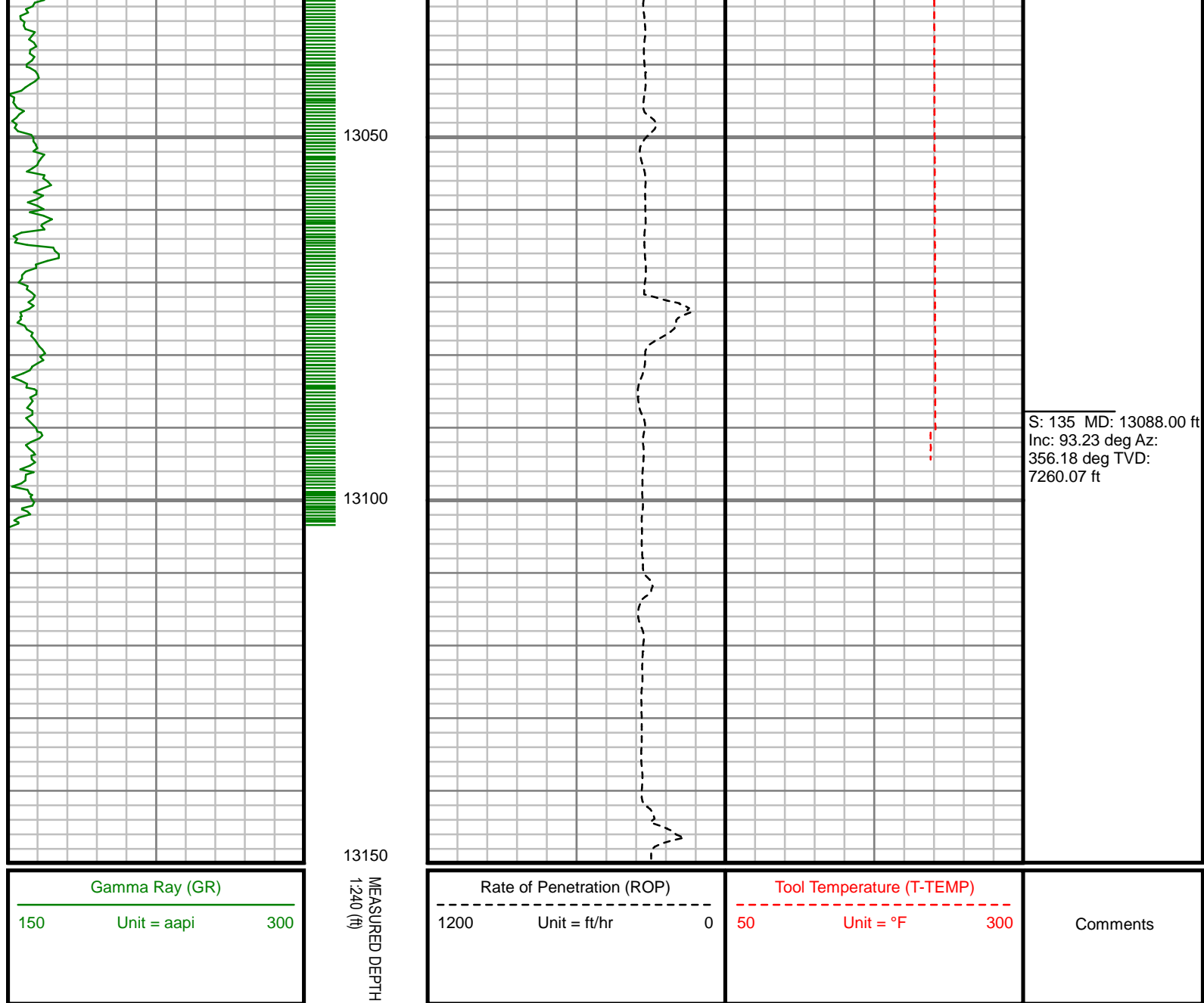


S: 132 MD: 12638.00 ft
Inc: 90.37 deg Az:
359.12 deg TVD:
7270.71 ft

S: 133 MD: 12732.00 ft
Inc: 91.11 deg Az:
358.18 deg TVD:
7269.51 ft



S: 134 MD: 12921.00 ft
Inc: 90.94 deg Az:
358.30 deg TVD:
7266.13 ft



GAMMA RAY

5" = 100' FEET MD