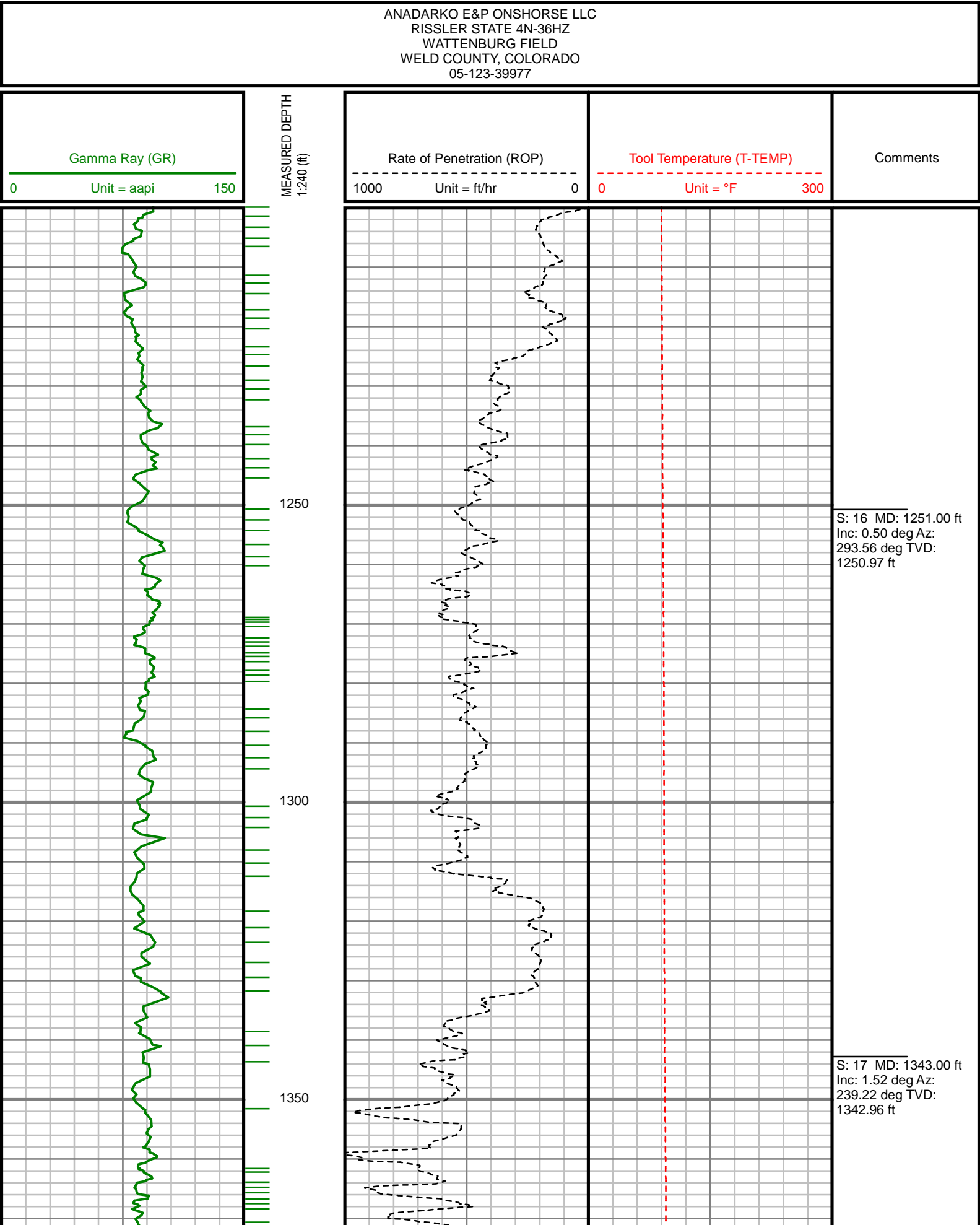
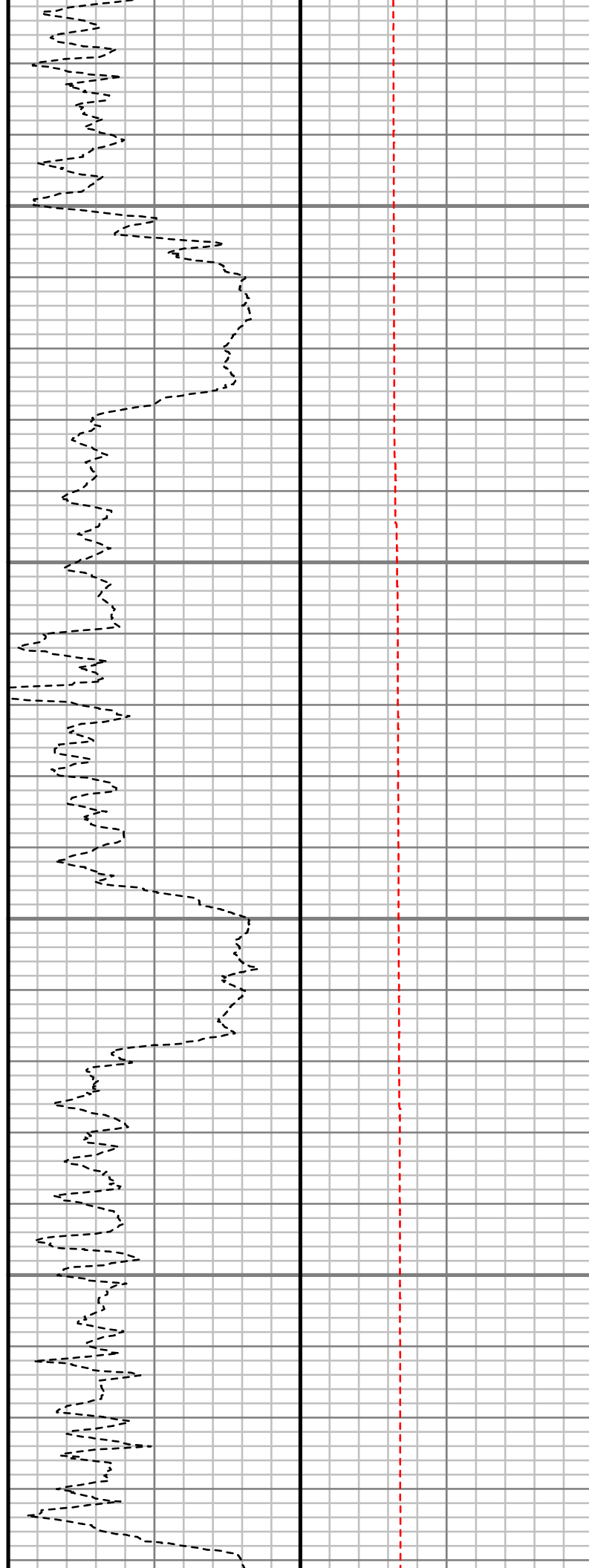
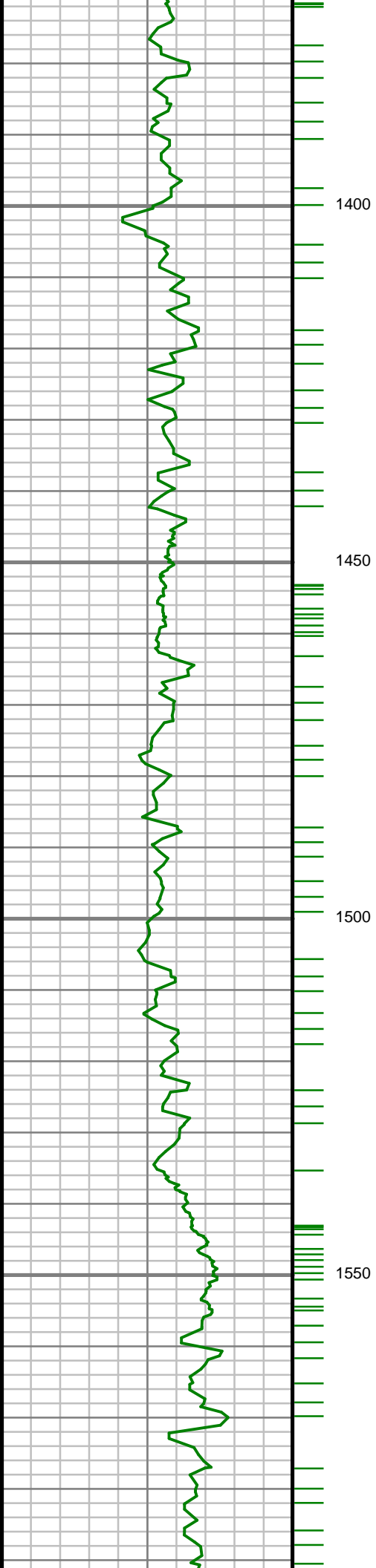


Remarks
ANADARKO PRODUCTION AFE# 2095840
SCIENTIFIC DRILLING INTERNATIONAL JOB# ,
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN # 1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER= 128-157 / CONT= 381 / MWD EYE=162 / GAMMA RAY= 1200
BIT TO SENSOR OFFSETS: SURVEY= 61.26 FT. / GAMMA RAY= 52.02 FT.
RUN # 2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER= 078/237 / CONT= 458 / MWD EYE=129 / GAMMA RAY= 1083
BIT TO SENSOR OFFSETS: SURVEY= 59.53 FT. / GAMMA RAY= 51.03 FT.
RUN # 3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER= 078/237 / CONT= 458 / MWD EYE=129 / GAMMA RAY= 1083
BIT TO SENSOR OFFSETS: SURVEY= 59.53 FT. / GAMMA RAY= 51.03 FT.
ROP FROM 4310 FT. - 4327 FT. NO DATA COLLECTED
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION

[illegible]

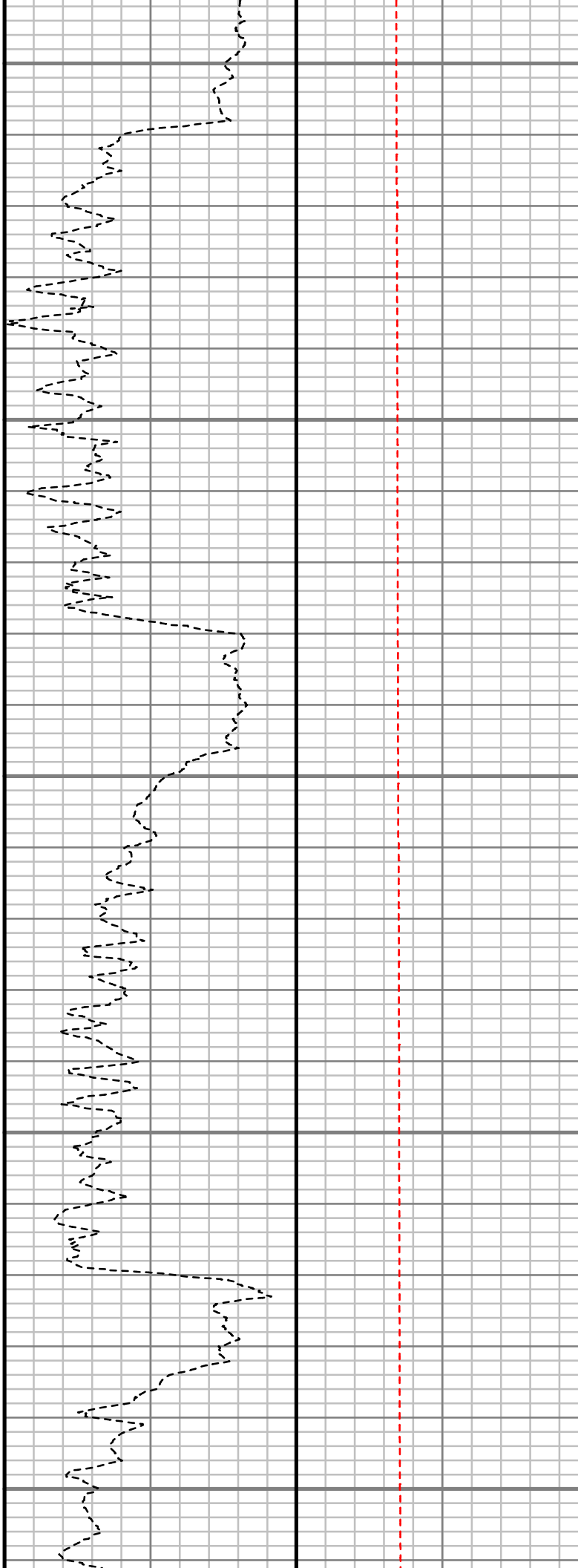
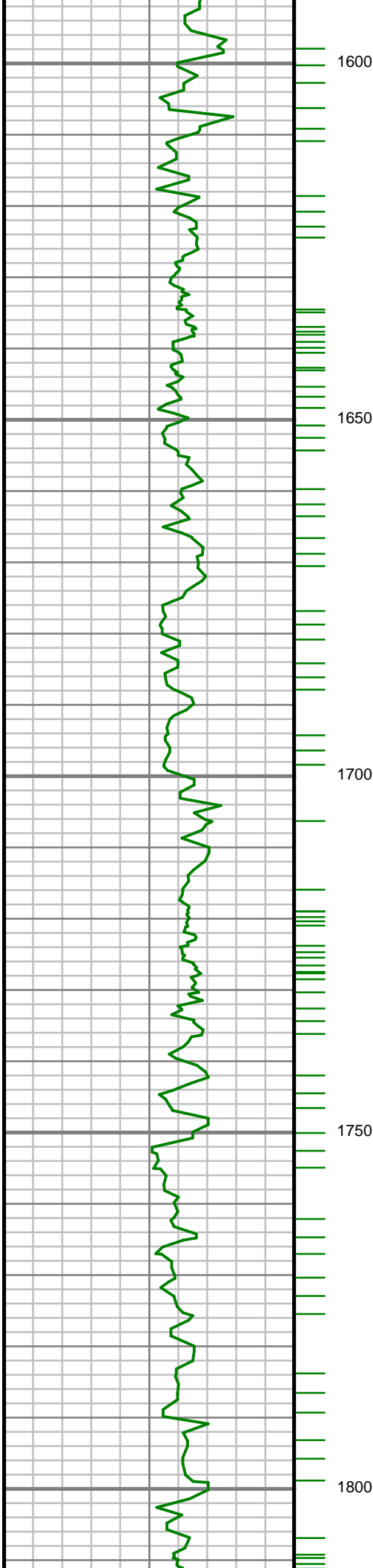
All interpretations are opinions based on electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or 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: 18 MD: 1435.00 ft
Inc: 3.93 deg Az:
238.39 deg TVD:
1434.85 ft

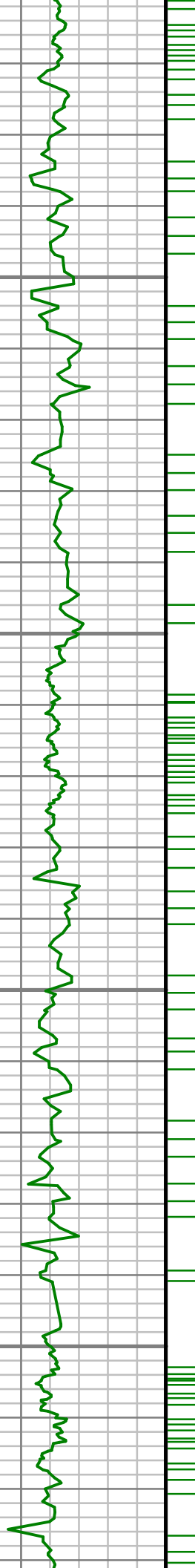
S: 19 MD: 1527.00 ft
Inc: 5.84 deg Az:
231.98 deg TVD:
1526.51 ft



S: 20 MD: 1618.00 ft
Inc: 7.86 deg Az:
219.25 deg TVD:
1616.86 ft

S: 21 MD: 1710.00 ft
Inc: 9.24 deg Az:
216.65 deg TVD:
1707.84 ft

S: 22 MD: 1802.00 ft
Inc: 11.29 deg Az:
218.91 deg TVD:
1798.36 ft

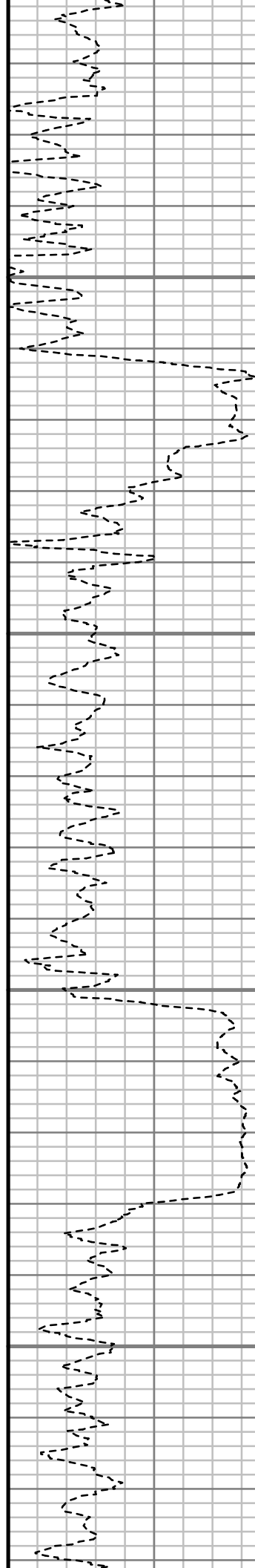


1850

1900

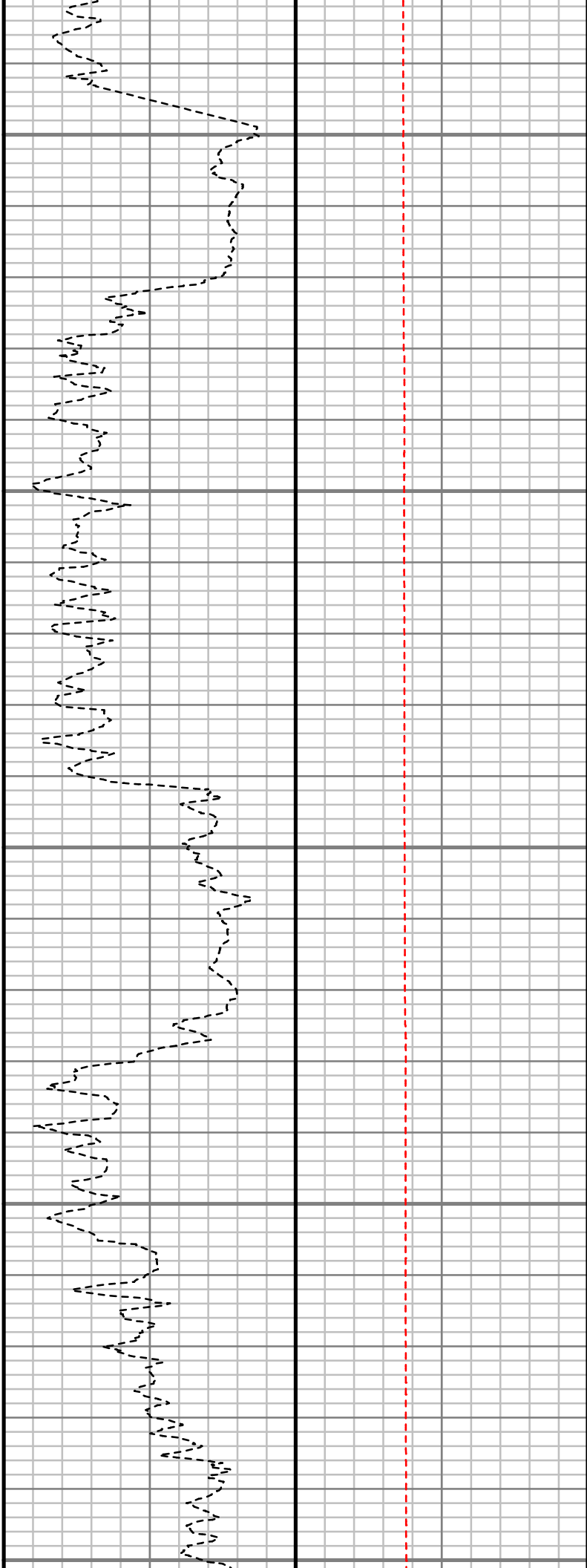
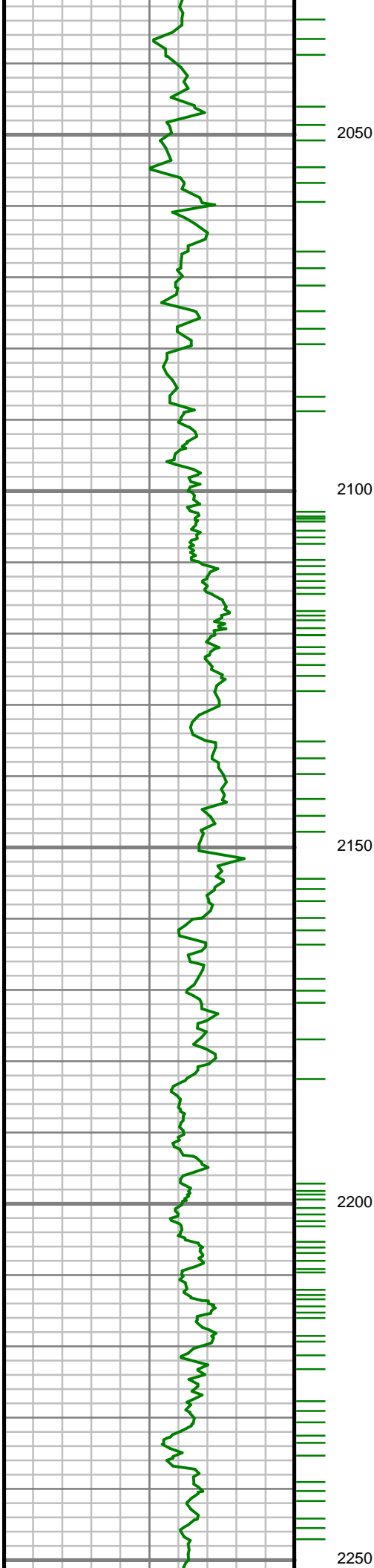
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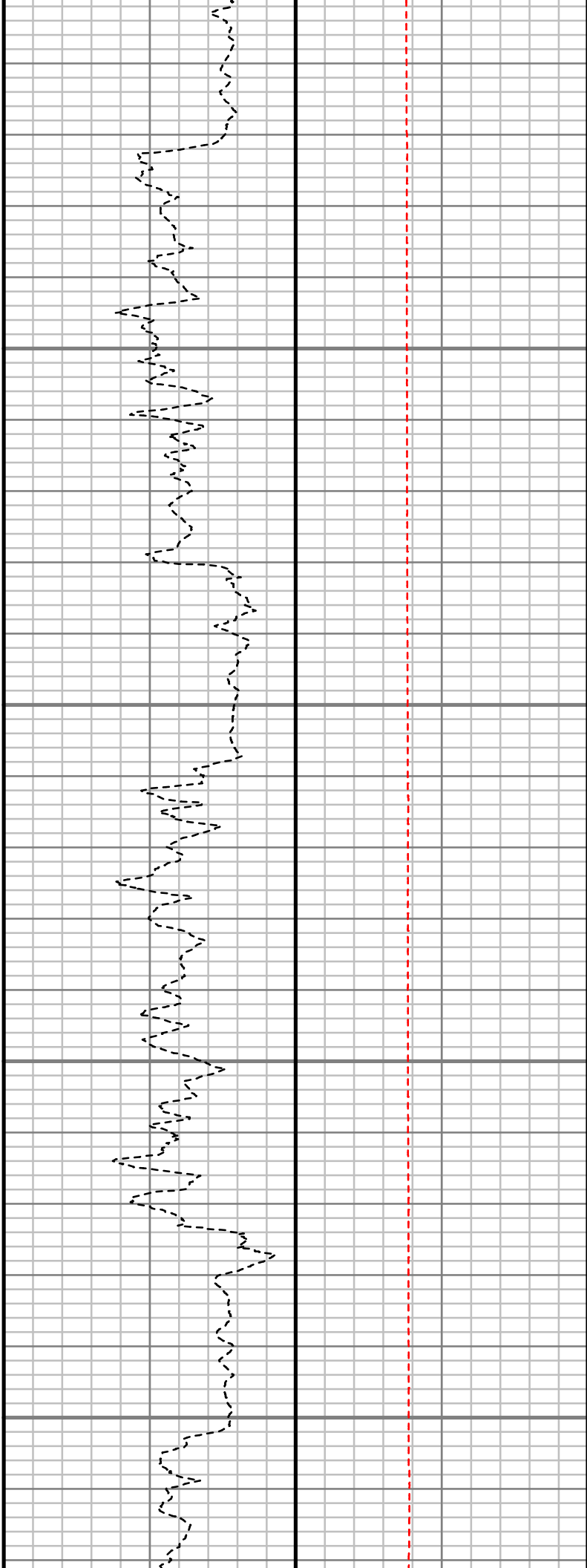
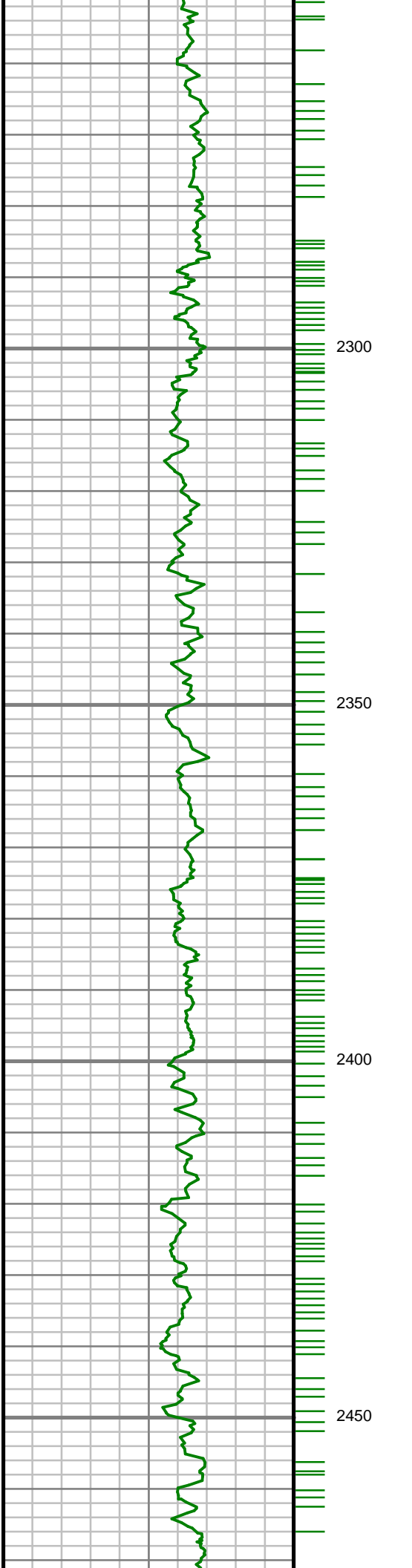
S: 23 MD: 1894.00 ft
Inc: 12.68 deg Az:
218.28 deg TVD:
1888.35 ft

S: 24 MD: 1985.00 ft
Inc: 14.50 deg Az:
214.84 deg TVD:
1976.80 ft



S: 25 MD: 2079.00 ft
Inc: 15.83 deg Az:
211.24 deg TVD:
2067.53 ft

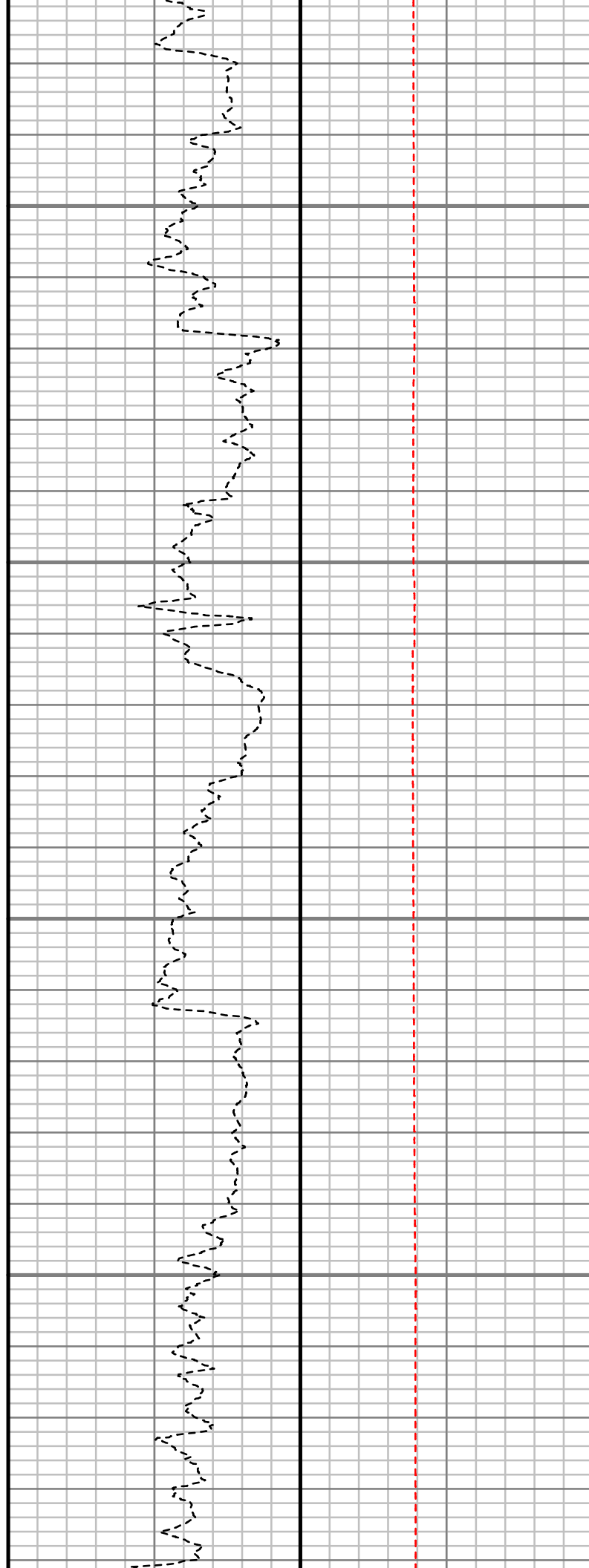
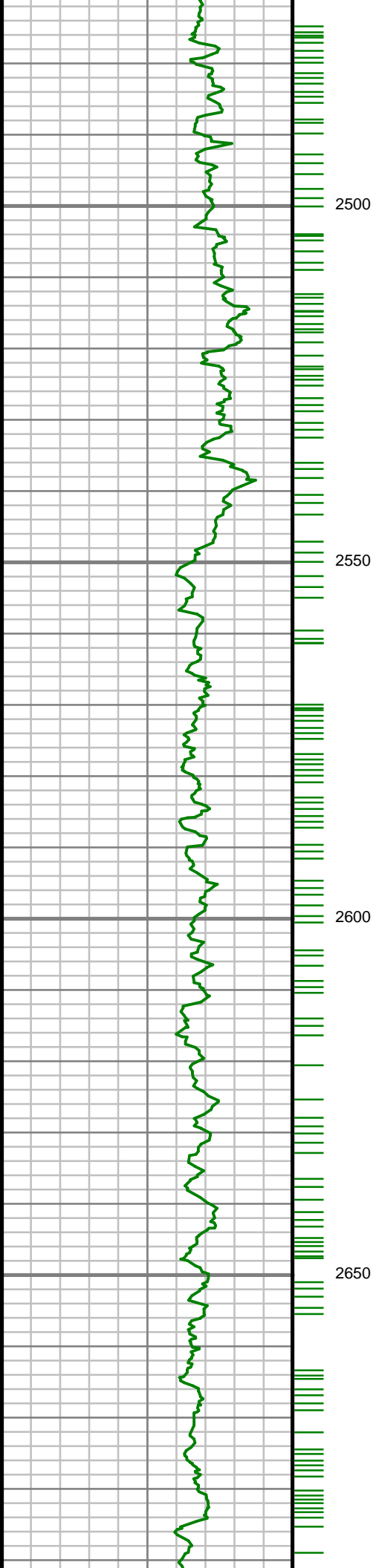
S: 26 MD: 2174.00 ft
Inc: 16.11 deg Az:
211.96 deg TVD:
2158.87 ft



S: 27 MD: 2268.00 ft
Inc: 18.22 deg Az:
214.18 deg TVD:
2248.68 ft

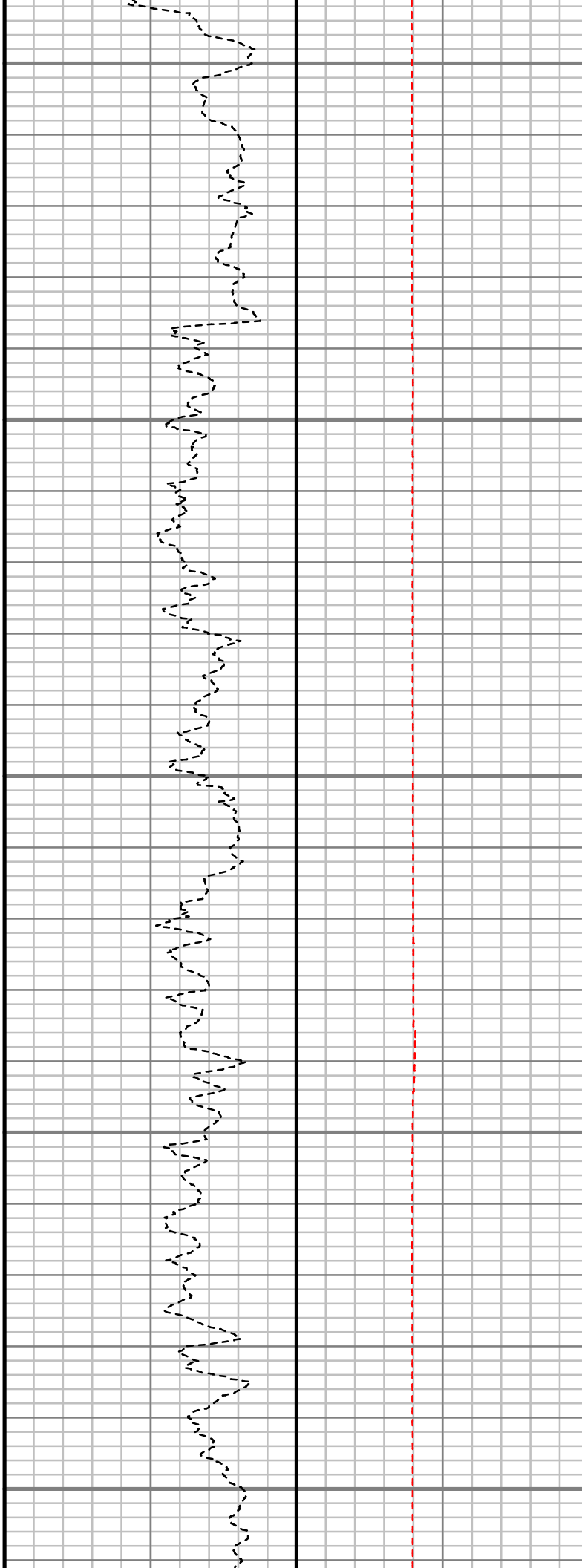
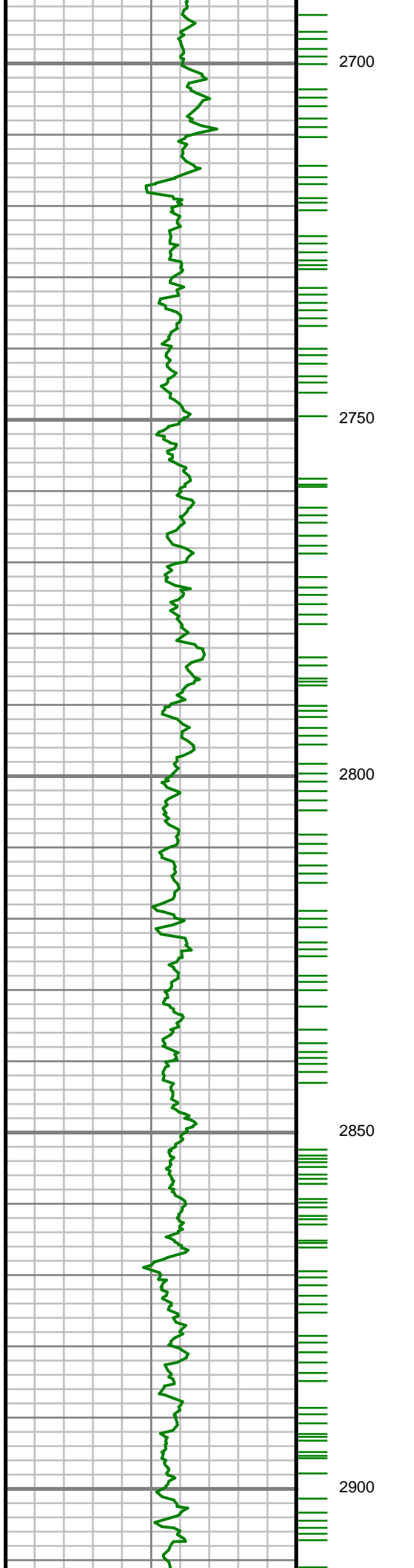
S: 28 MD: 2362.00 ft
Inc: 19.05 deg Az:
212.95 deg TVD:
2337.75 ft

S: 29 MD: 2456.00 ft
Inc: 20.66 deg Az:
214.16 deg TVD:
2426.16 ft



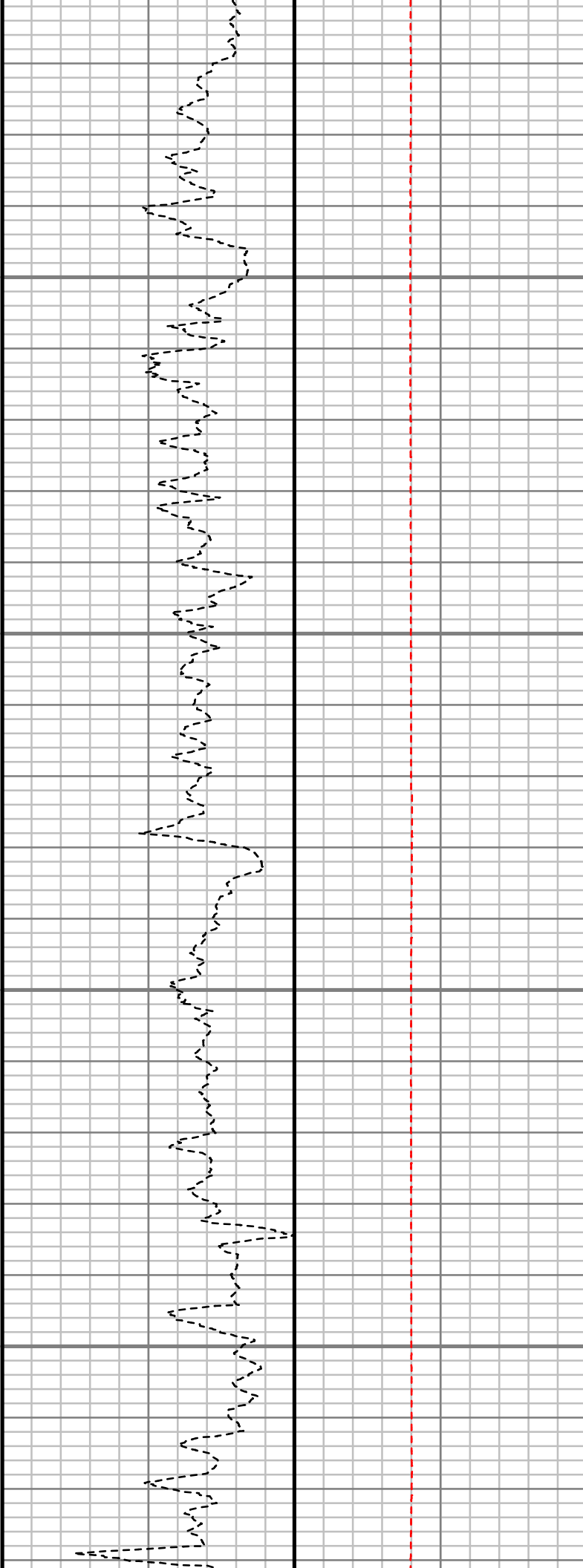
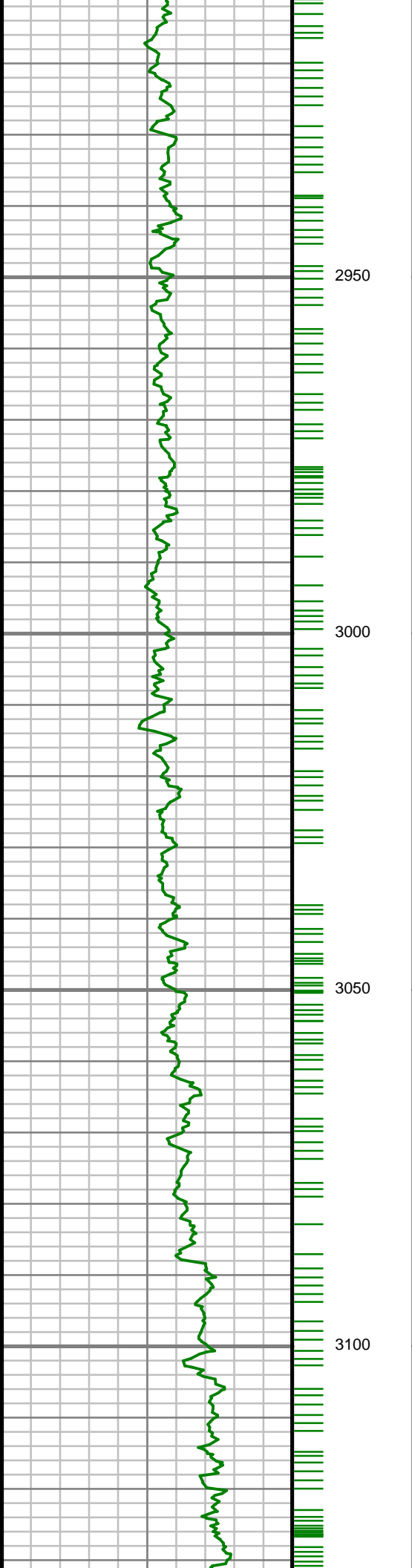
S: 30 MD: 2551.00 ft
Inc: 21.38 deg Az:
212.15 deg TVD:
2514.84 ft

S: 31 MD: 2645.00 ft
Inc: 21.74 deg Az:
211.49 deg TVD:
2602.26 ft



S: 32 MD: 2739.00 ft
Inc: 23.12 deg Az:
211.28 deg TVD:
2689.14 ft

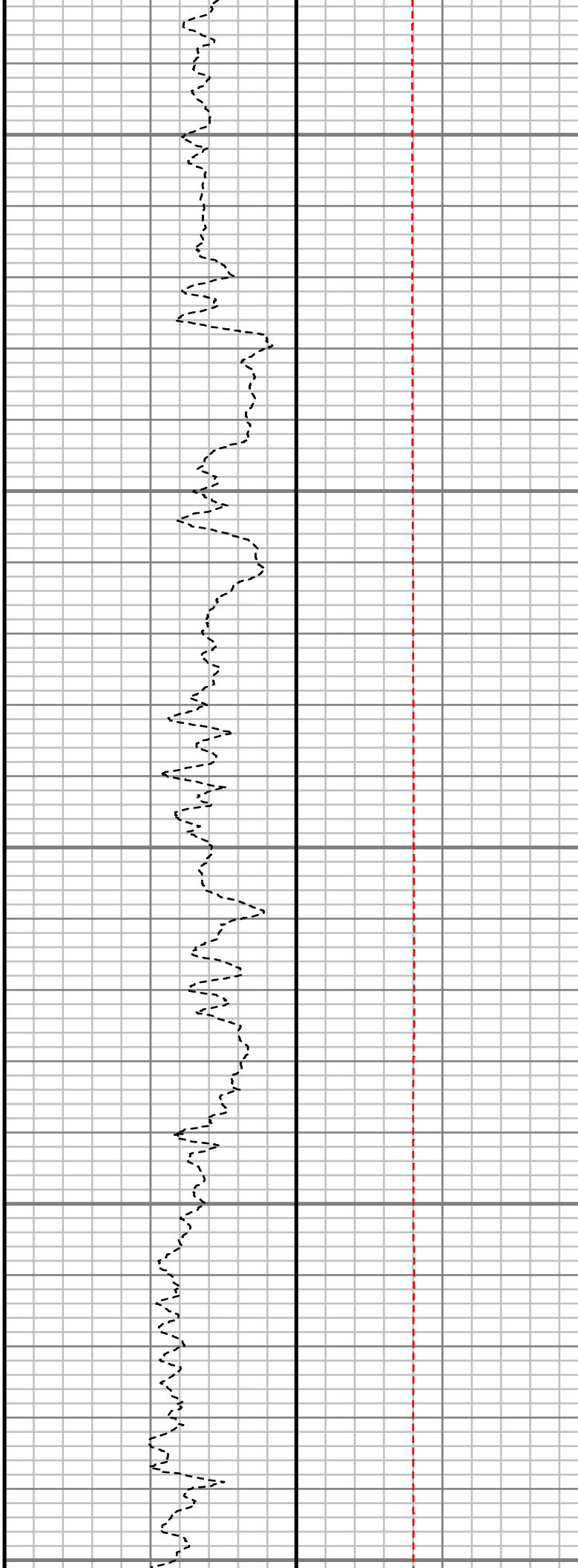
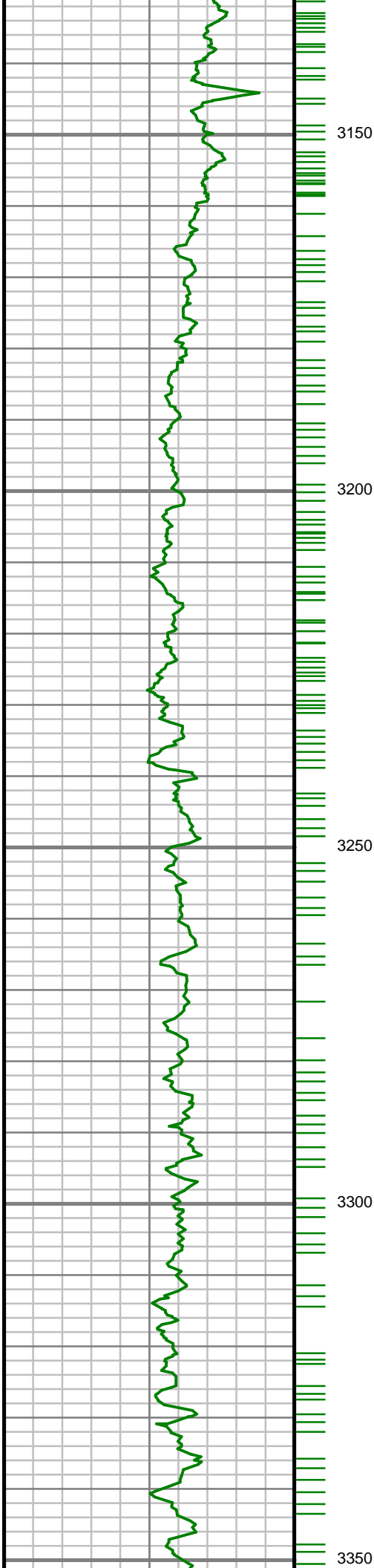
S: 33 MD: 2833.00 ft
Inc: 23.64 deg Az:
209.99 deg TVD:
2775.43 ft



S: 34 MD: 2927.00 ft
Inc: 23.78 deg Az:
214.56 deg TVD:
2861.50 ft

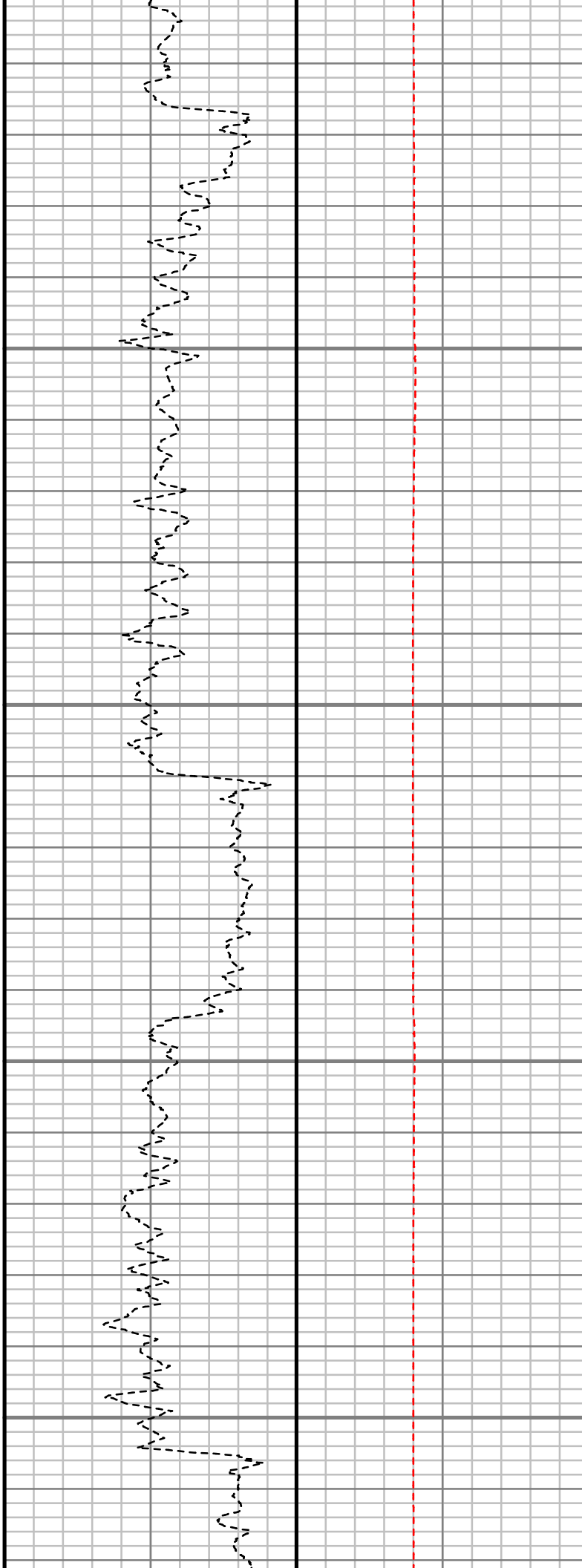
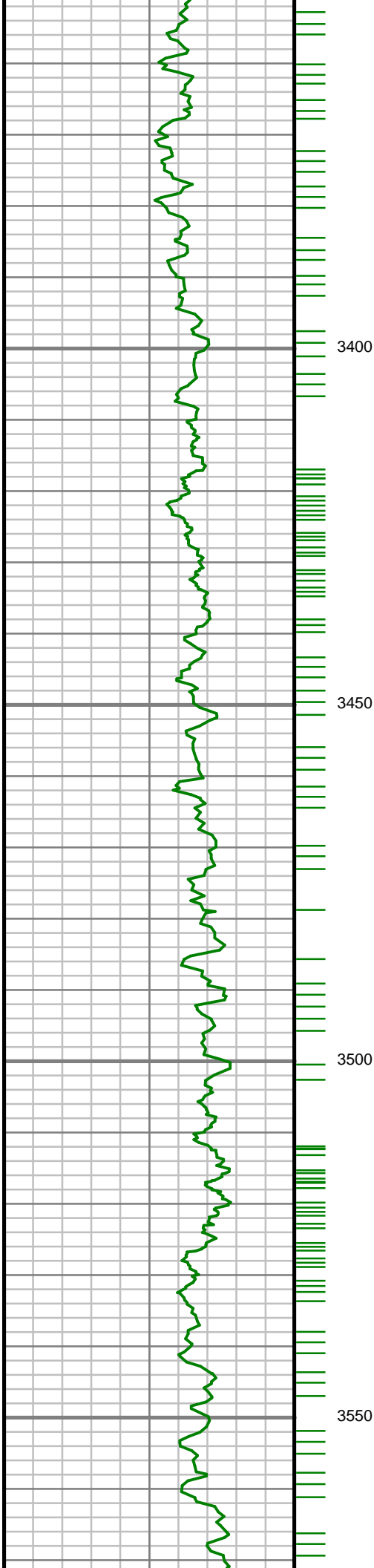
S: 35 MD: 3022.00 ft
Inc: 24.27 deg Az:
213.22 deg TVD:
2948.27 ft

S: 36 MD: 3116.00 ft
Inc: 22.53 deg Az:
214.49 deg TVD:
3034.54 ft



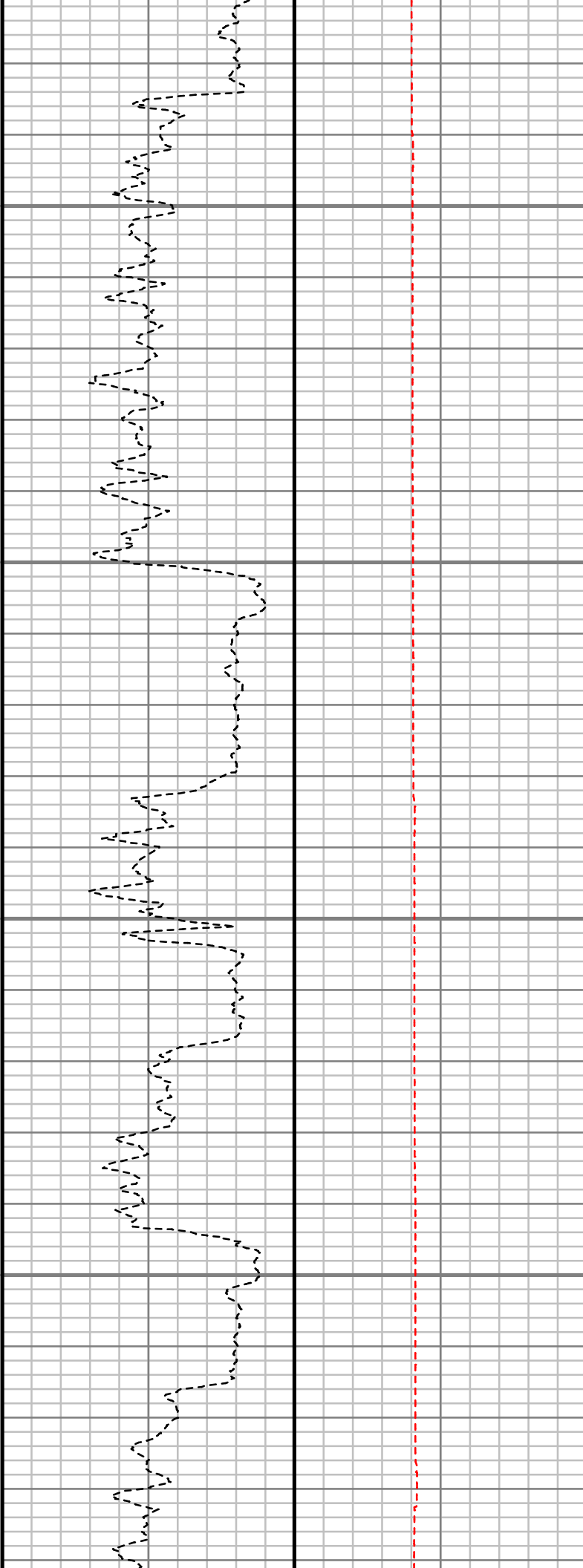
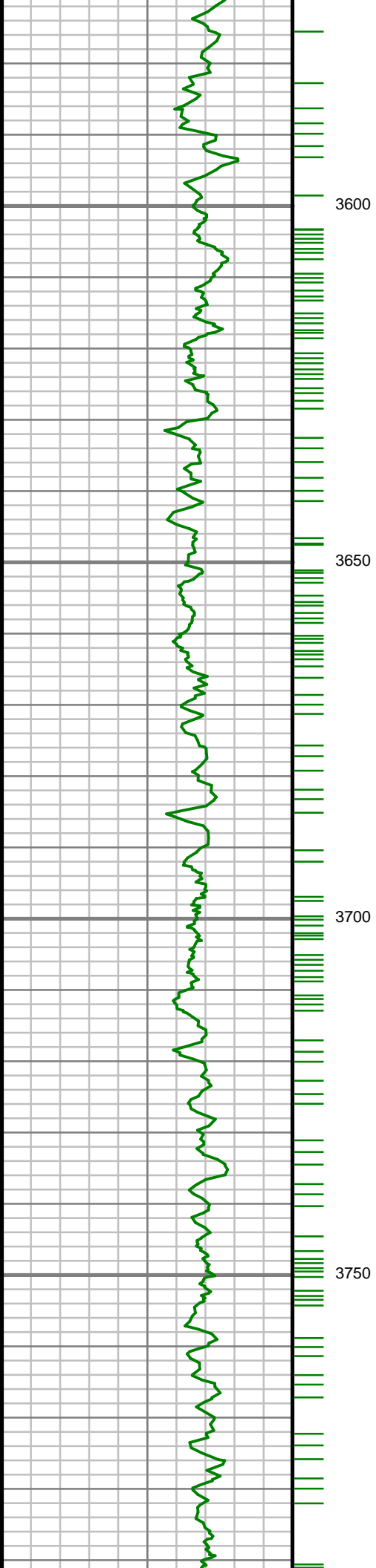
S: 37 MD: 3211.00 ft
Inc: 21.44 deg Az:
217.96 deg TVD:
3122.64 ft

S: 38 MD: 3305.00 ft
Inc: 22.48 deg Az:
219.14 deg TVD:
3209.82 ft



S: 39 MD: 3399.00 ft
Inc: 19.87 deg Az:
218.11 deg TVD:
3297.46 ft

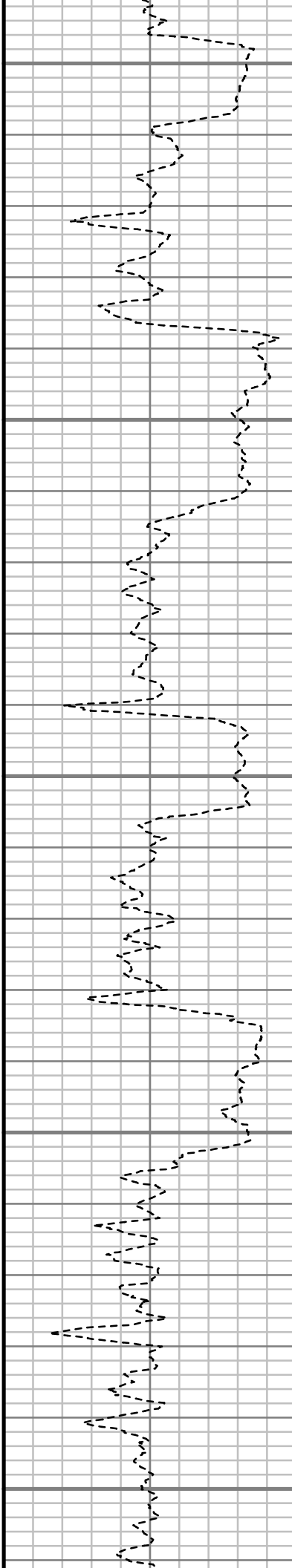
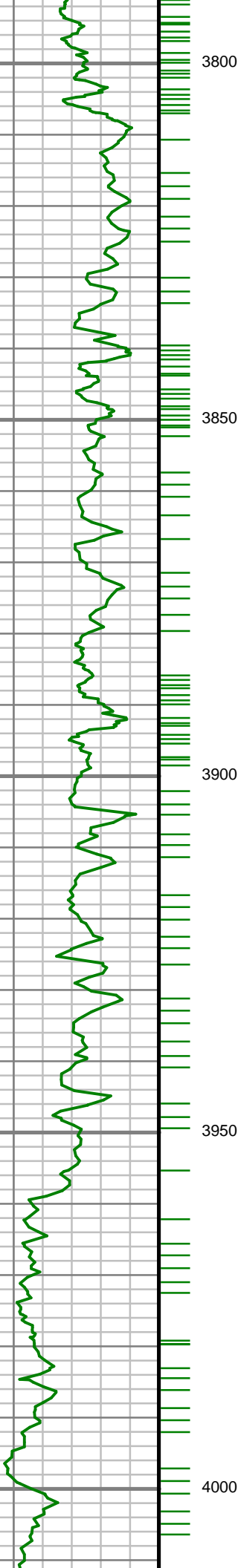
S: 40 MD: 3493.00 ft
Inc: 19.00 deg Az:
214.66 deg TVD:
3386.11 ft



S: 41 MD: 3587.00 ft
Inc: 19.21 deg Az:
216.88 deg TVD:
3474.93 ft

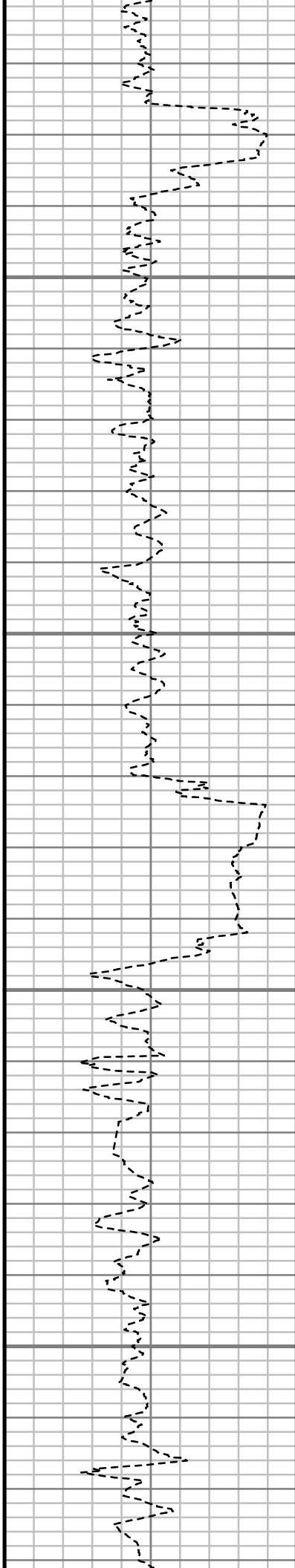
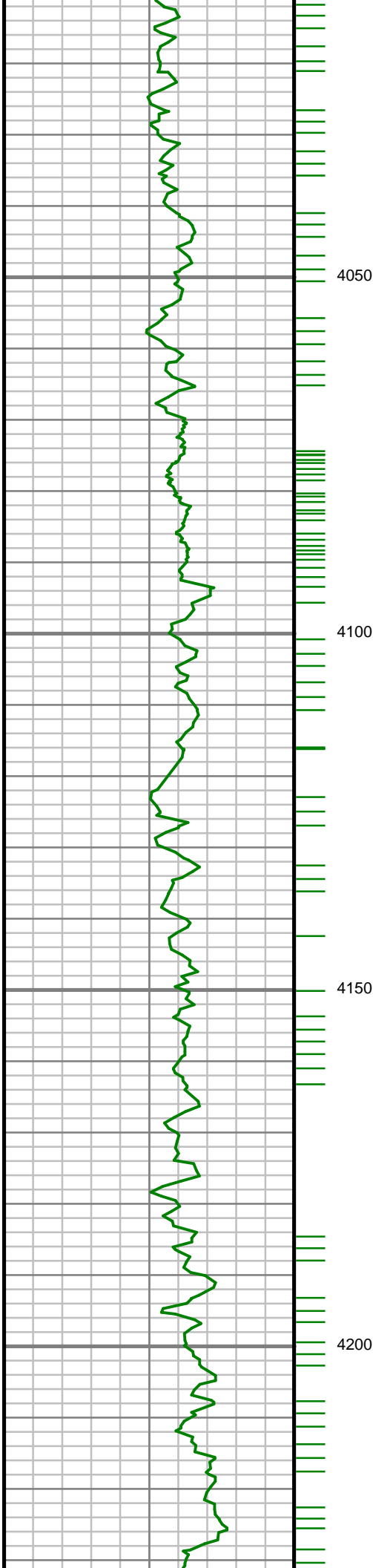
S: 42 MD: 3681.00 ft
Inc: 18.80 deg Az:
217.53 deg TVD:
3563.81 ft

S: 43 MD: 3775.00 ft
Inc: 19.45 deg Az:
214.61 deg TVD:
3652.62 ft



S: 44 MD: 3870.00 ft
Inc: 20.67 deg Az:
215.59 deg TVD:
3741.86 ft

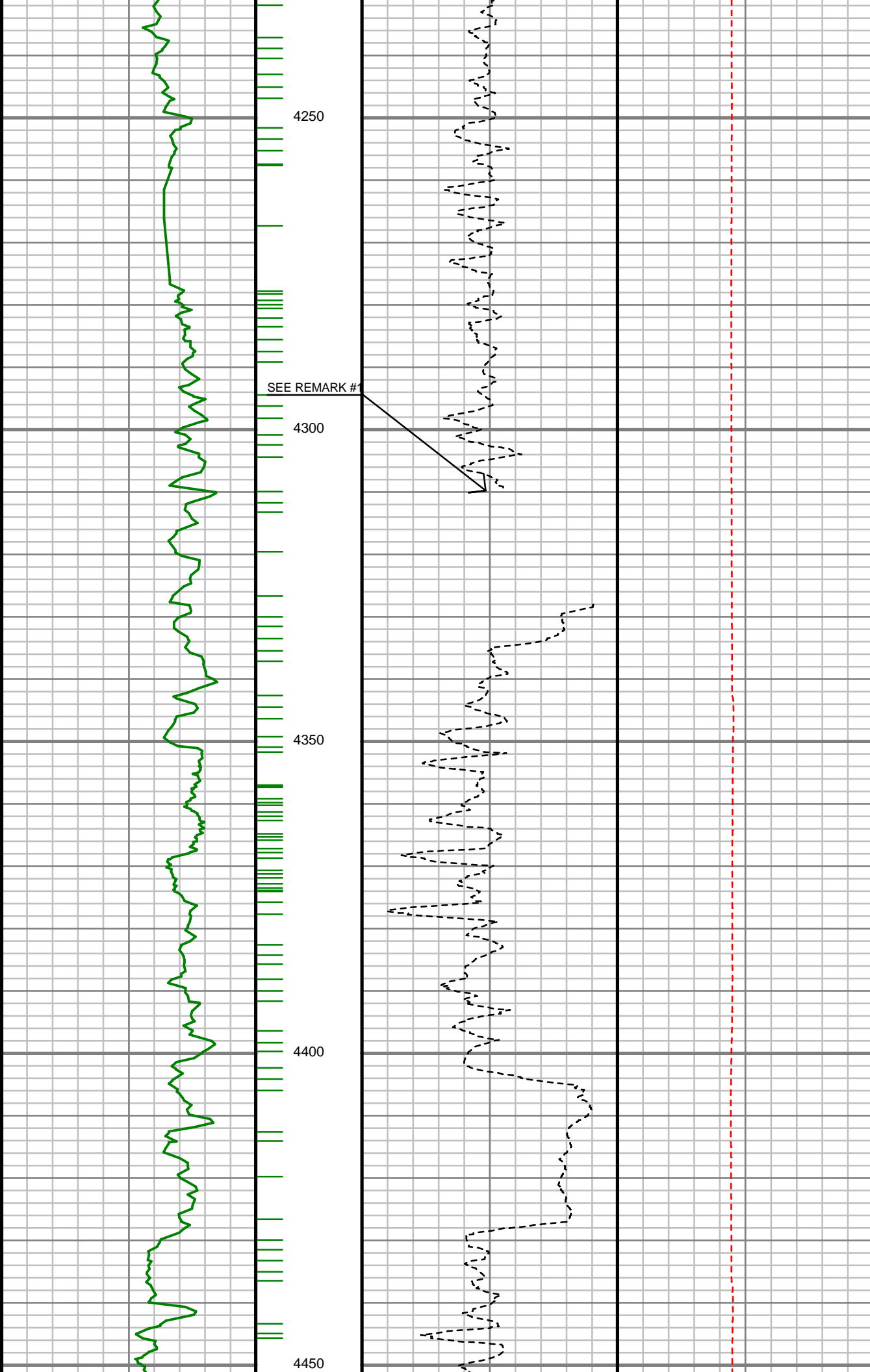
S: 45 MD: 3964.00 ft
Inc: 22.45 deg Az:
215.06 deg TVD:
3829.28 ft



S: 46 MD: 4058.00 ft
Inc: 23.92 deg Az:
215.10 deg TVD:
3915.69 ft

S: 47 MD: 4153.00 ft
Inc: 25.08 deg Az:
215.55 deg TVD:
4002.13 ft

TOTCO FAILURE -
RESET SYSTEM

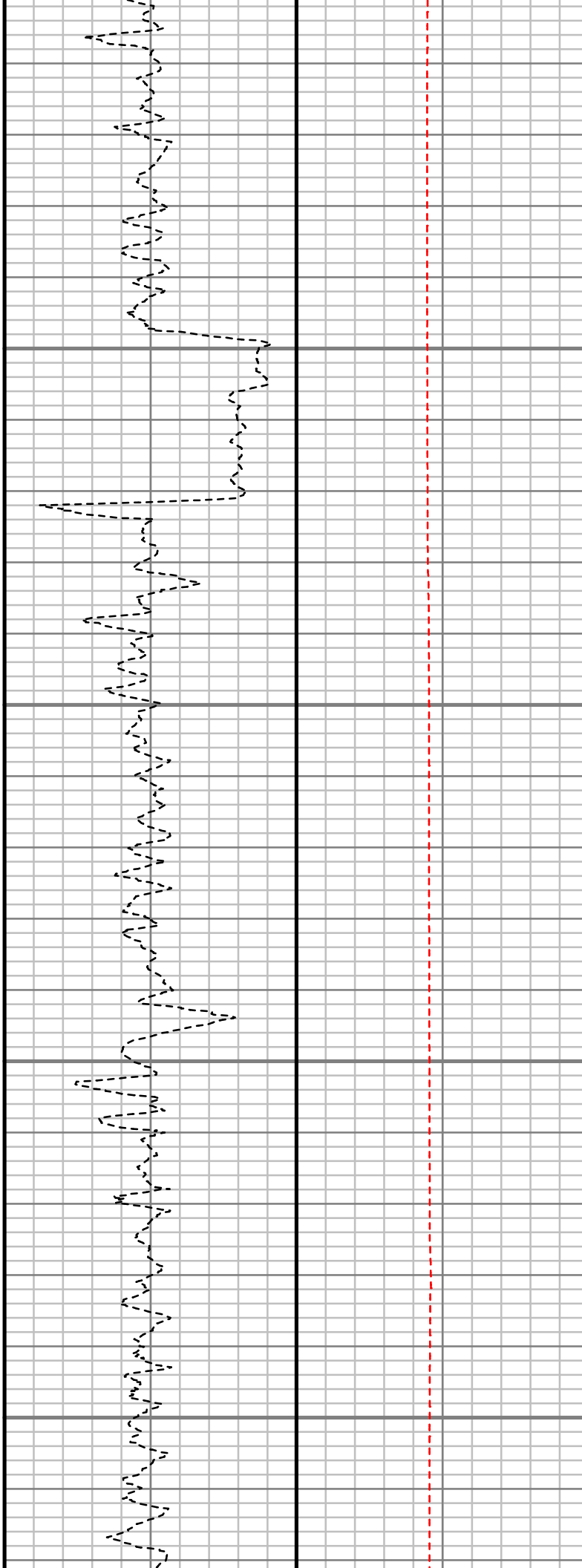
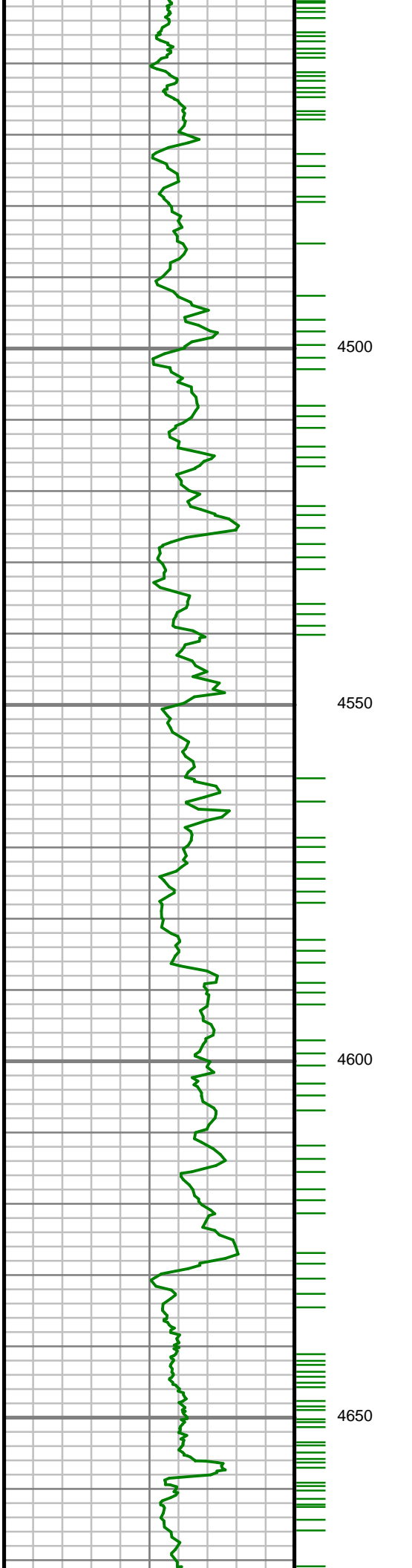


S: 48 MD: 4247.00 ft
Inc: 22.65 deg Az:
214.99 deg TVD:
4088.09 ft

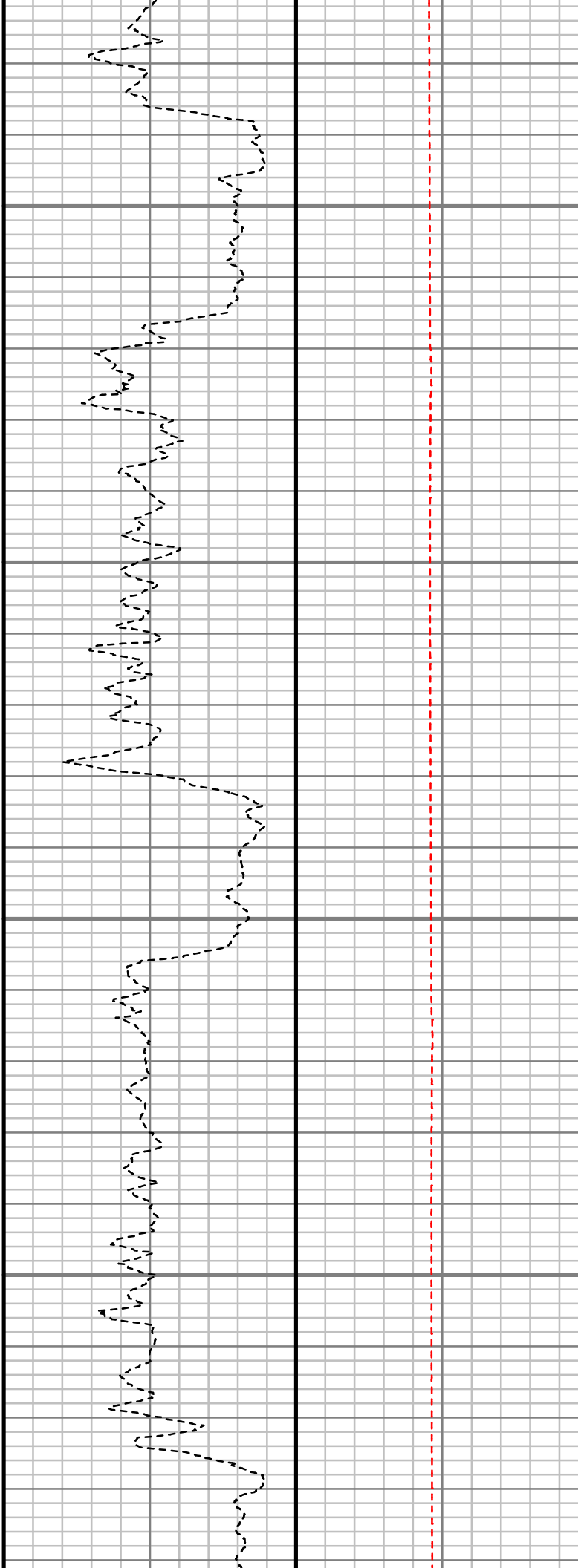
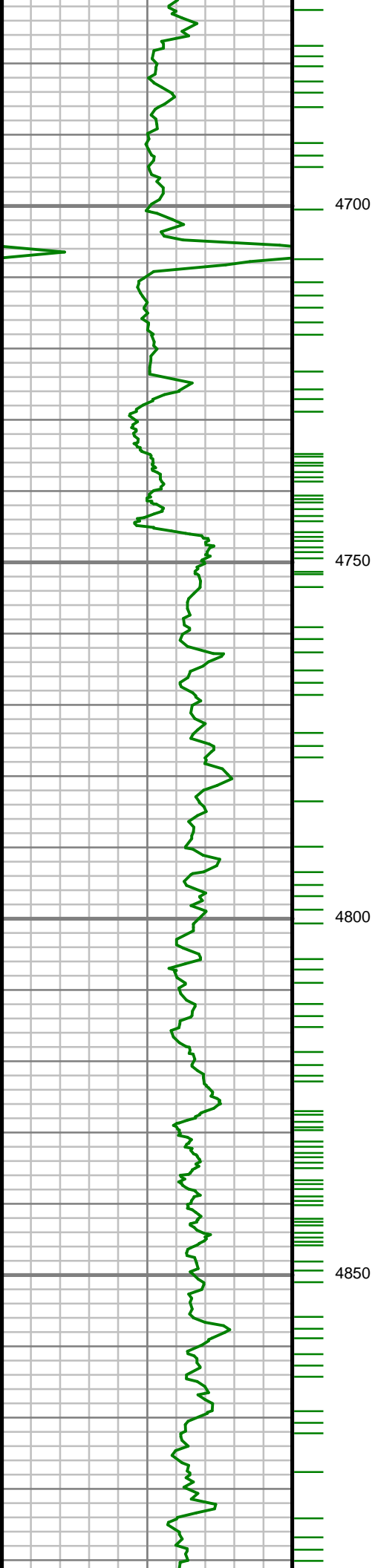
TOTCO FAILURE -
RESET SYSTEM

S: 49 MD: 4341.00 ft
Inc: 20.62 deg Az:
218.69 deg TVD:
4175.47 ft

S: 50 MD: 4435.00 ft
Inc: 19.96 deg Az:
221.00 deg TVD:
4263.64 ft

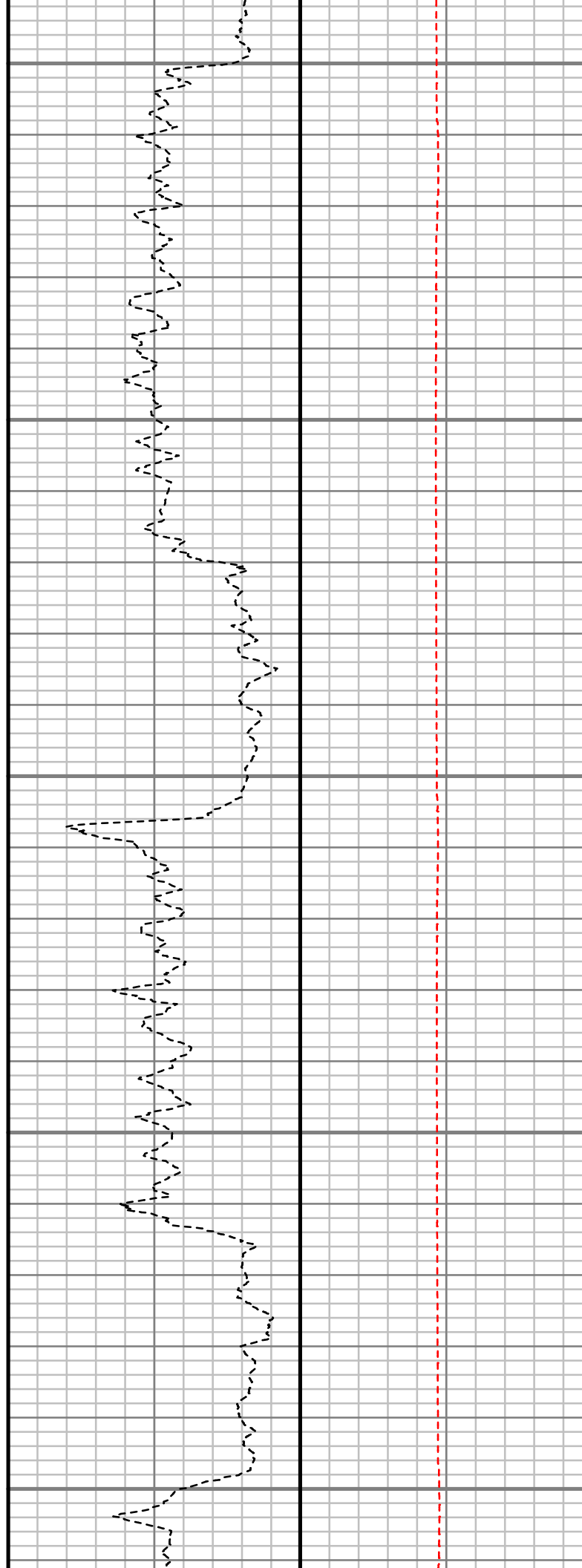
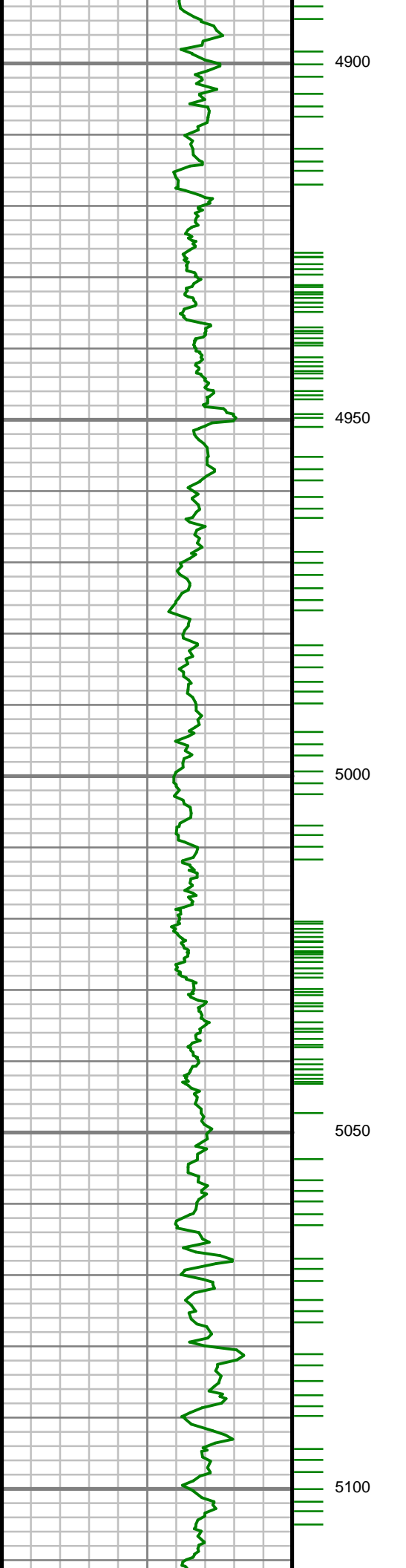


S: 51 MD: 4530.00 ft
Inc: 21.34 deg Az:
219.01 deg TVD:
4352.53 ft



S: 52 MD: 4718.00 ft
Inc: 18.32 deg Az:
214.58 deg TVD:
4529.38 ft

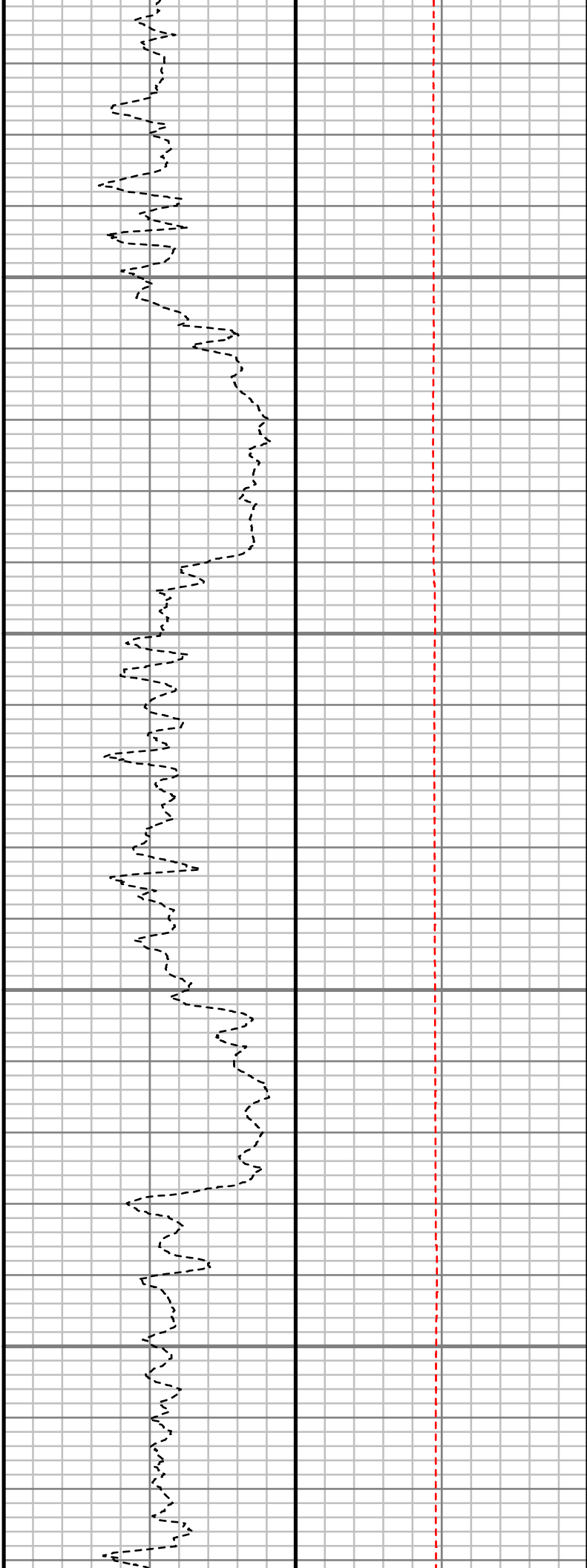
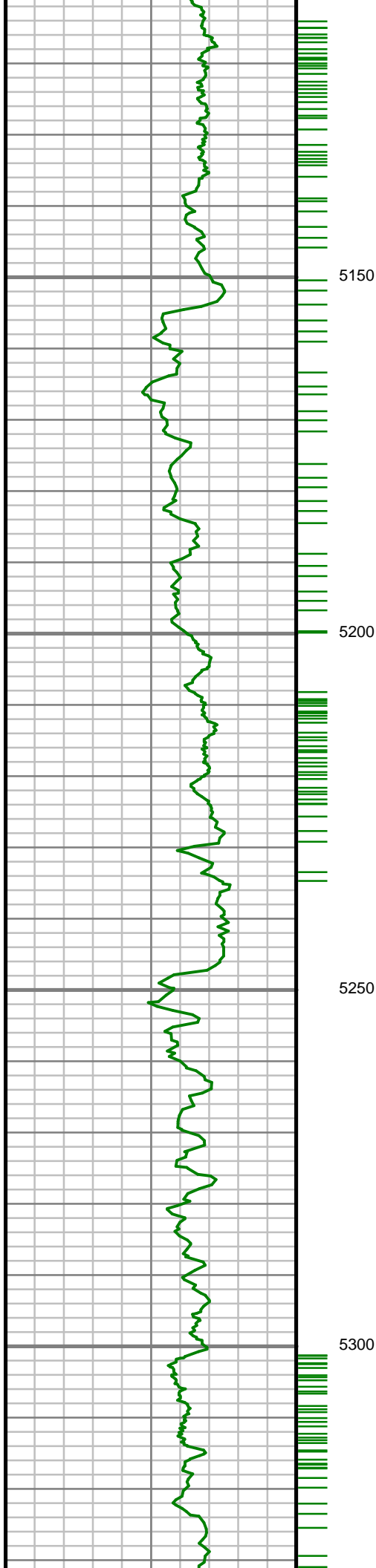
S: 53 MD: 4812.00 ft
Inc: 19.15 deg Az:
213.66 deg TVD:
4618.39 ft



S: 54 MD: 4906.00 ft
Inc: 20.01 deg Az:
210.05 deg TVD:
4706.96 ft

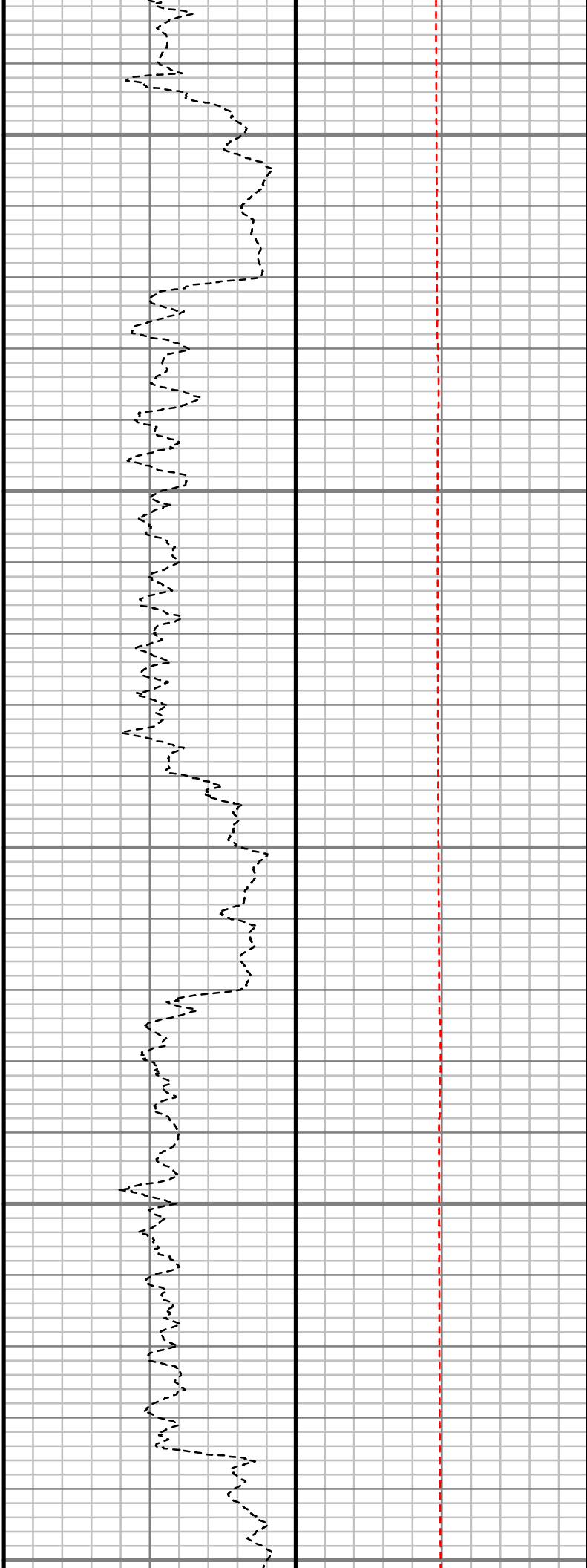
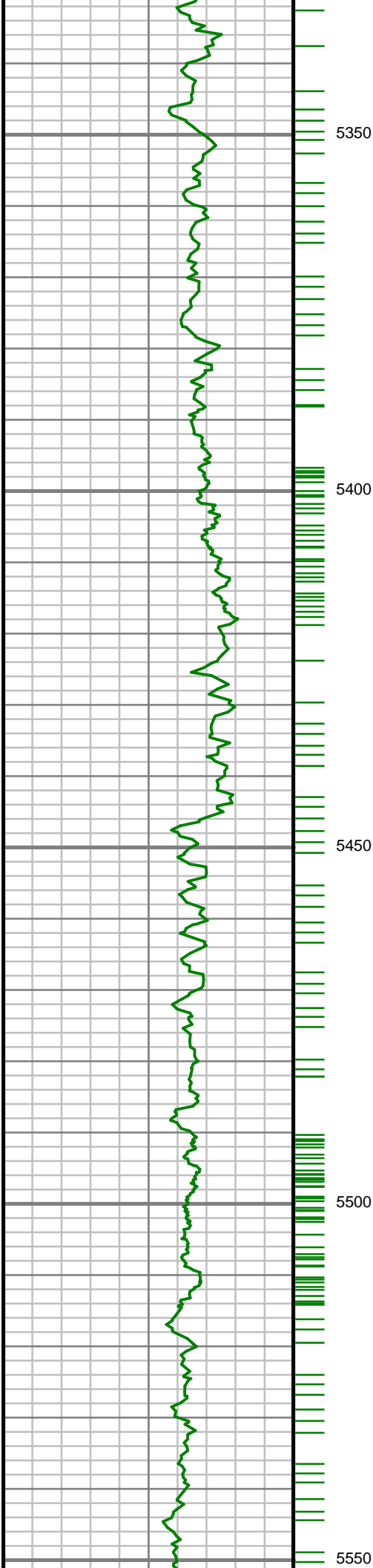
S: 55 MD: 5001.00 ft
Inc: 19.02 deg Az:
208.50 deg TVD:
4796.50 ft

S: 56 MD: 5095.00 ft
Inc: 20.76 deg Az:
210.62 deg TVD:
4884.89 ft



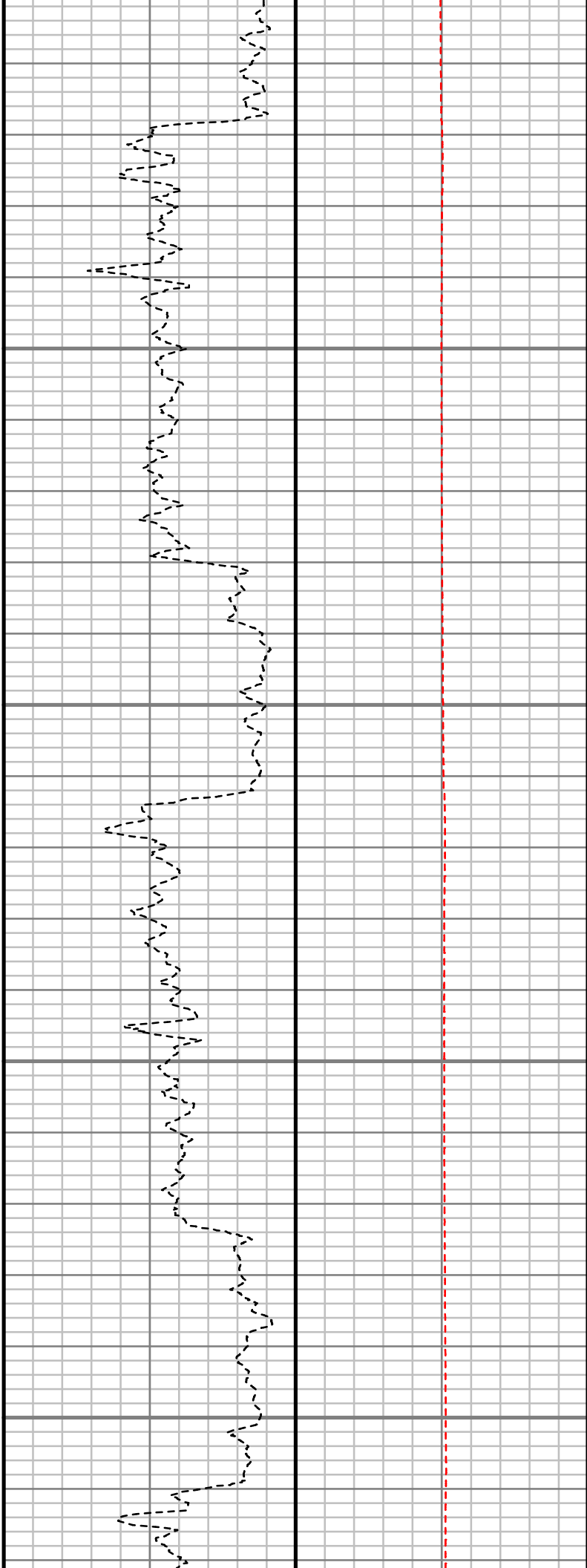
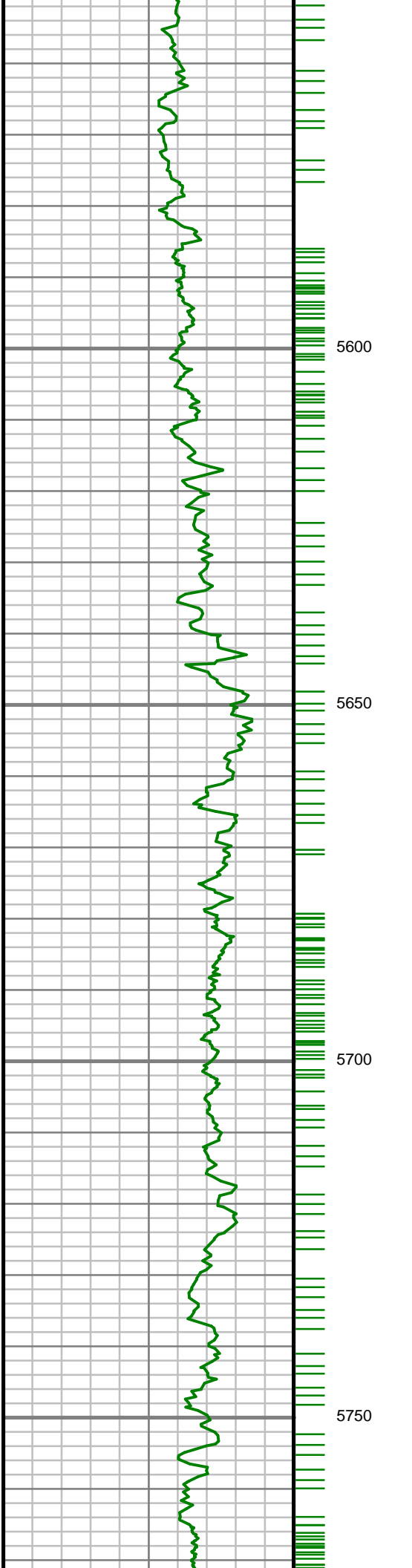
S: 57 MD: 5189.00 ft
Inc: 21.22 deg Az:
210.44 deg TVD:
4972.65 ft

S: 58 MD: 5283.00 ft
Inc: 21.52 deg Az:
210.51 deg TVD:
5060.19 ft



S: 59 MD: 5377.00 ft
Inc: 21.79 deg Az:
213.79 deg TVD:
5147.56 ft

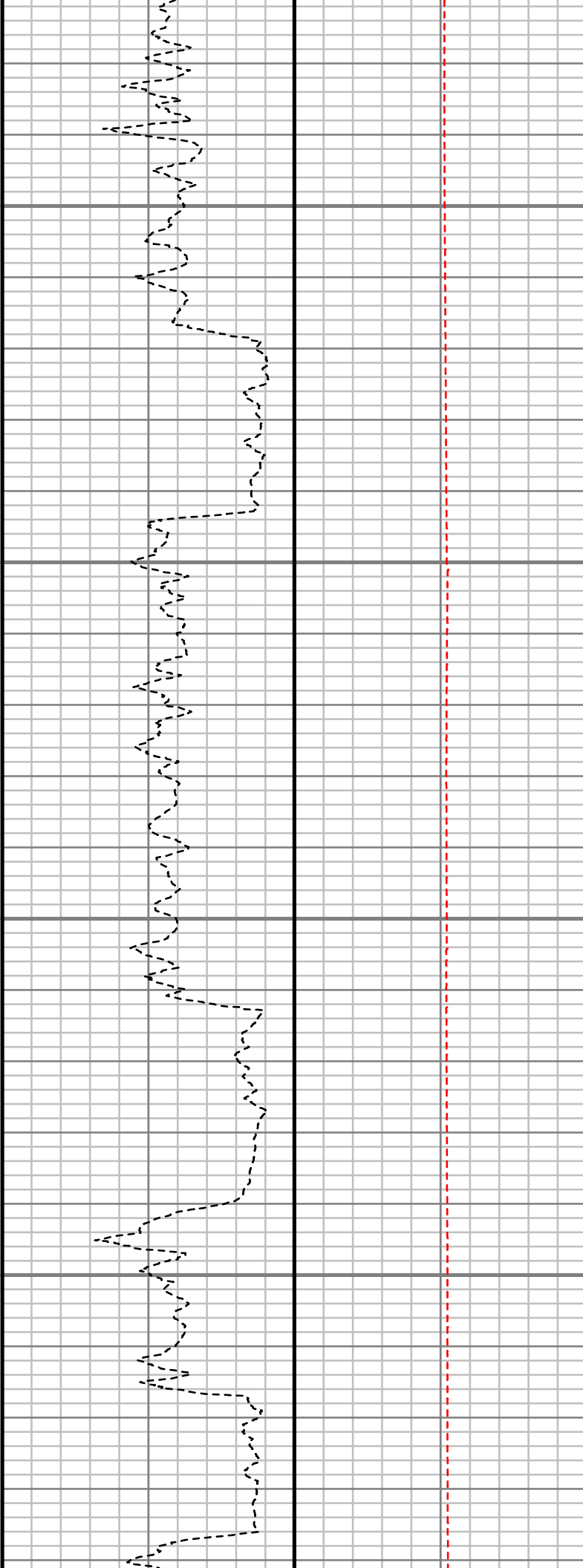
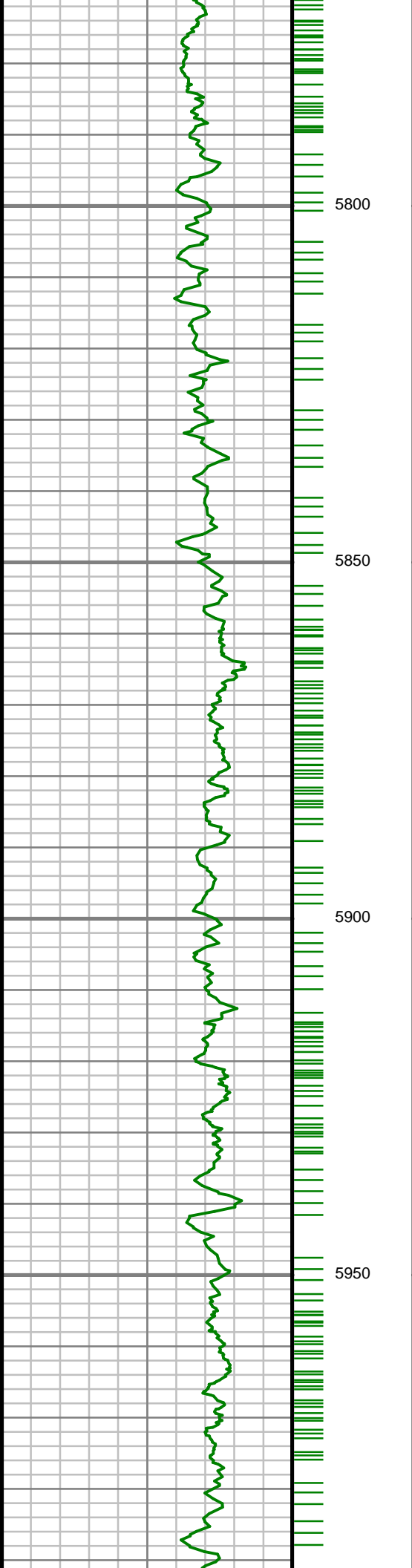
S: 60 MD: 5471.00 ft
Inc: 20.19 deg Az:
216.04 deg TVD:
5235.31 ft



S: 61 MD: 5566.00 ft
Inc: 19.09 deg Az:
213.43 deg TVD:
5324.79 ft

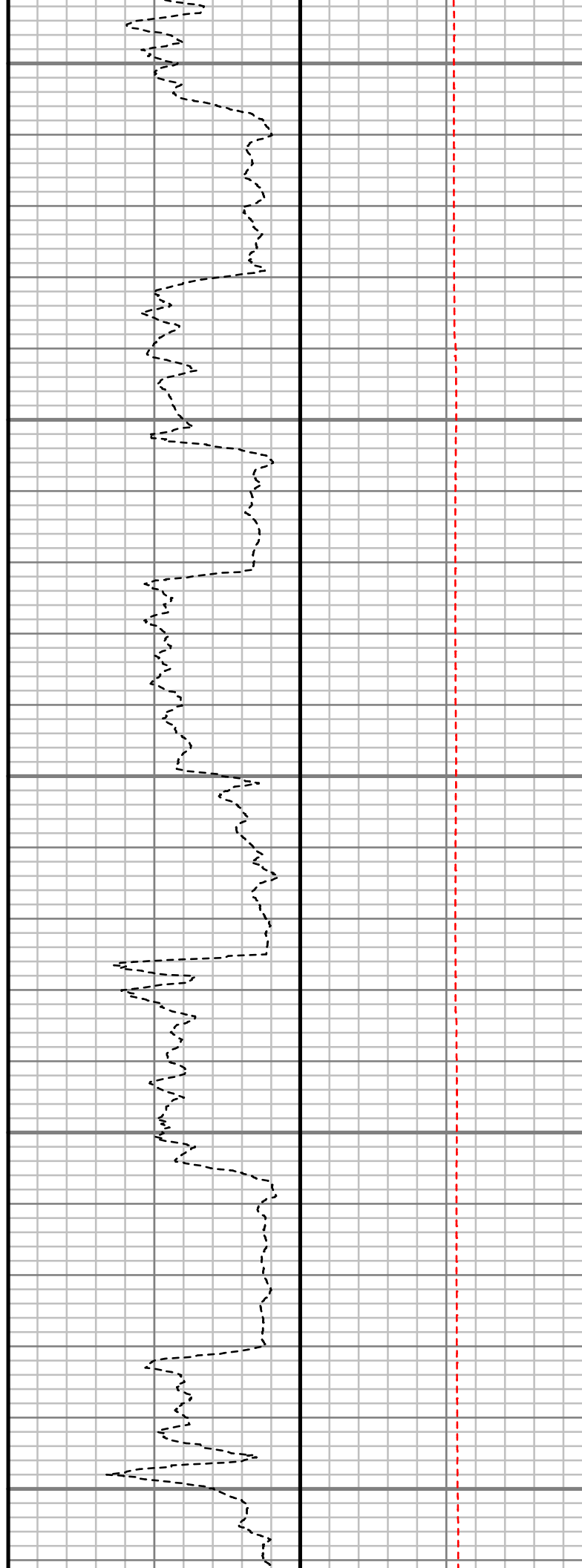
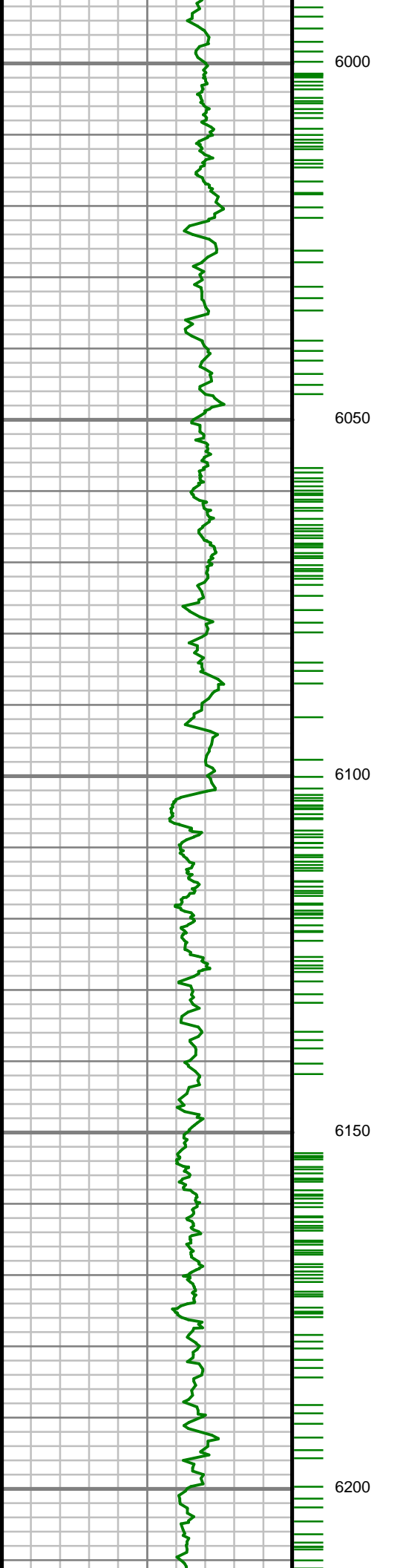
S: 62 MD: 5660.00 ft
Inc: 18.82 deg Az:
214.13 deg TVD:
5413.69 ft

S: 63 MD: 5754.00 ft
Inc: 17.59 deg Az:
214.74 deg TVD:
5502.98 ft



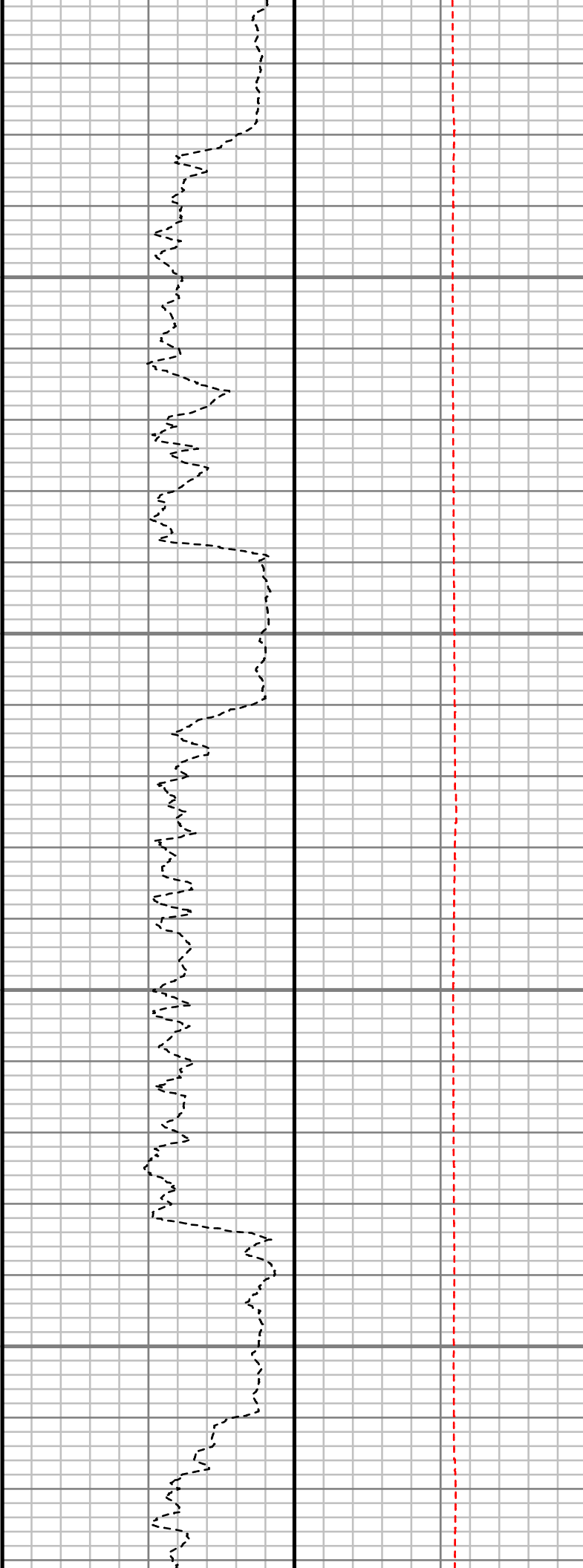
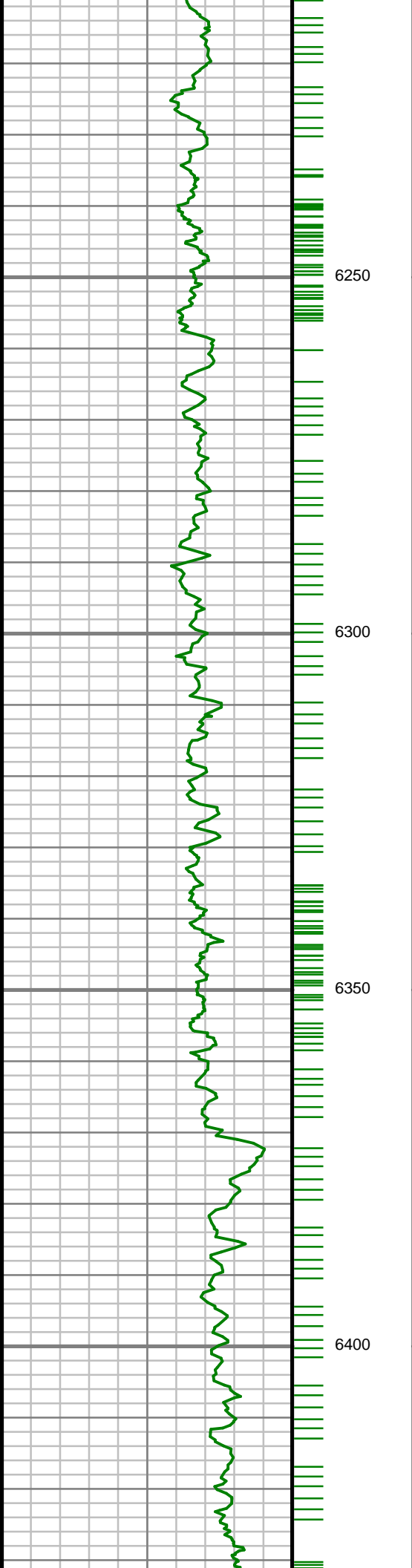
S: 64 MD: 5849.00 ft
Inc: 18.67 deg Az:
212.41 deg TVD:
5593.27 ft

S: 65 MD: 5943.00 ft
Inc: 16.83 deg Az:
213.87 deg TVD:
5682.79 ft



S: 66 MD: 6037.00 ft
Inc: 19.52 deg Az:
217.26 deg TVD:
5772.09 ft

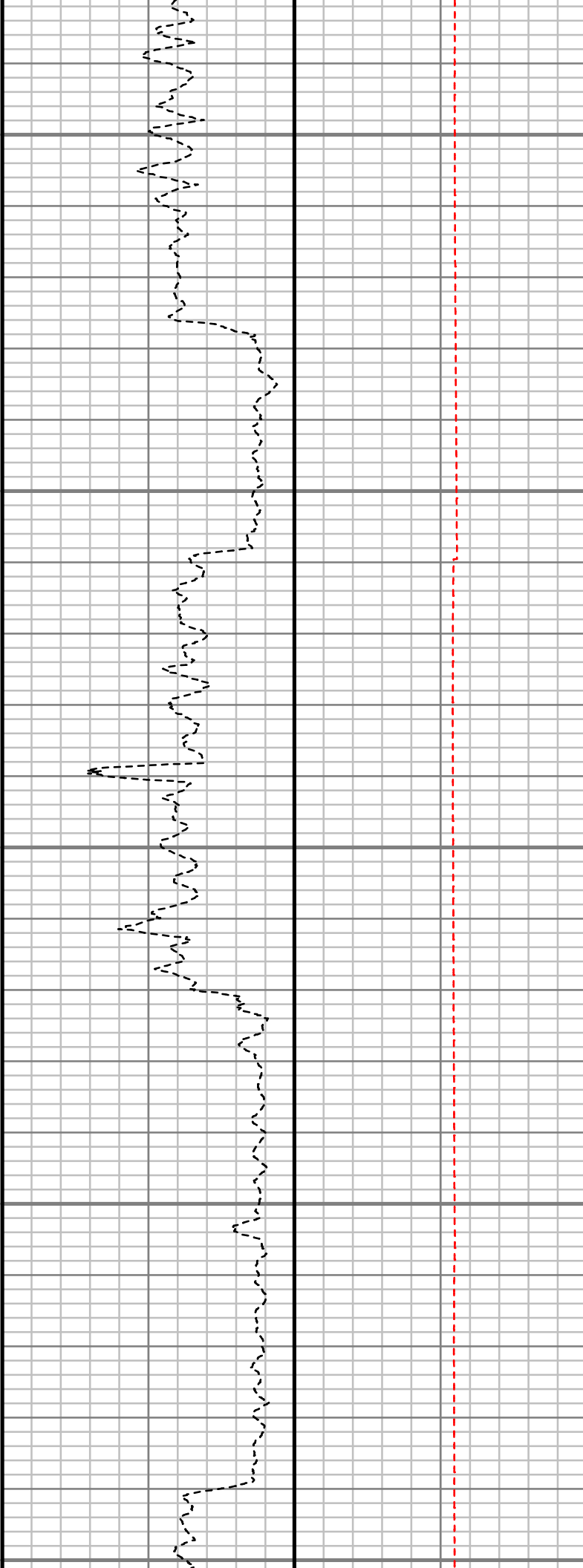
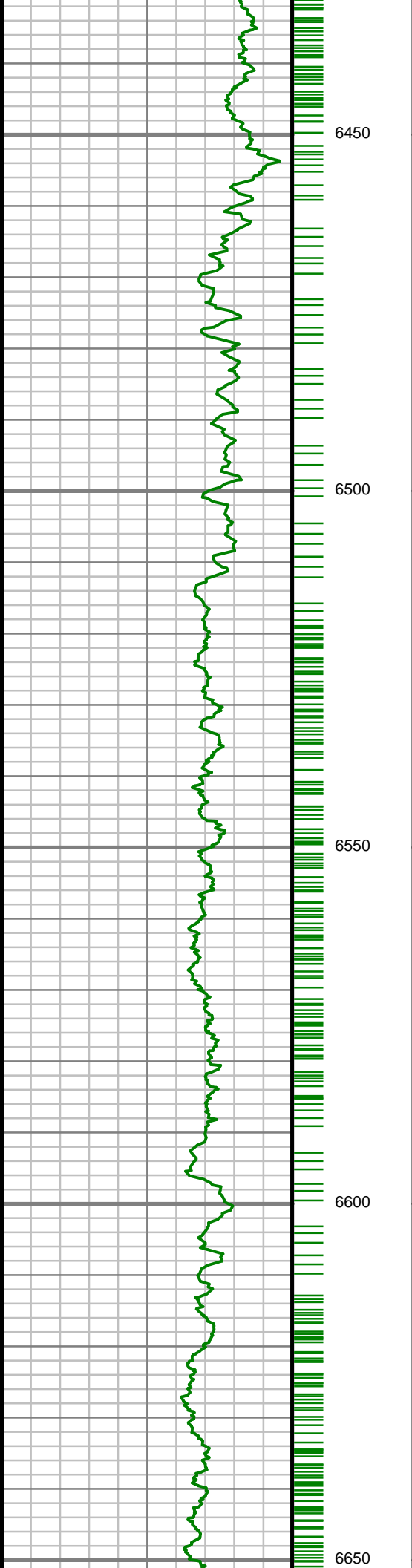
S: 67 MD: 6131.00 ft
Inc: 20.06 deg Az:
216.48 deg TVD:
5860.54 ft



S: 68 MD: 6225.00 ft
Inc: 24.61 deg Az:
217.74 deg TVD:
5947.47 ft

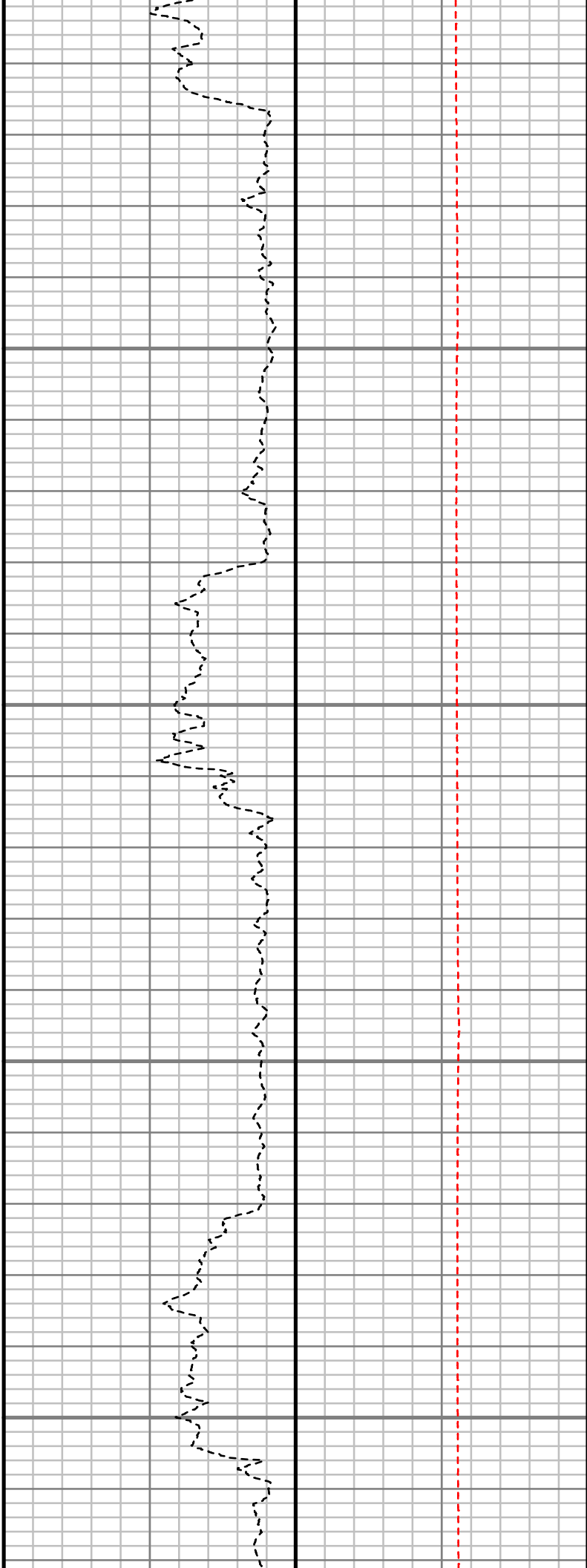
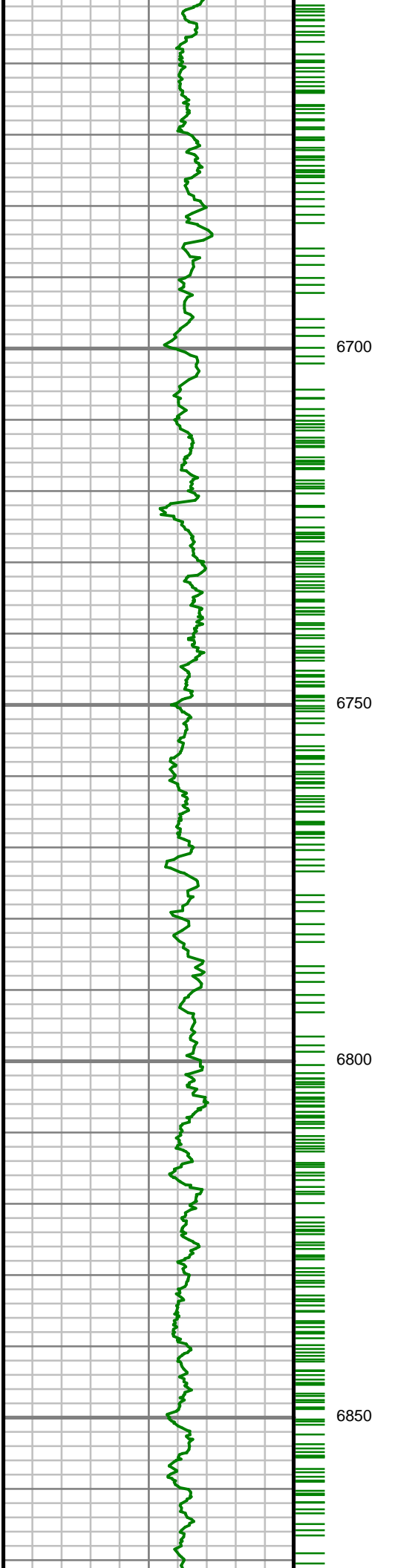
S: 69 MD: 6320.00 ft
Inc: 24.06 deg Az:
216.32 deg TVD:
6034.02 ft

S: 70 MD: 6414.00 ft
Inc: 22.38 deg Az:
217.96 deg TVD:
6120.41 ft



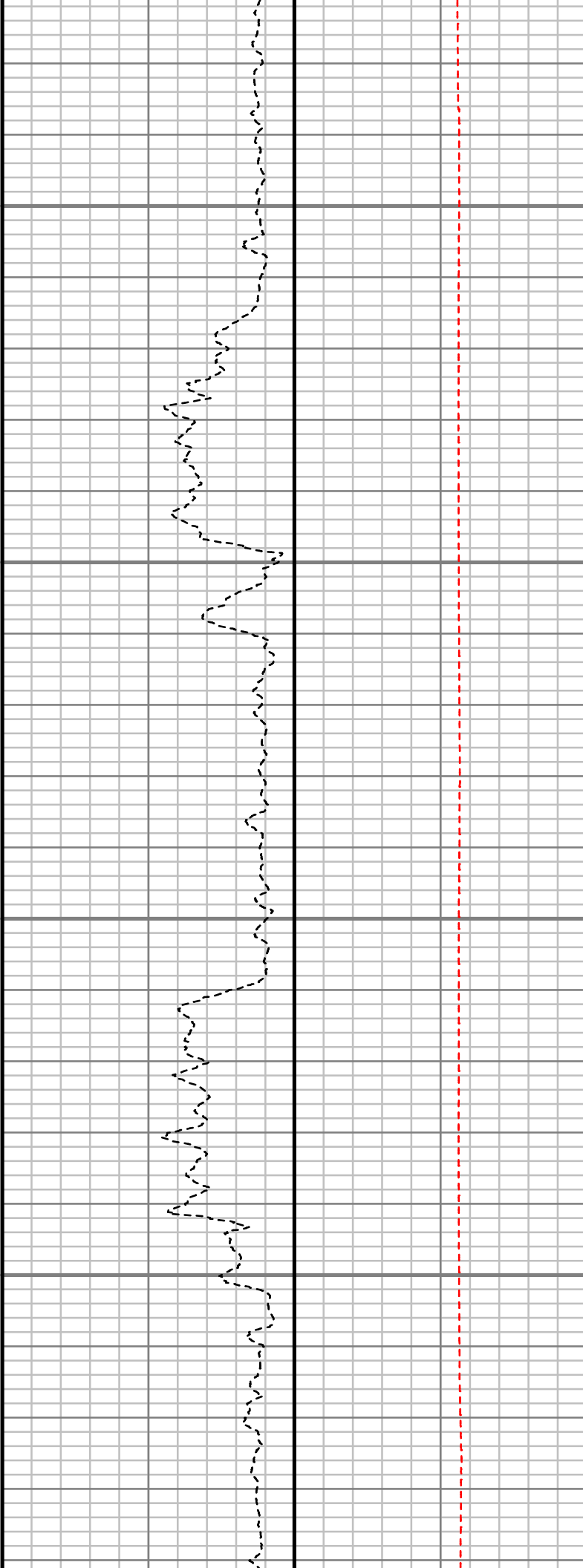
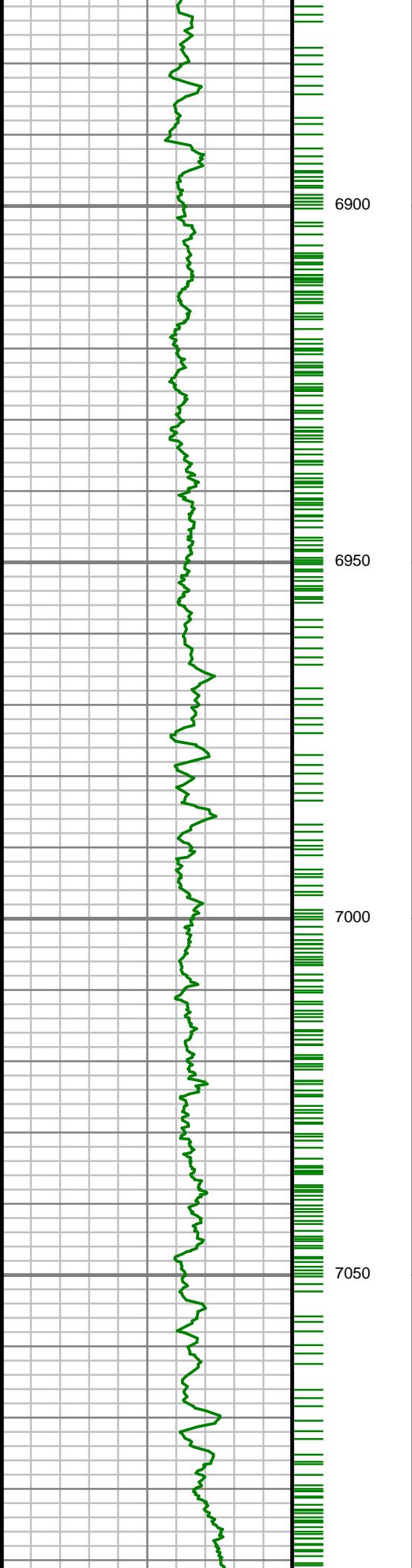
S: 71 MD: 6508.00 ft
Inc: 19.22 deg Az:
224.21 deg TVD:
6208.28 ft

S: 72 MD: 6603.00 ft
Inc: 19.16 deg Az:
241.73 deg TVD:
6298.08 ft



S: 73 MD: 6697.00 ft
Inc: 22.92 deg Az:
266.75 deg TVD:
6385.97 ft

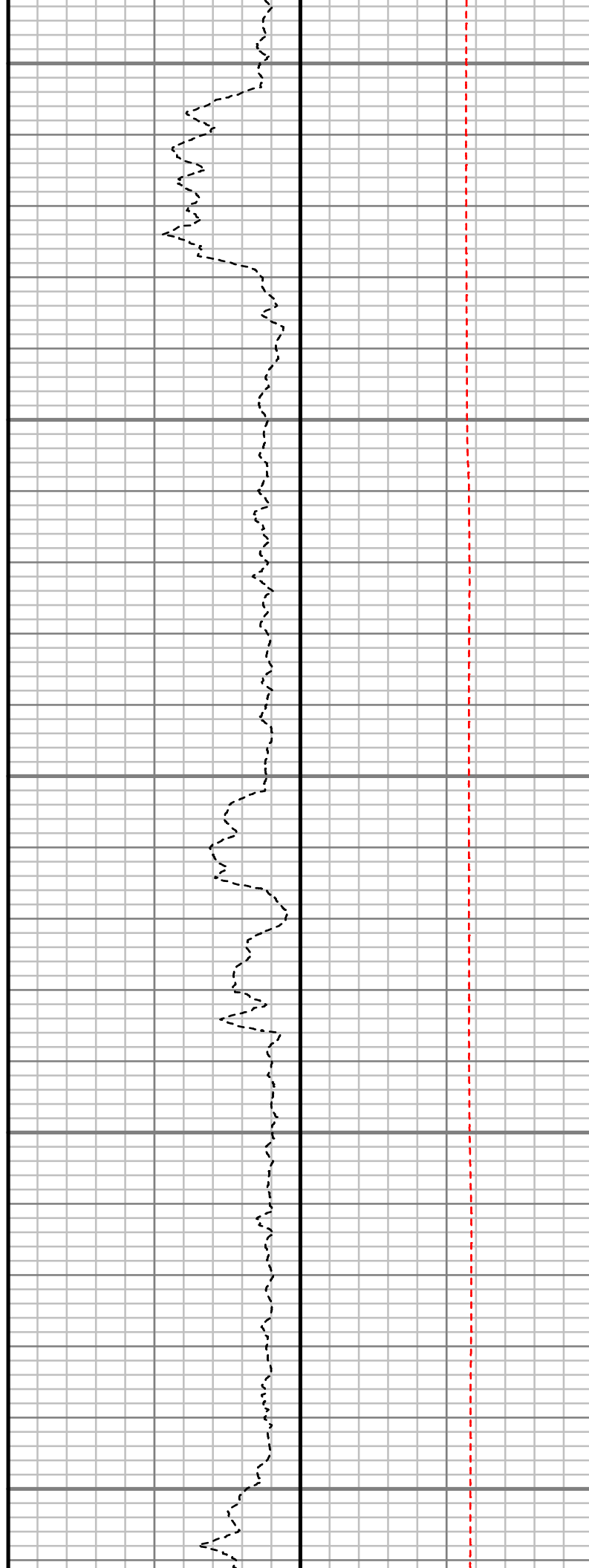
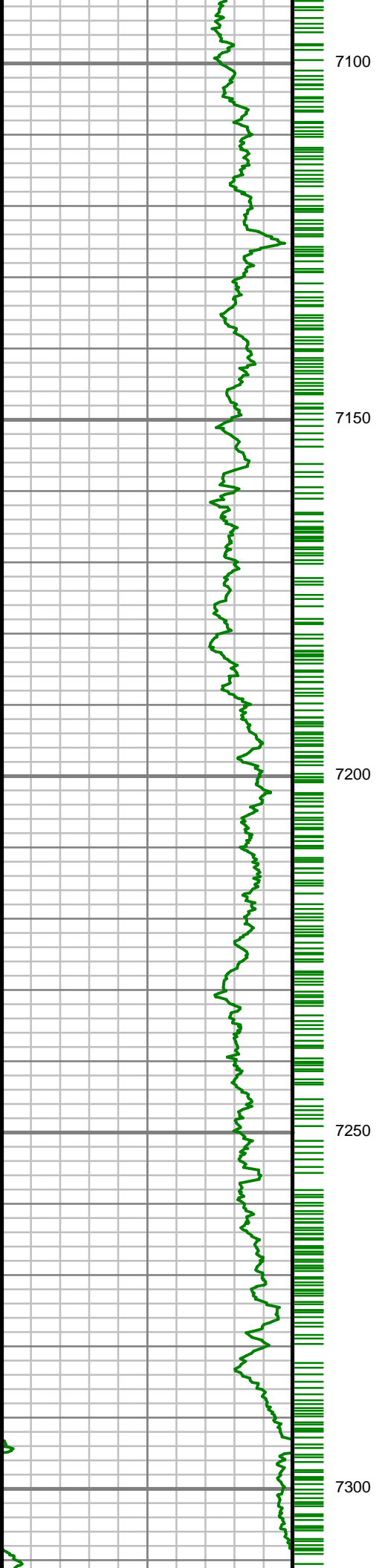
S: 74 MD: 6791.00 ft
Inc: 20.67 deg Az:
293.24 deg TVD:
6473.46 ft



S: 75 MD: 6885.00 ft
Inc: 19.76 deg Az:
323.87 deg TVD:
6561.92 ft

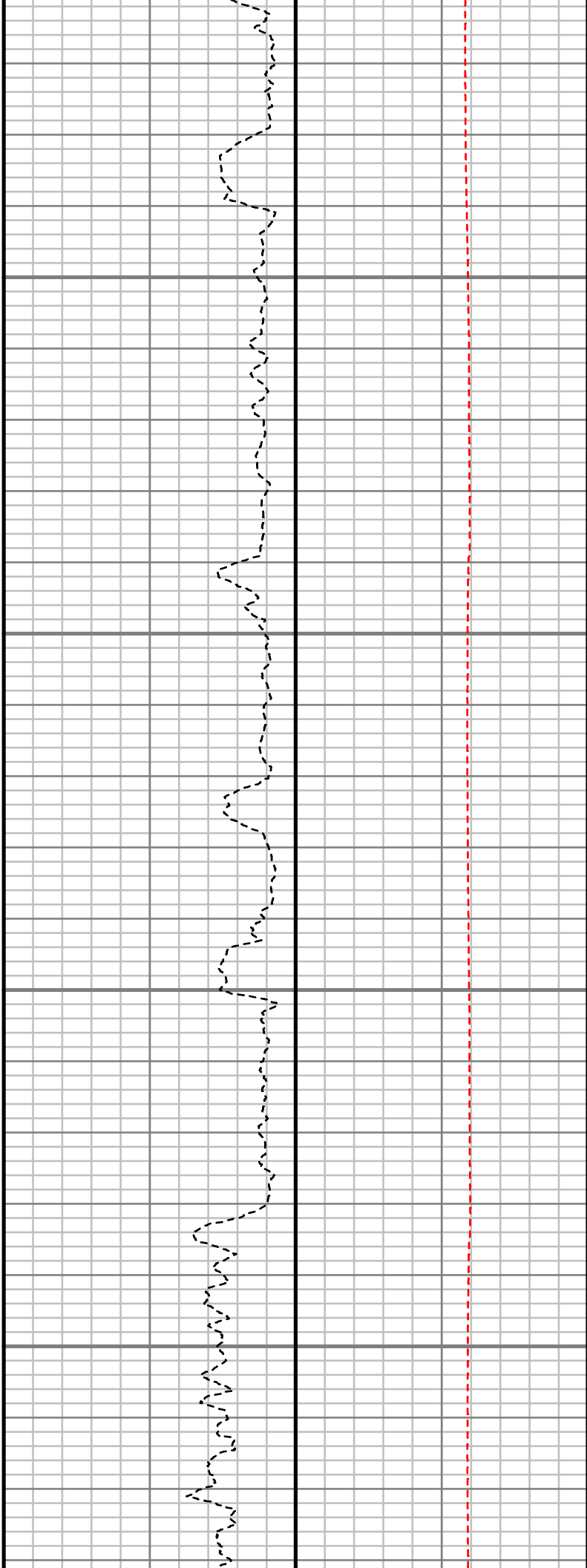
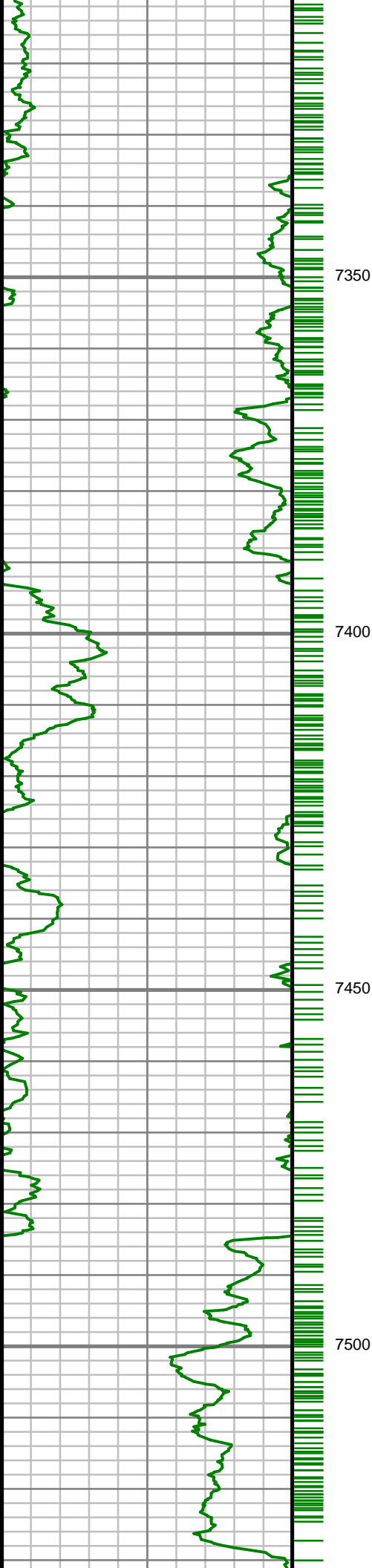
S: 76 MD: 6980.00 ft
Inc: 23.10 deg Az:
339.89 deg TVD:
6650.41 ft

S: 77 MD: 7074.00 ft
Inc: 28.58 deg Az:
345.67 deg TVD:
6734.99 ft



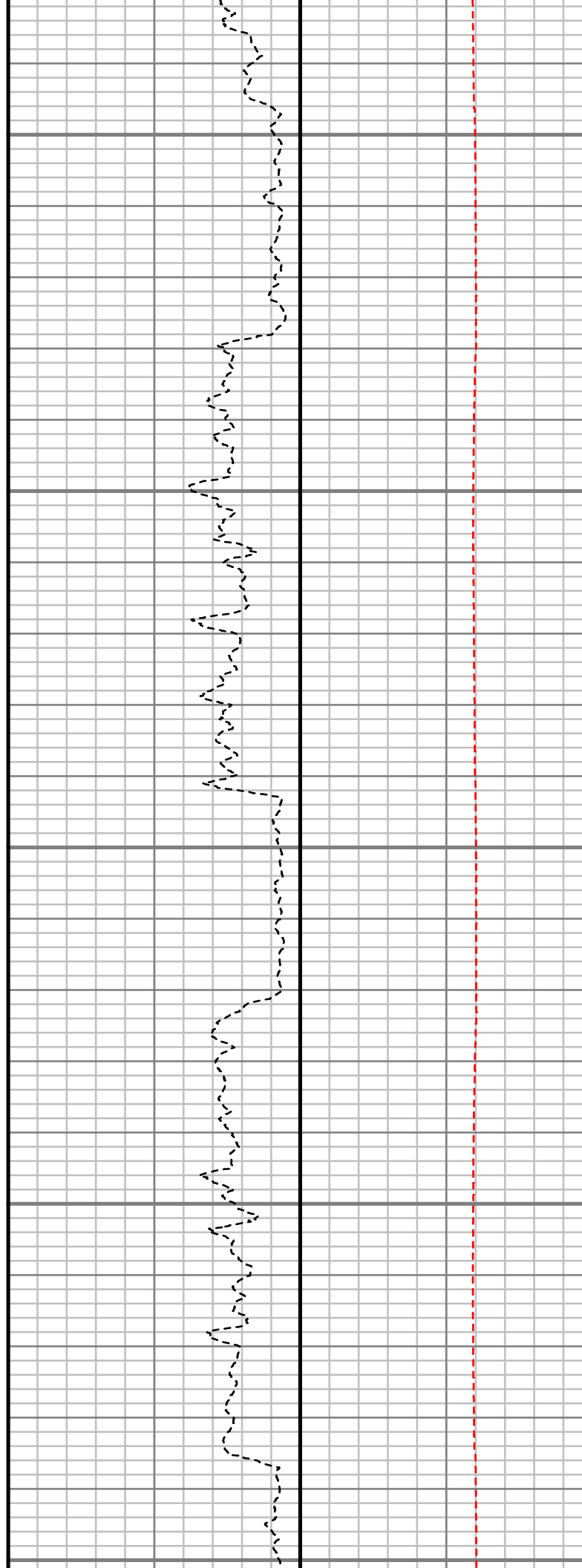
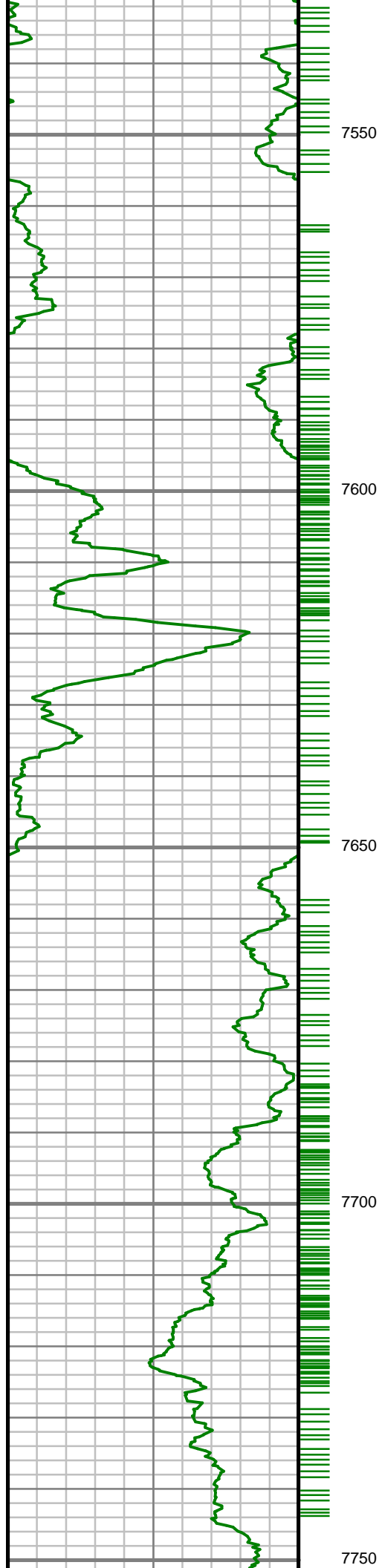
S: 78 MD: 7168.00 ft
Inc: 35.79 deg Az:
347.13 deg TVD:
6814.50 ft

S: 79 MD: 7262.00 ft
Inc: 46.09 deg Az:
348.38 deg TVD:
6885.41 ft



S: 80 MD: 7356.00 ft
Inc: 53.72 deg Az:
352.09 deg TVD:
6945.92 ft

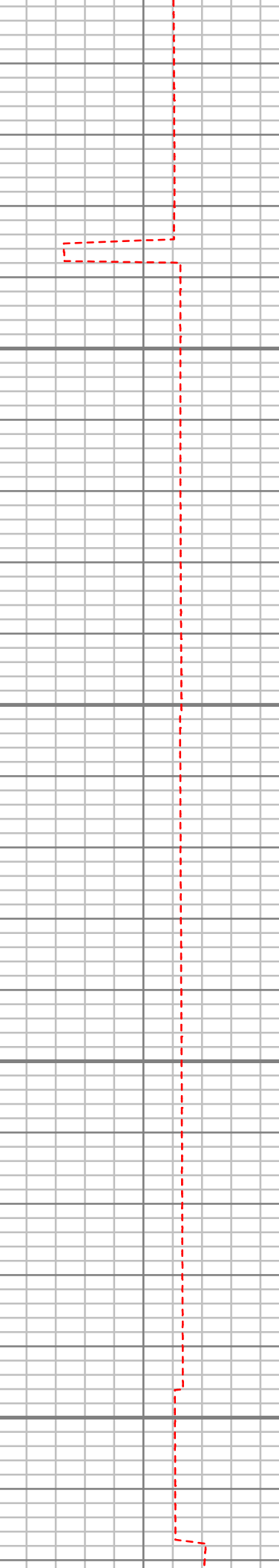
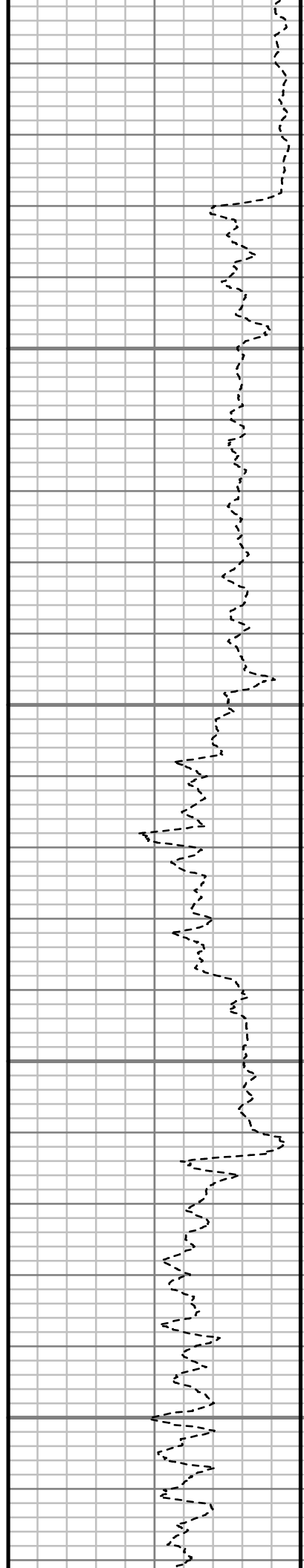
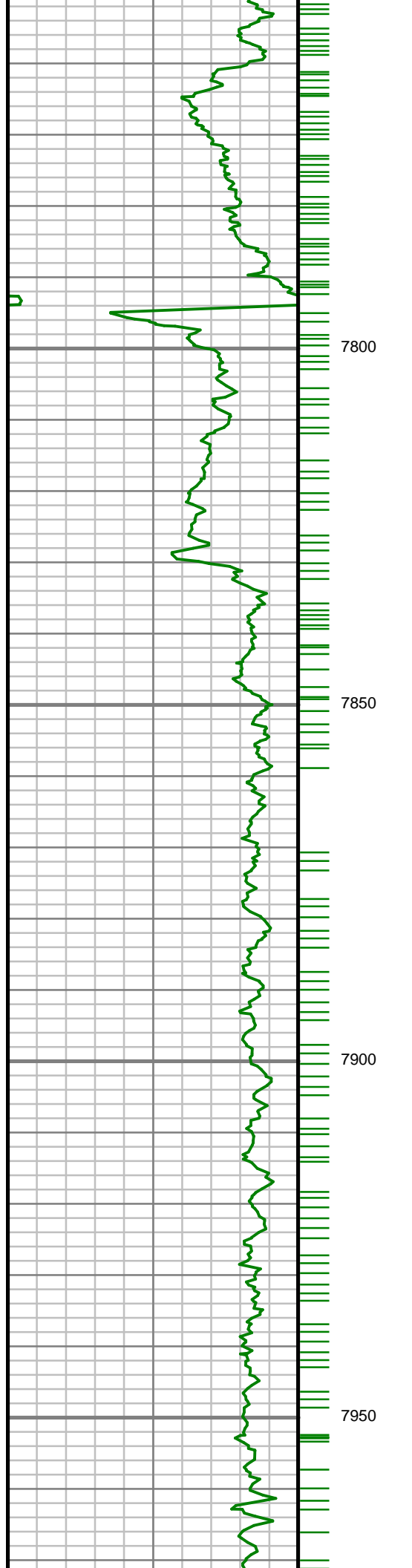
S: 81 MD: 7450.00 ft
Inc: 59.29 deg Az:
354.64 deg TVD:
6997.78 ft



S: 82 MD: 7545.00 ft
Inc: 66.18 deg Az:
353.75 deg TVD:
7041.27 ft

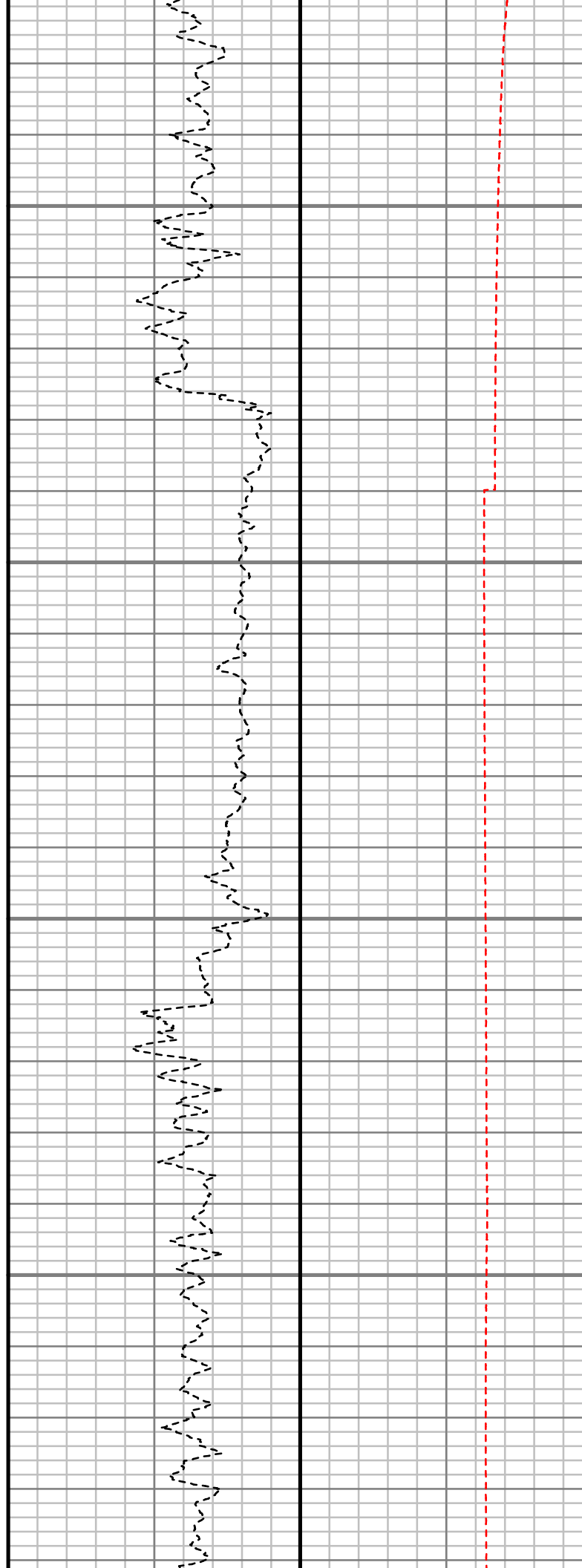
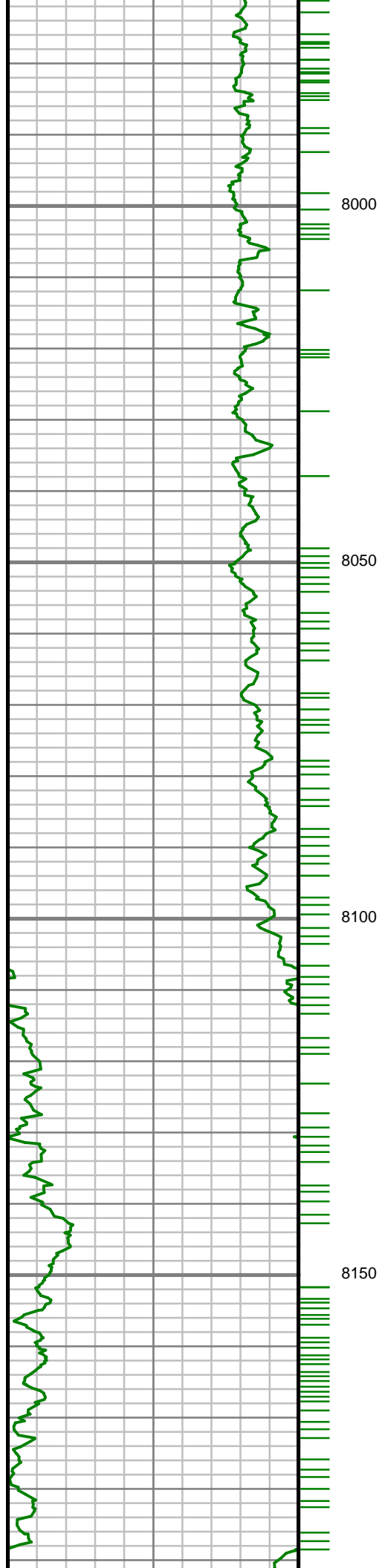
S: 83 MD: 7639.00 ft
Inc: 73.98 deg Az:
353.95 deg TVD:
7073.27 ft

S: 84 MD: 7733.00 ft
Inc: 81.04 deg Az:
355.51 deg TVD:
7093.59 ft



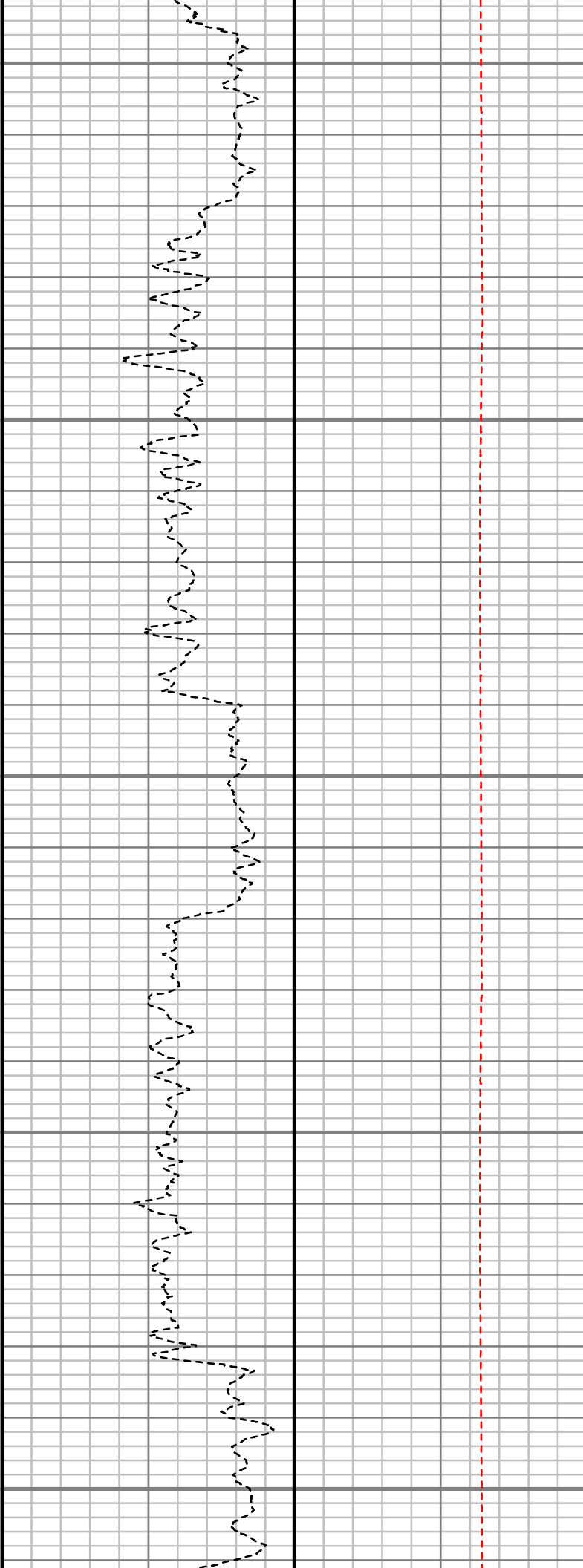
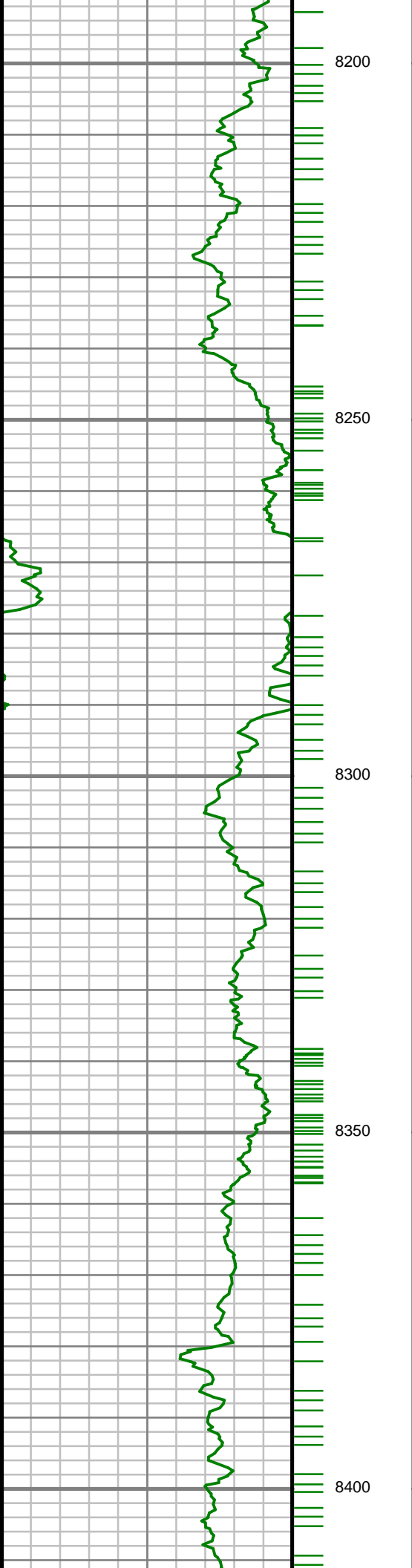
S: 85 MD: 7782.00 ft
Inc: 86.64 deg Az:
358.52 deg TVD:
7098.84 ft

S: 86 MD: 7944.00 ft
Inc: 89.43 deg Az:
359.13 deg TVD:
7104.40 ft



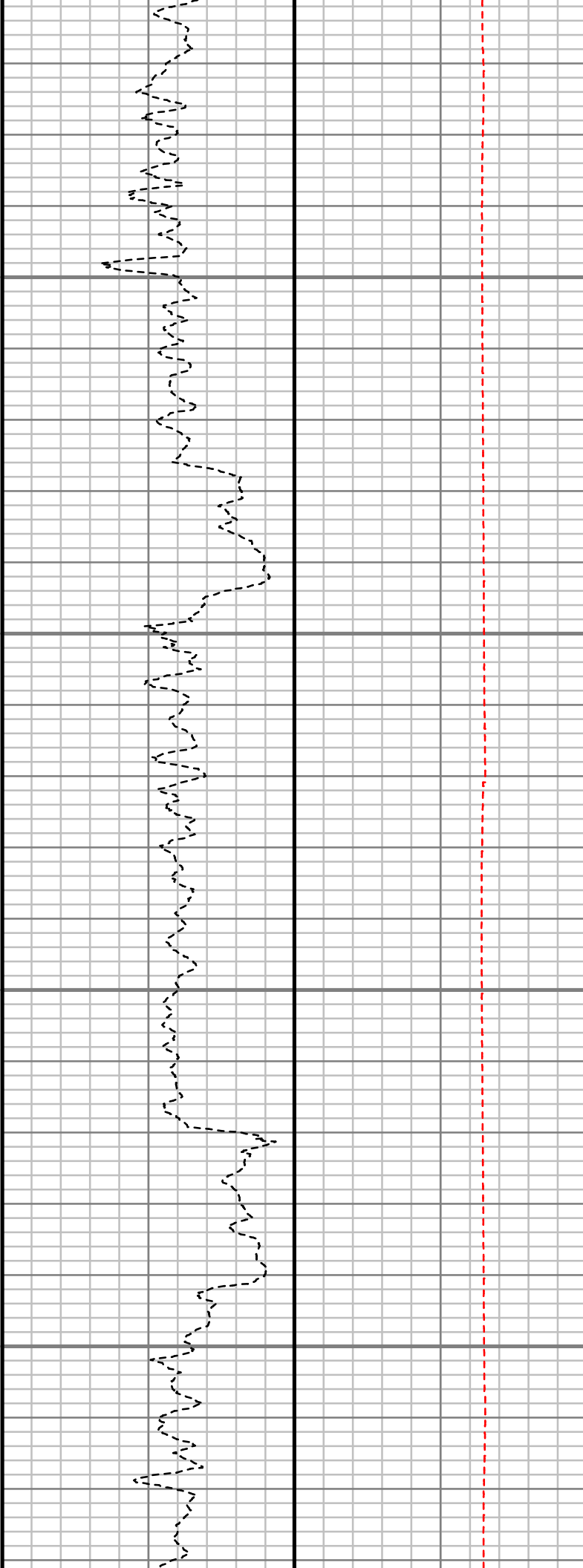
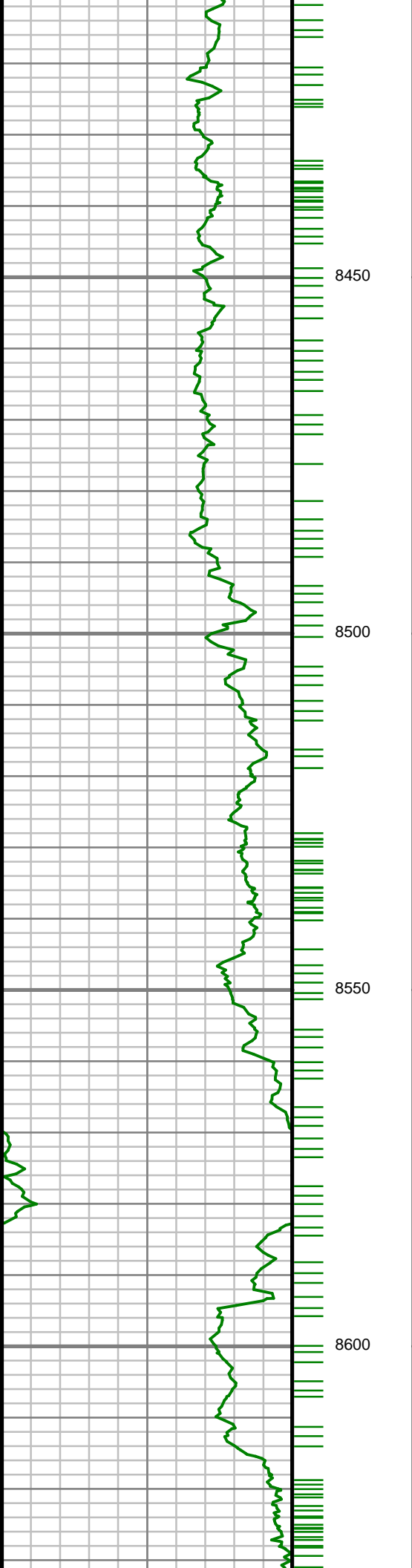
S: 87 MD: 8039.00 ft
Inc: 89.90 deg Az:
358.74 deg TVD:
7104.96 ft

S: 88 MD: 8133.00 ft
Inc: 90.91 deg Az:
358.27 deg TVD:
7104.30 ft



S: 89 MD: 8227.00 ft
Inc: 91.07 deg Az:
359.03 deg TVD:
7102.68 ft

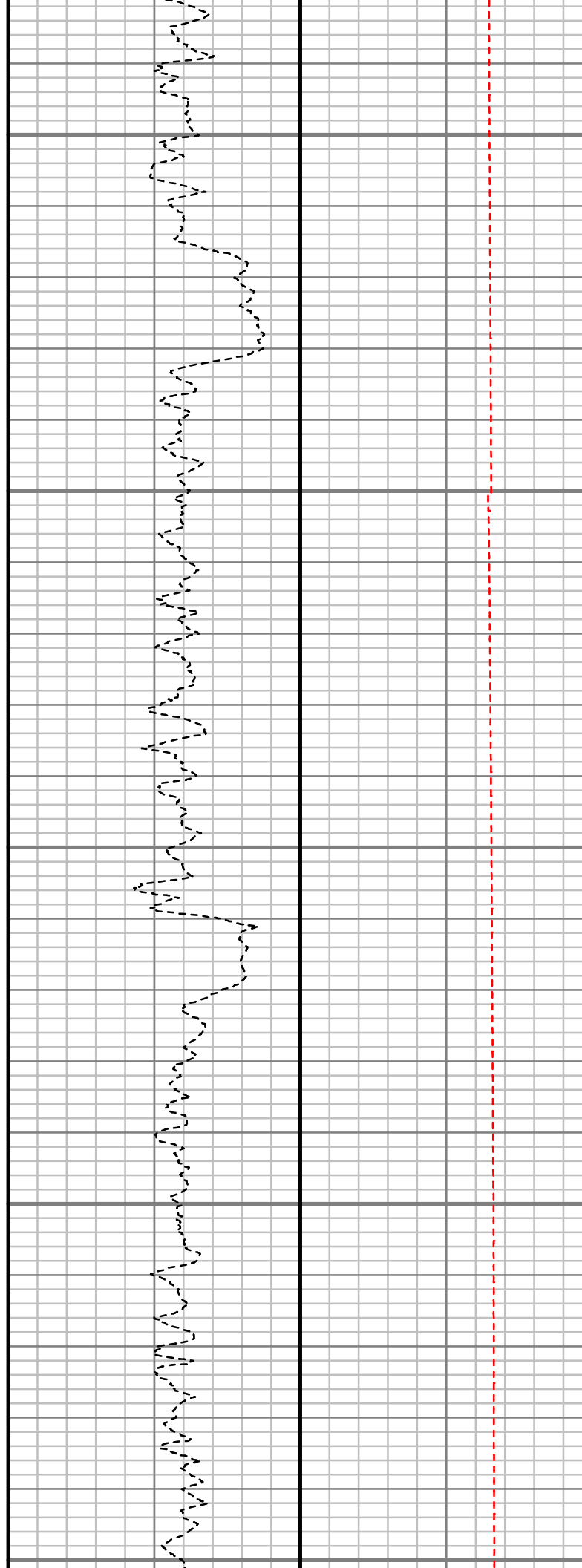
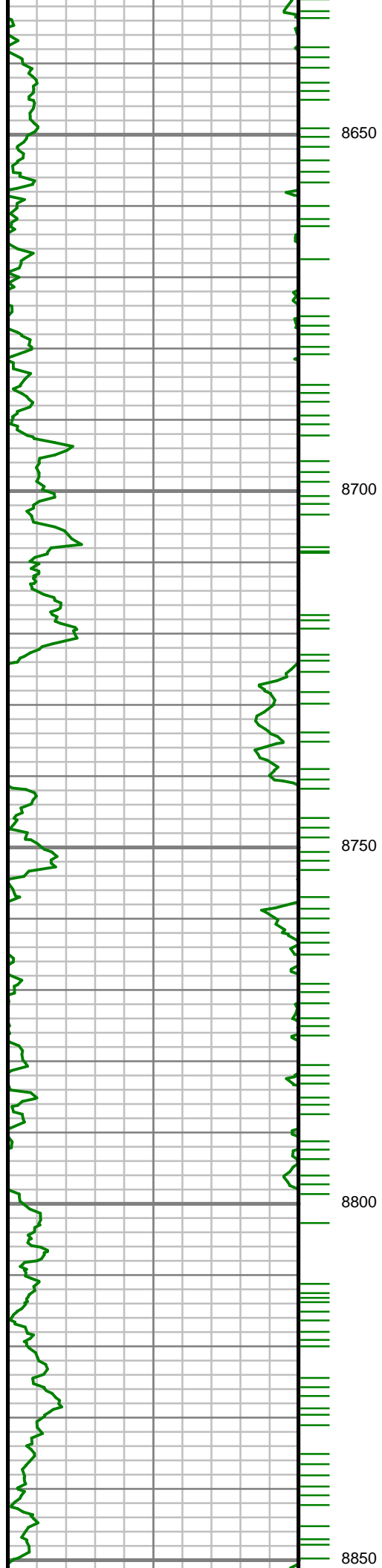
S: 90 MD: 8322.00 ft
Inc: 90.94 deg Az:
359.74 deg TVD:
7101.01 ft



S: 91 MD: 8416.00 ft
Inc: 89.73 deg Az: 0.12
deg TVD: 7100.46 ft

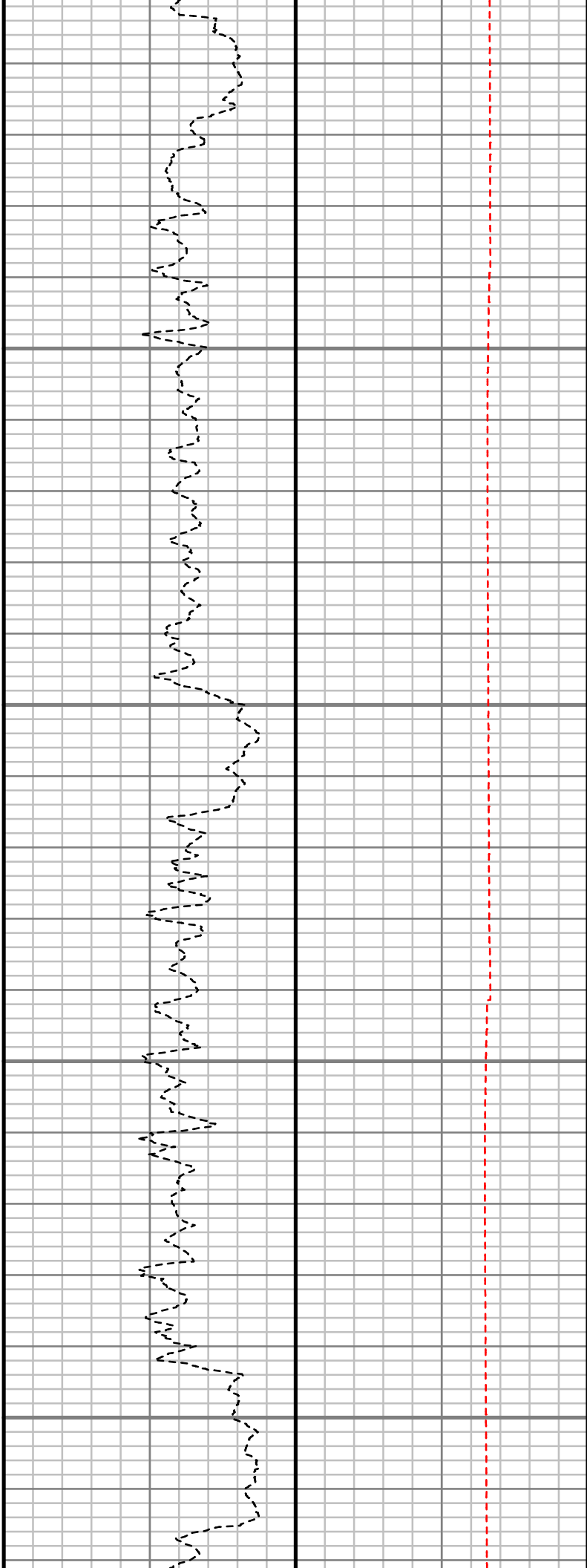
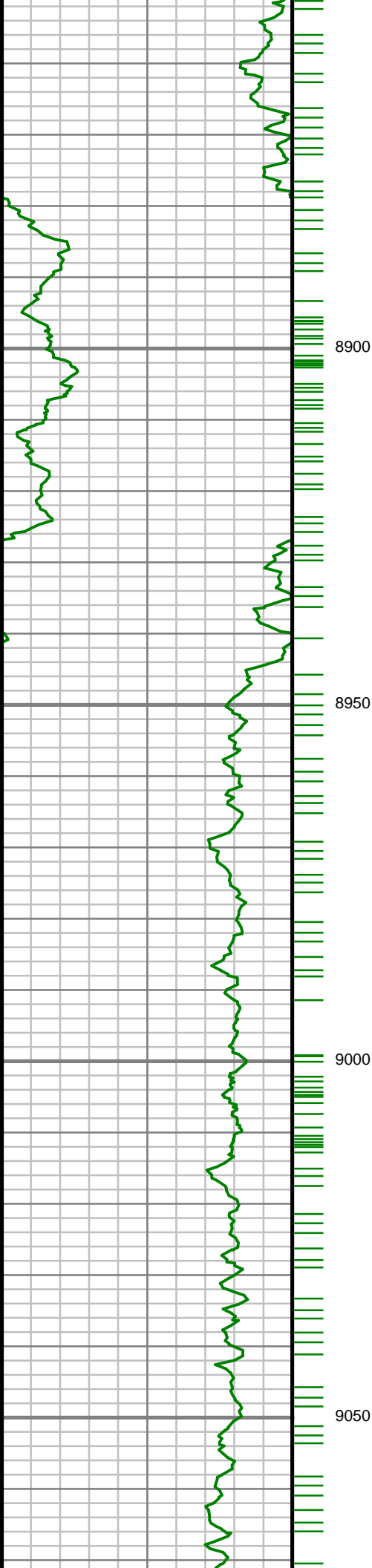
S: 92 MD: 8510.00 ft
Inc: 89.60 deg Az:
359.69 deg TVD:
7101.01 ft

S: 93 MD: 8605.00 ft
Inc: 89.60 deg Az: 0.61
deg TVD: 7101.68 ft



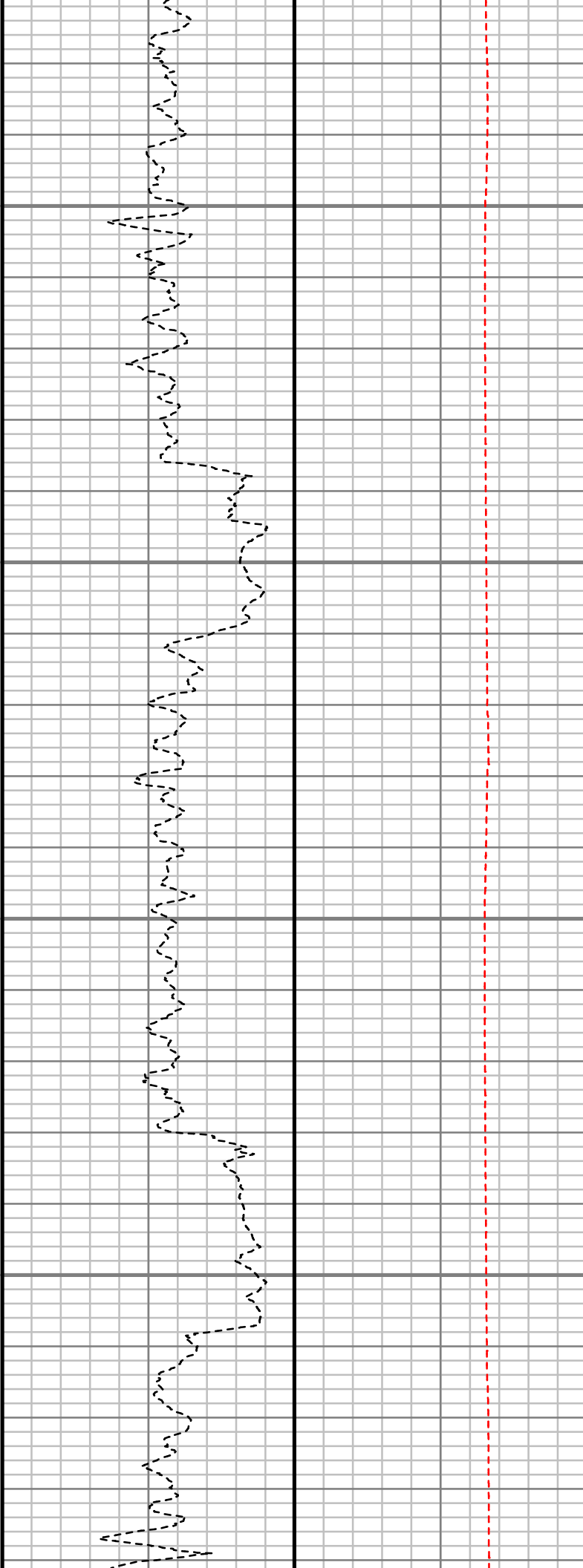
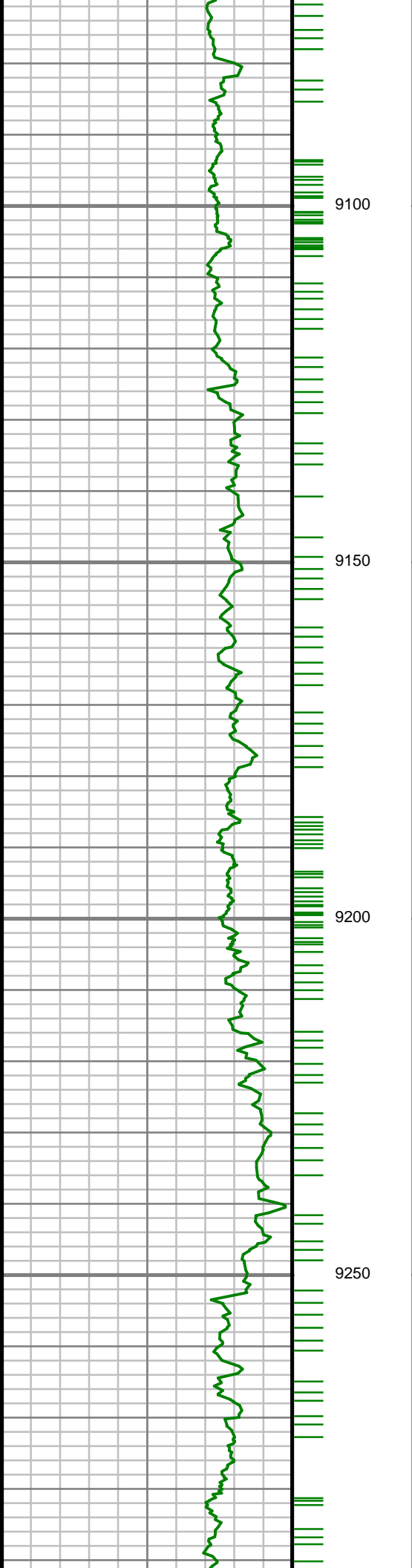
S: 94 MD: 8699.00 ft
Inc: 89.26 deg Az: 0.96
deg TVD: 7102.61 ft

S: 95 MD: 8793.00 ft
Inc: 89.56 deg Az: 1.32
deg TVD: 7103.58 ft



S: 96 MD: 8887.00 ft
Inc: 89.73 deg Az: 1.69
deg TVD: 7104.16 ft

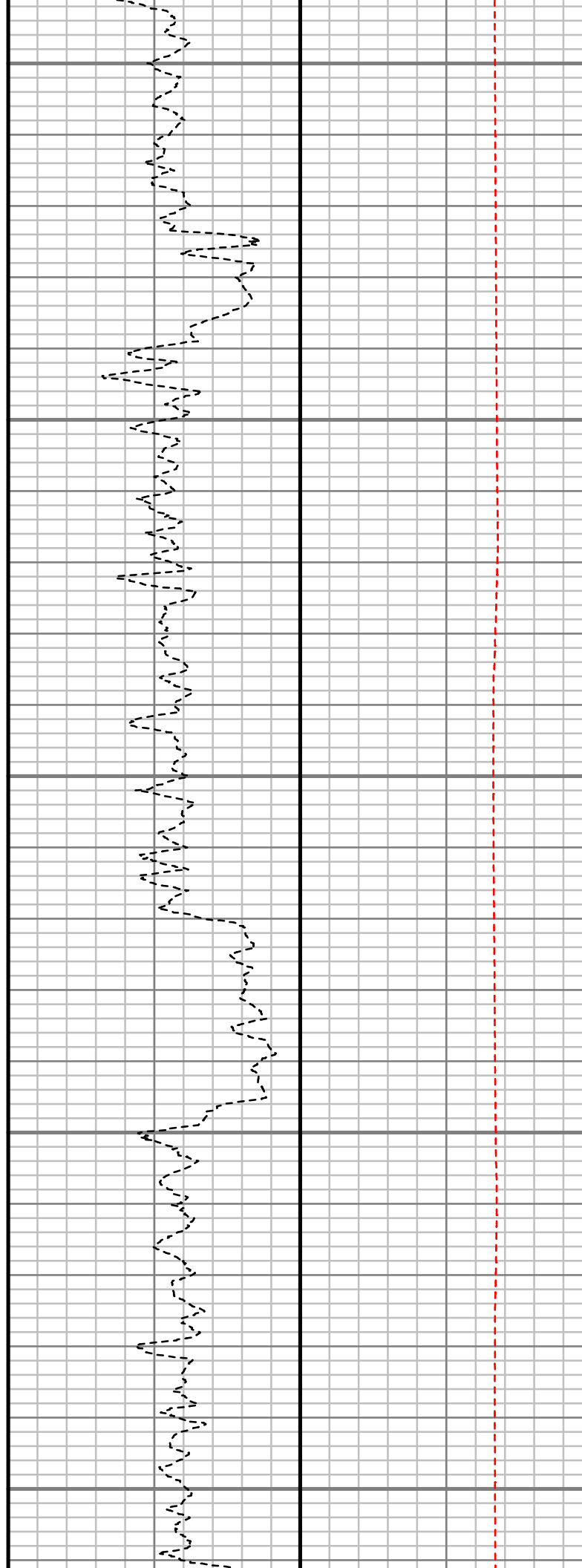
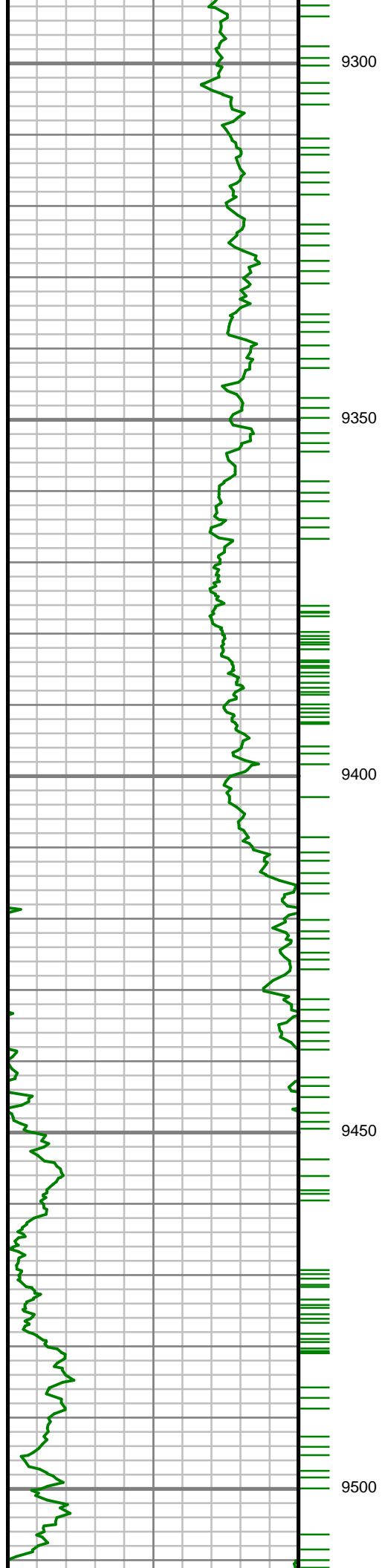
S: 97 MD: 8981.00 ft
Inc: 91.17 deg Az: 0.67
deg TVD: 7103.41 ft



S: 98 MD: 9076.00 ft
Inc: 90.23 deg Az:
359.45 deg TVD:
7102.25 ft

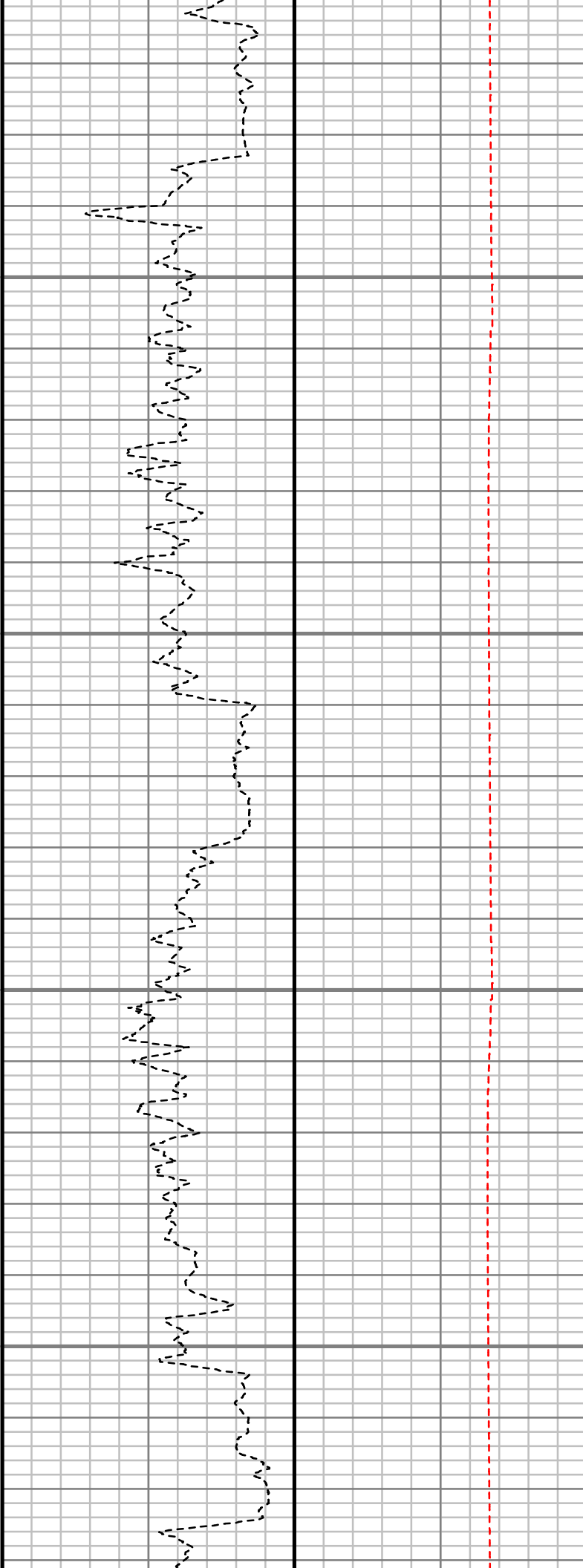
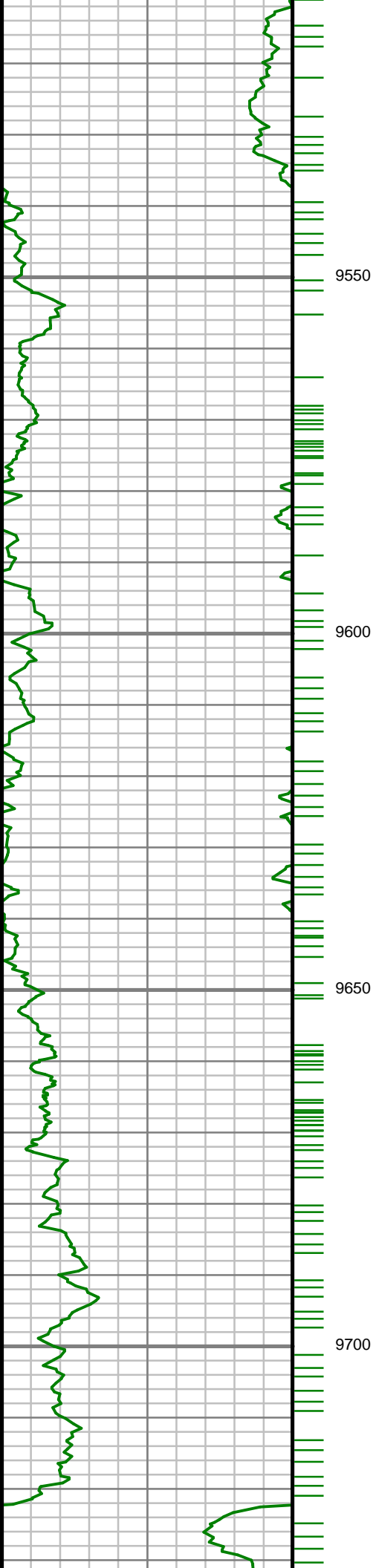
S: 99 MD: 9170.00 ft
Inc: 90.23 deg Az:
358.54 deg TVD:
7101.86 ft

S: 100 MD: 9264.00 ft
Inc: 88.79 deg Az:
359.73 deg TVD:
7102.66 ft



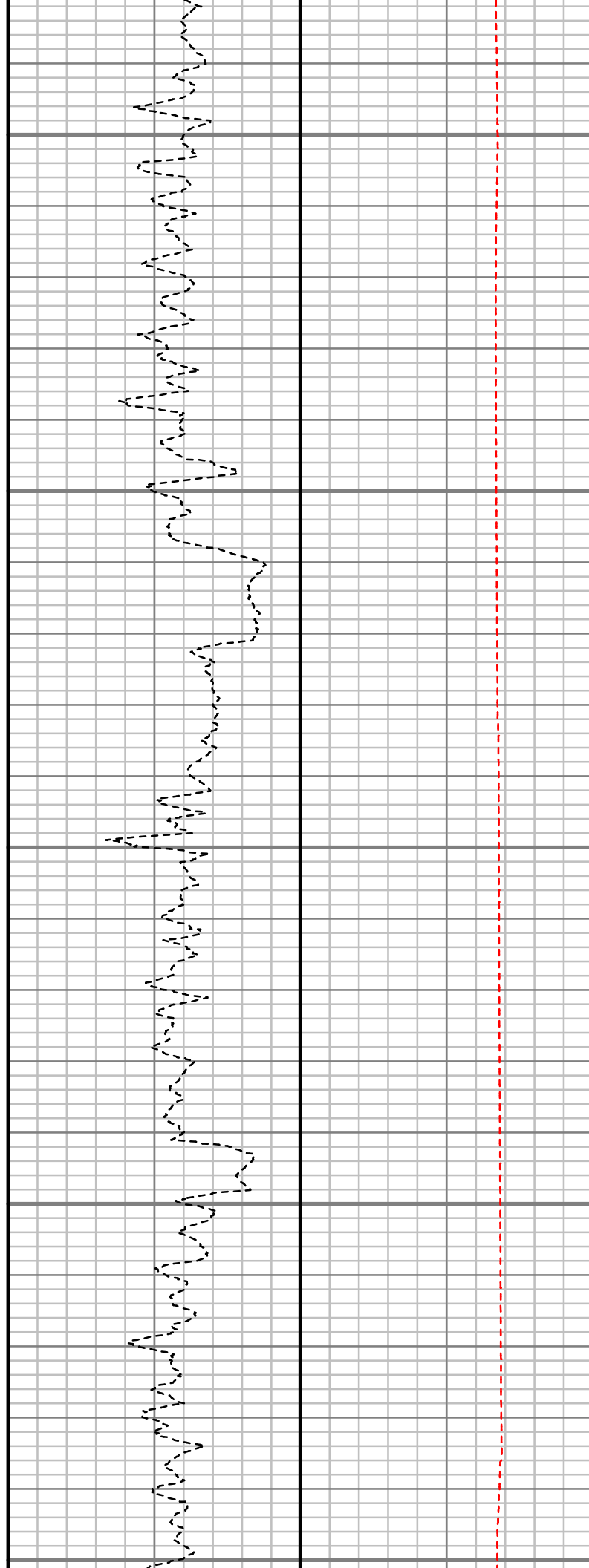
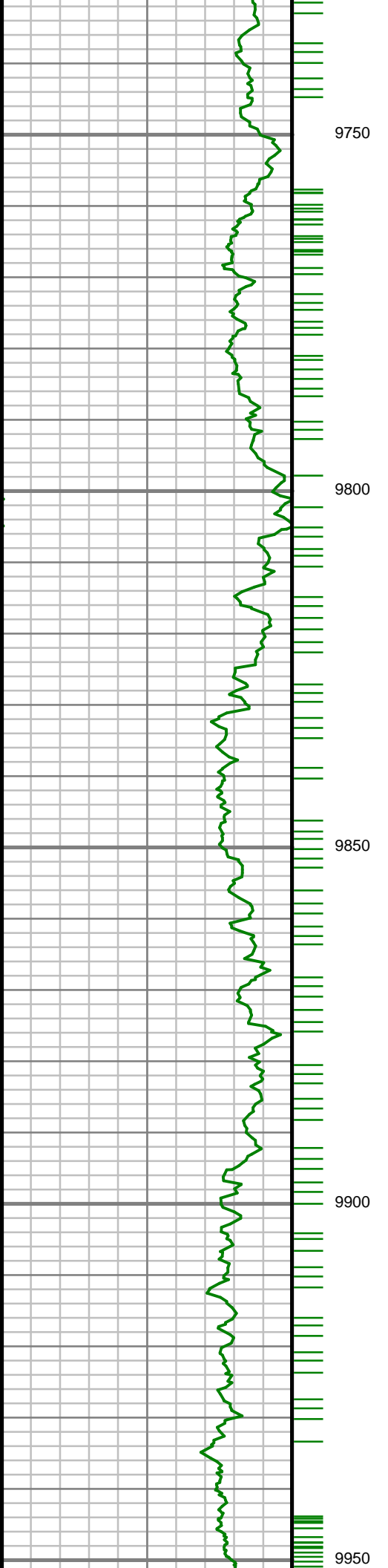
S: 101 MD: 9358.00 ft
Inc: 89.90 deg Az: 0.35
deg TVD: 7103.73 ft

S: 102 MD: 9453.00 ft
Inc: 89.16 deg Az: 0.01
deg TVD: 7104.51 ft



S: 103 MD: 9547.00 ft
Inc: 89.23 deg Az:
358.51 deg TVD:
7105.83 ft

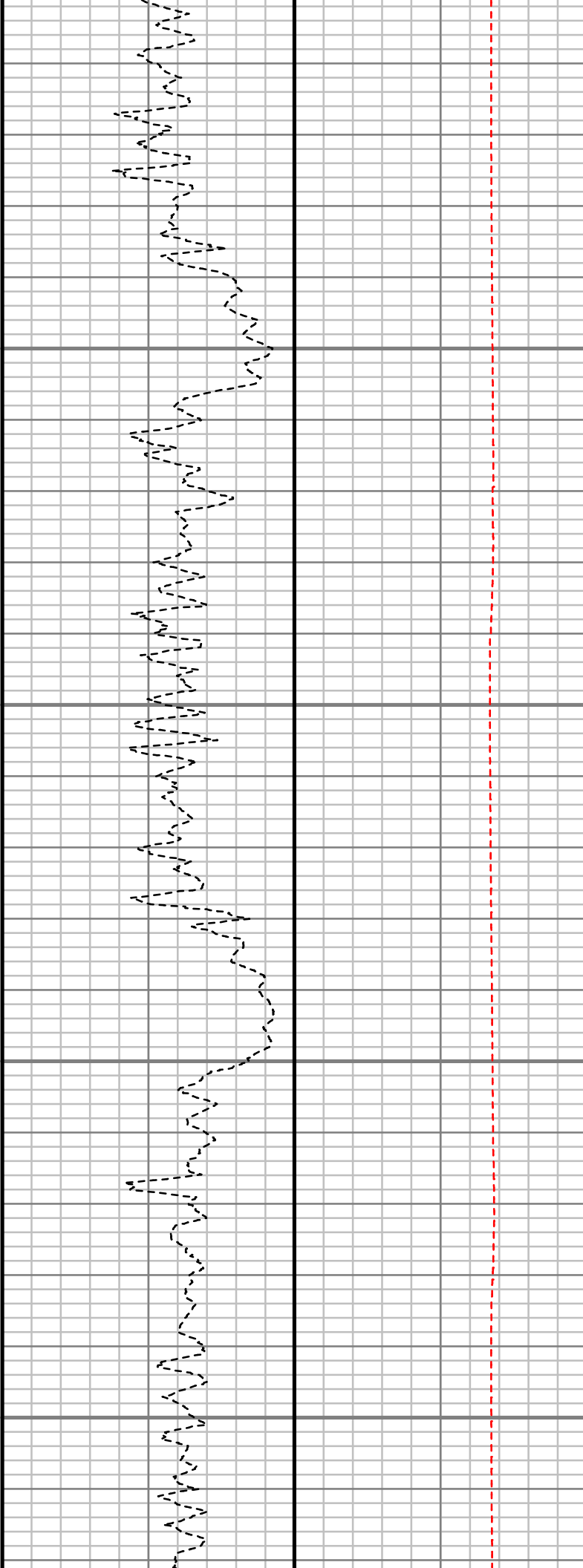
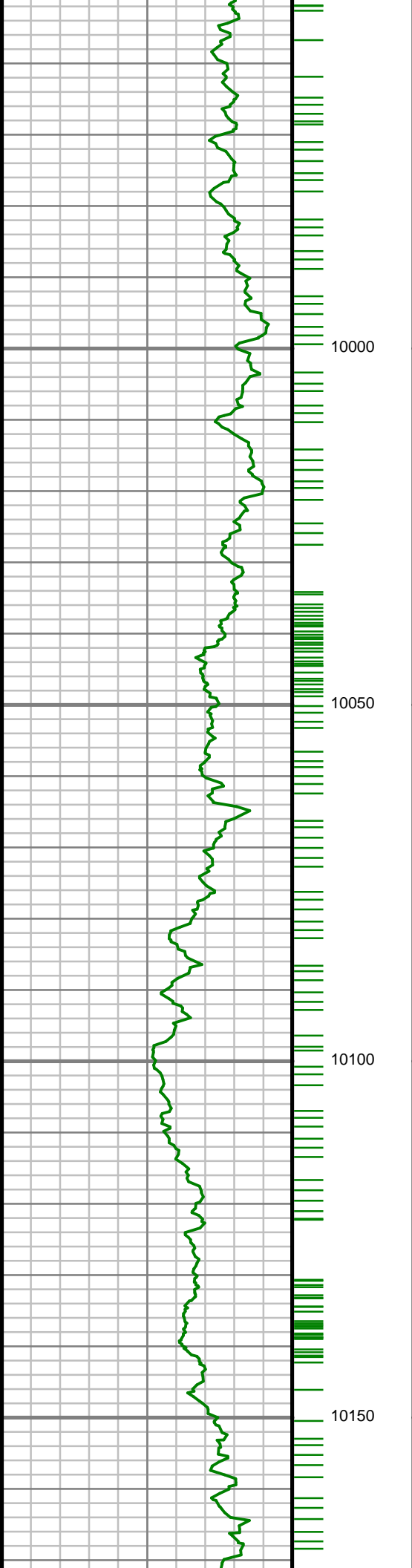
S: 104 MD: 9641.00 ft
Inc: 88.69 deg Az:
357.89 deg TVD:
7107.54 ft



S: 105 MD: 9735.00 ft
Inc: 89.06 deg Az:
358.77 deg TVD:
7109.38 ft

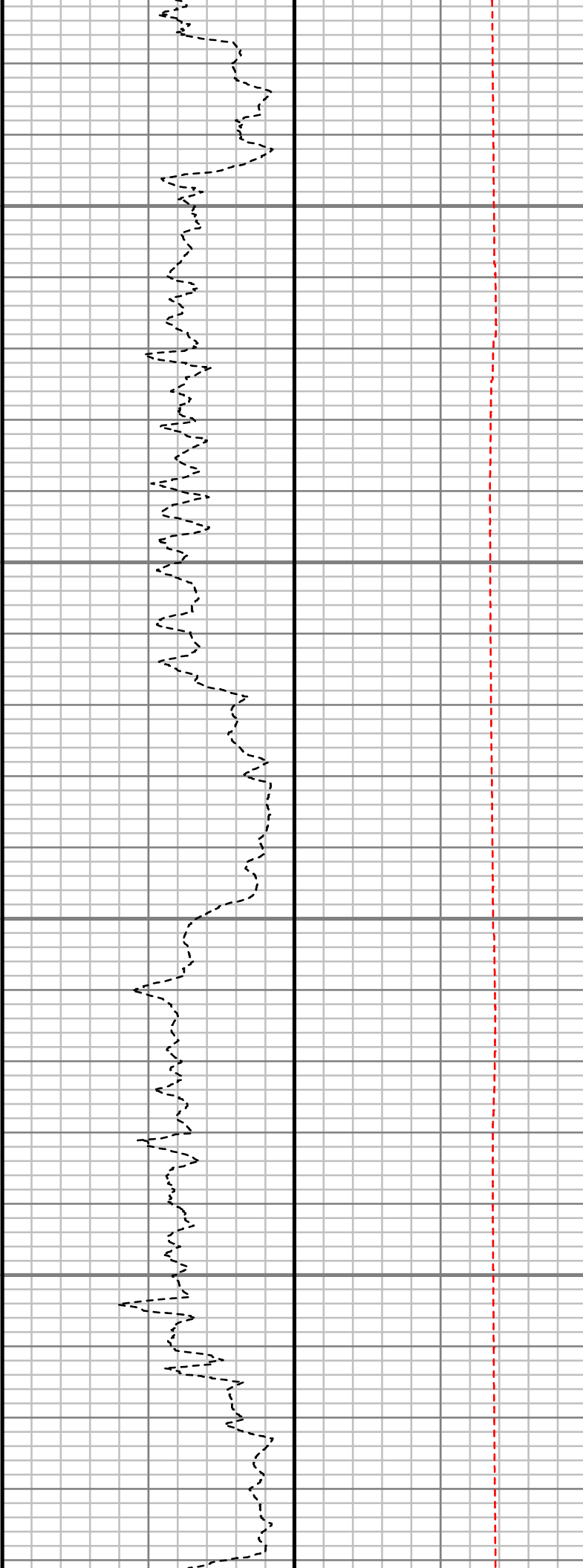
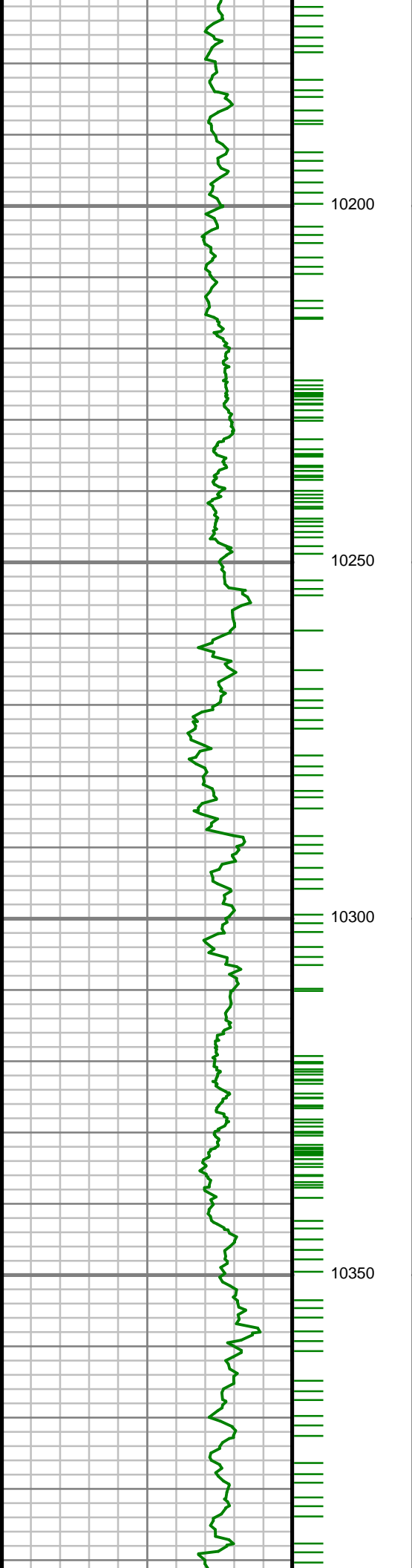
S: 106 MD: 9830.00 ft
Inc: 88.52 deg Az:
358.45 deg TVD:
7111.38 ft

S: 107 MD: 9924.00 ft
Inc: 88.32 deg Az:
358.32 deg TVD:
7113.97 ft



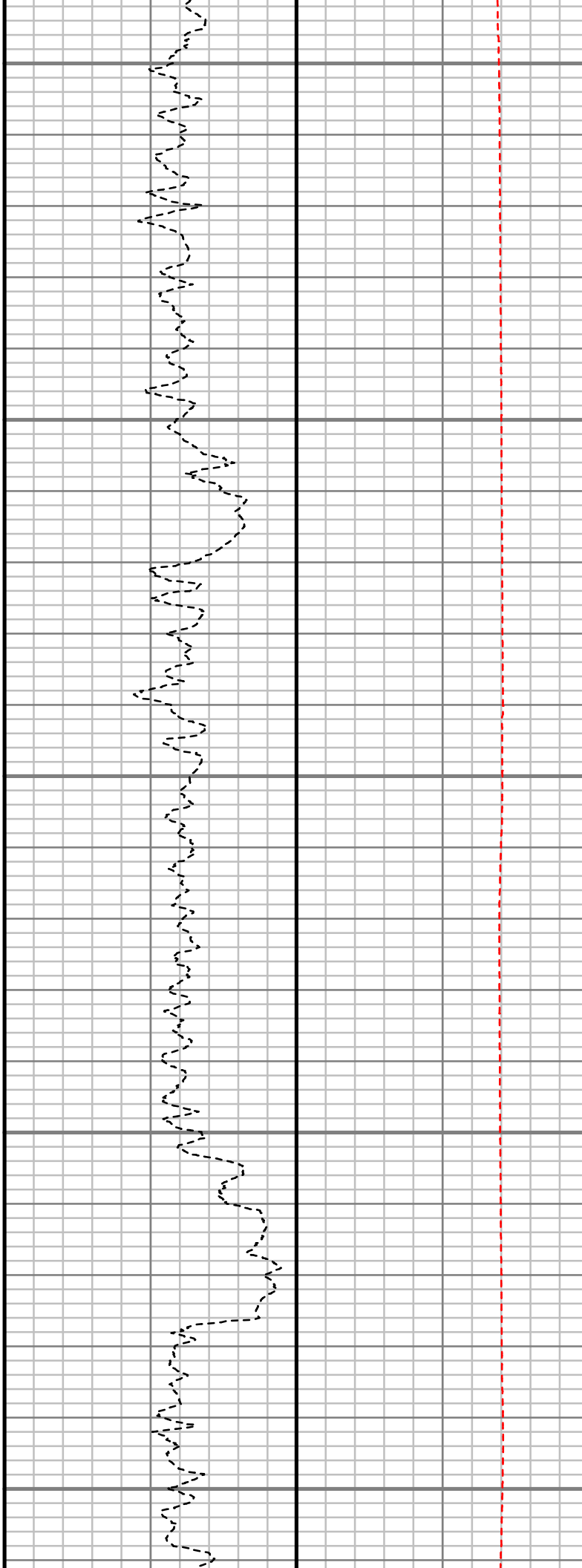
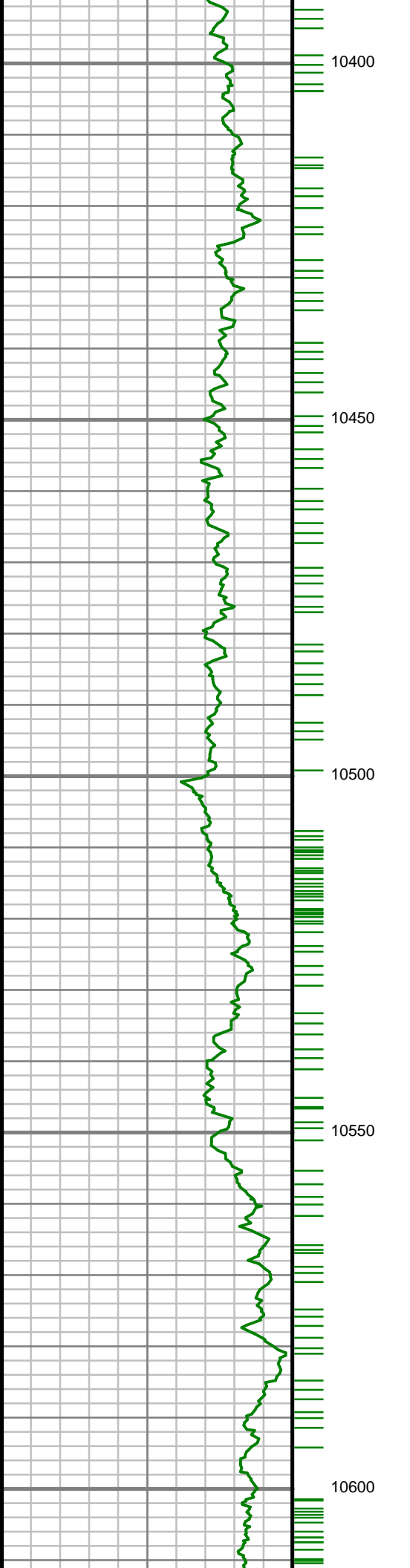
S: 108 MD: 10018.00 ft
Inc: 90.44 deg Az:
358.39 deg TVD:
7114.99 ft

S: 109 MD: 10112.00 ft
Inc: 89.93 deg Az:
358.52 deg TVD:
7114.69 ft



S: 110 MD: 10206.00 ft
Inc: 89.63 deg Az:
357.85 deg TVD:
7115.05 ft

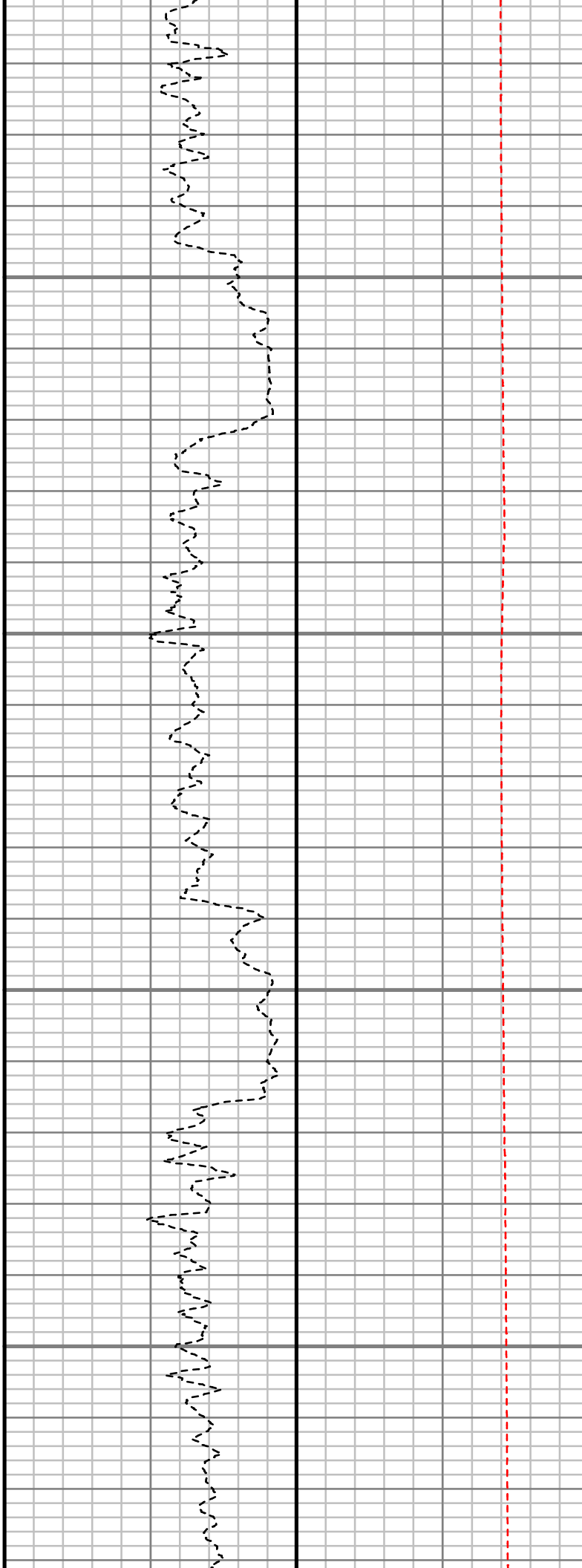
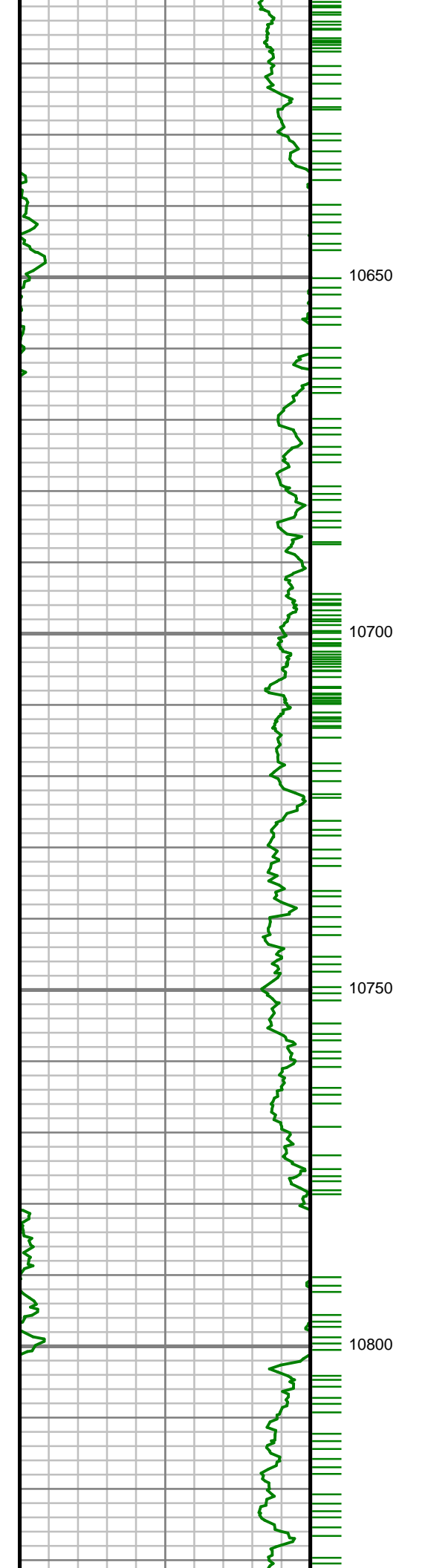
S: 111 MD: 10301.00 ft
Inc: 89.66 deg Az:
358.57 deg TVD:
7115.63 ft



S: 112 MD: 10395.00 ft
Inc: 89.23 deg Az:
359.64 deg TVD:
7116.54 ft

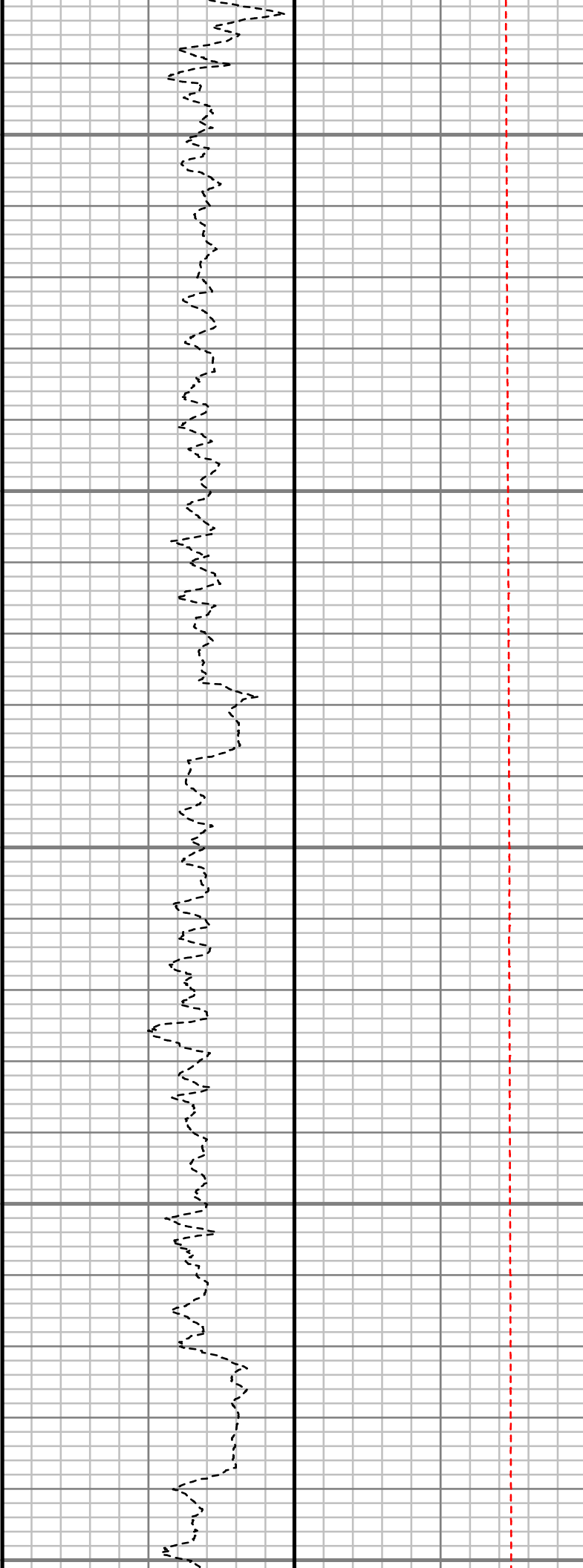
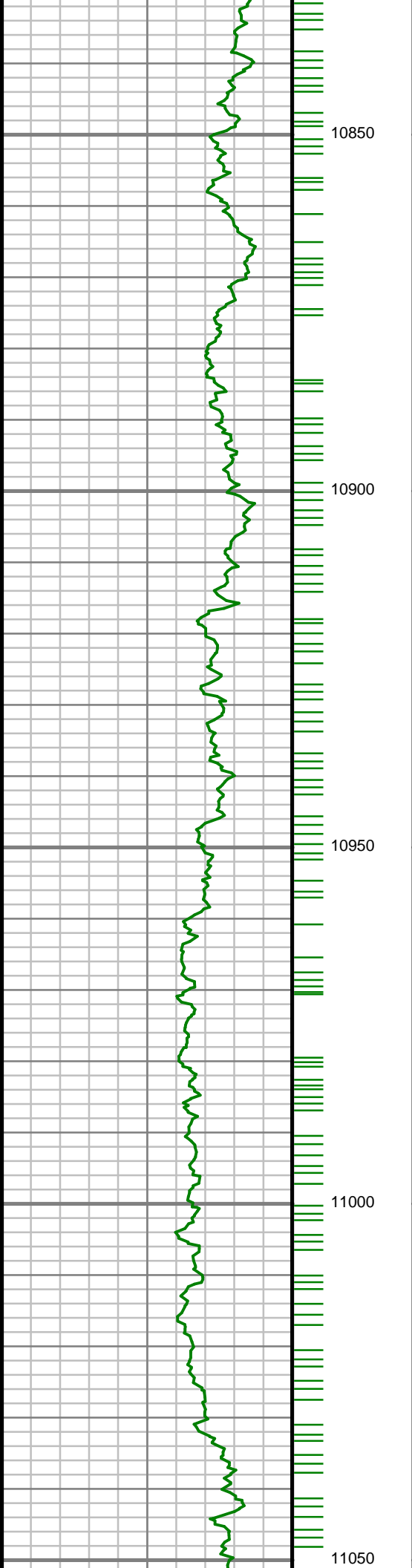
S: 113 MD: 10489.00 ft
Inc: 90.27 deg Az:
359.51 deg TVD:
7116.95 ft

S: 114 MD: 10583.00 ft
Inc: 89.80 deg Az:
359.97 deg TVD:
7116.90 ft



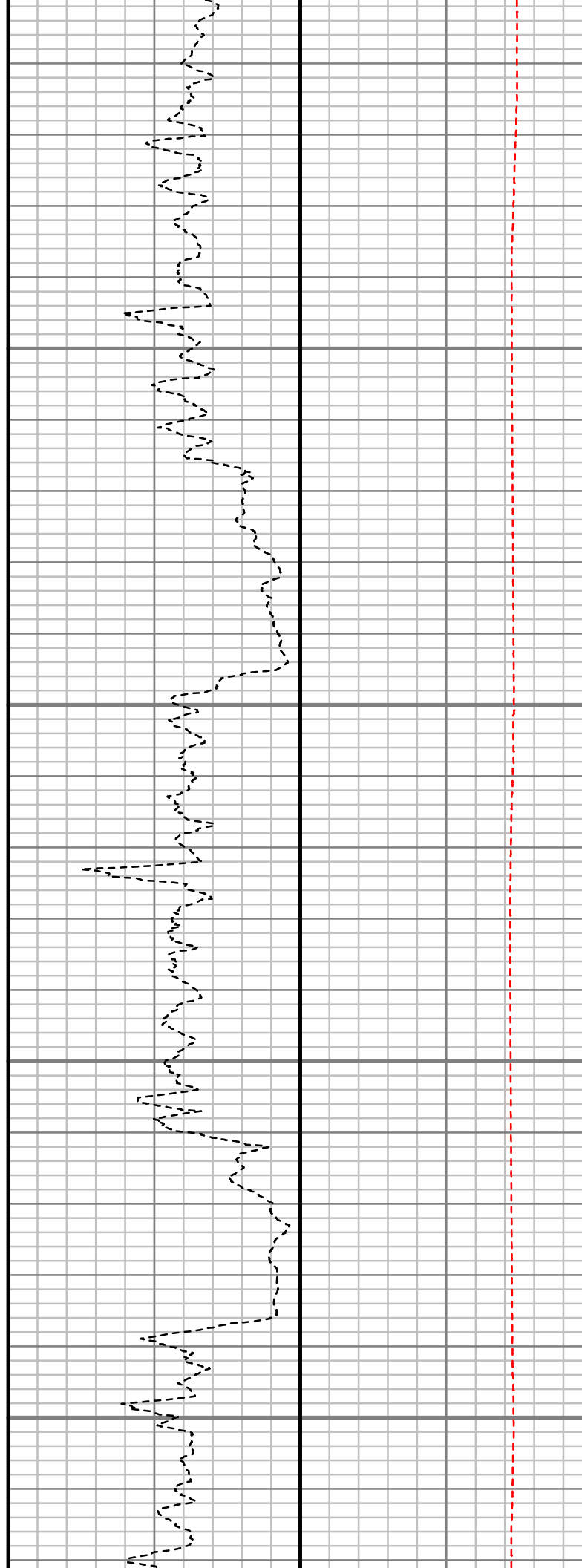
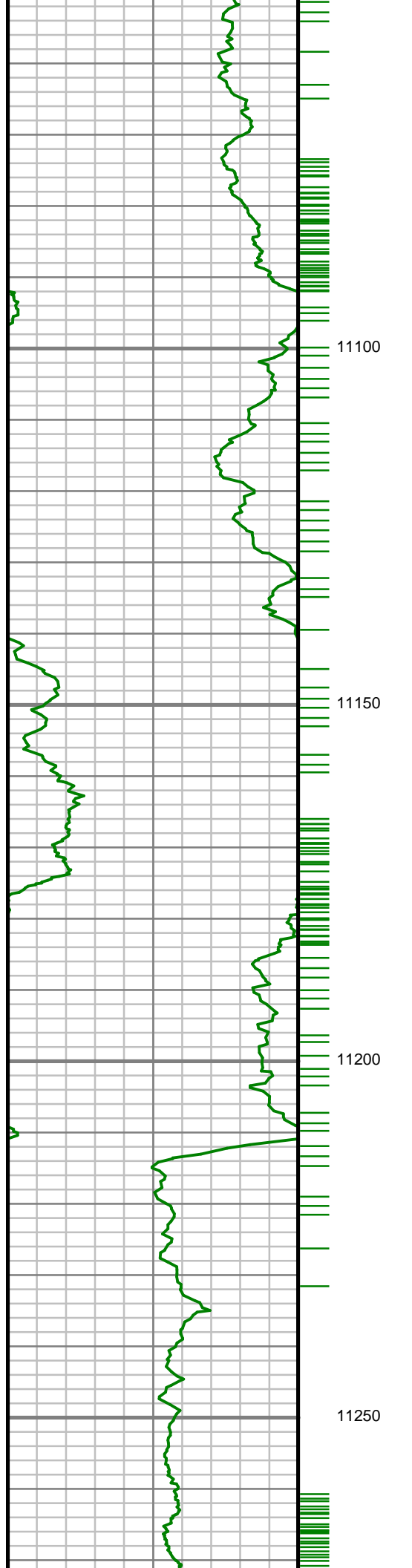
S: 115 MD: 10678.00 ft
Inc: 89.80 deg Az:
359.55 deg TVD:
7117.23 ft

S: 116 MD: 10772.00 ft
Inc: 87.95 deg Az:
359.81 deg TVD:
7119.07 ft



S: 117 MD: 10867.00 ft
Inc: 88.26 deg Az: 0.30
deg TVD: 7122.21 ft

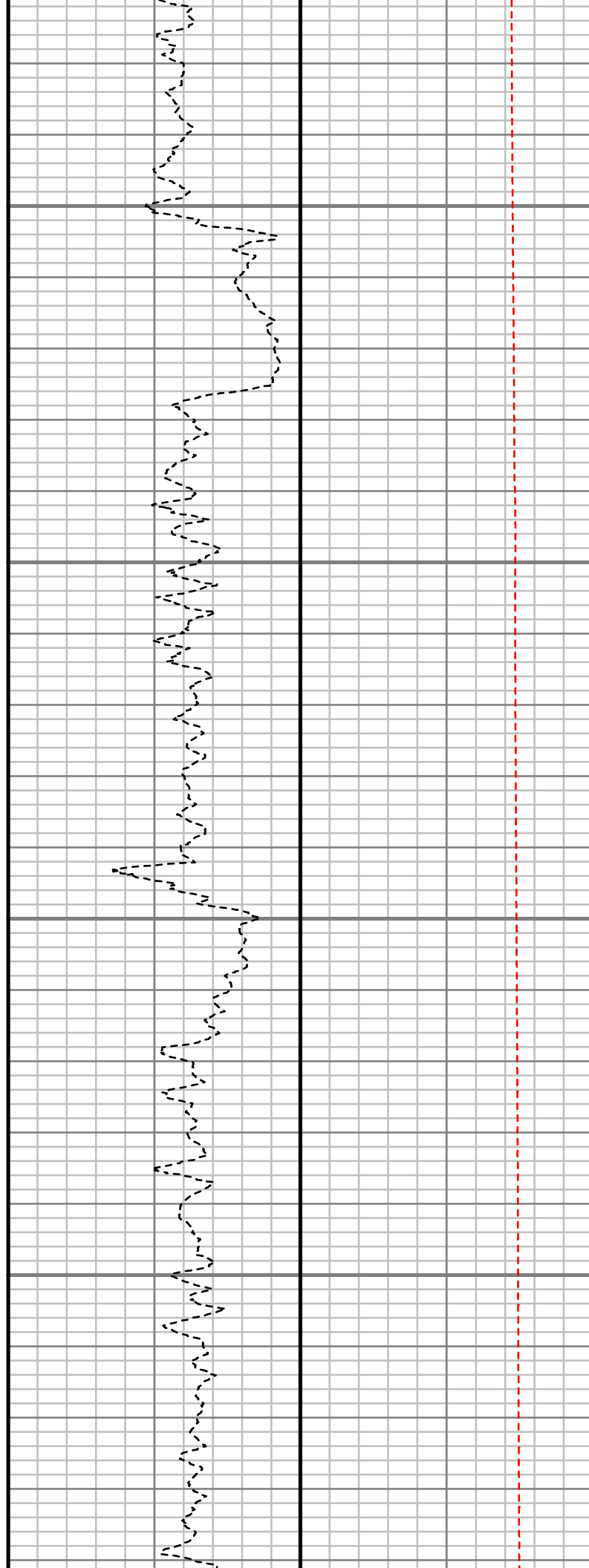
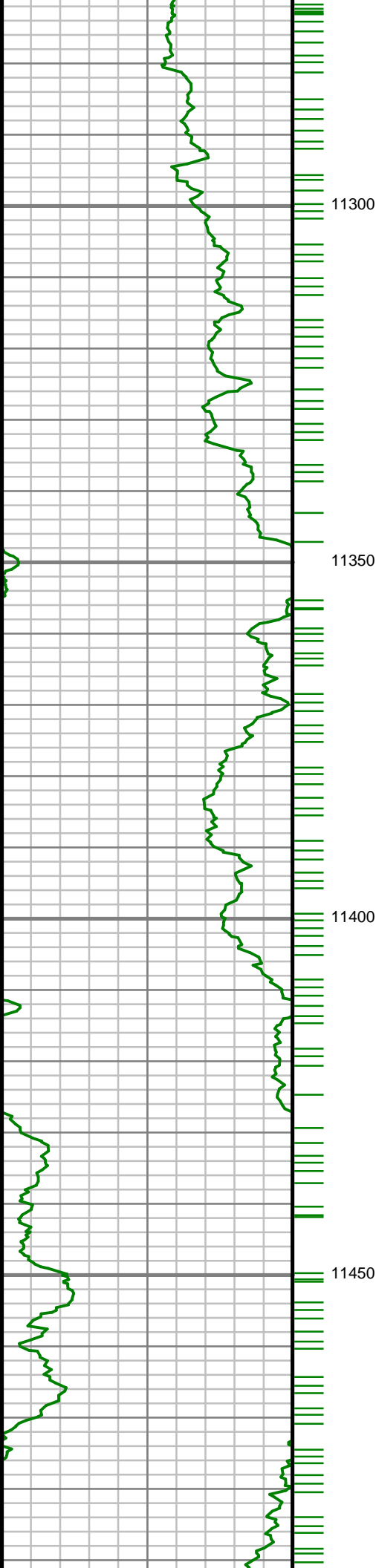
S: 118 MD: 10961.00 ft
Inc: 88.76 deg Az:
359.41 deg TVD:
7124.66 ft



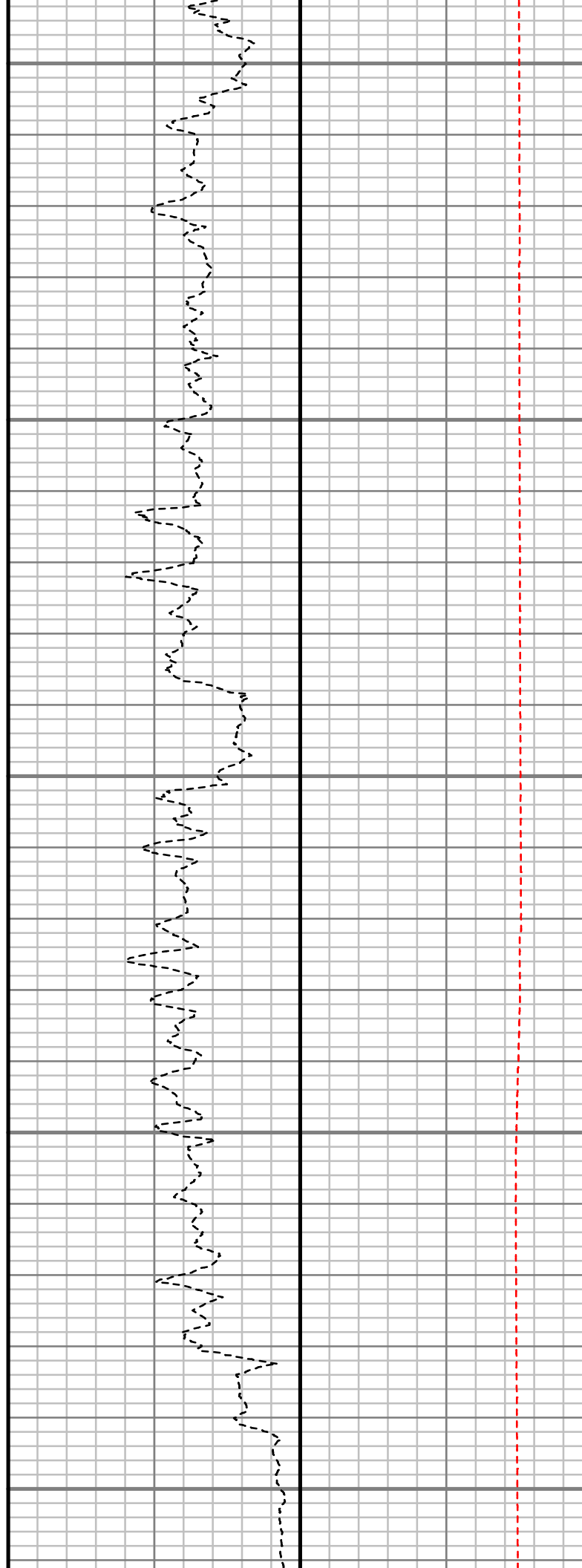
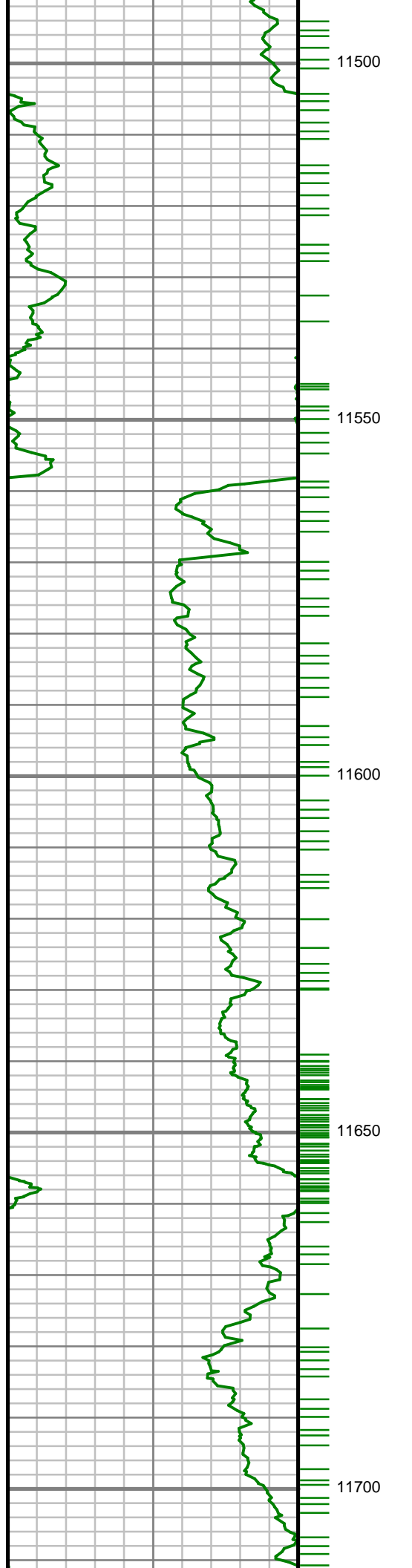
S: 119 MD: 11055.00 ft
Inc: 90.07 deg Az: 0.34
deg TVD: 7125.62 ft

S: 120 MD: 11149.00 ft
Inc: 89.57 deg Az: 0.93
deg TVD: 7125.92 ft

S: 121 MD: 11244.00 ft
Inc: 88.76 deg Az: 2.23
deg TVD: 7127.31 ft

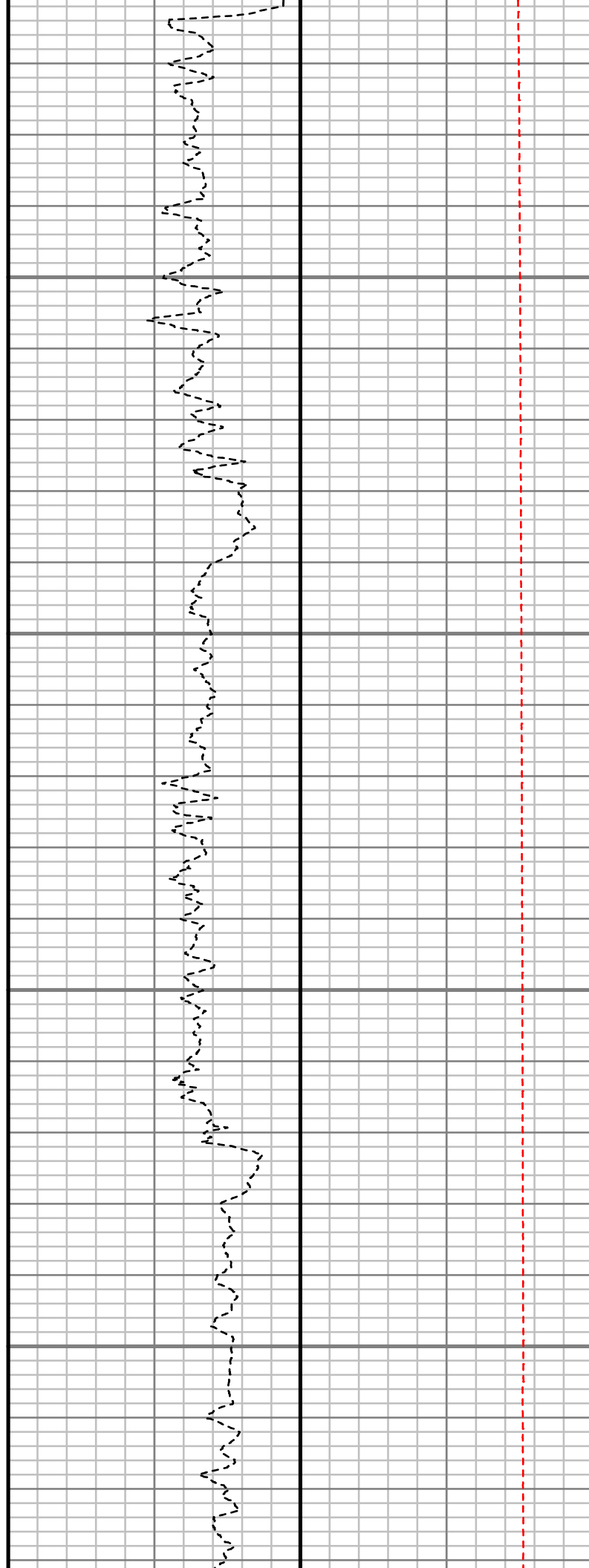
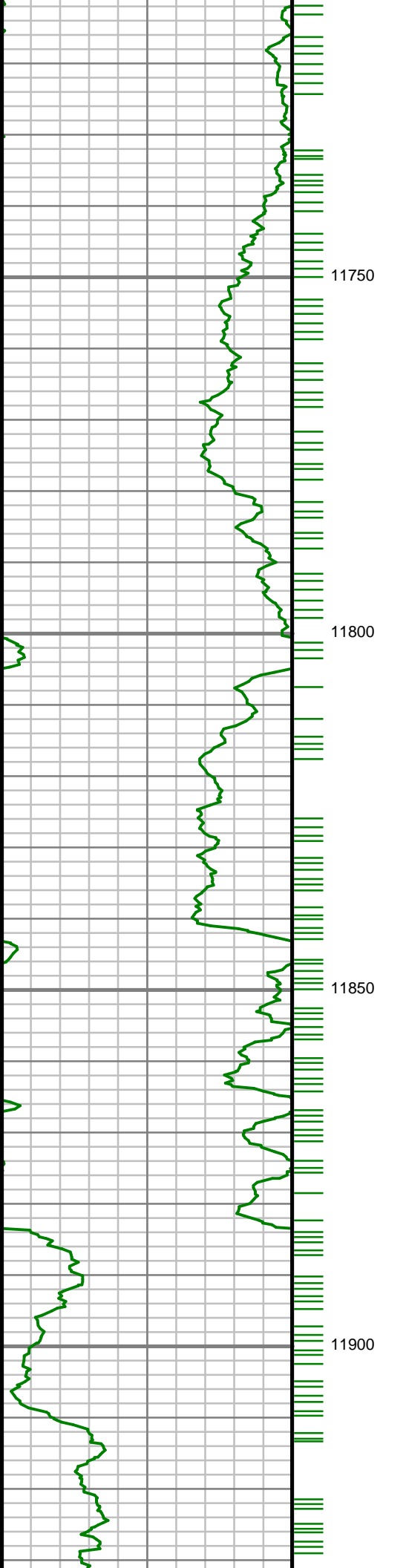


S: 122 MD: 11432.00 ft
Inc: 89.26 deg Az: 1.93
deg TVD: 7130.56 ft



S: 123 MD: 11526.00 ft
Inc: 89.66 deg Az: 2.10
deg TVD: 7131.44 ft

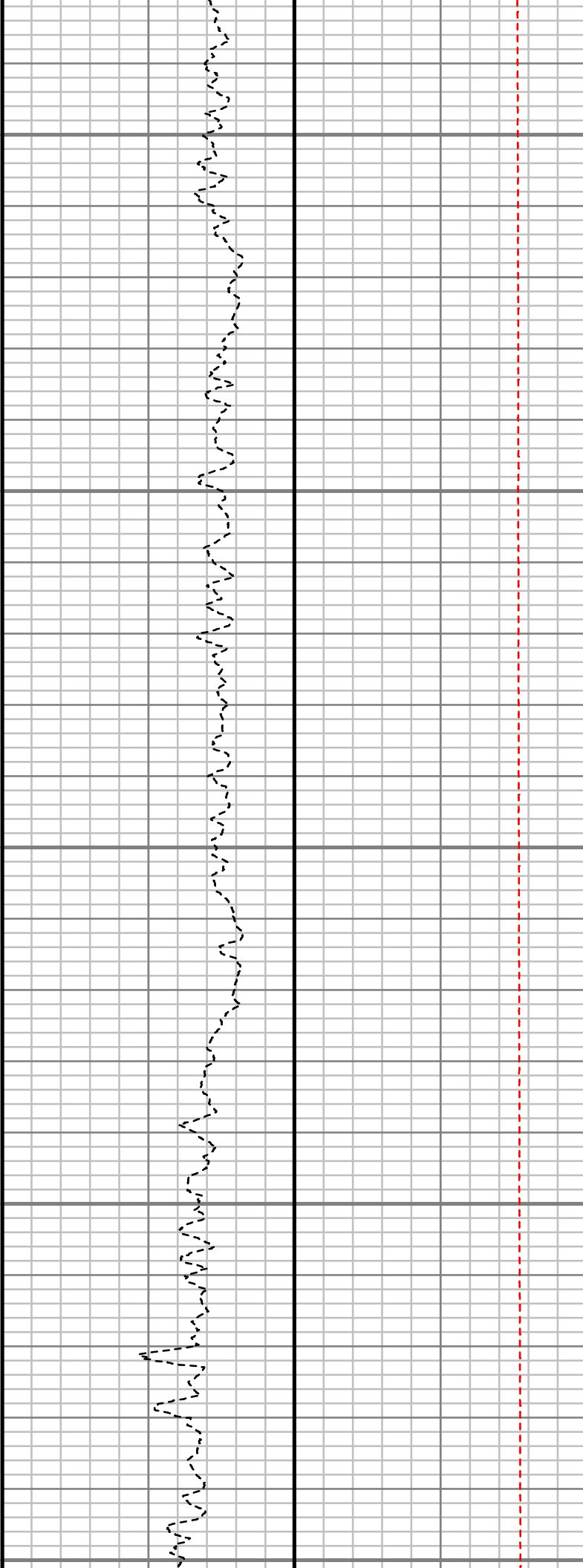
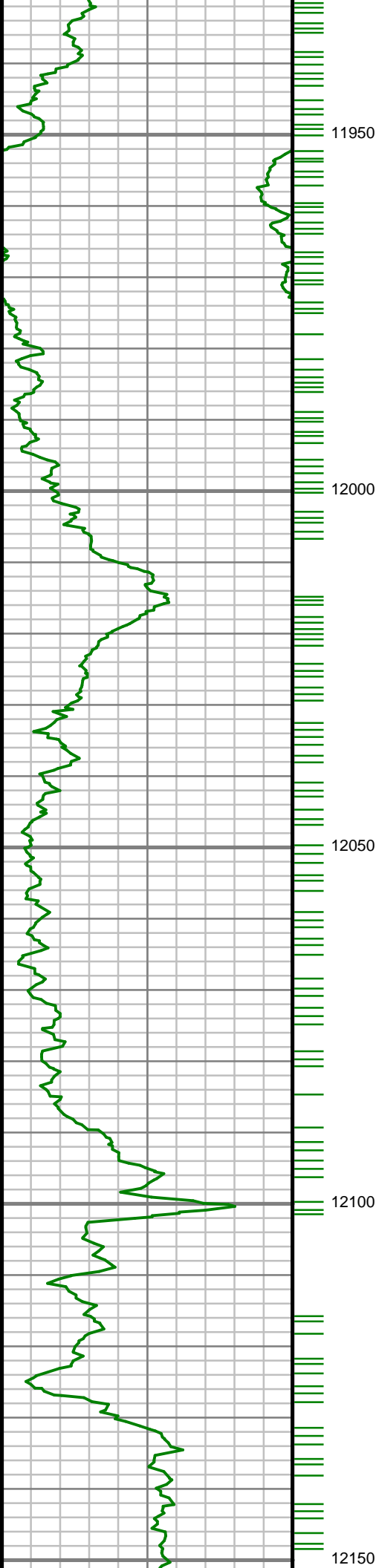
S: 124 MD: 11620.00 ft
Inc: 90.54 deg Az: 1.74
deg TVD: 7131.28 ft



S: 125 MD: 11715.00 ft
Inc: 89.36 deg Az: 2.32
deg TVD: 7131.36 ft

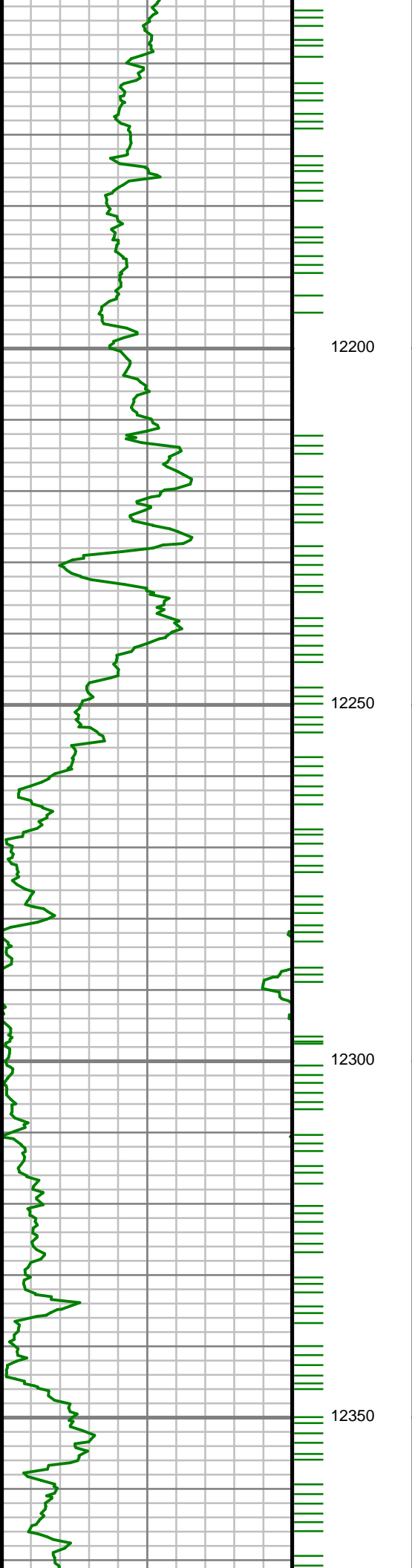
S: 126 MD: 11809.00 ft
Inc: 89.36 deg Az: 2.13
deg TVD: 7132.41 ft

S: 127 MD: 11903.00 ft
Inc: 89.23 deg Az: 1.93
deg TVD: 7133.56 ft



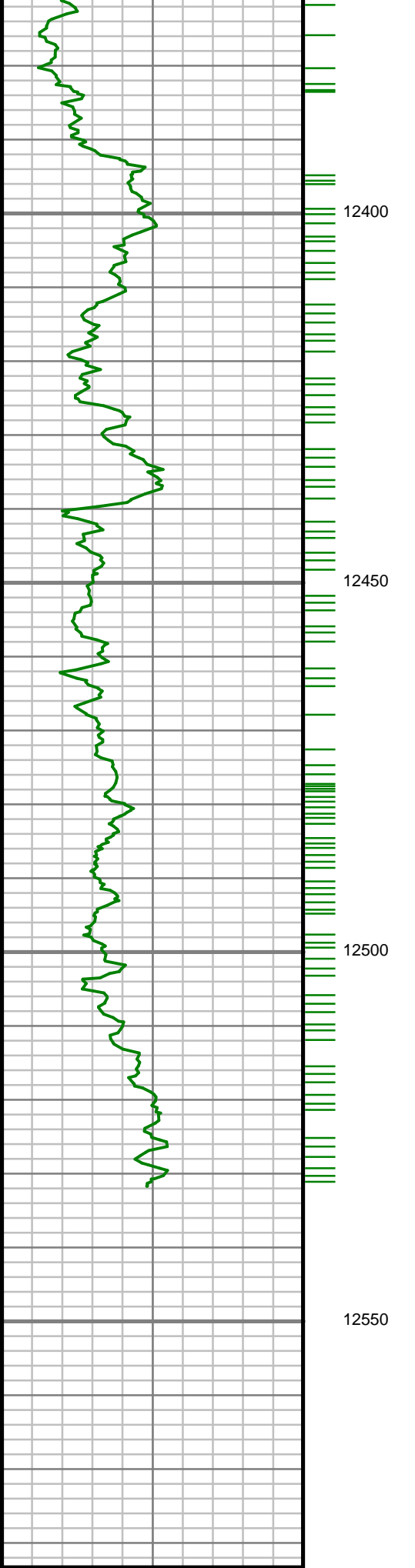
S: 128 MD: 11997.00 ft
Inc: 89.16 deg Az: 1.95
deg TVD: 7134.89 ft

S: 129 MD: 12091.00 ft
Inc: 89.56 deg Az: 2.21
deg TVD: 7135.93 ft

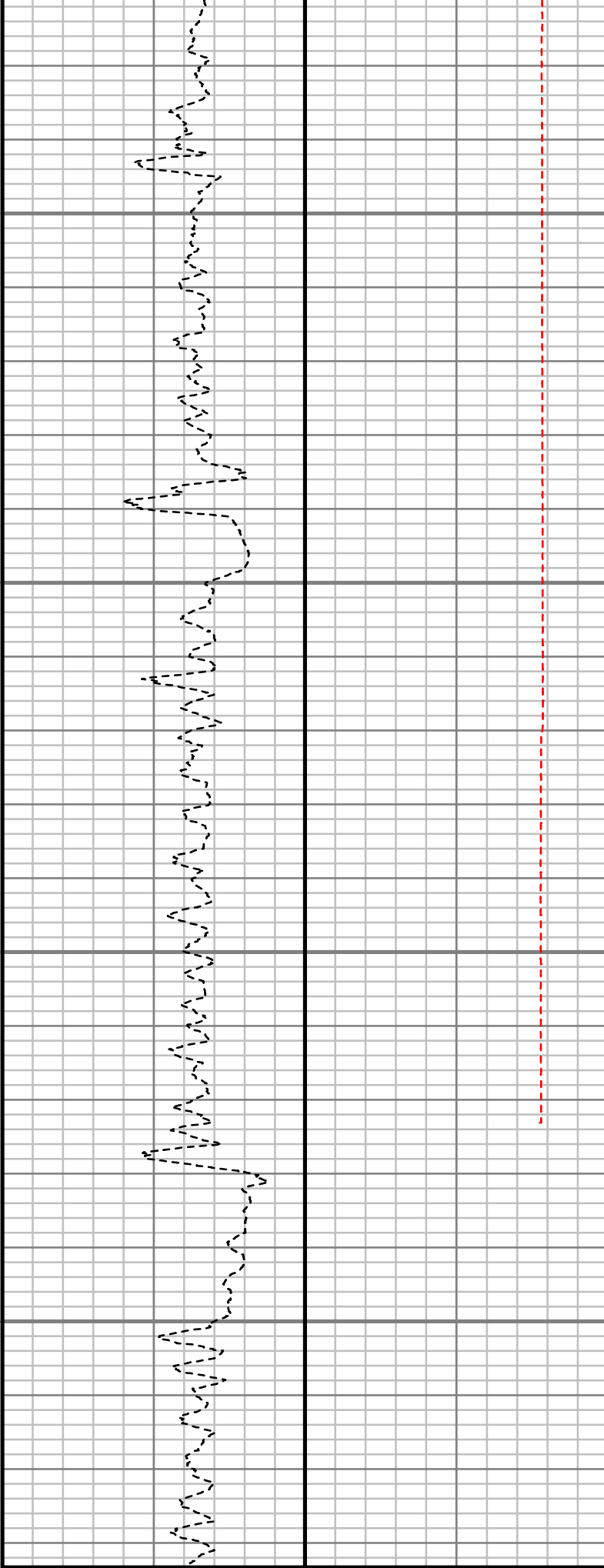


S: 130 MD: 12186.00 ft
Inc: 89.93 deg Az: 1.78
deg TVD: 7136.35 ft

S: 131 MD: 12280.00 ft
Inc: 90.34 deg Az: 1.85
deg TVD: 7136.13 ft



Gamma Ray (GR)
150 Units 200



Rate of Penetration (ROP)
1000 Units ft/hr 2000

S: 132 MD: 12374.00 ft
Inc: 90.80 deg Az: 0.77
deg TVD: 7135.20 ft

S: 133 MD: 12468.00 ft
Inc: 91.24 deg Az: 0.99
deg TVD: 7133.52 ft

S: 134 MD: 12521.00 ft
Inc: 91.41 deg Az: 0.09
deg TVD: 7132.30 ft

Tool Temperature (T-TEMP)
200 Units 250 300

150 Unit = aapi 300	1000 Unit = ft/hr 0	0 Unit = °F 300	Comments
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RED DEPTH
(ft)



GAMMA RAY

5" = 100' FEET MD