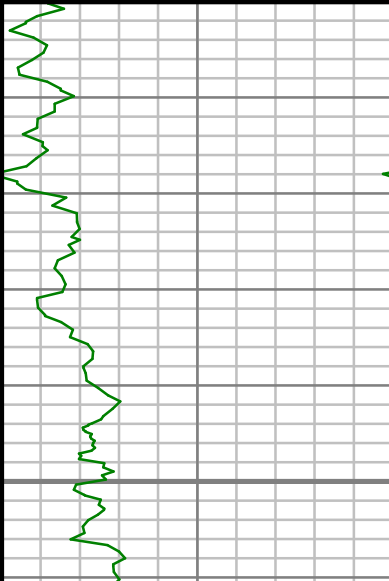

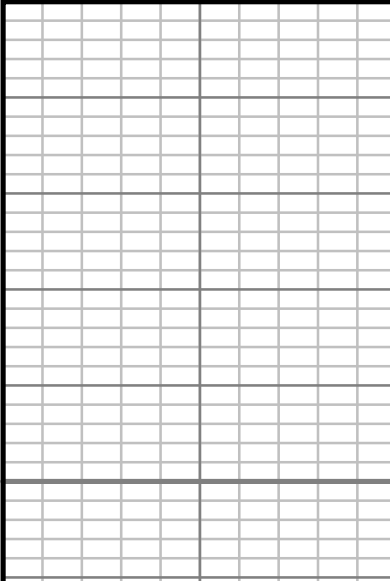
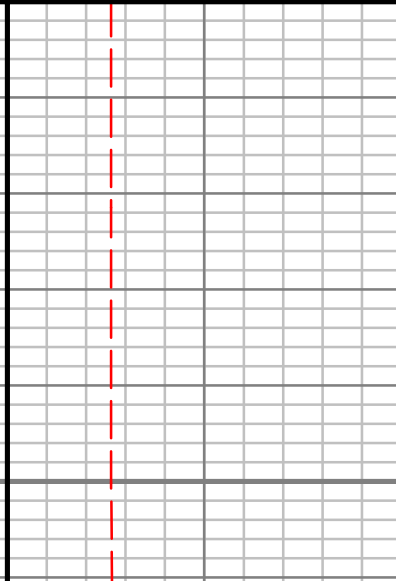
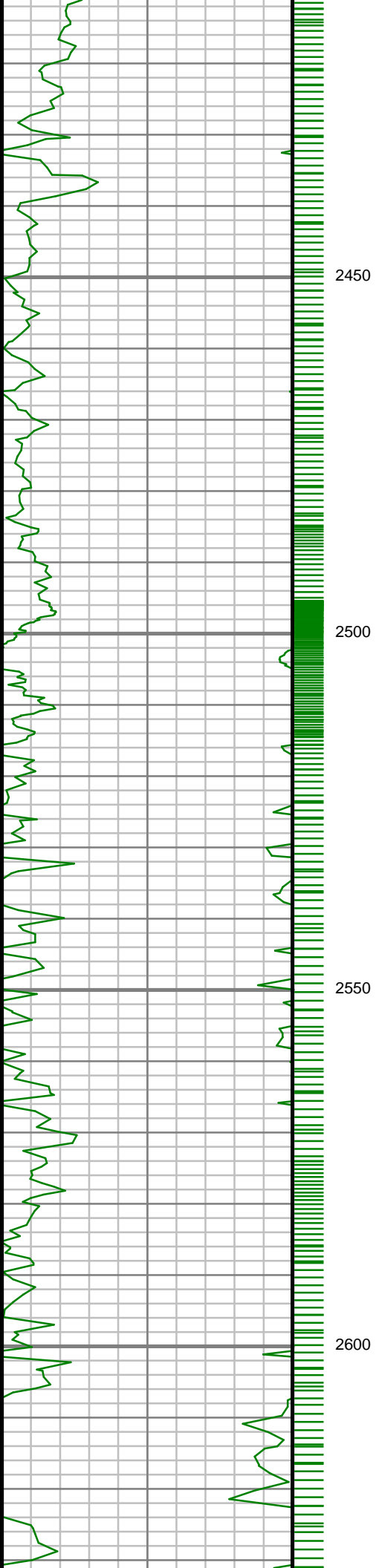


[illegible]

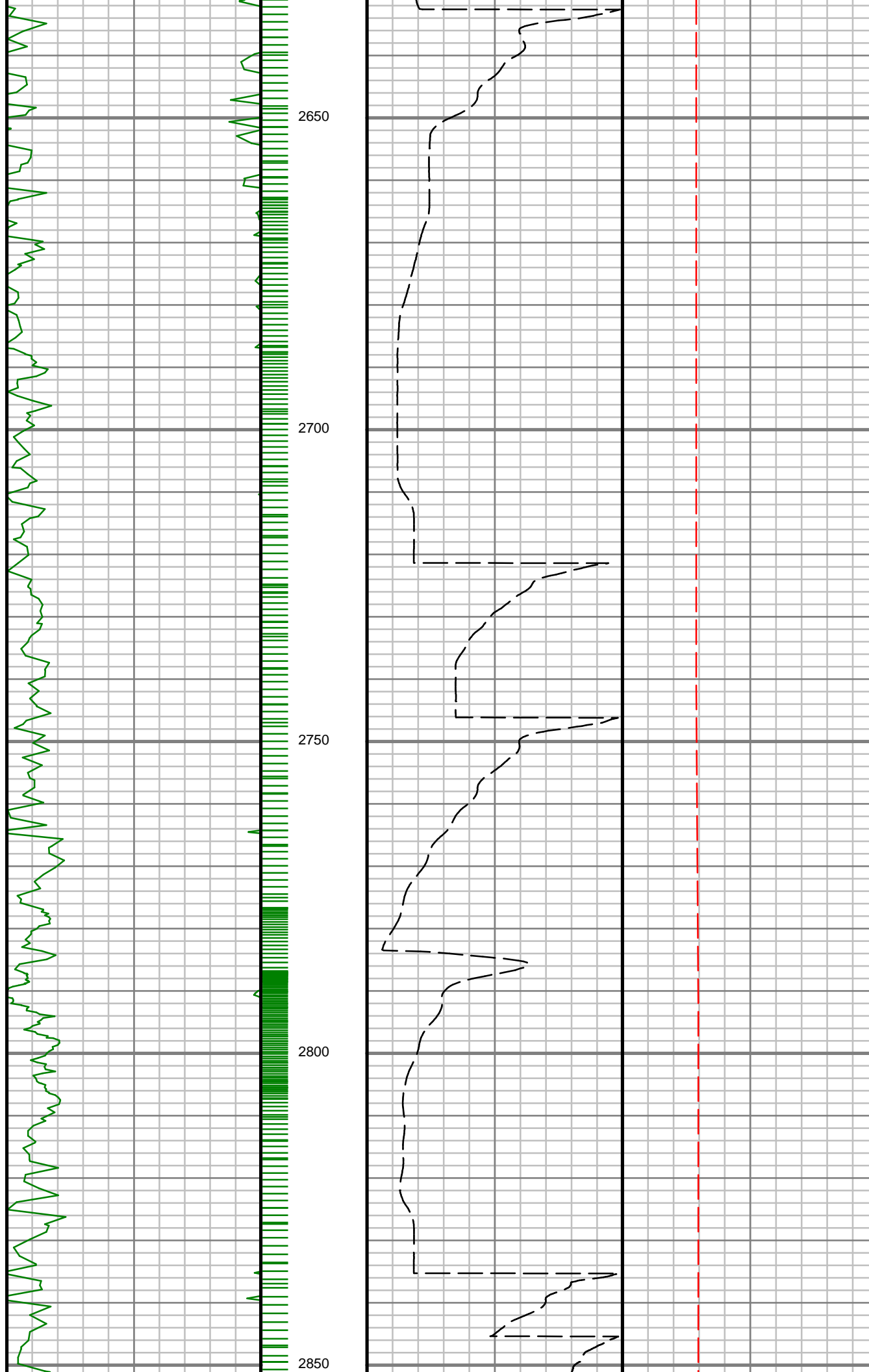
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

ANADARKO E&P ONSHORE LLC HERGENREDER 5N-4HZ WATTENBERG FIELD WELD COUNTY, COLORADO API # 05123458600000				
Gamma Ray (GR) 150 Unit = aapi 300	MEASURED DEPTH 1:240 (ft)	Rate of Penetration (ROP) 1000 Unit = ft/hr 0	Tool Temperature (TEMP) 0 Unit = °F 300	Comments
				S: 68 MD: 2398.00 ft Inc: 3.50 deg Az: 314.17 deg TVD: 2373.67 ft



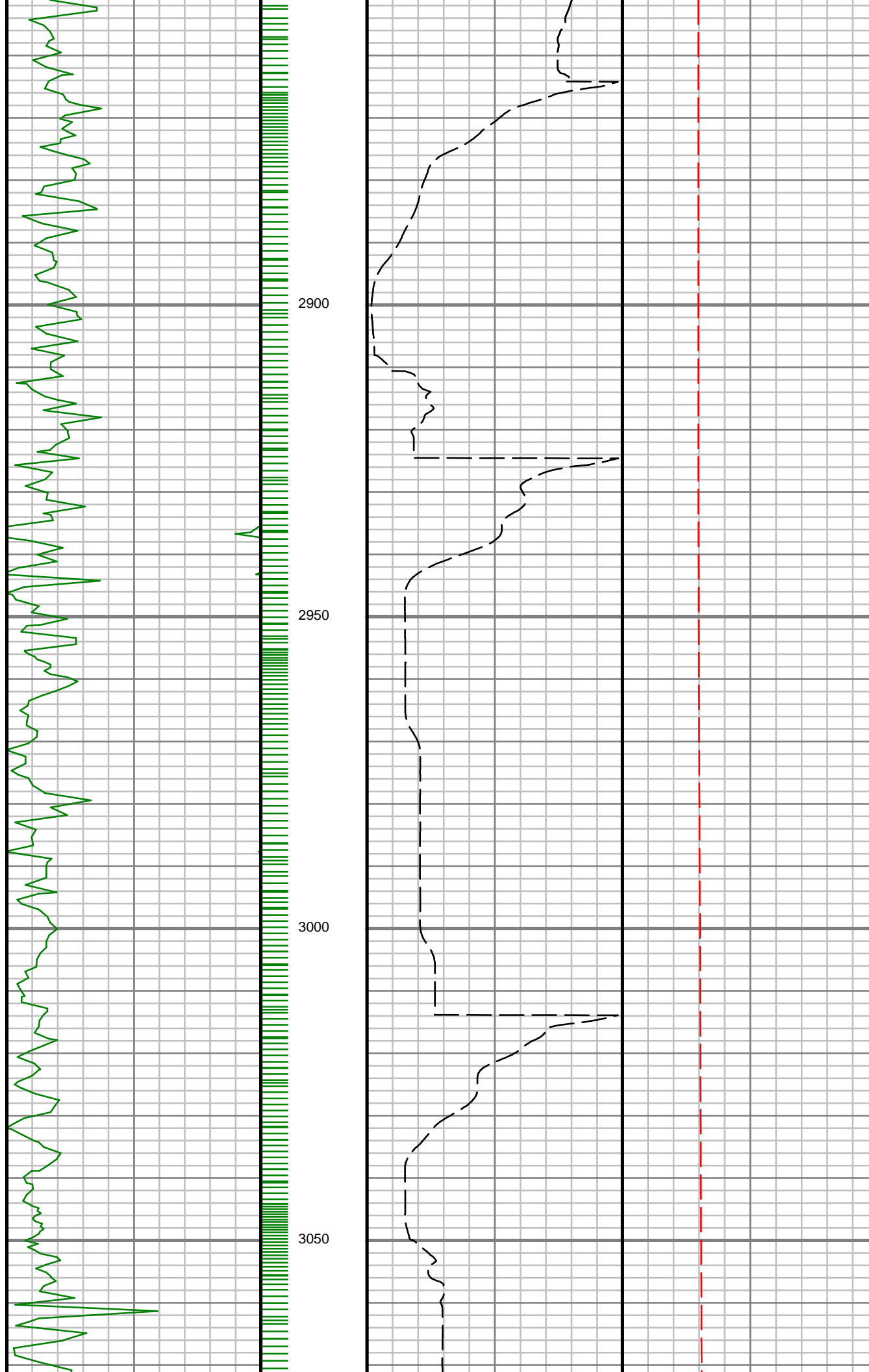
S: 69 MD: 2487.00 ft
Inc: 3.18 deg Az:
310.83 deg TVD:
2462.52 ft

S: 70 MD: 2575.00 ft
Inc: 0.67 deg Az:
278.88 deg TVD:
2550.46 ft



S: 71 MD: 2690.00 ft
Inc: 0.90 deg Az:
265.12 deg TVD:
2665.45 ft

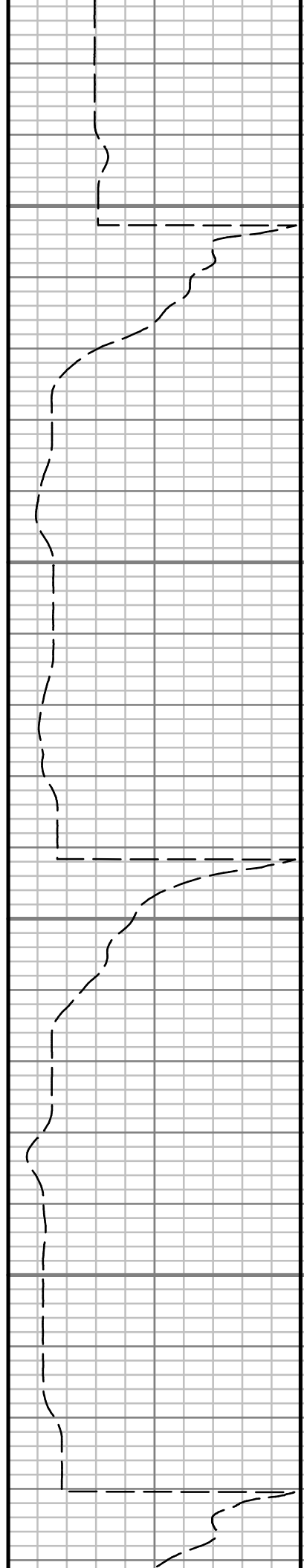
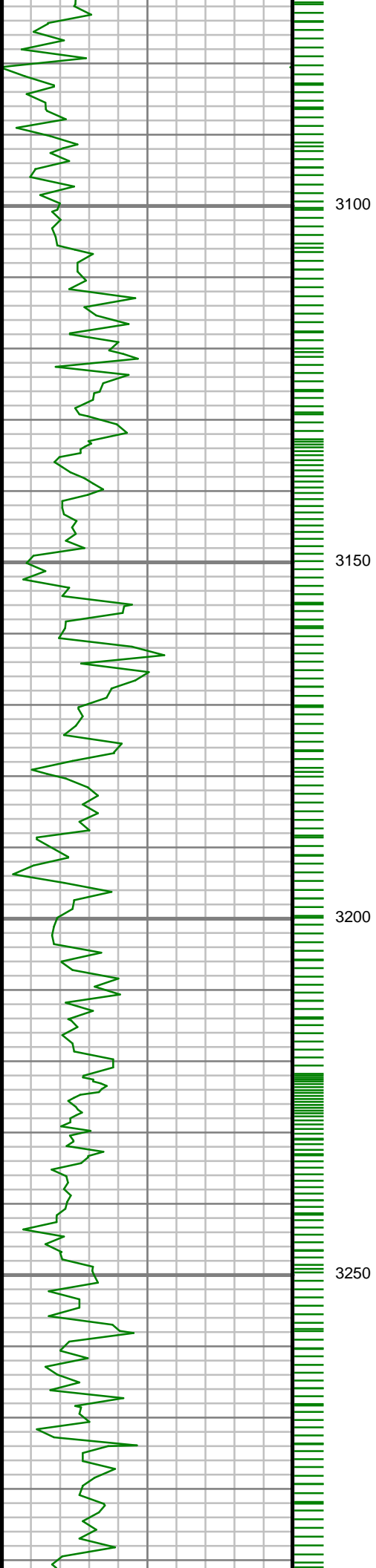
S: 72 MD: 2779.00 ft
Inc: 1.01 deg Az:
263.80 deg TVD:
2754.44 ft



S: 73 MD: 2868.00 ft
Inc: 1.27 deg Az:
105.53 deg TVD:
2843.43 ft

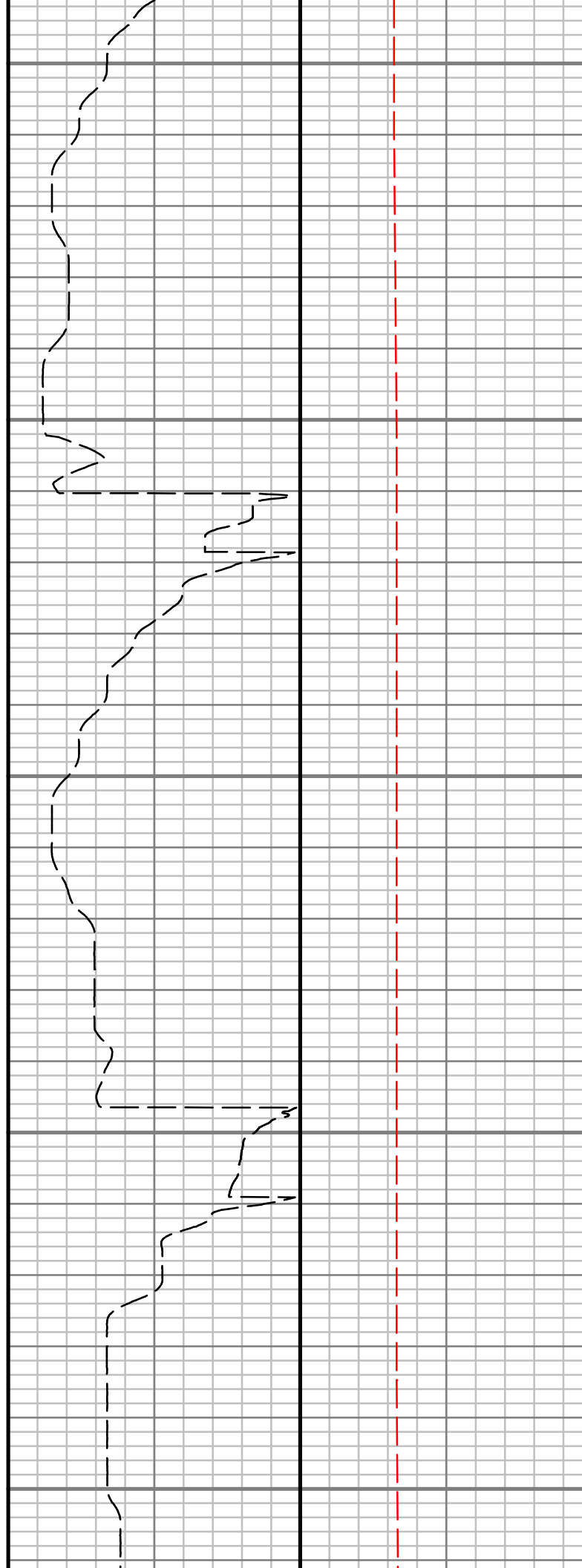
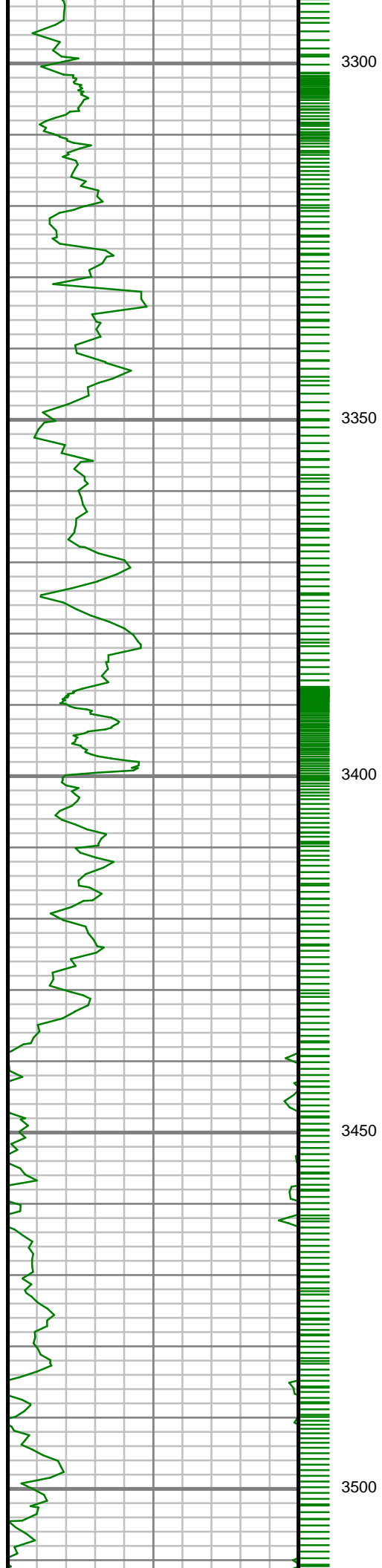
S: 74 MD: 2957.00 ft
Inc: 0.89 deg Az:
137.48 deg TVD:
2932.42 ft

S: 75 MD: 3045.00 ft
Inc: 0.66 deg Az:
109.64 deg TVD:
3020.41 ft



S: 76 MD: 3134.00 ft
Inc: 0.46 deg Az: 98.09
deg TVD: 3109.41 ft

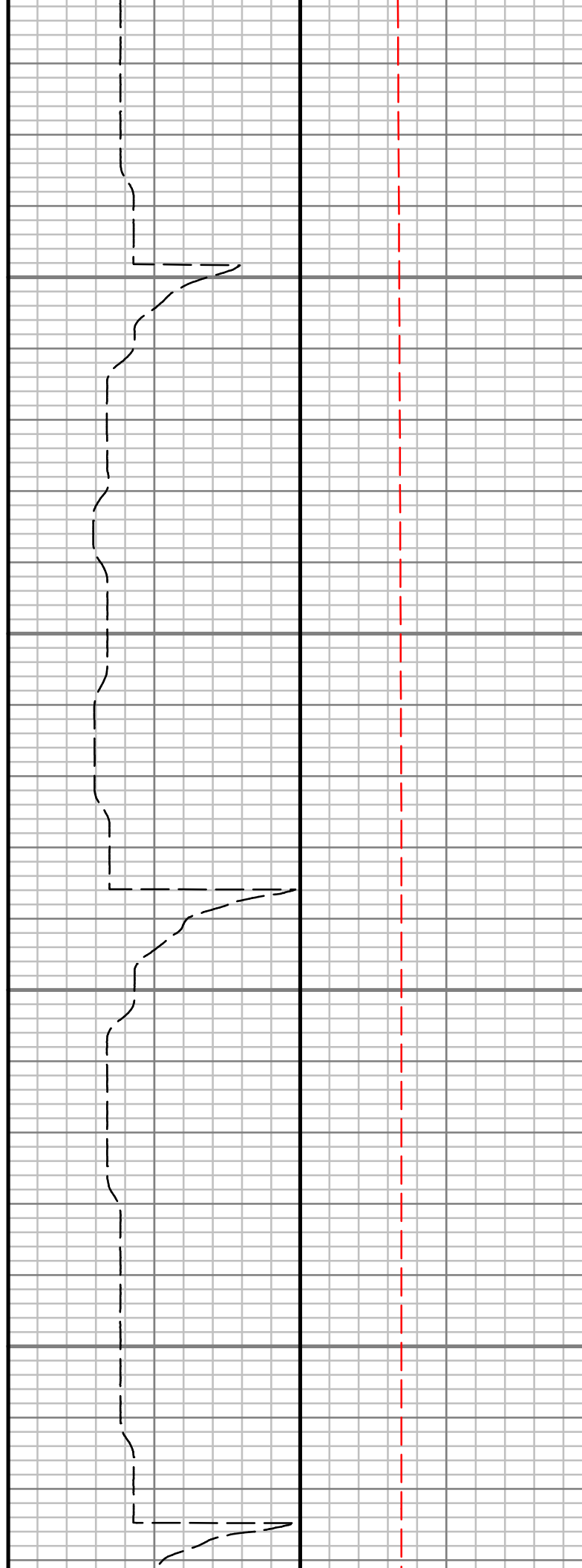
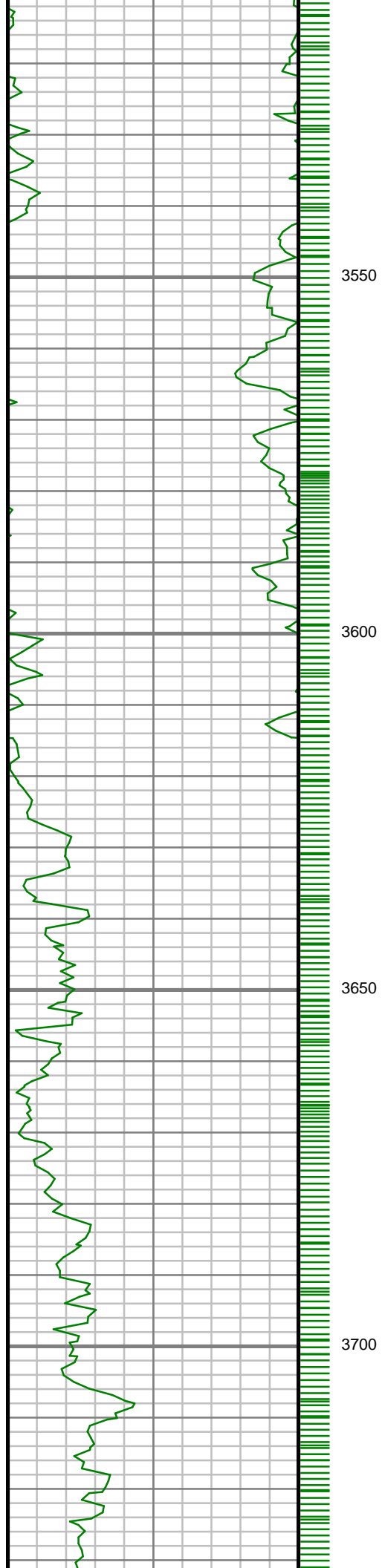
S: 77 MD: 3223.00 ft
Inc: 0.47 deg Az: 29.31
deg TVD: 3198.40 ft



S: 78 MD: 3312.00 ft
Inc: 0.37 deg Az:
322.25 deg TVD:
3287.40 ft

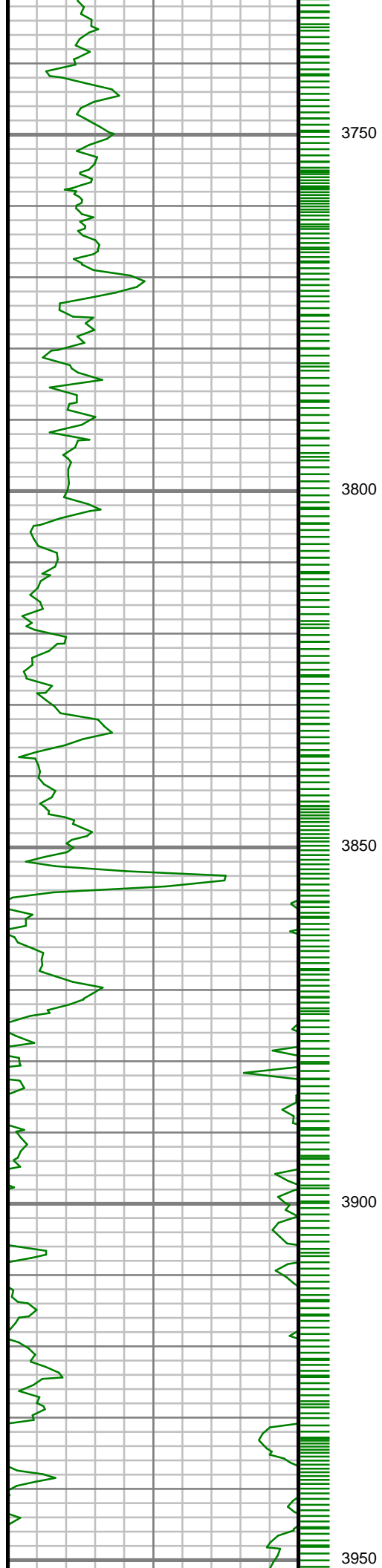
S: 79 MD: 3401.00 ft
Inc: 0.51 deg Az:
311.07 deg TVD:
3376.40 ft

S: 80 MD: 3490.00 ft
Inc: 1.61 deg Az:
118.13 deg TVD:
3465.39 ft



S: 81 MD: 3579.00 ft
Inc: 1.51 deg Az:
116.89 deg TVD:
3554.36 ft

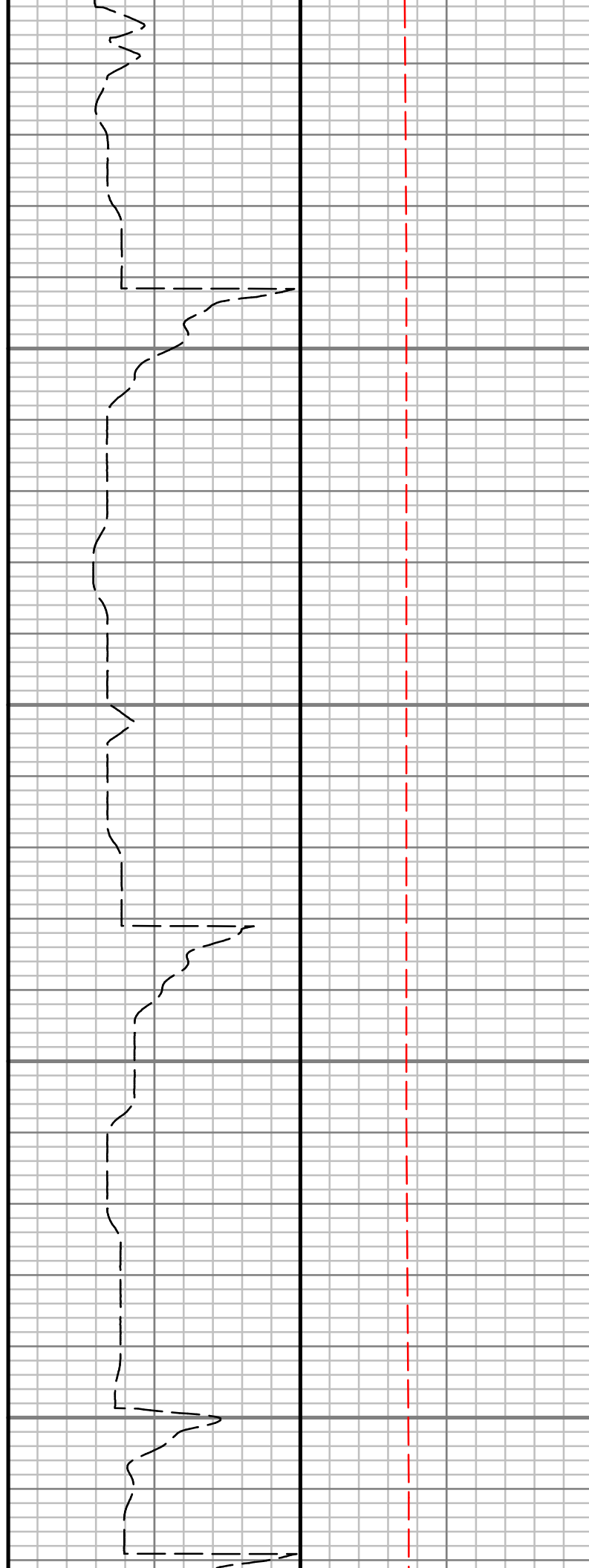
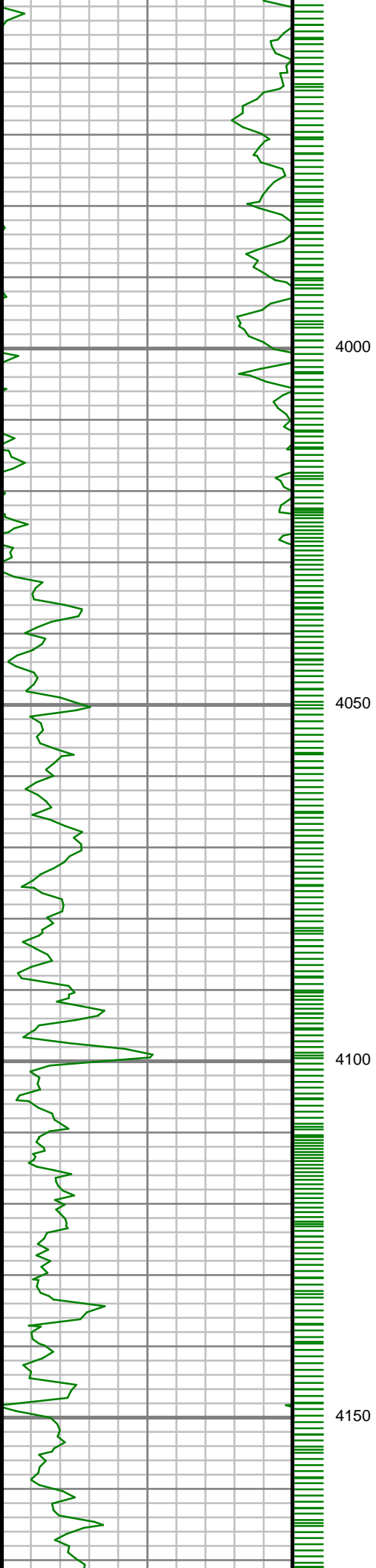
S: 82 MD: 3667.00 ft
Inc: 1.06 deg Az:
123.82 deg TVD:
3642.33 ft



S: 83 MD: 3756.00 ft
Inc: 0.96 deg Az:
141.84 deg TVD:
3731.32 ft

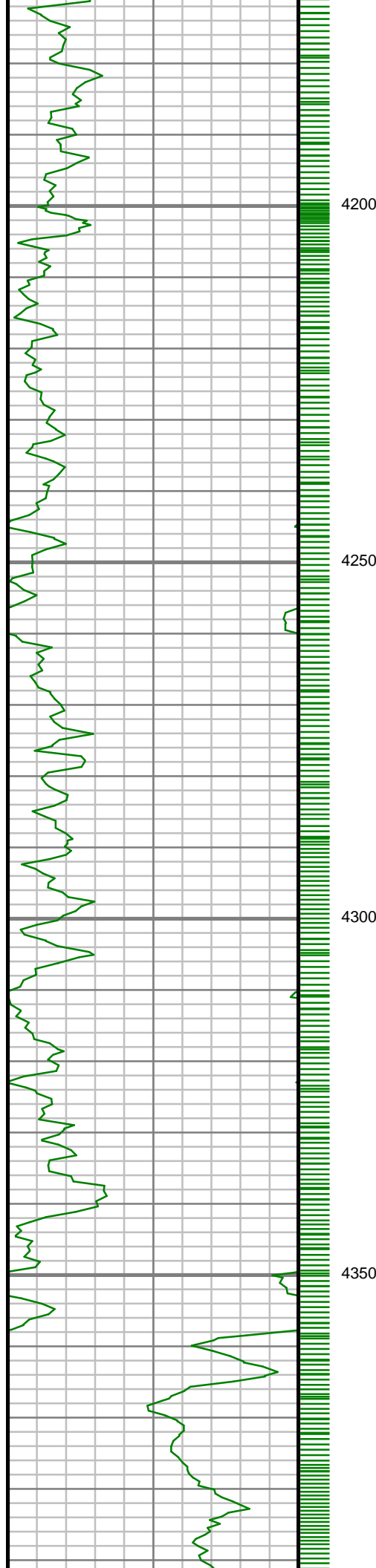
S: 84 MD: 3845.00 ft
Inc: 0.90 deg Az:
152.22 deg TVD:
3820.31 ft

S: 85 MD: 3934.00 ft
Inc: 0.67 deg Az:
177.61 deg TVD:
3909.30 ft



S: 86 MD: 4023.00 ft
Inc: 0.63 deg Az:
220.83 deg TVD:
3998.30 ft

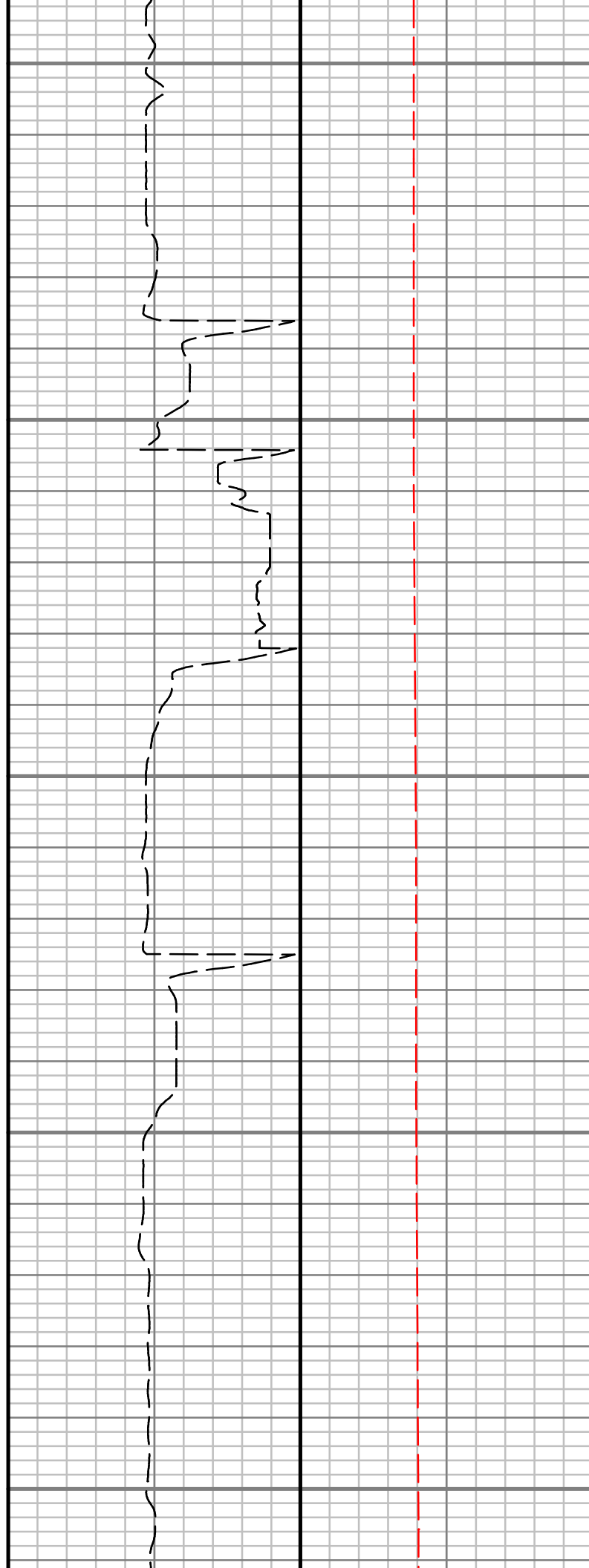
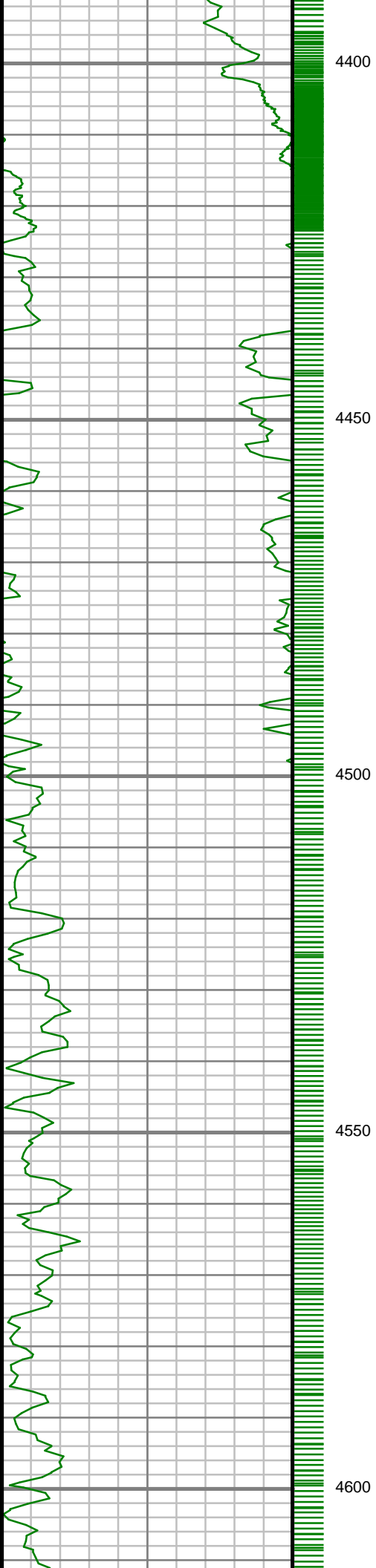
S: 87 MD: 4112.00 ft
Inc: 0.66 deg Az:
215.85 deg TVD:
4087.29 ft



S: 88 MD: 4201.00 ft
Inc: 0.84 deg Az:
238.29 deg TVD:
4176.28 ft

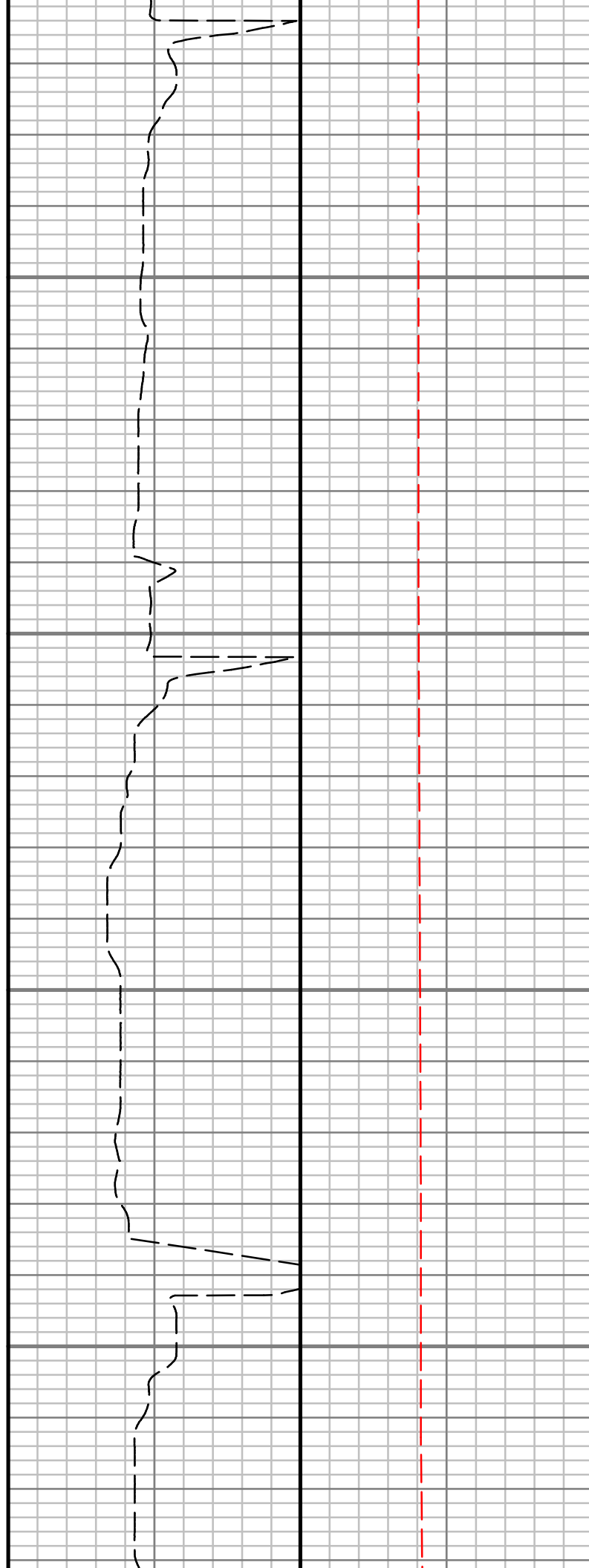
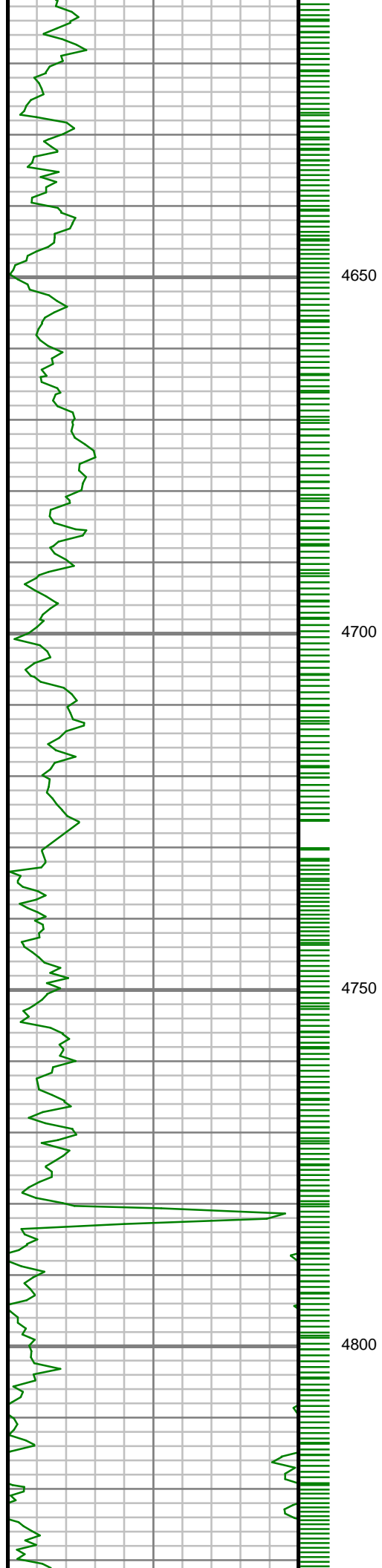
S: 89 MD: 4289.00 ft
Inc: 1.02 deg Az:
237.26 deg TVD:
4264.27 ft

S: 90 MD: 4378.00 ft
Inc: 1.21 deg Az:
252.14 deg TVD:
4353.25 ft



S: 91 MD: 4467.00 ft
Inc: 0.82 deg Az:
272.63 deg TVD:
4442.24 ft

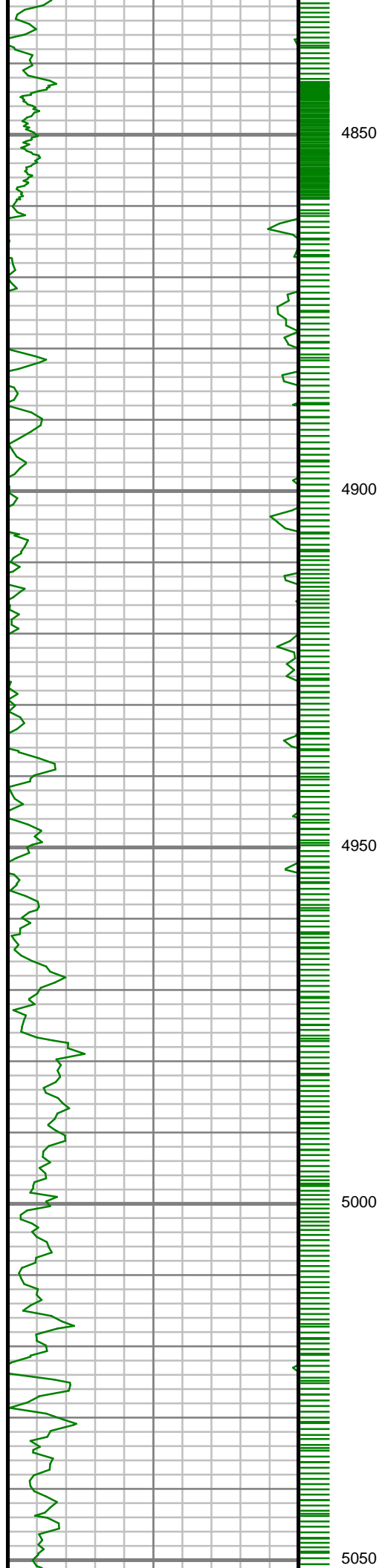
S: 92 MD: 4555.00 ft
Inc: 0.51 deg Az: 38.42
deg TVD: 4530.24 ft



S: 93 MD: 4644.00 ft
Inc: 0.31 deg Az:
292.64 deg TVD:
4619.24 ft

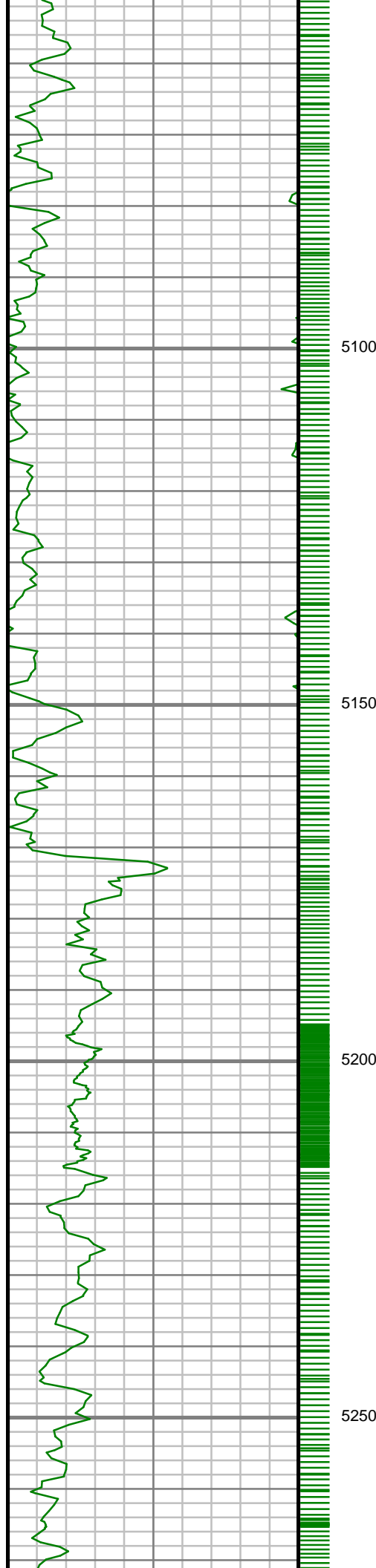
S: 94 MD: 4733.00 ft
Inc: 0.50 deg Az:
292.64 deg TVD:
4708.23 ft

S: 95 MD: 4822.00 ft
Inc: 0.84 deg Az:
302.89 deg TVD:
4797.23 ft



S: 96 MD: 4911.00 ft
Inc: 0.50 deg Az: 4.26
deg TVD: 4886.22 ft

S: 97 MD: 4999.00 ft
Inc: 0.96 deg Az: 23.10
deg TVD: 4974.22 ft



5100

5150

5200

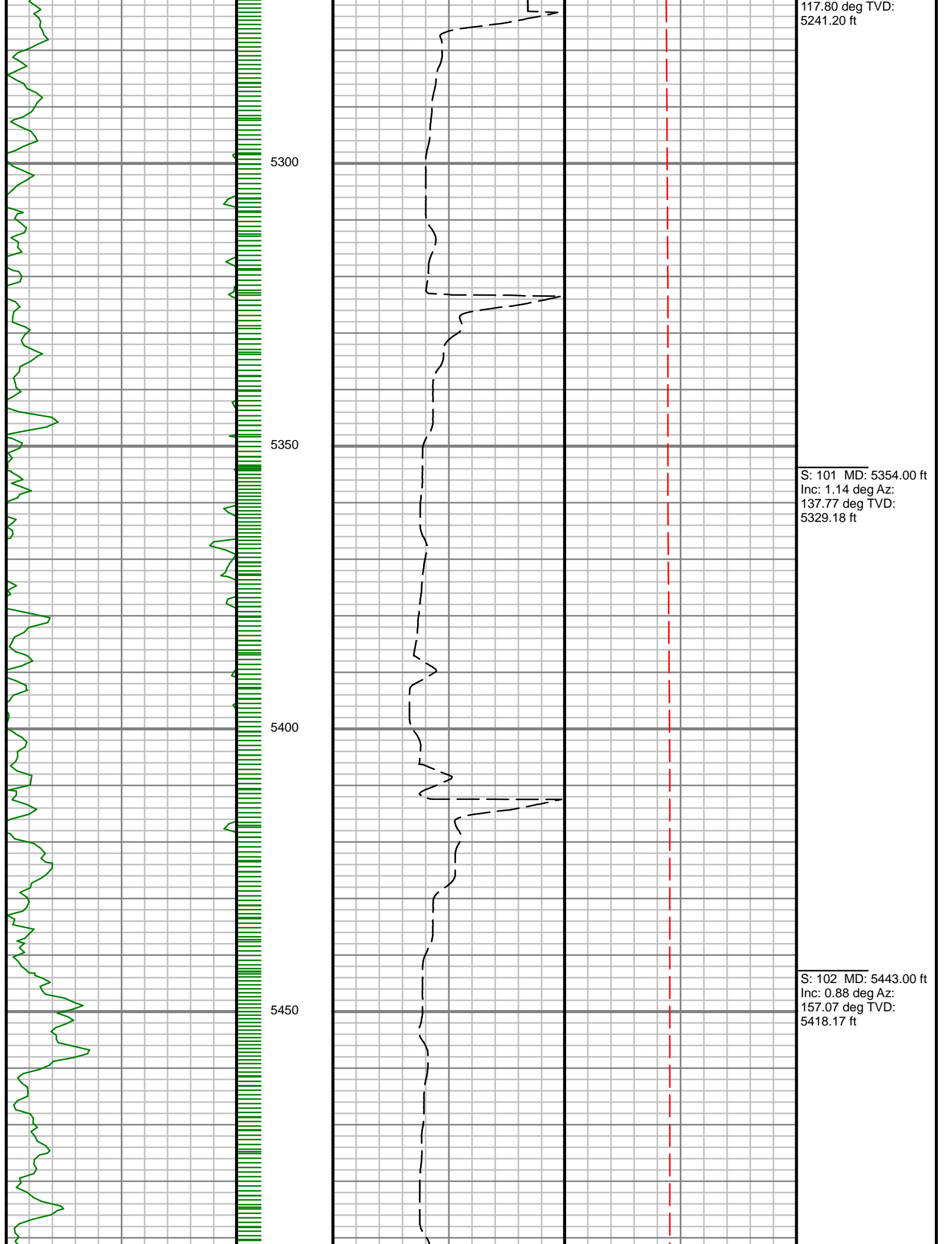
5250



S: 98 MD: 5088.00 ft
Inc: 0.84 deg Az: 8.23
deg TVD: 5063.20 ft

S: 99 MD: 5177.00 ft
Inc: 0.63 deg Az:
342.45 deg TVD:
5152.20 ft

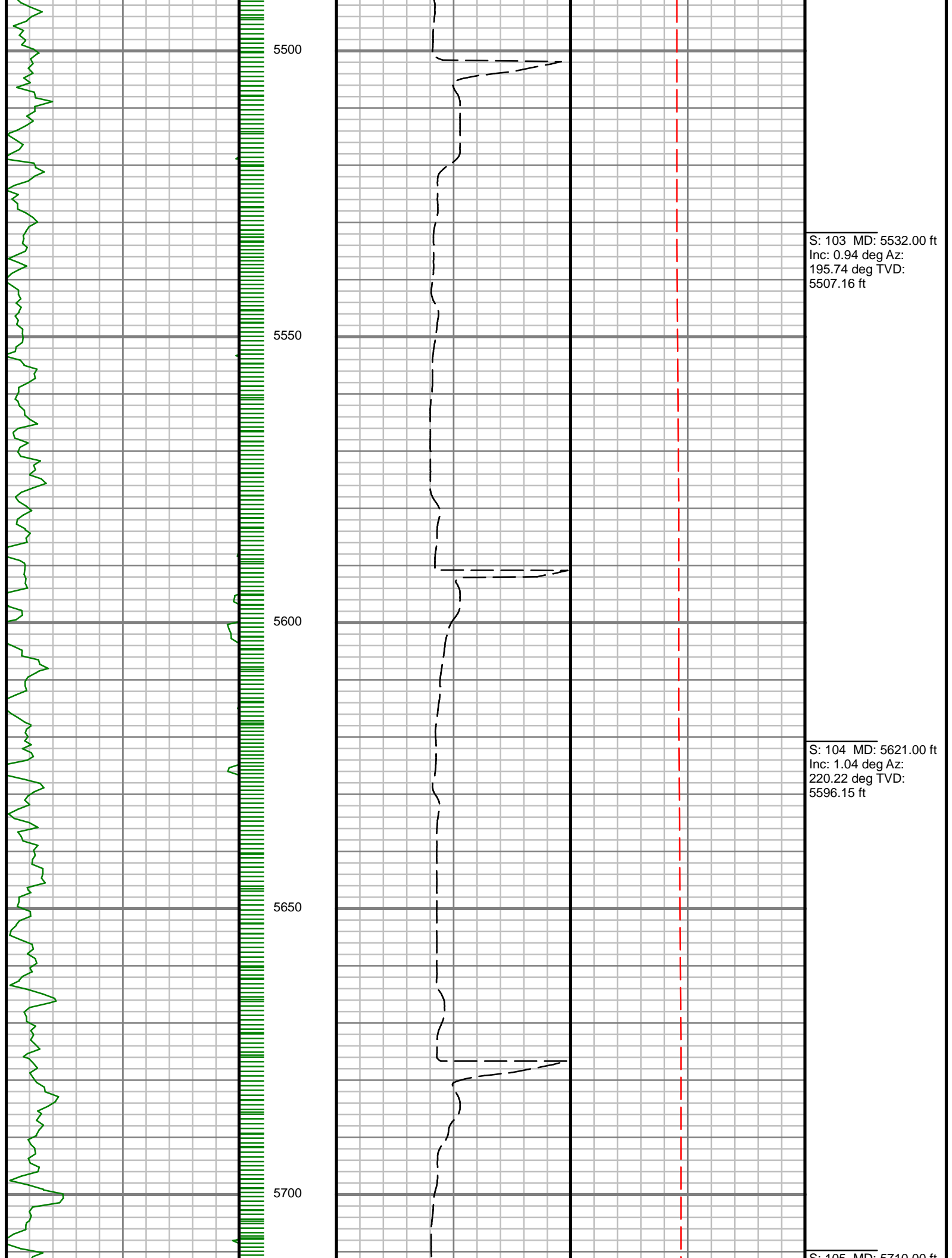
S: 100 MD: 5266.00 ft
Inc: 0.64 deg Az:

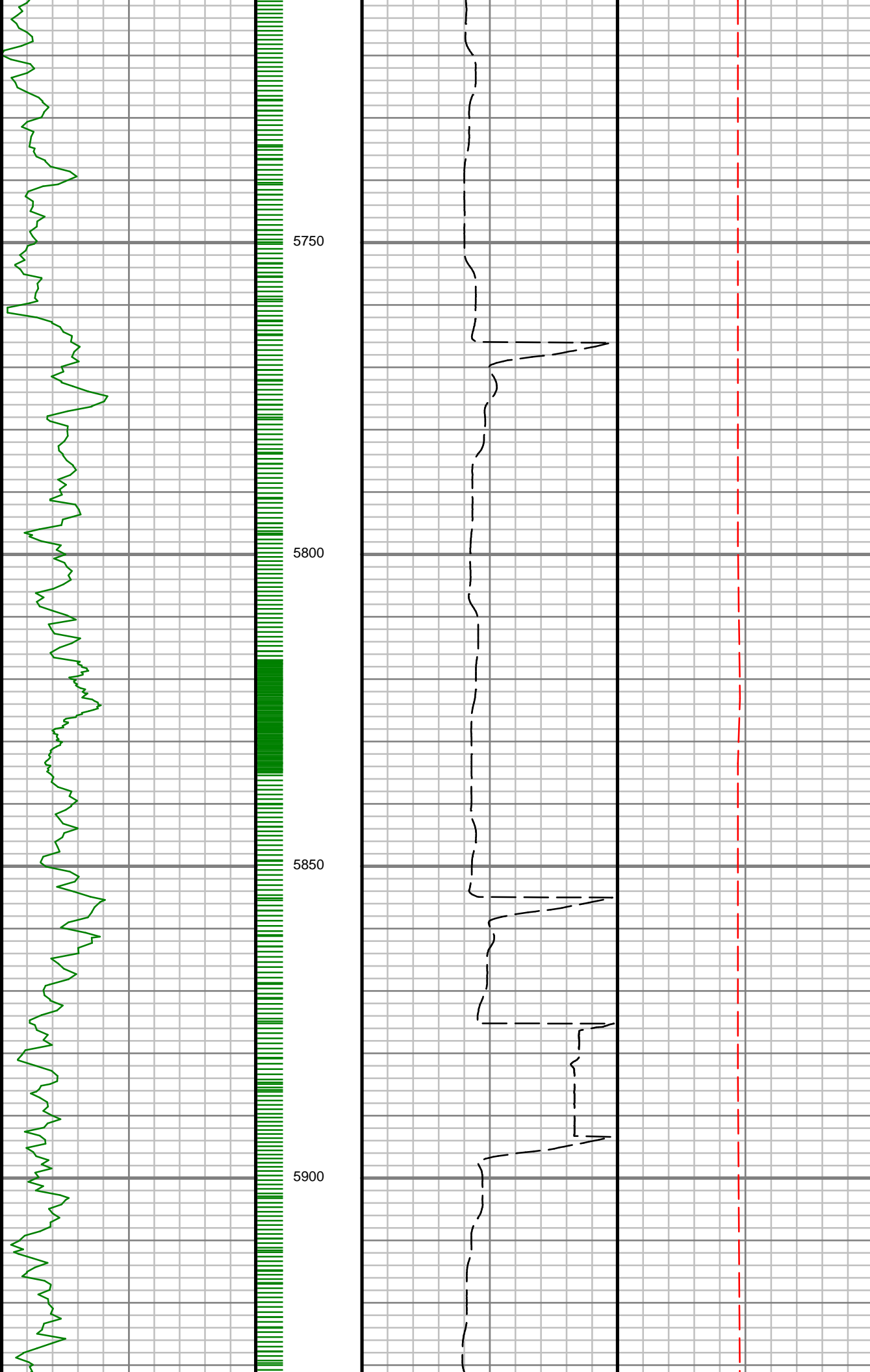


117.80 deg TVD:
5241.20 ft

S: 101 MD: 5354.00 ft
Inc: 1.14 deg Az:
137.77 deg TVD:
5329.18 ft

S: 102 MD: 5443.00 ft
Inc: 0.88 deg Az:
157.07 deg TVD:
5418.17 ft

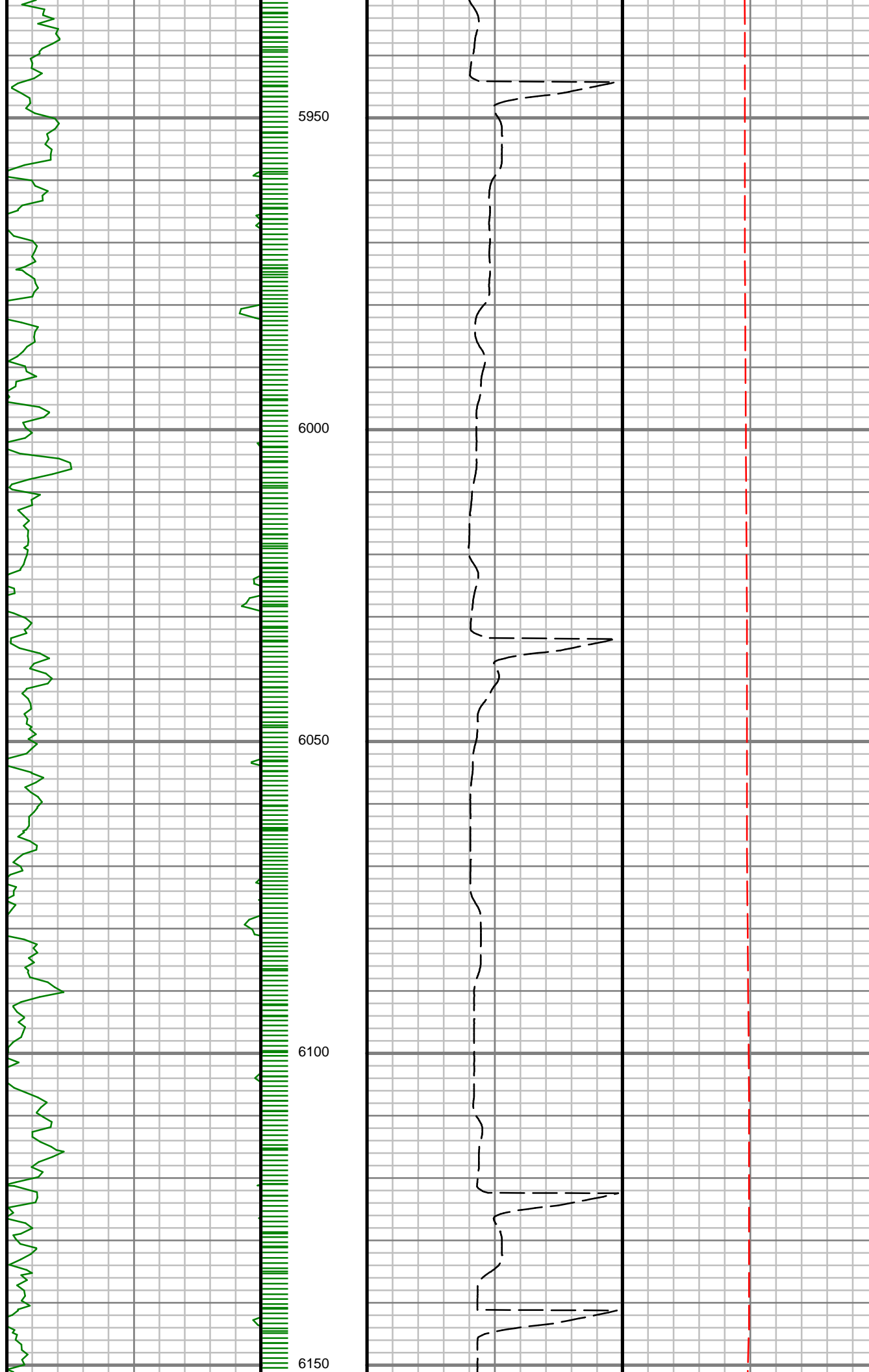




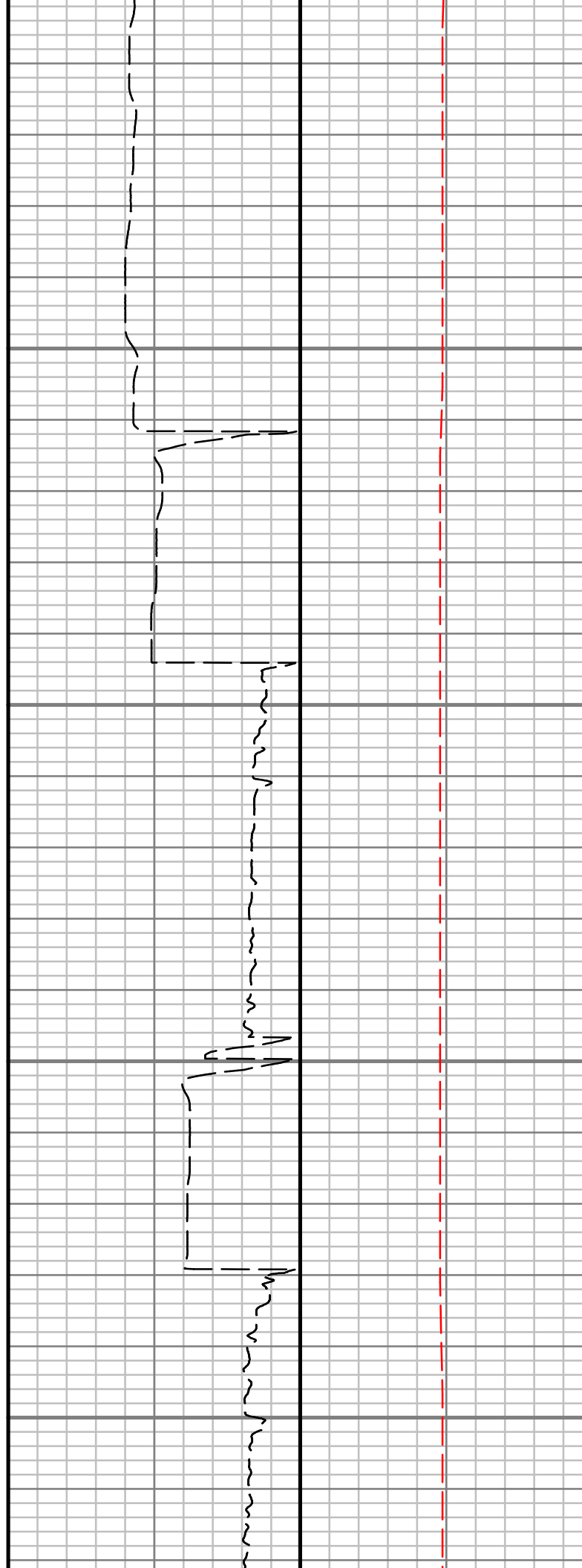
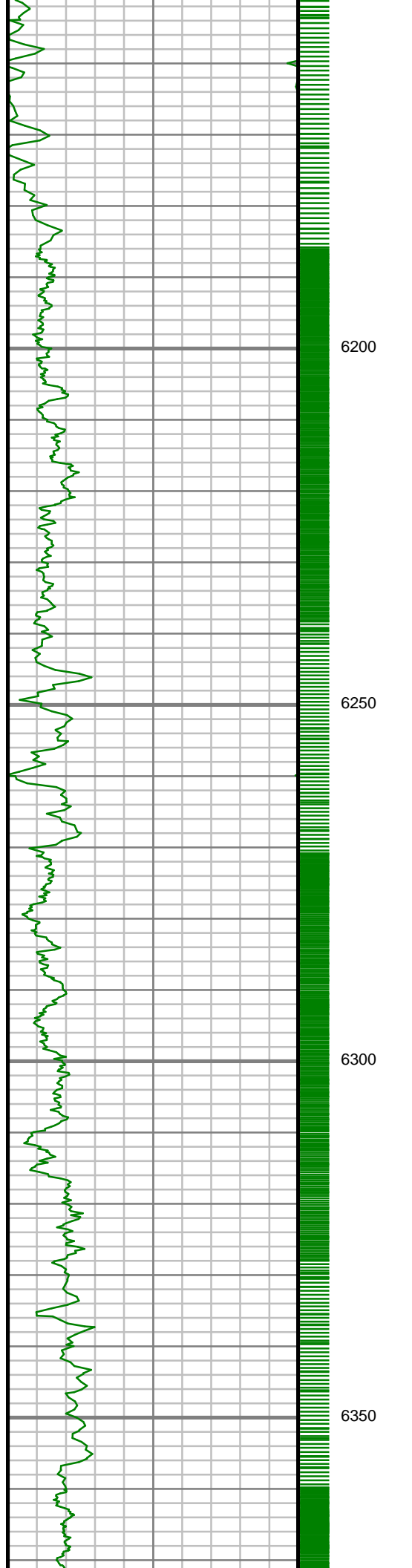
S: 105 MD: 5710.00 ft
Inc: 0.88 deg Az:
245.37 deg TVD:
5685.14 ft

S: 106 MD: 5799.00 ft
Inc: 1.07 deg Az:
247.09 deg TVD:
5774.12 ft

S: 107 MD: 5888.00 ft
Inc: 1.56 deg Az:
181.02 deg TVD:
5863.10 ft



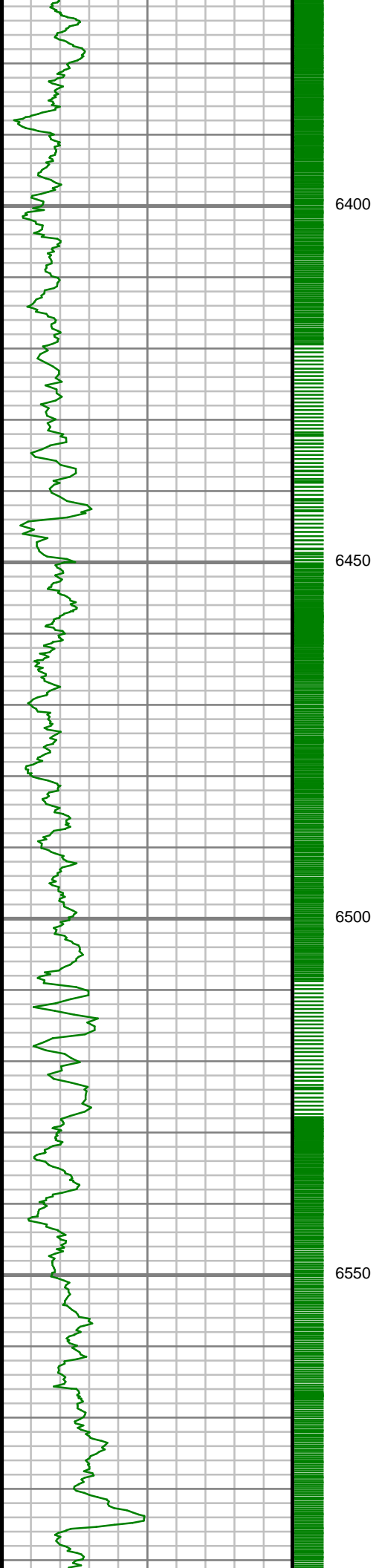
S: 108 MD: 6065.00 ft
Inc: 1.19 deg Az:
193.55 deg TVD:
6040.05 ft



S: 109	MD: 6154.00 ft
Inc: 1.00 deg	Az: 212.95 deg
TVD: 6129.04 ft	

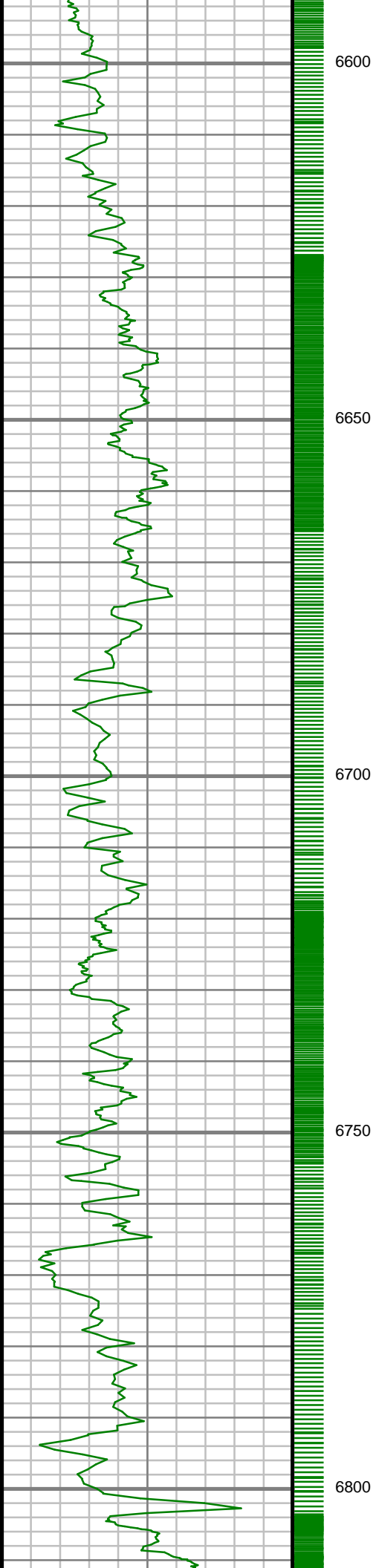
S: 110	MD: 6243.00 ft
Inc: 1.16 deg	Az: 204.35 deg
TVD: 6218.02 ft	

S: 111	MD: 6332.00 ft
Inc: 8.97 deg	Az: 183.38 deg
TVD: 6306.61 ft	



S: 112 MD: 6421.00 ft
Inc: 15.92 deg Az:
180.17 deg TVD:
6393.47 ft

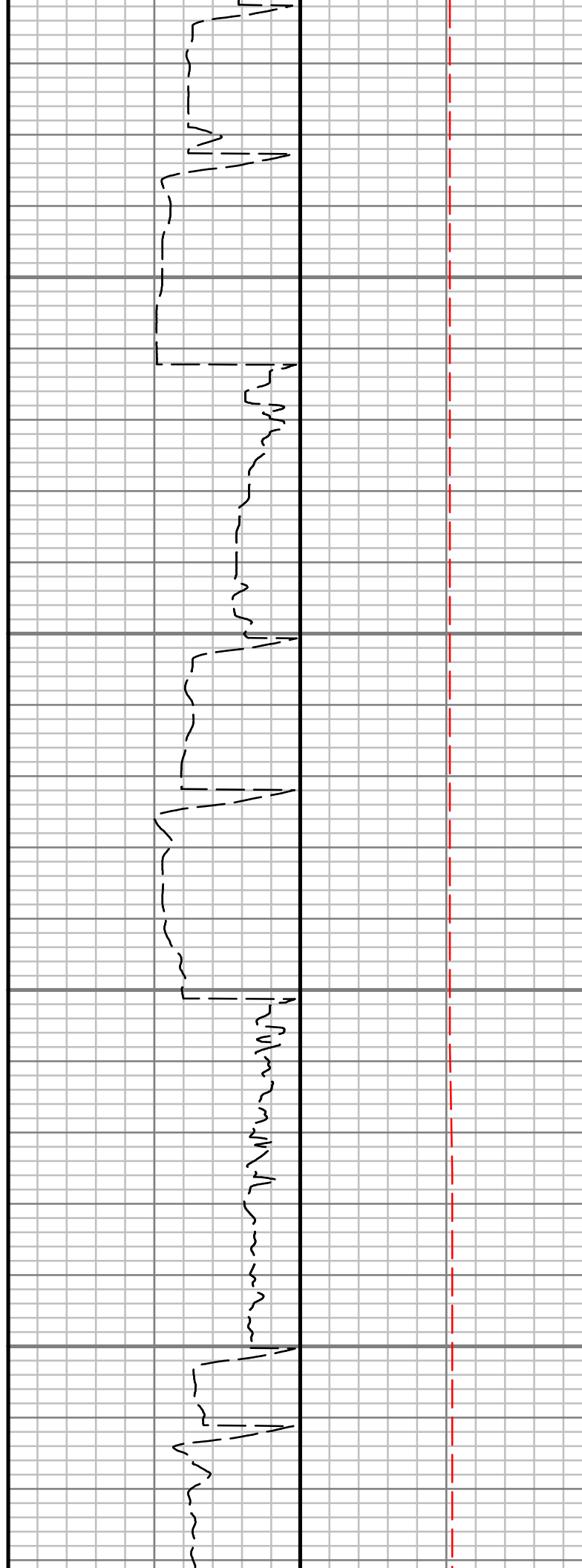
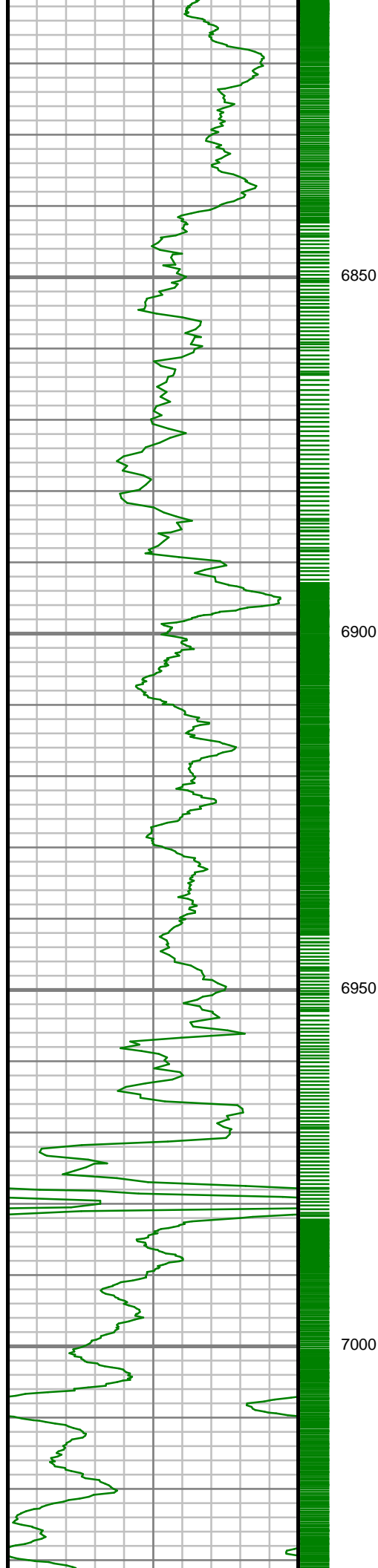
S: 113 MD: 6510.00 ft
Inc: 22.46 deg Az:
178.97 deg TVD:
6477.48 ft



S: 114 MD: 6599.00 ft
Inc: 31.12 deg Az:
175.96 deg TVD:
6556.85 ft

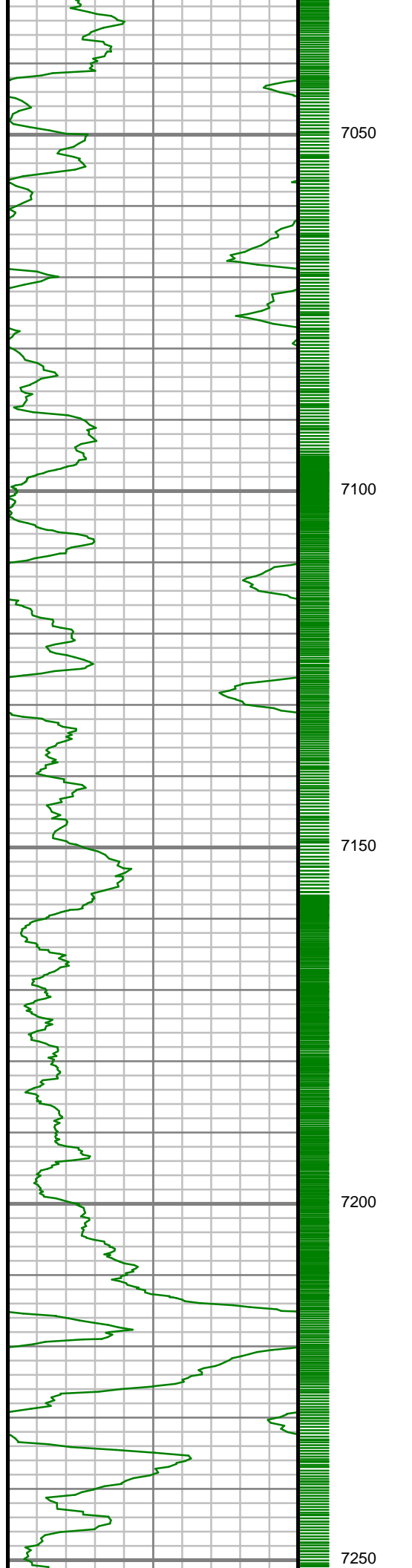
S: 115 MD: 6688.00 ft
Inc: 39.94 deg Az:
177.58 deg TVD:
6629.22 ft

S: 116 MD: 6776.00 ft
Inc: 44.86 deg Az:
177.96 deg TVD:
6694.18 ft



S: 117 MD: 6865.00 ft
Inc: 48.19 deg Az:
177.71 deg TVD:
6755.40 ft

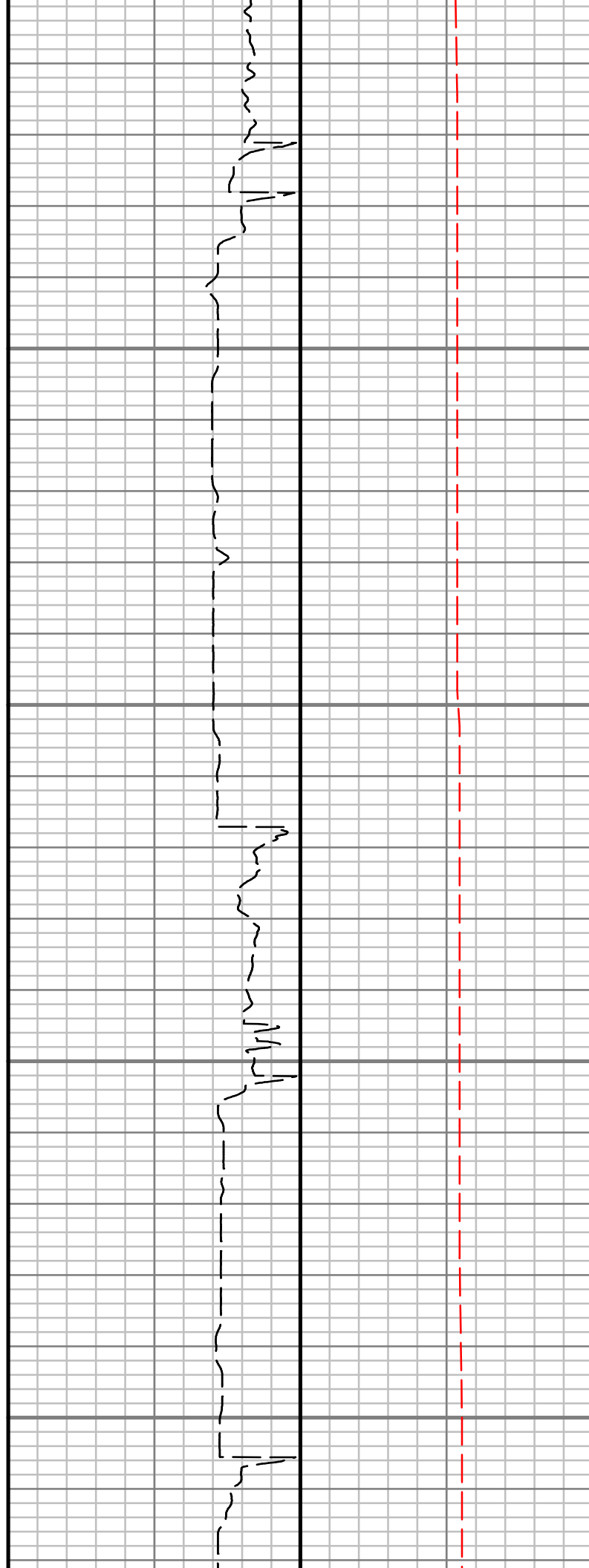
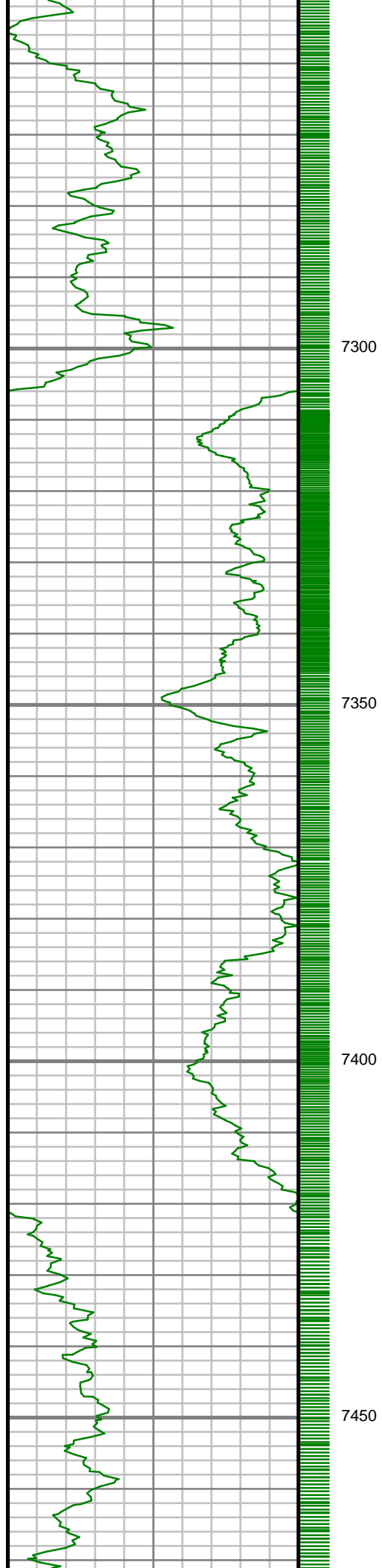
S: 118 MD: 6954.00 ft
Inc: 51.86 deg Az:
180.34 deg TVD:
6812.58 ft



S: 119 MD: 7043.00 ft
Inc: 59.24 deg Az:
177.71 deg TVD:
6862.89 ft

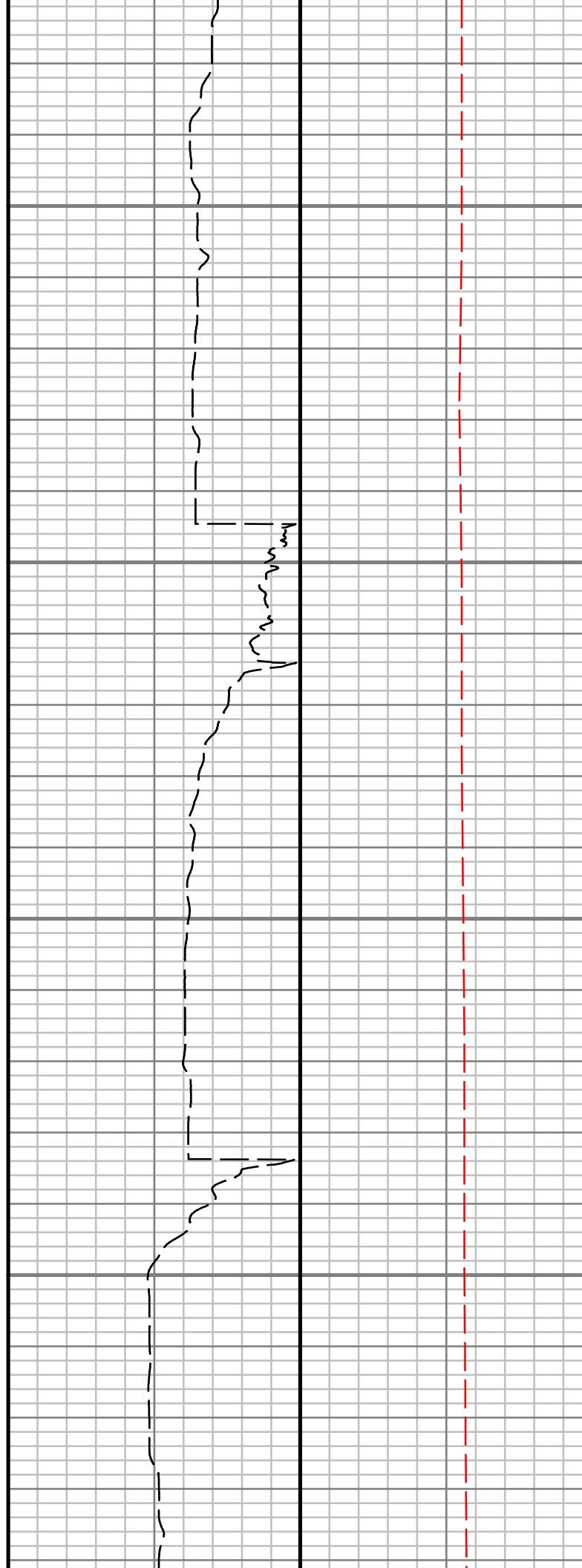
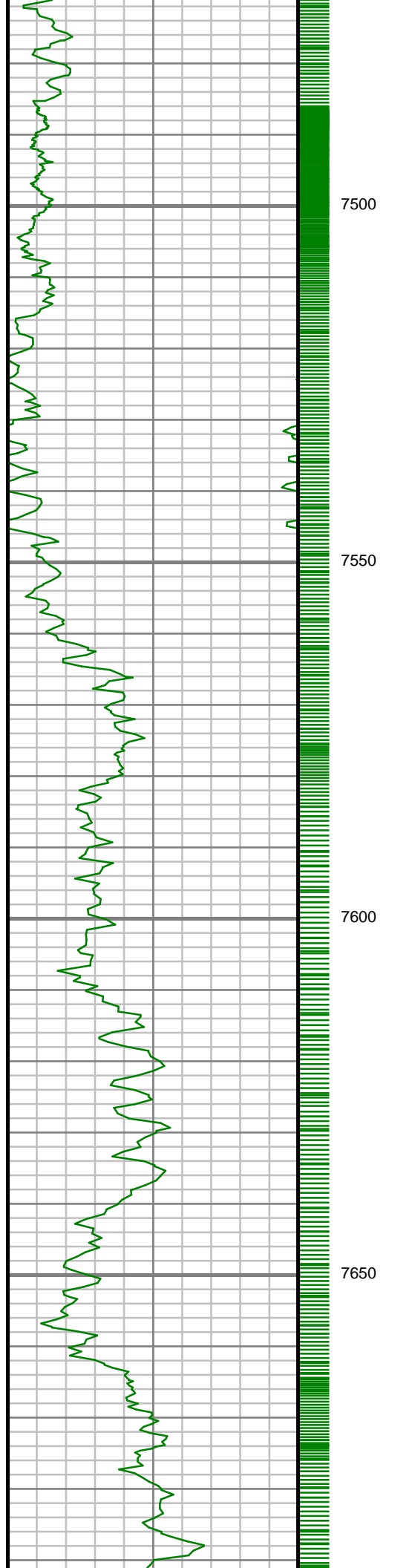
S: 120 MD: 7132.00 ft
Inc: 64.71 deg Az:
177.78 deg TVD:
6904.69 ft

S: 121 MD: 7221.00 ft
Inc: 72.67 deg Az:
179.58 deg TVD:
6937.01 ft



S: 122 MD: 7310.00 ft
Inc: 80.51 deg Az:
182.29 deg TVD:
6957.64 ft

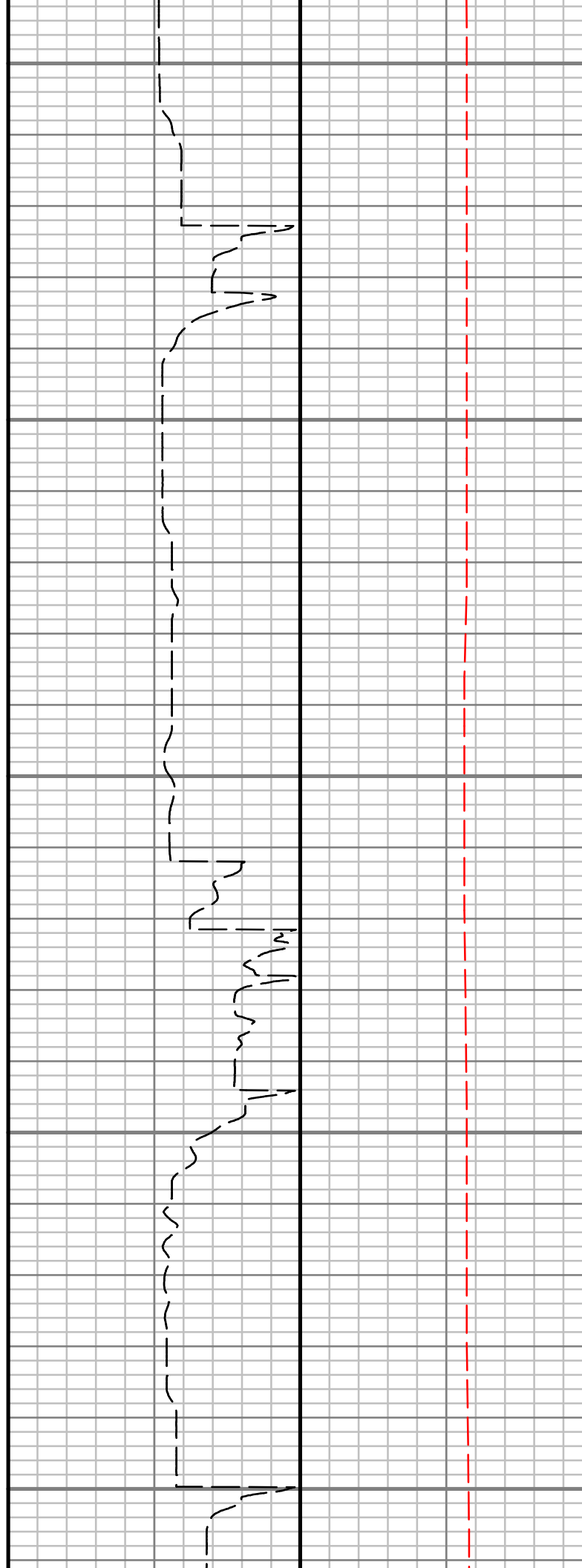
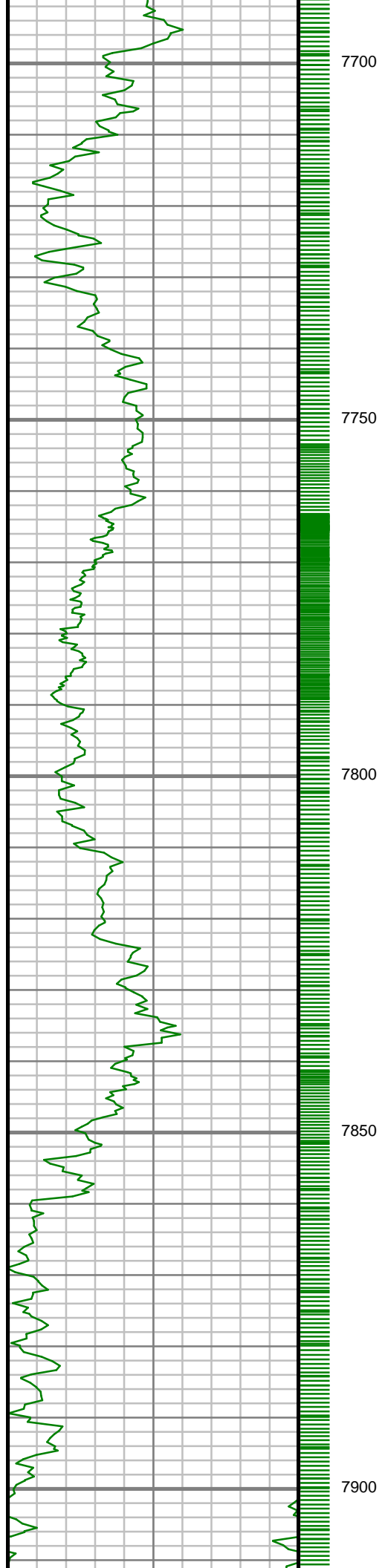
S: 123 MD: 7399.00 ft
Inc: 86.21 deg Az:
181.01 deg TVD:
6967.93 ft



S: 124 MD: 7488.00 ft
Inc: 87.66 deg Az:
180.63 deg TVD:
6972.69 ft

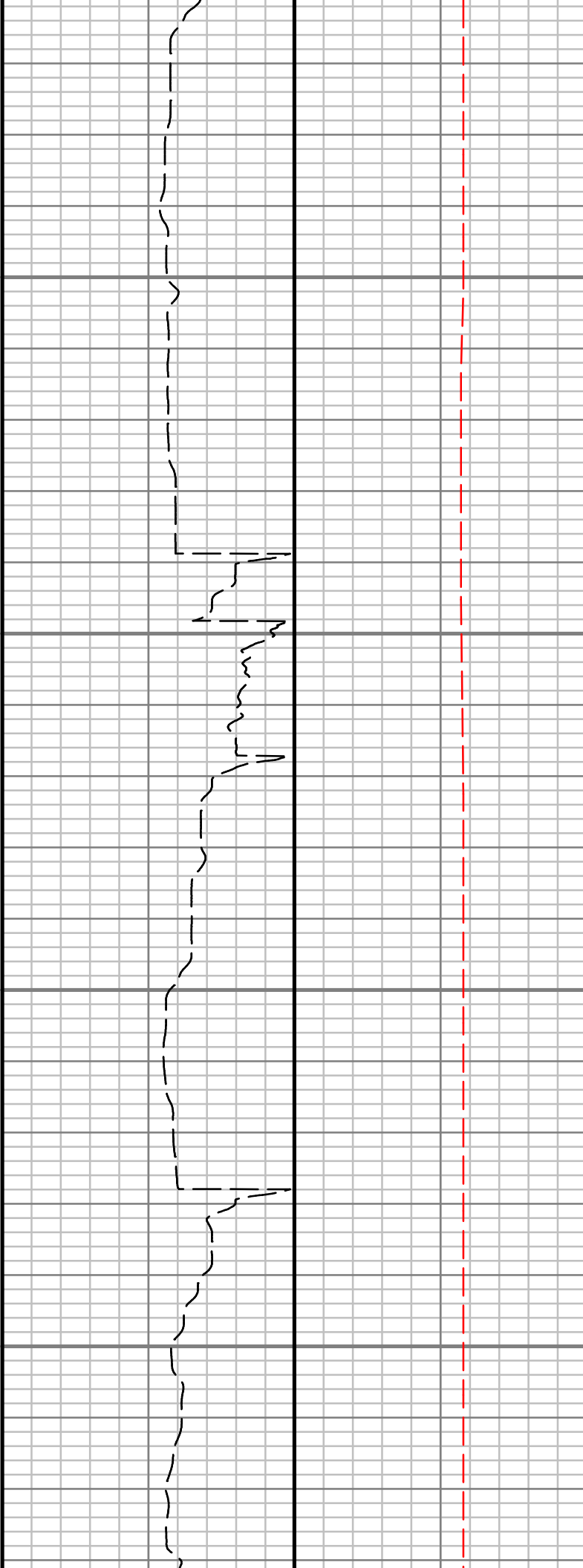
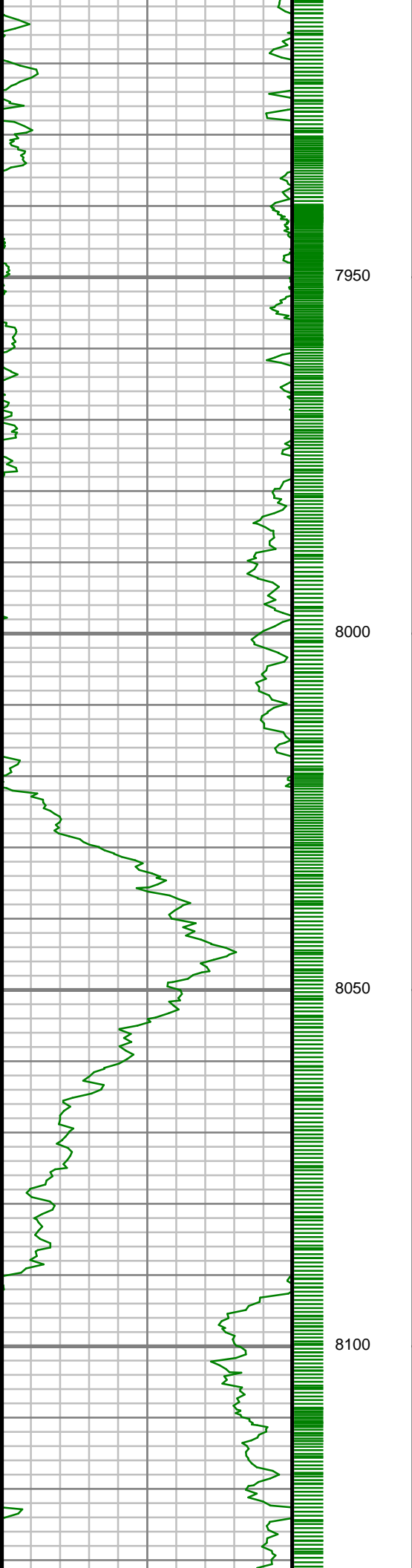
S: 125 MD: 7577.00 ft
Inc: 85.17 deg Az:
179.98 deg TVD:
6978.26 ft

S: 126 MD: 7666.00 ft
Inc: 85.88 deg Az:
179.05 deg TVD:
6985.21 ft



S: 127 MD: 7754.00 ft
Inc: 86.74 deg Az:
178.80 deg TVD:
6990.87 ft

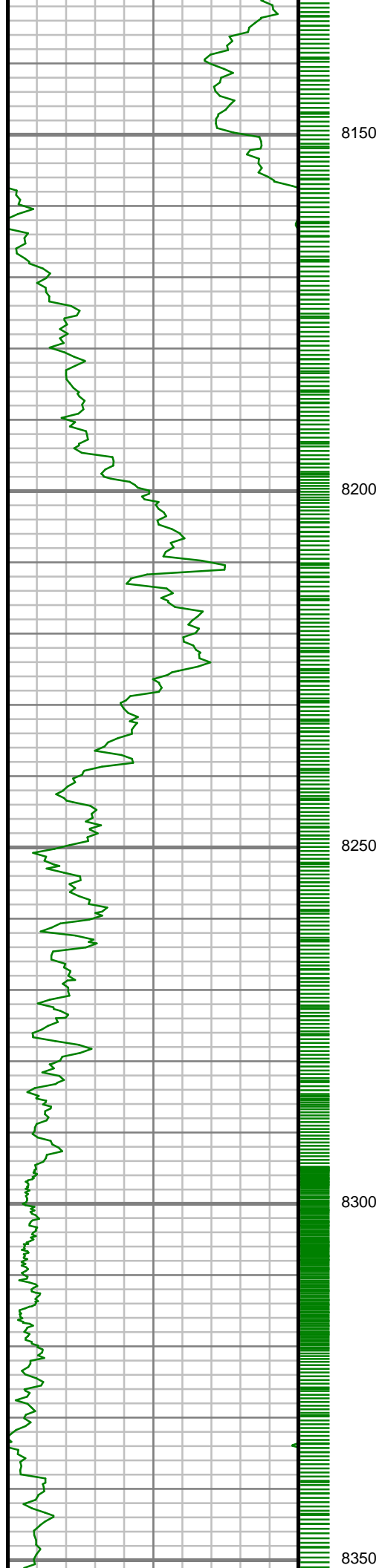
S: 128 MD: 7843.00 ft
Inc: 86.68 deg Az:
181.21 deg TVD:
6995.98 ft



S: 129 MD: 7932.00 ft
Inc: 87.58 deg Az:
181.37 deg TVD:
7000.43 ft

S: 130 MD: 8020.00 ft
Inc: 85.75 deg Az:
181.66 deg TVD:
7005.55 ft

S: 131 MD: 8109.00 ft
Inc: 86.51 deg Az:
181.89 deg TVD:
7011.56 ft



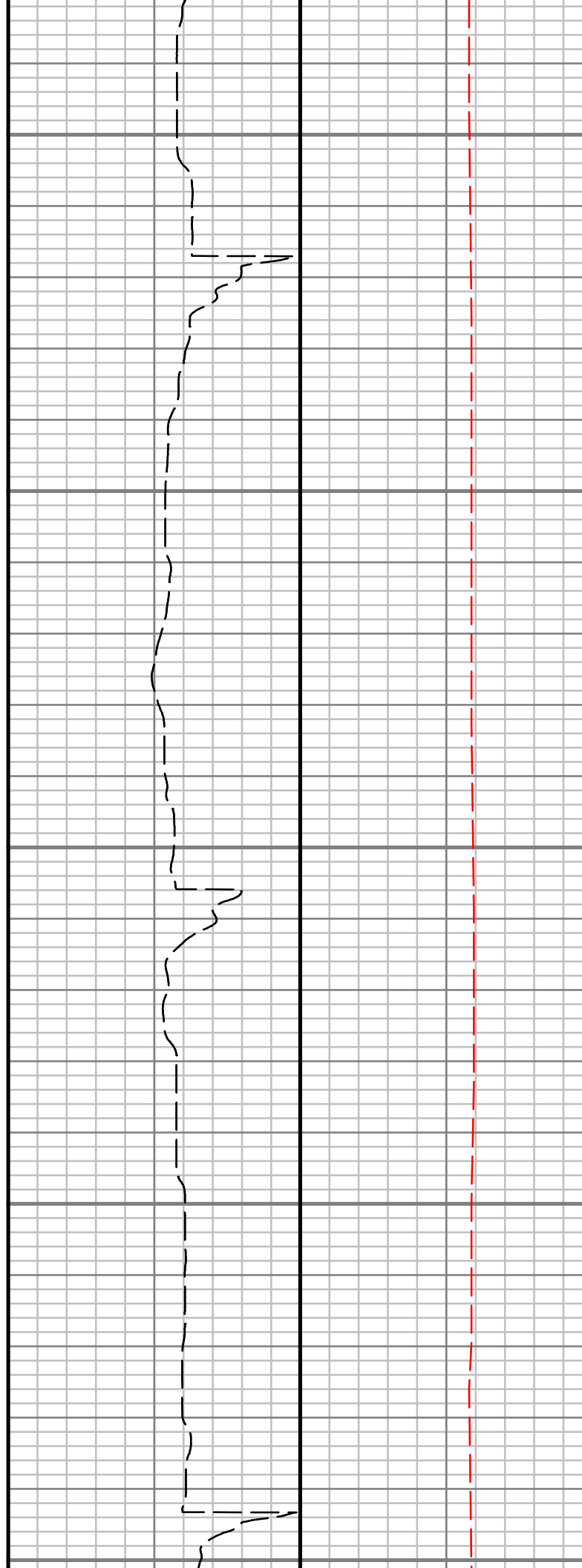
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8200

8250

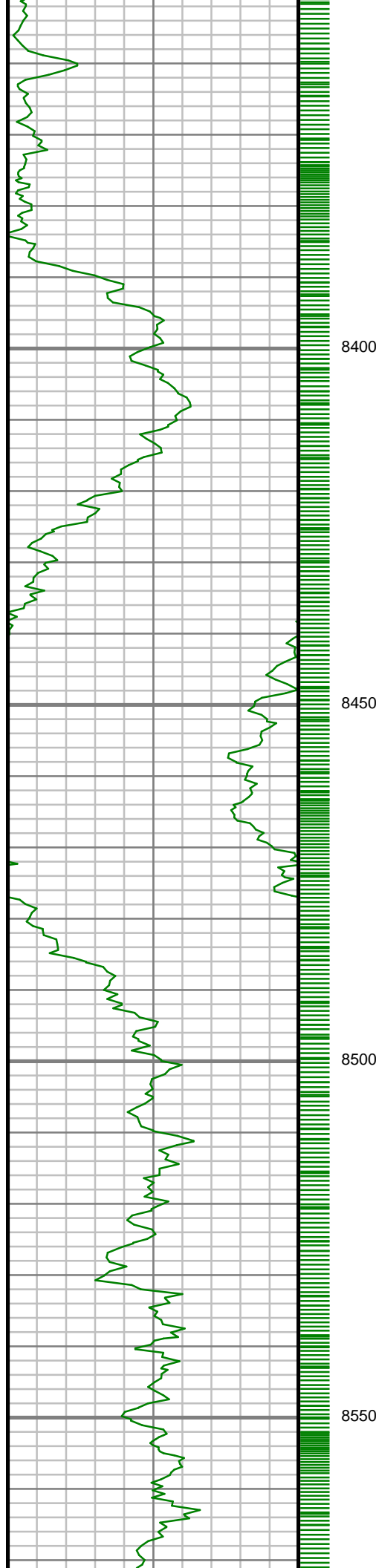
8300

8350



S: 132 MD: 8198.00 ft
Inc: 87.15 deg Az:
181.66 deg TVD:
7016.48 ft

S: 133 MD: 8287.00 ft
Inc: 88.29 deg Az:
181.62 deg TVD:
7020.02 ft



8400

8450

8500

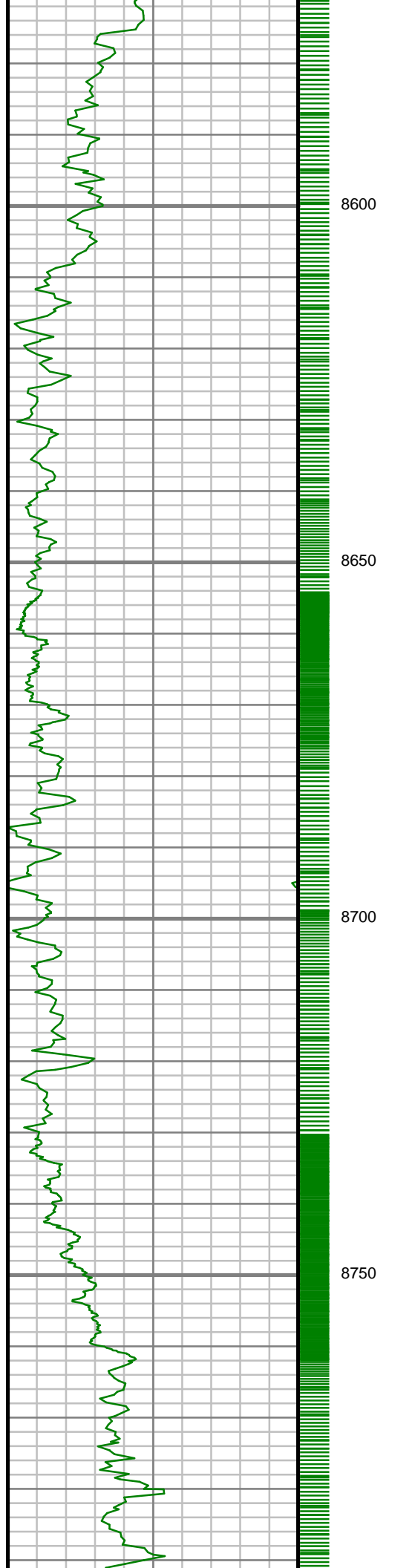
8550



S: 134 MD: 8375.00 ft
Inc: 86.45 deg Az:
180.94 deg TVD:
7024.06 ft

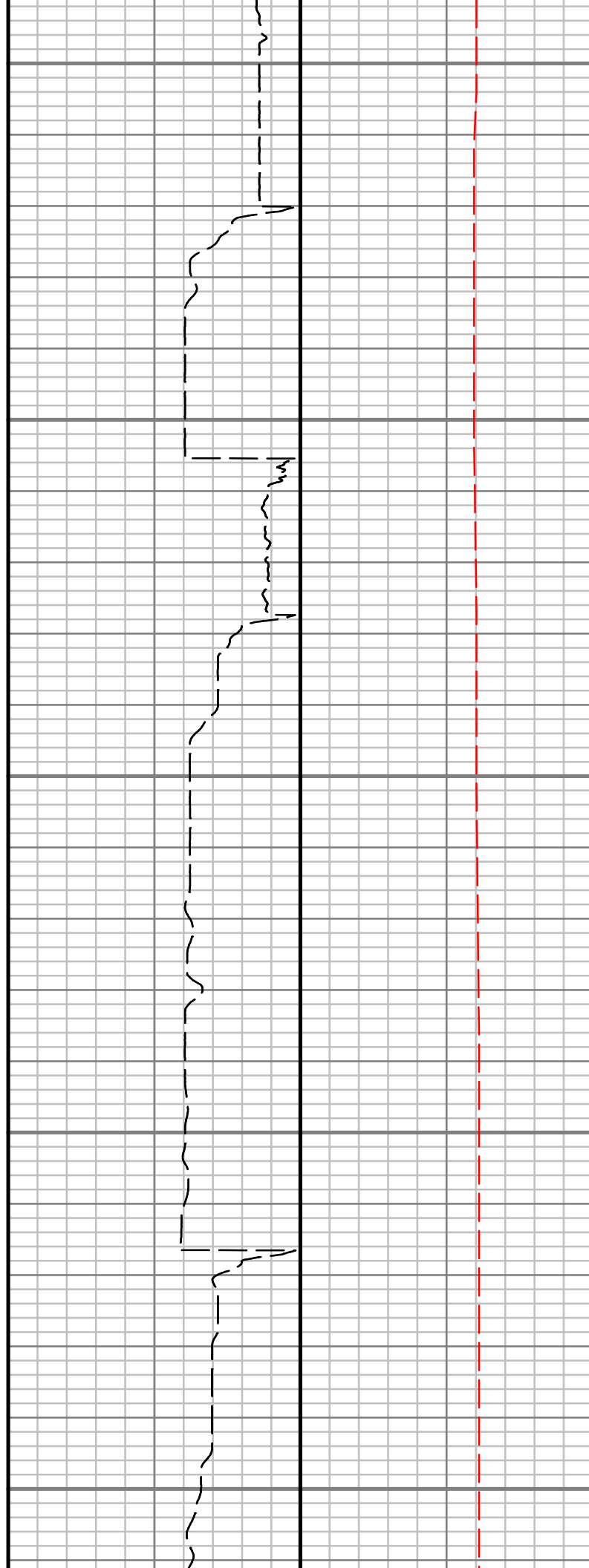
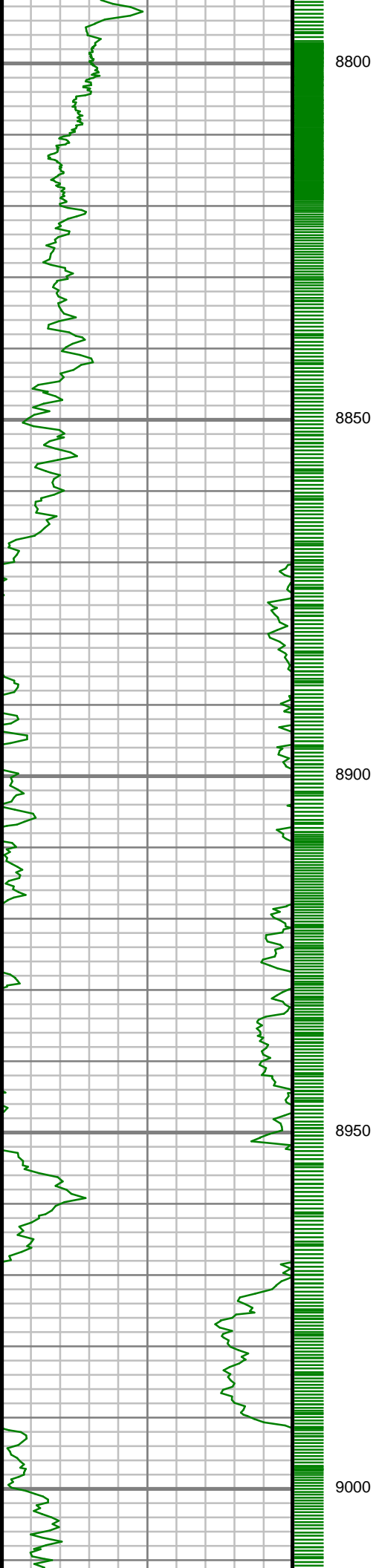
S: 135 MD: 8464.00 ft
Inc: 86.55 deg Az:
180.53 deg TVD:
7029.49 ft

S: 136 MD: 8553.00 ft
Inc: 86.92 deg Az:
180.15 deg TVD:
7034.56 ft



S: 137 MD: 8642.00 ft
Inc: 88.22 deg Az:
180.18 deg TVD:
7038.33 ft

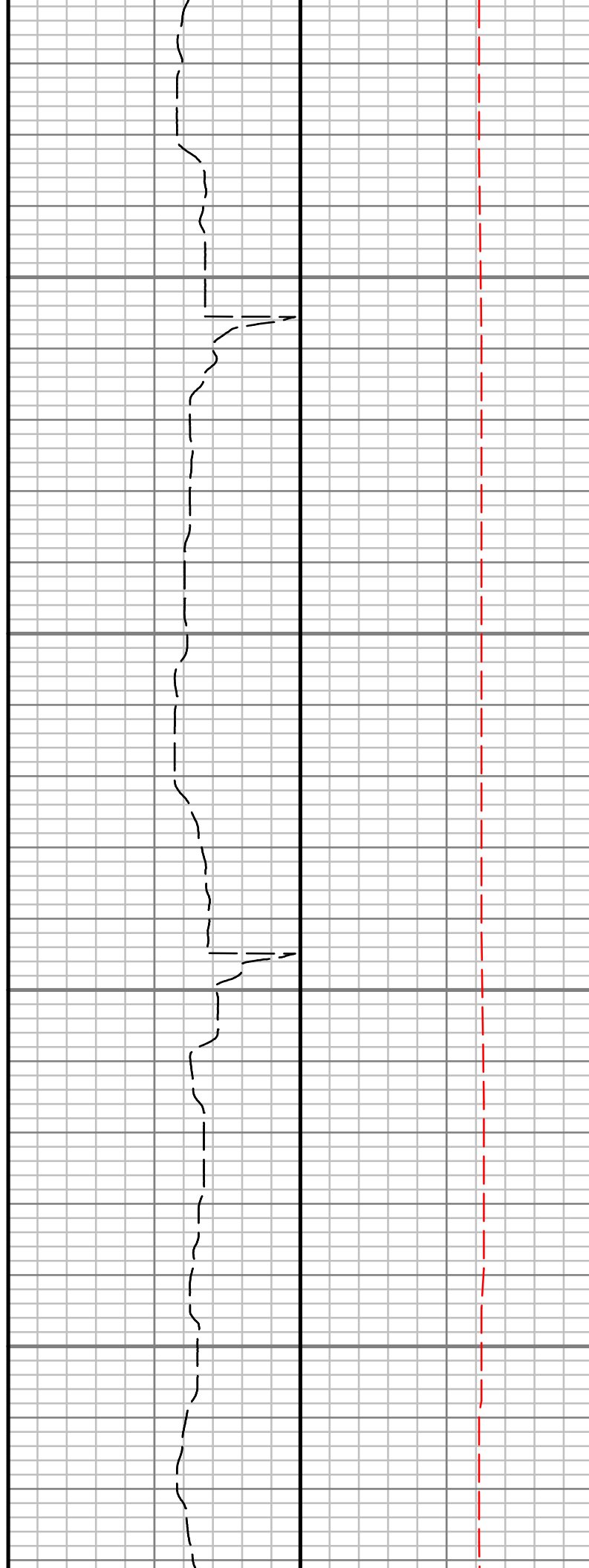
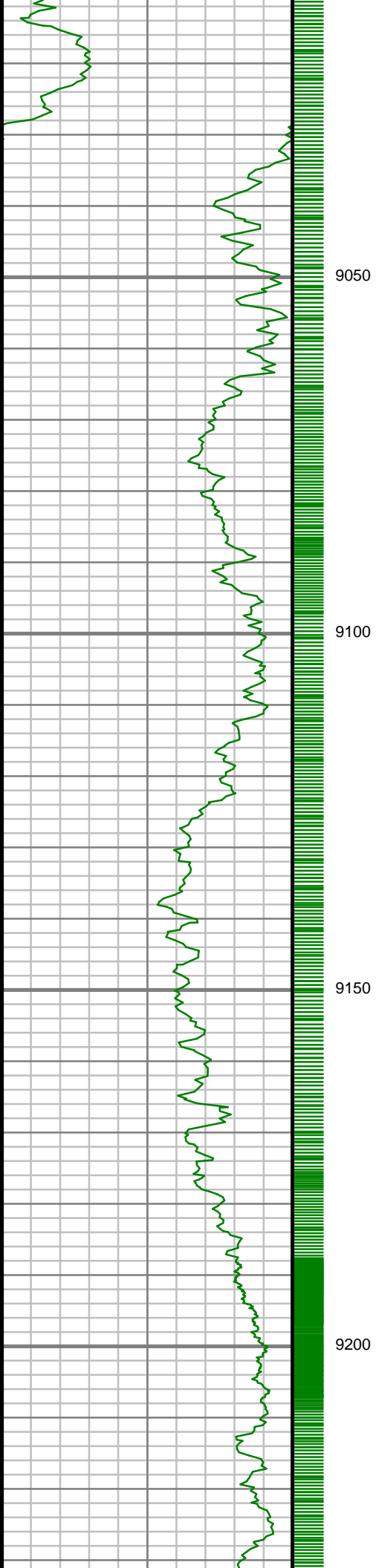
S: 138 MD: 8731.00 ft
Inc: 87.89 deg Az:
180.80 deg TVD:
7041.35 ft



S: 139 MD: 8819.00 ft
Inc: 88.06 deg Az:
179.85 deg TVD:
7044.46 ft

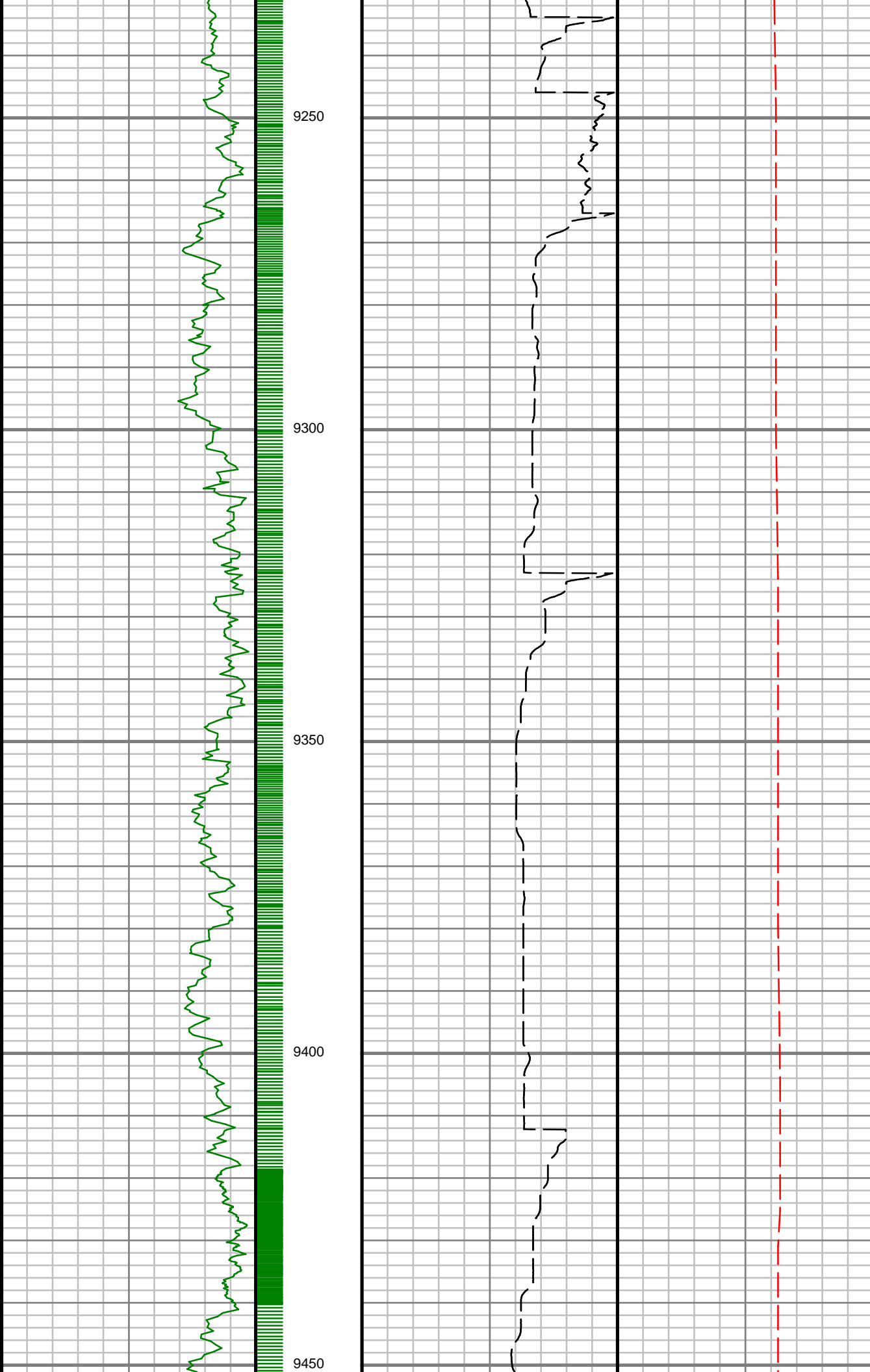
S: 140 MD: 8908.00 ft
Inc: 85.44 deg Az:
179.26 deg TVD:
7049.51 ft

S: 141 MD: 8997.00 ft
Inc: 85.44 deg Az:
178.64 deg TVD:
7056.59 ft



S: 142 MD: 9086.00 ft
Inc: 86.07 deg Az:
177.99 deg TVD:
7063.17 ft

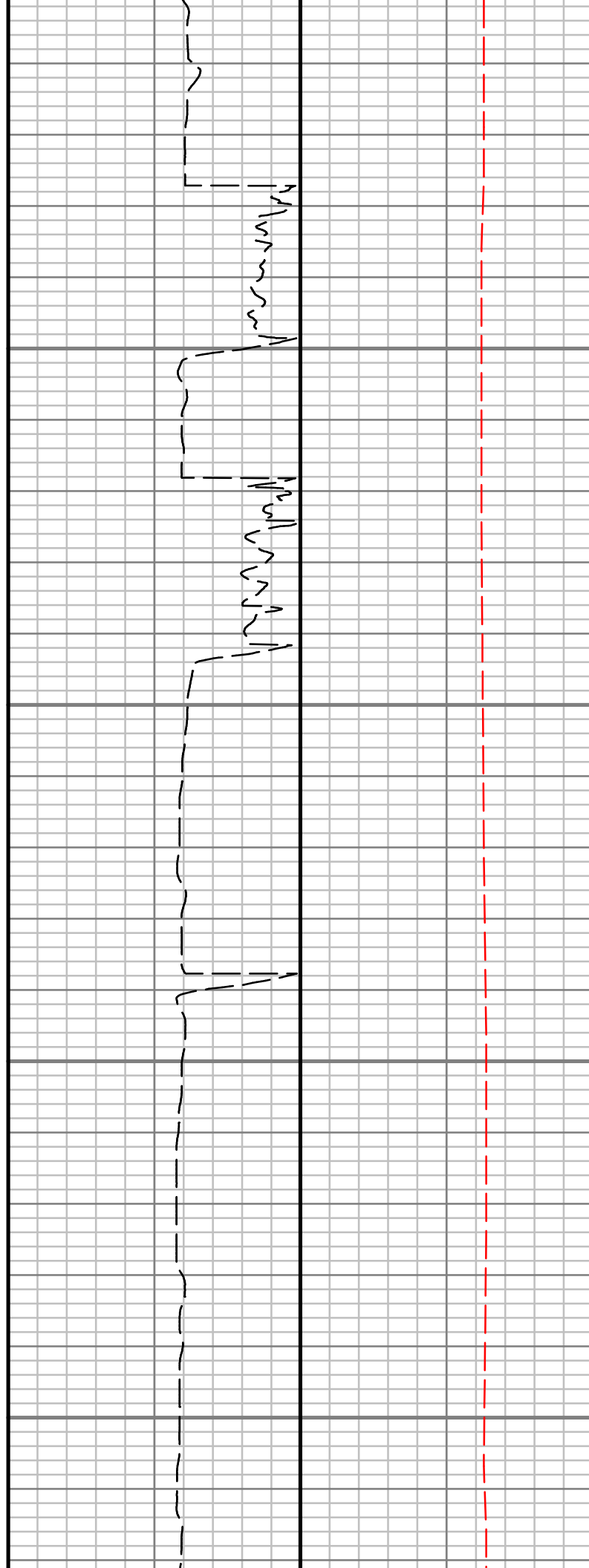
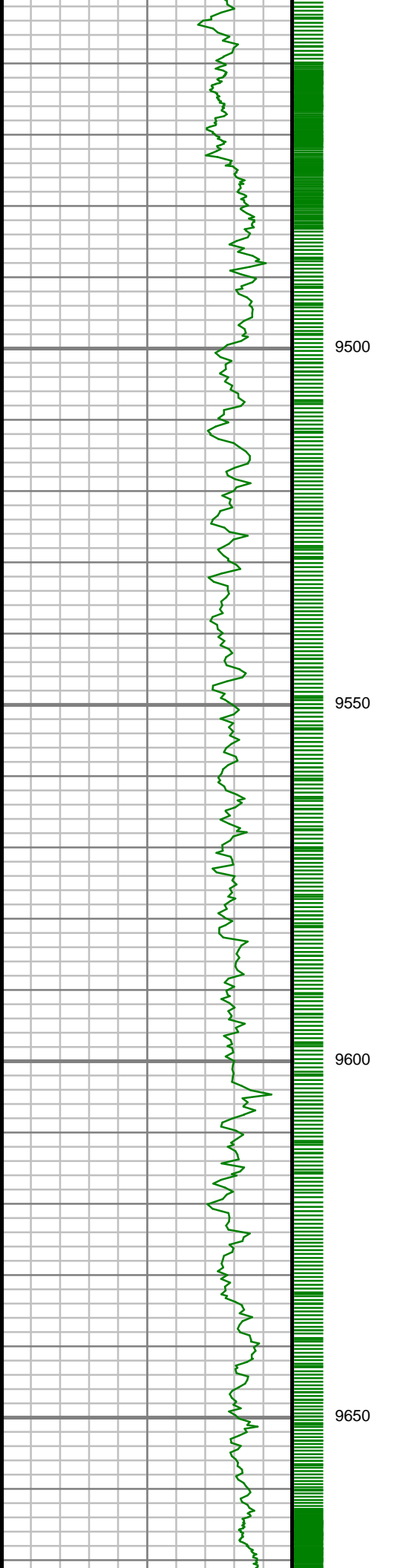
S: 143 MD: 9175.00 ft
Inc: 86.85 deg Az:
177.48 deg TVD:
7068.67 ft



S: 144 MD: 9264.00 ft
Inc: 87.19 deg Az:
179.26 deg TVD:
7073.30 ft

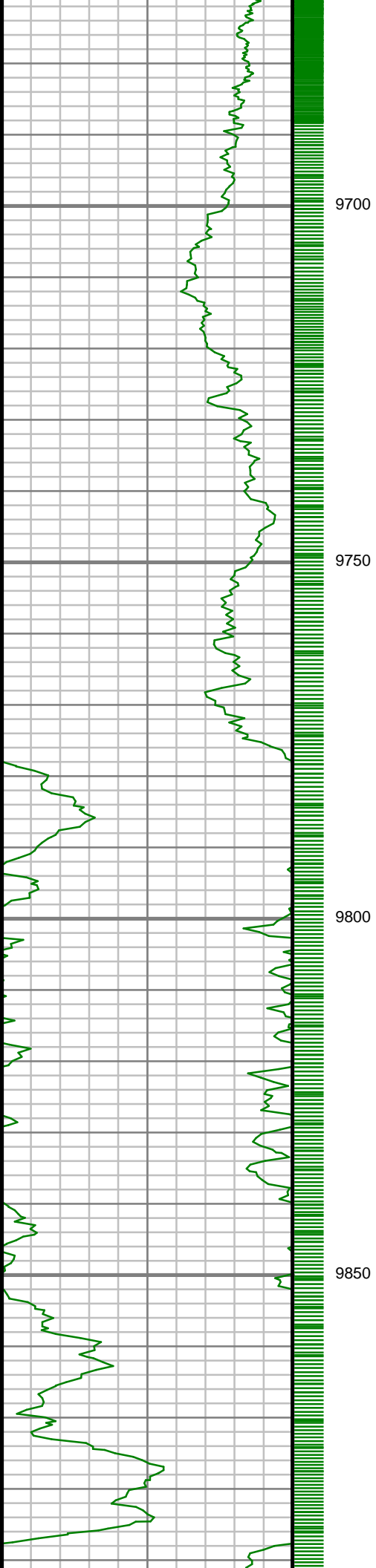
S: 145 MD: 9353.00 ft
Inc: 88.02 deg Az:
179.46 deg TVD:
7077.02 ft

S: 146 MD: 9442.00 ft
Inc: 89.77 deg Az:
178.85 deg TVD:
7078.74 ft



S: 147 MD: 9530.00 ft
Inc: 86.75 deg Az:
181.34 deg TVD:
7081.41 ft

S: 148 MD: 9619.00 ft
Inc: 87.15 deg Az:
181.66 deg TVD:
7086.15 ft

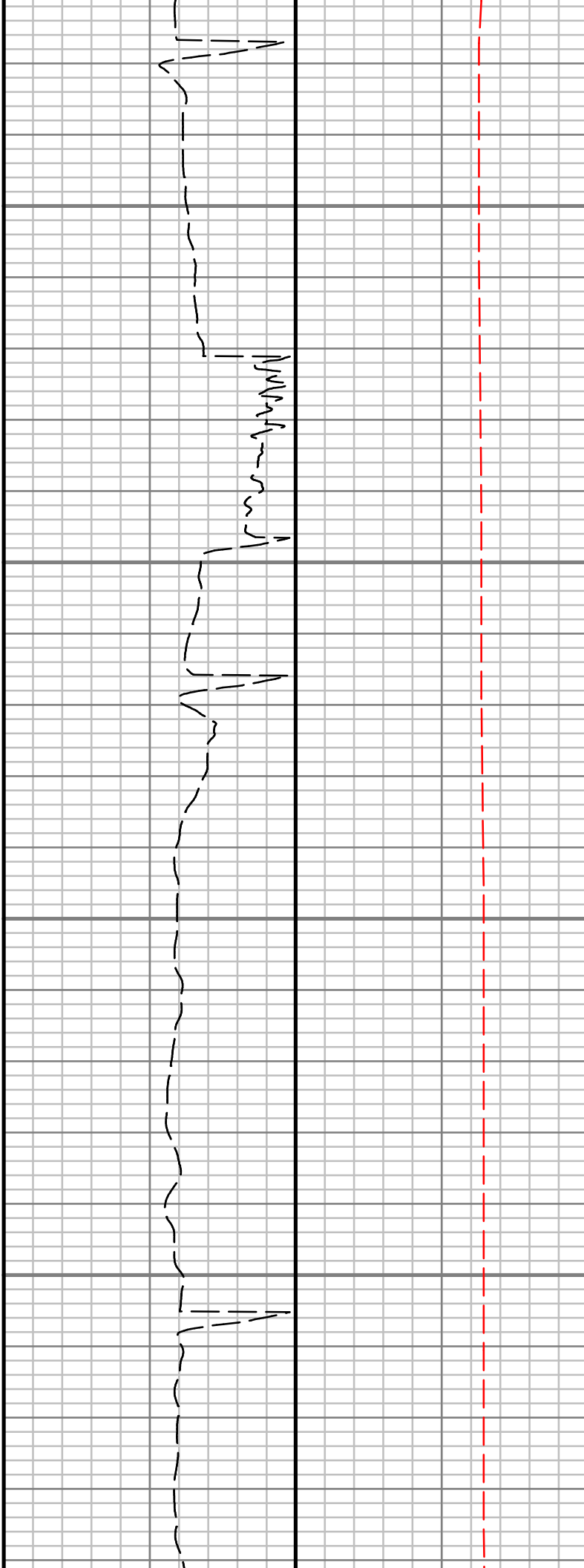


9700

9750

9800

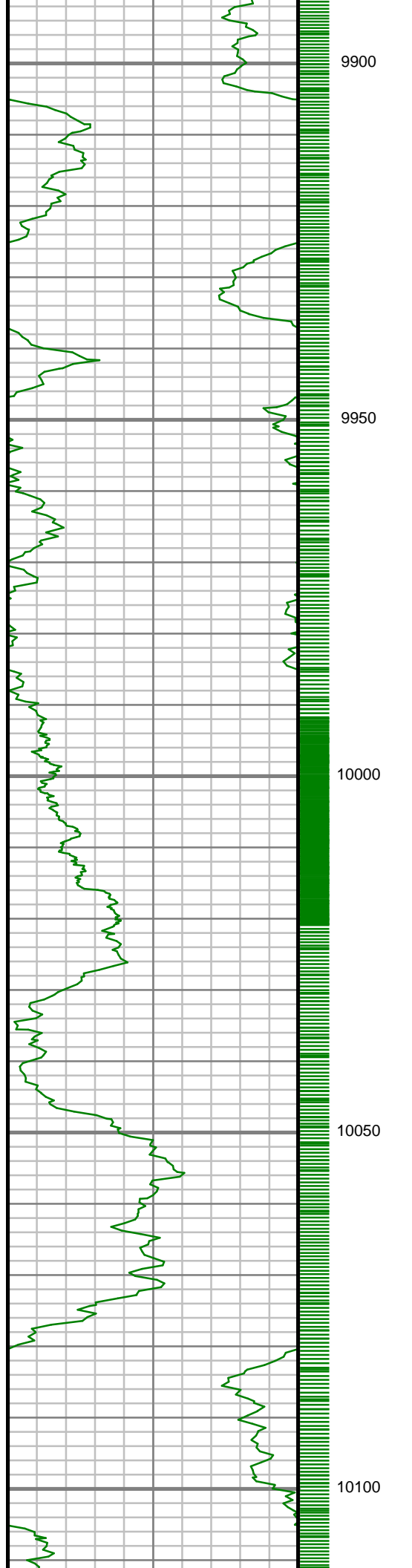
9850



S: 149 MD: 9708.00 ft
Inc: 88.56 deg Az:
181.09 deg TVD:
7089.49 ft

S: 150 MD: 9797.00 ft
Inc: 86.34 deg Az:
181.32 deg TVD:
7093.45 ft

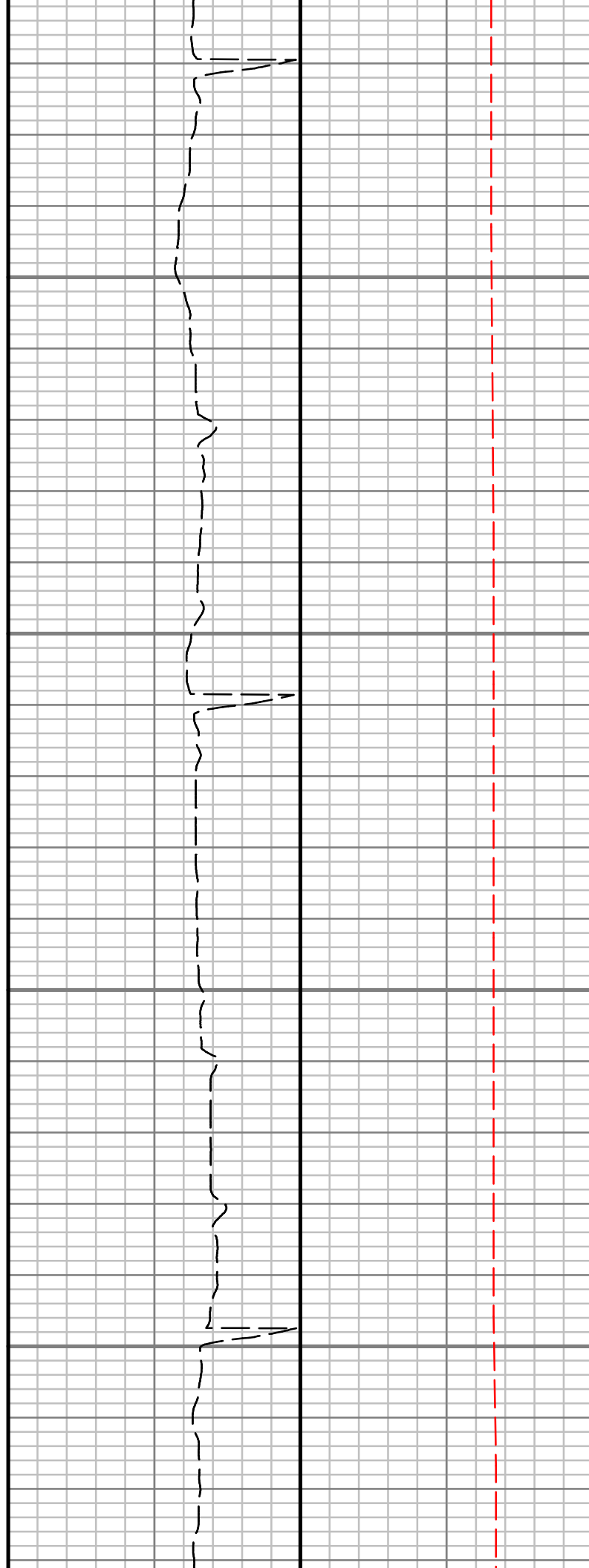
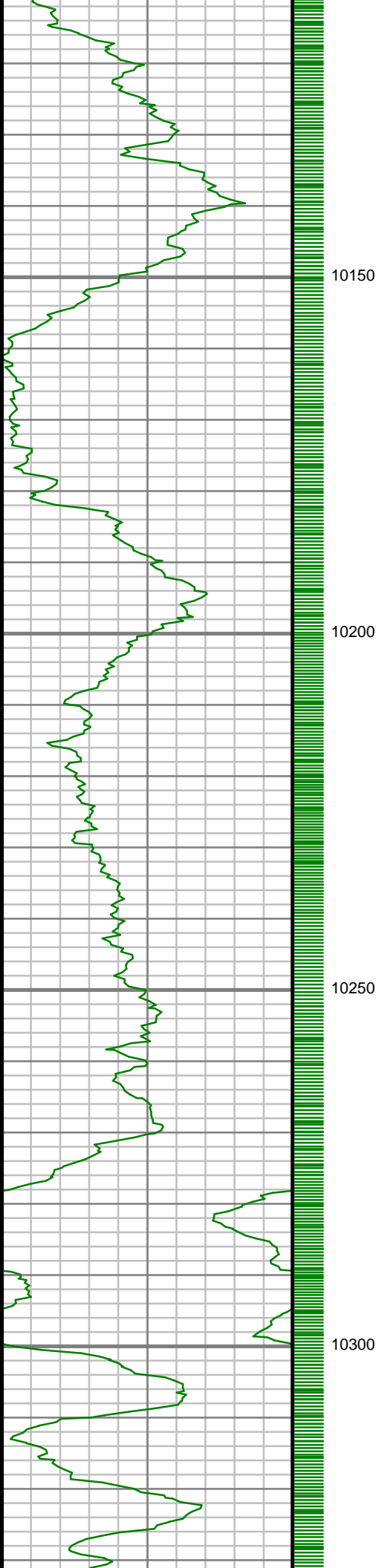
S: 151 MD: 9885.00 ft
Inc: 86.95 deg Az:
179.79 deg TVD:



179.79 deg TVD:
7098.60 ft

S: 152 MD: 9974.00 ft
Inc: 88.29 deg Az:
178.66 deg TVD:
7102.30 ft

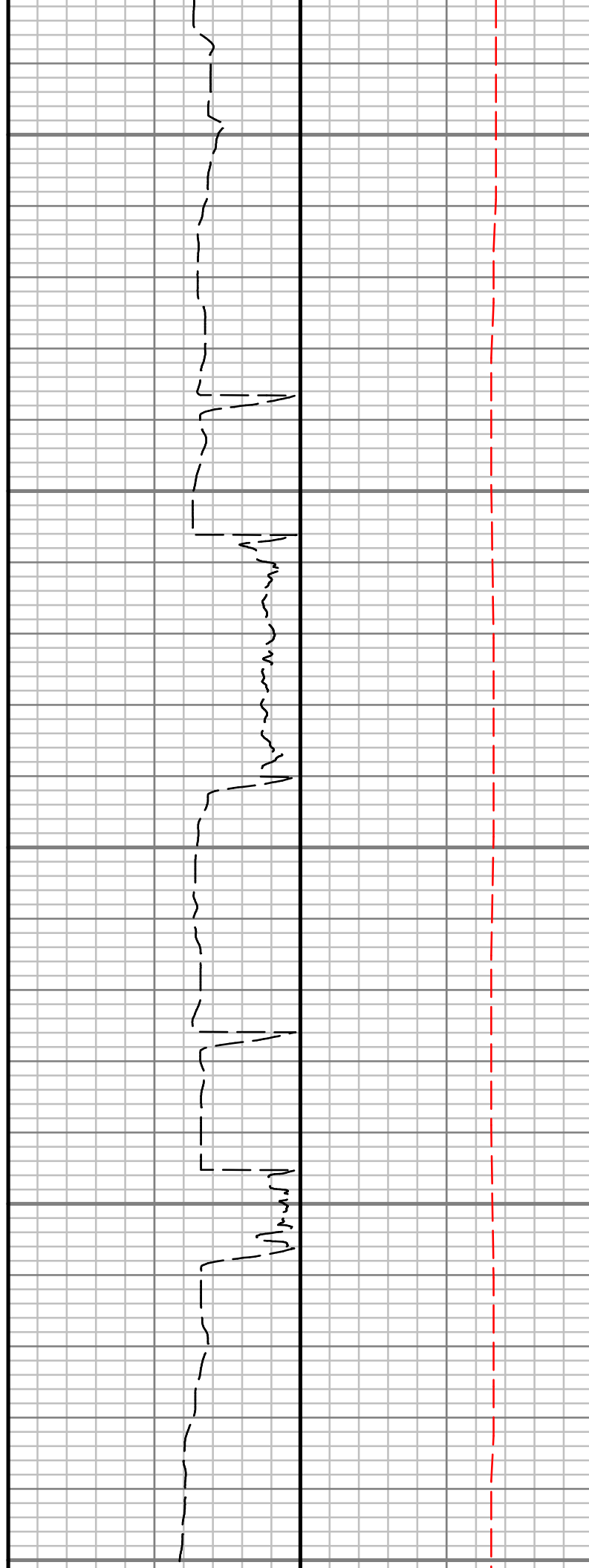
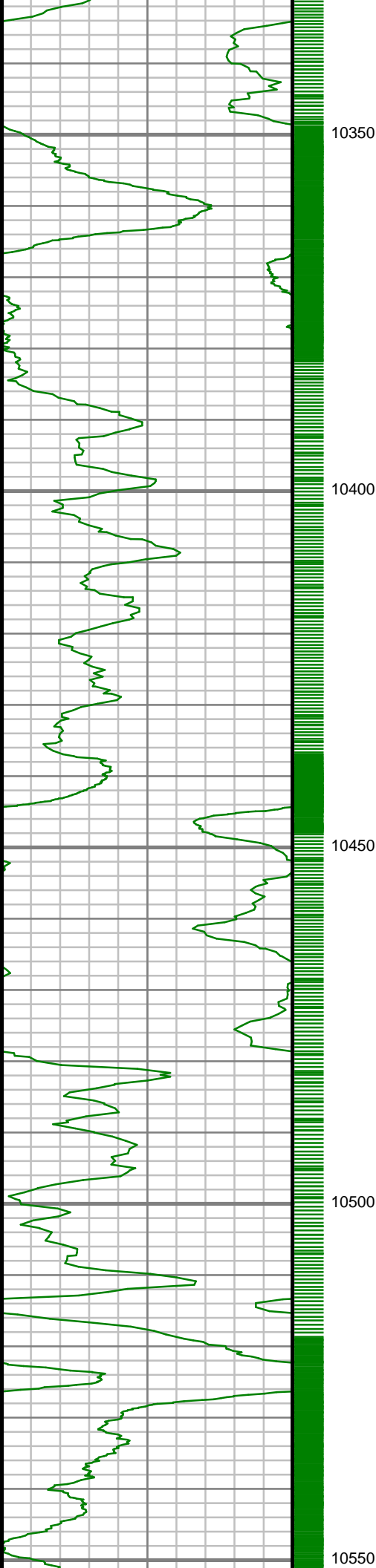
S: 153 MD: 10063.00 ft
Inc: 87.45 deg Az:
178.79 deg TVD:
7105.61 ft



S: 154 MD: 10152.00 ft
Inc: 86.68 deg Az:
179.38 deg TVD:
7110.16 ft

S: 155 MD: 10241.00 ft
Inc: 87.78 deg Az:
178.01 deg TVD:
7114.45 ft

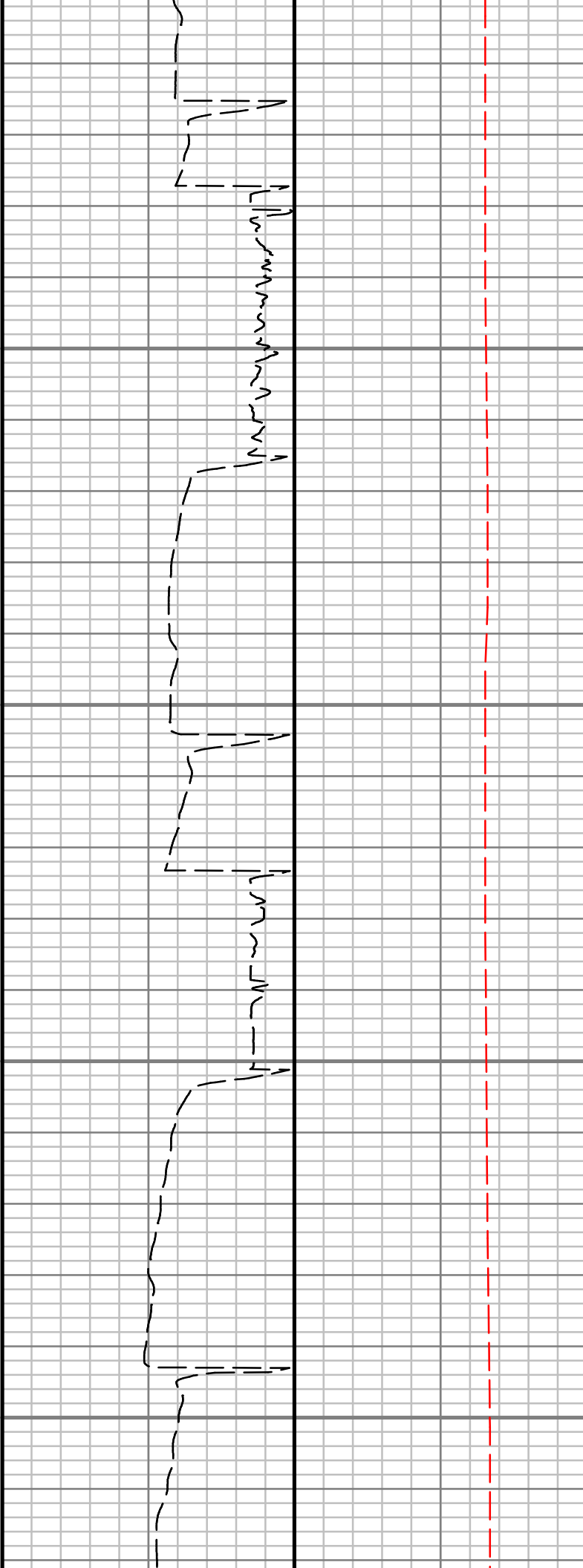
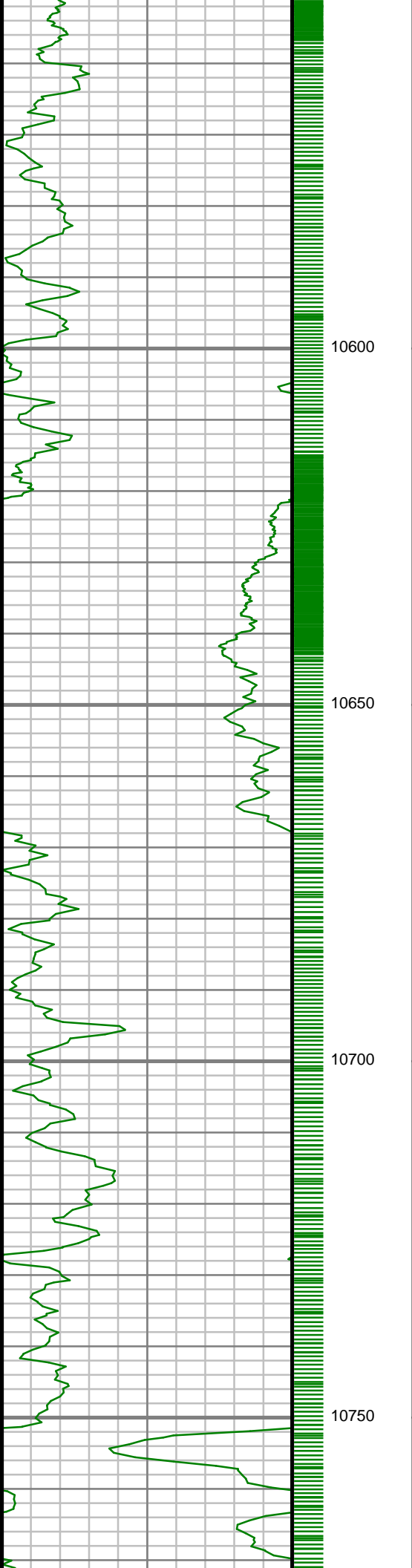
S: 156 MD: 10330.00 ft



S: 156 MD: 10350.00 ft
Inc: 89.30 deg Az:
176.90 deg TVD:
7116.72 ft

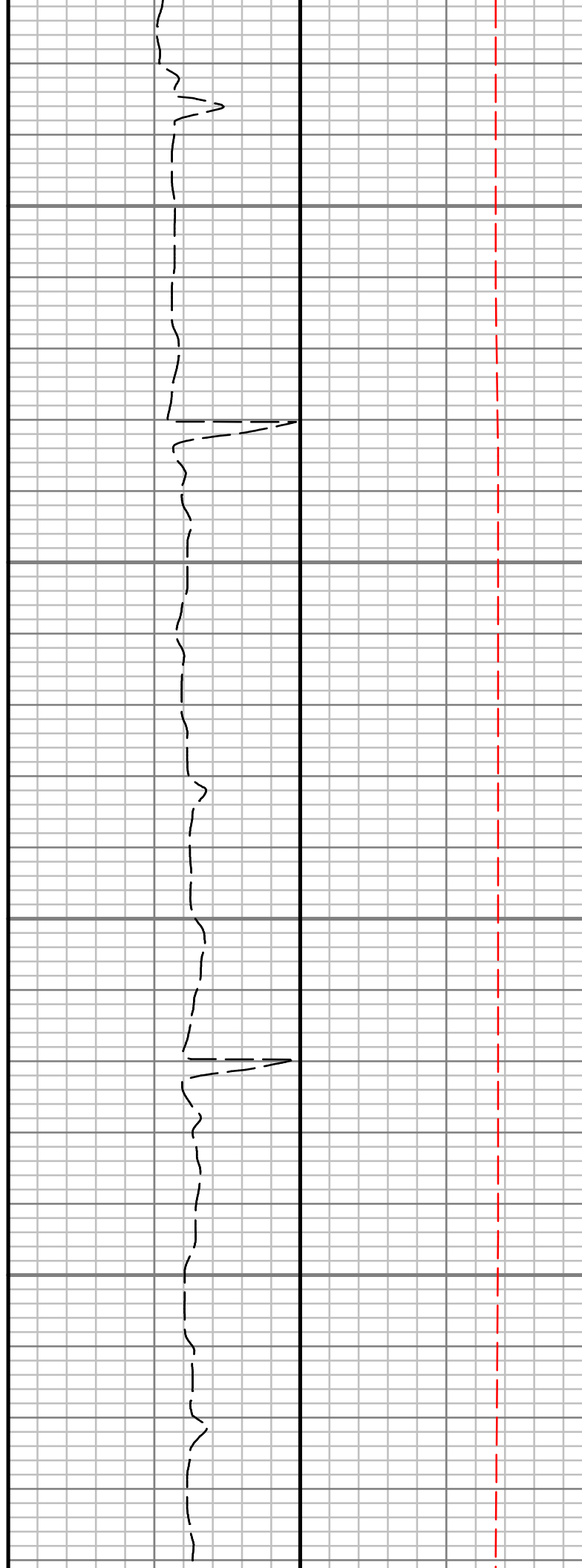
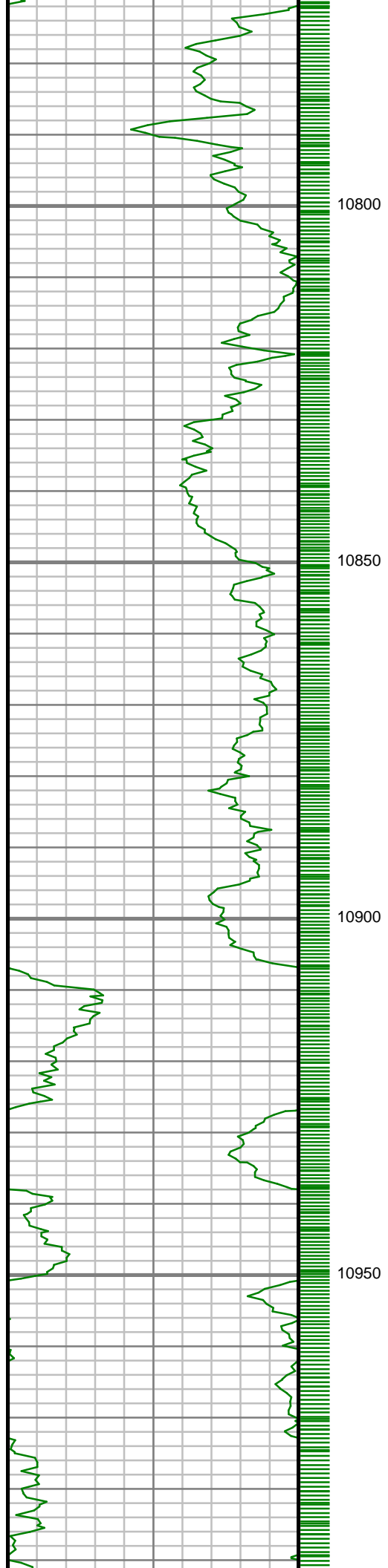
S: 157 MD: 10419.00 ft
Inc: 88.99 deg Az:
177.65 deg TVD:
7118.05 ft

S: 158 MD: 10508.00 ft
Inc: 89.90 deg Az:
179.93 deg TVD:
7118.91 ft



S: 159 MD: 10597.00 ft
Inc: 89.67 deg Az:
181.97 deg TVD:
7119.25 ft

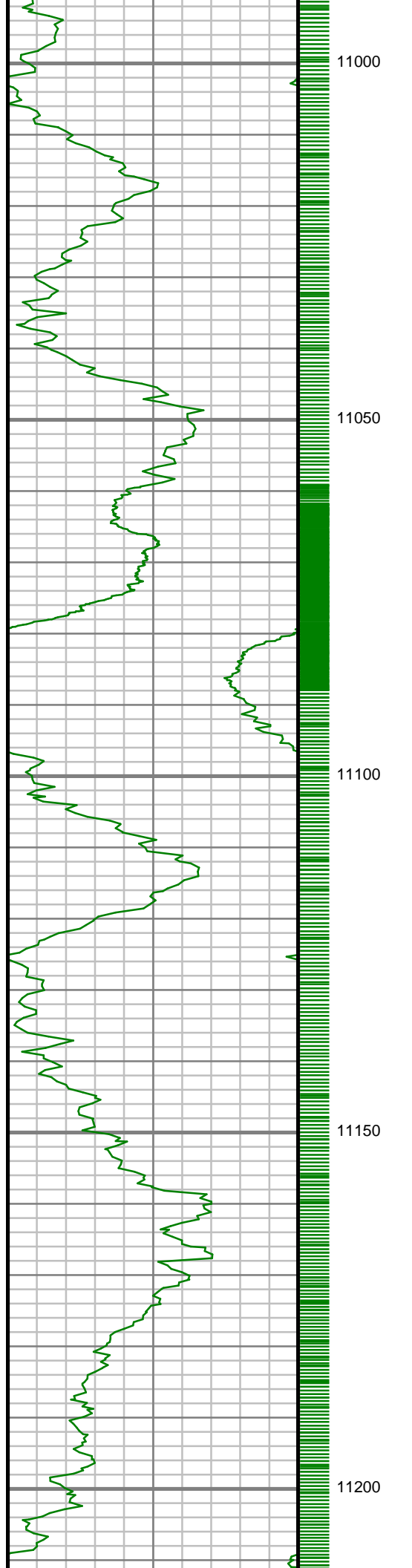
S: 160 MD: 10685.00 ft
Inc: 86.58 deg Az:
182.43 deg TVD:
7122.13 ft



S: 161 MD: 10774.00 ft
Inc: 85.37 deg Az:
182.06 deg TVD:
7128.38 ft

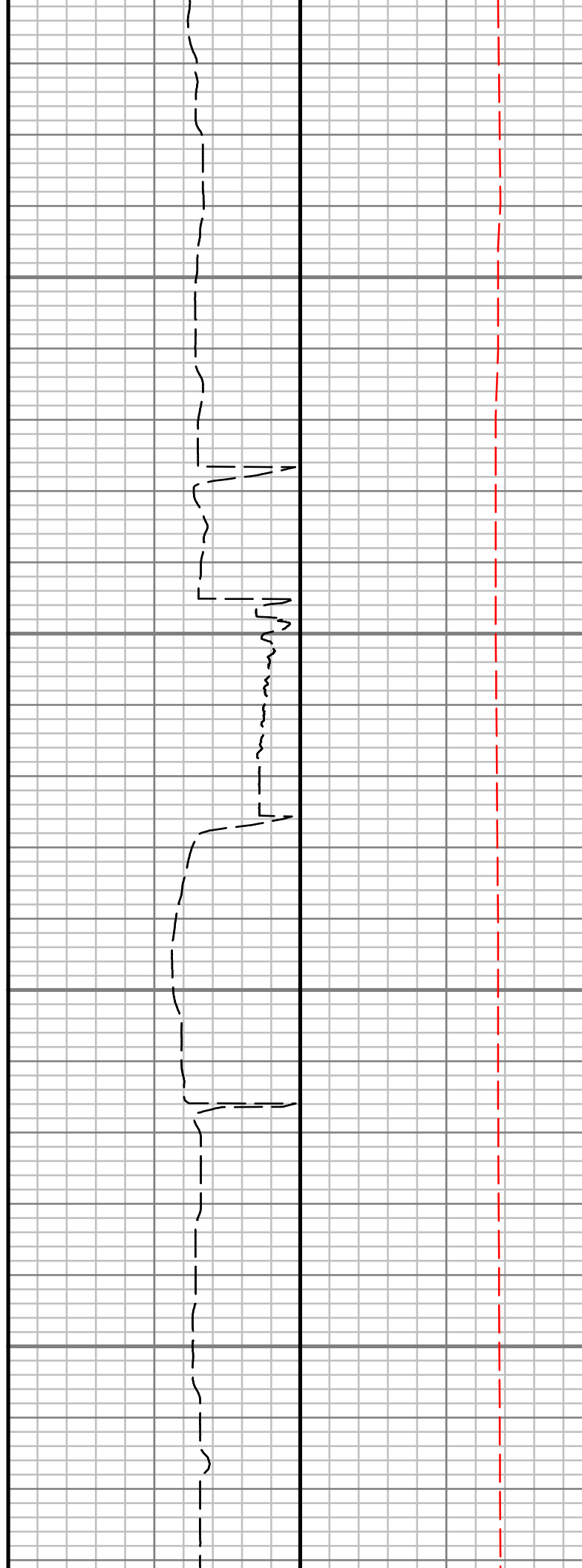
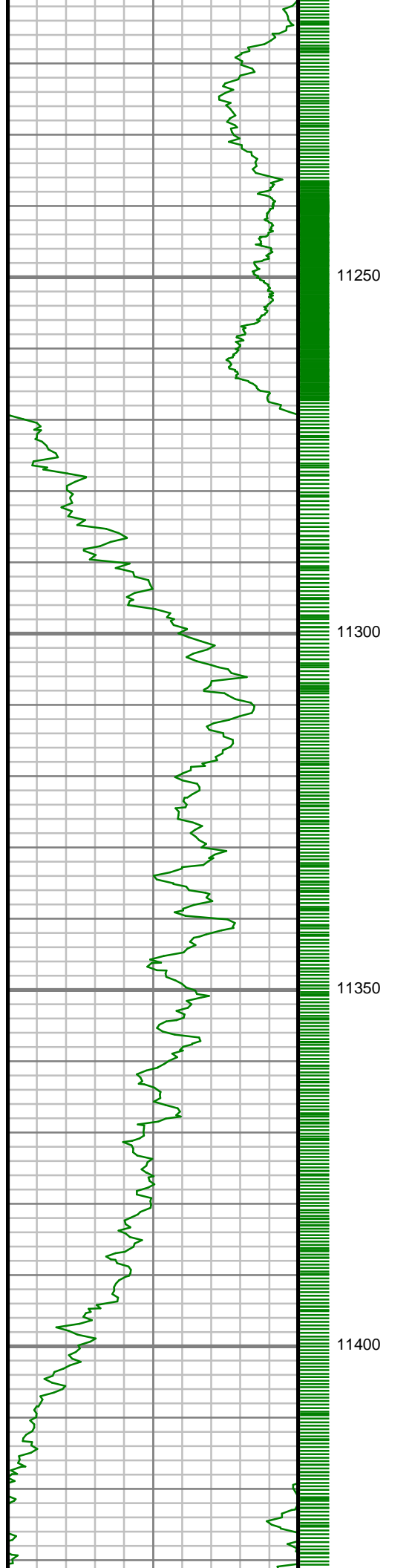
S: 162 MD: 10863.00 ft
Inc: 86.04 deg Az:
181.13 deg TVD:
7135.04 ft

S: 163 MD: 10952.00 ft
Inc: 87.38 deg Az:
180.20 deg TVD:
7140.14 ft



S: 164 MD: 11041.00 ft
Inc: 88.09 deg Az:
178.86 deg TVD:
7143.66 ft

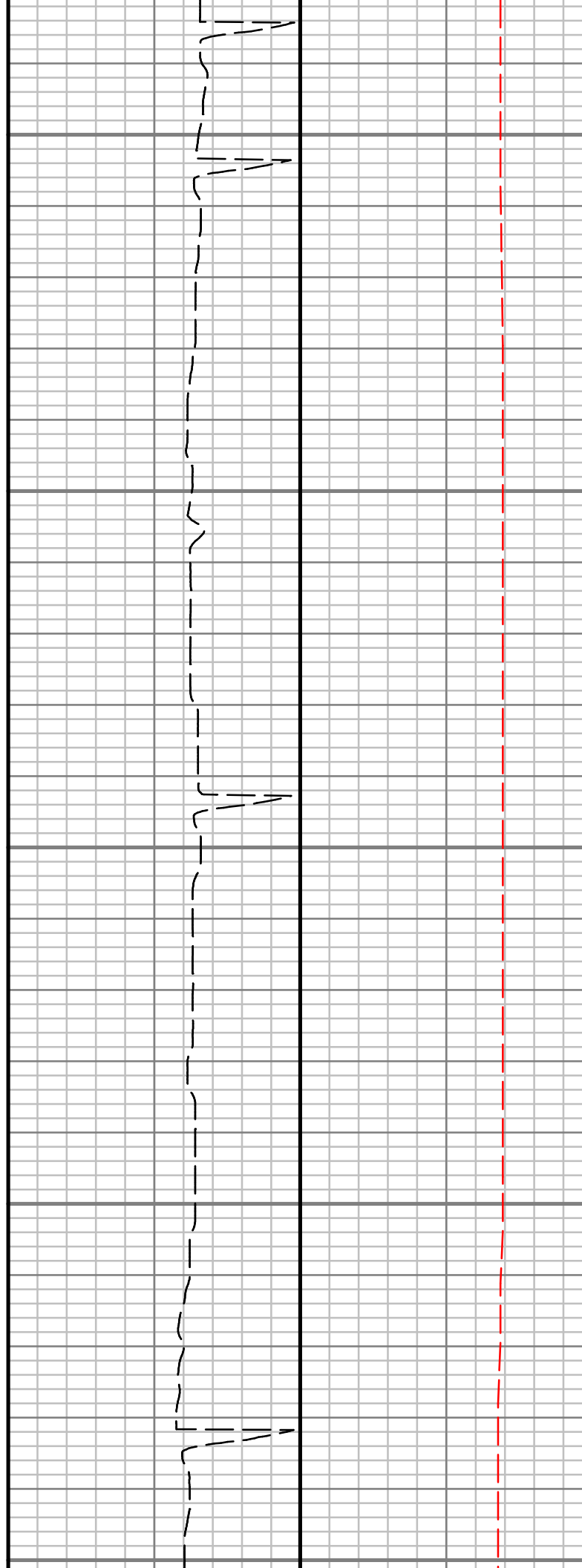
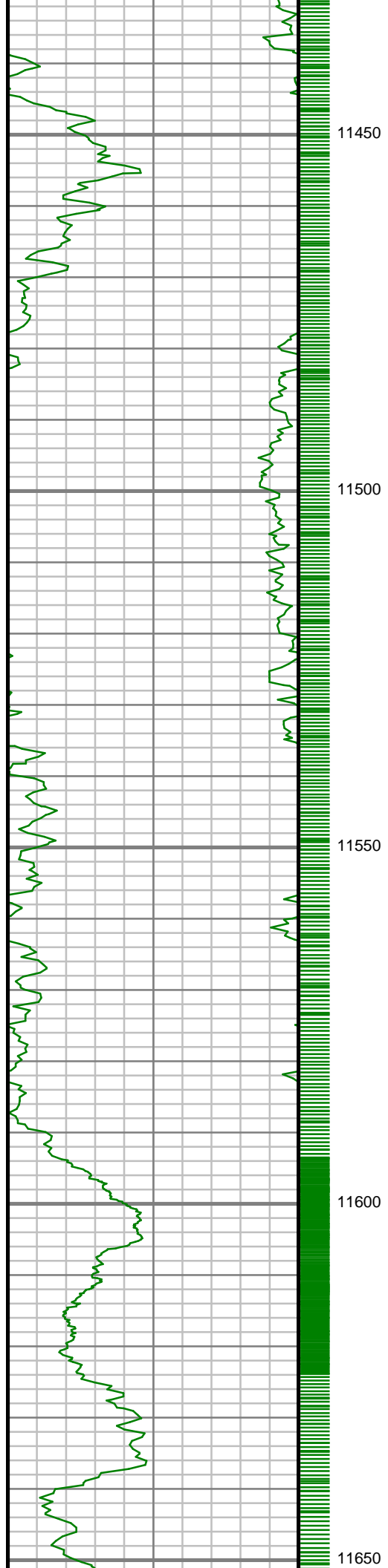
S: 165 MD: 11130.00 ft
Inc: 88.32 deg Az:
180.19 deg TVD:
7146.44 ft



S: 166 MD: 11219.00 ft
Inc: 87.78 deg Az:
180.87 deg TVD:
7149.47 ft

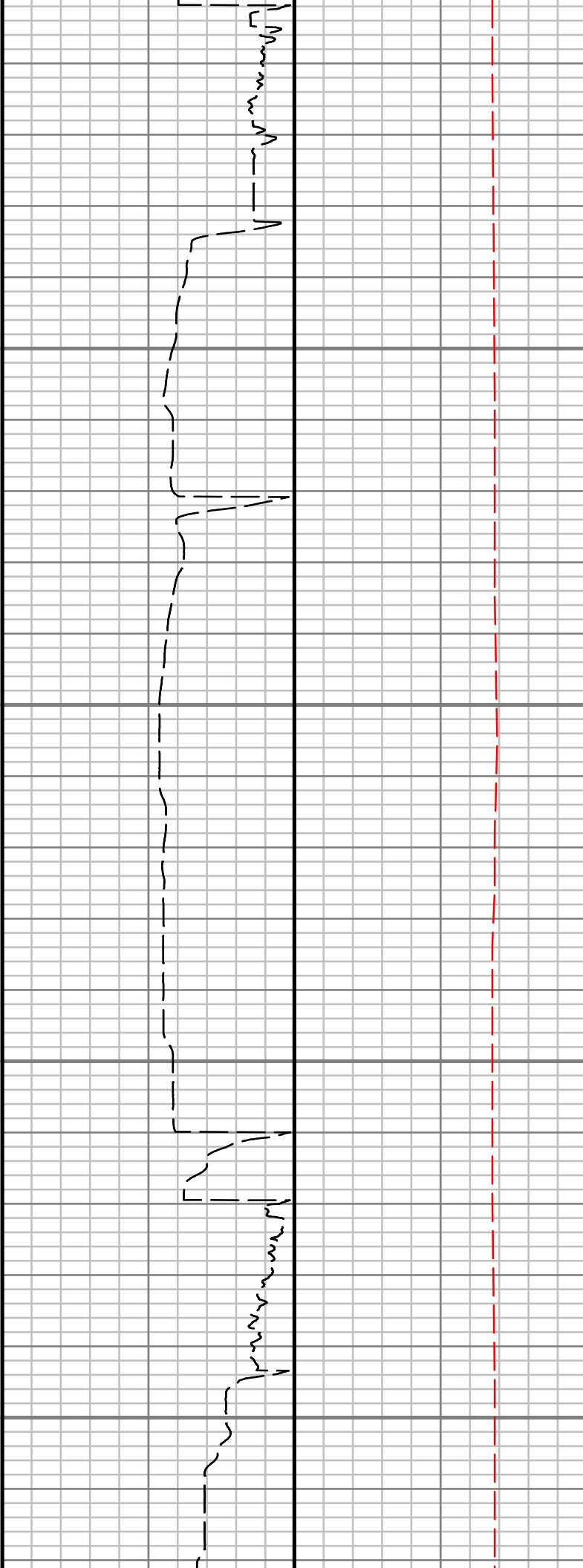
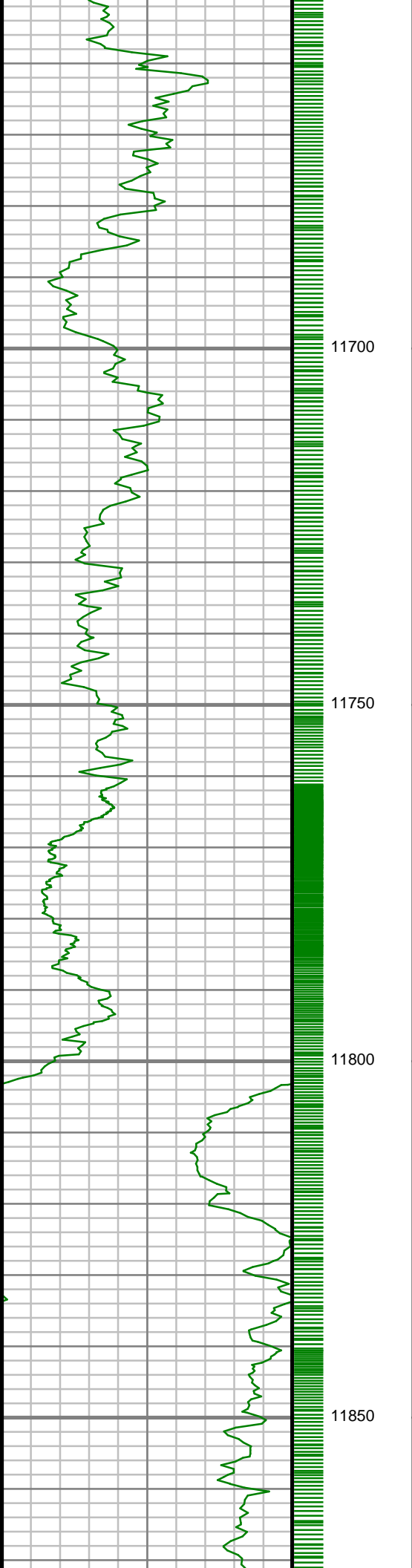
S: 167 MD: 11308.00 ft
Inc: 86.94 deg Az:
181.01 deg TVD:
7153.56 ft

S: 168 MD: 11397.00 ft
Inc: 84.66 deg Az:
180.09 deg TVD:
7160.07 ft



S: 169 MD: 11486.00 ft
Inc: 86.14 deg Az:
179.54 deg TVD:
7167.21 ft

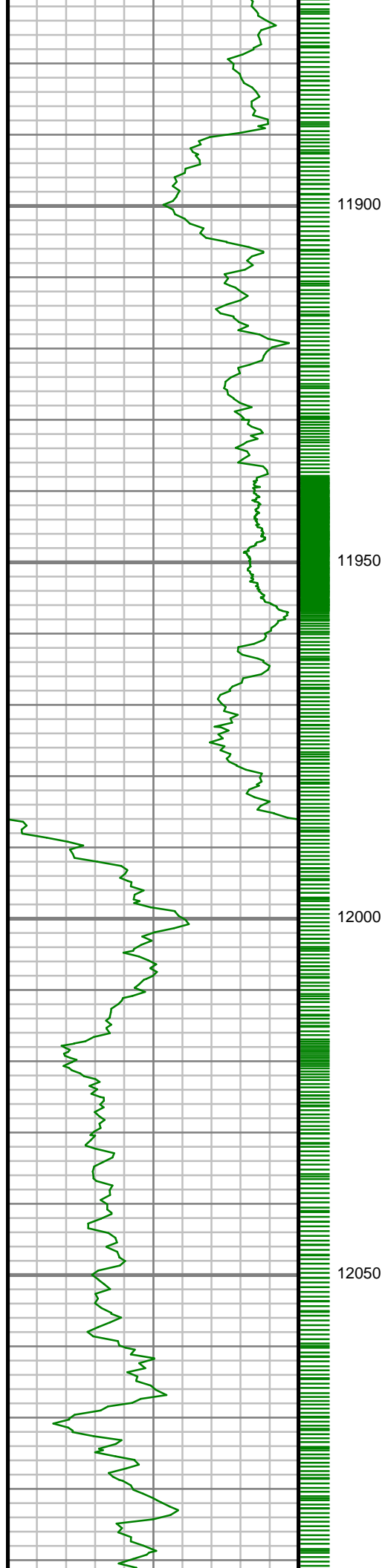
S: 170 MD: 11575.00 ft
Inc: 87.45 deg Az:
178.88 deg TVD:
7172.18 ft



S: 171 MD: 11664.00 ft
Inc: 87.82 deg Az:
179.09 deg TVD:
7175.84 ft

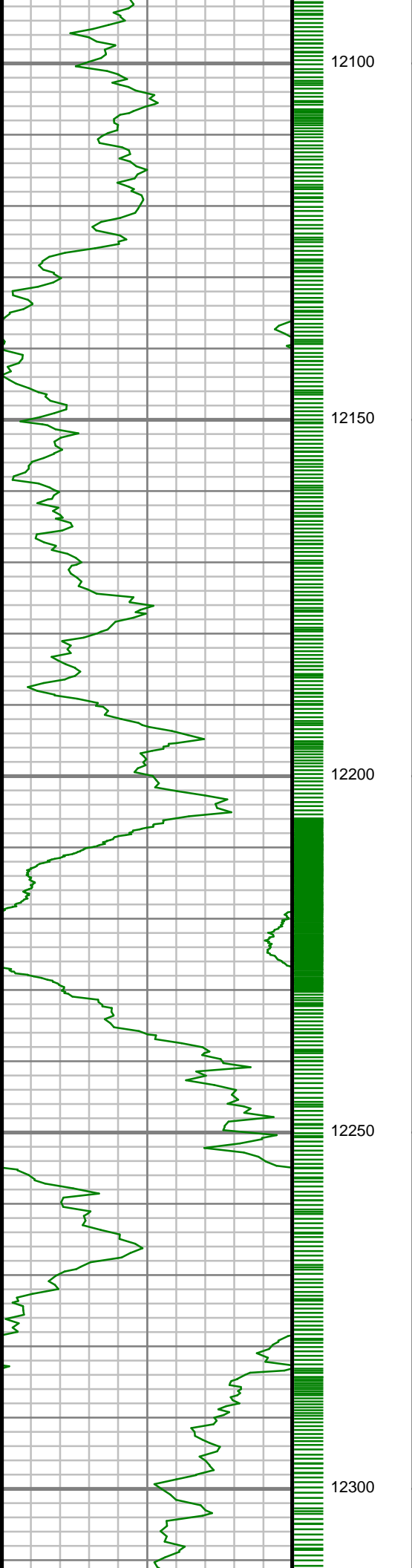
S: 172 MD: 11753.00 ft
Inc: 87.59 deg Az:
179.88 deg TVD:
7179.41 ft

S: 173 MD: 11841.00 ft
Inc: 86.48 deg Az:
180.85 deg TVD:
7183.96 ft



S: 174 MD: 11930.00 ft
Inc: 87.35 deg Az:
180.07 deg TVD:
7188.75 ft

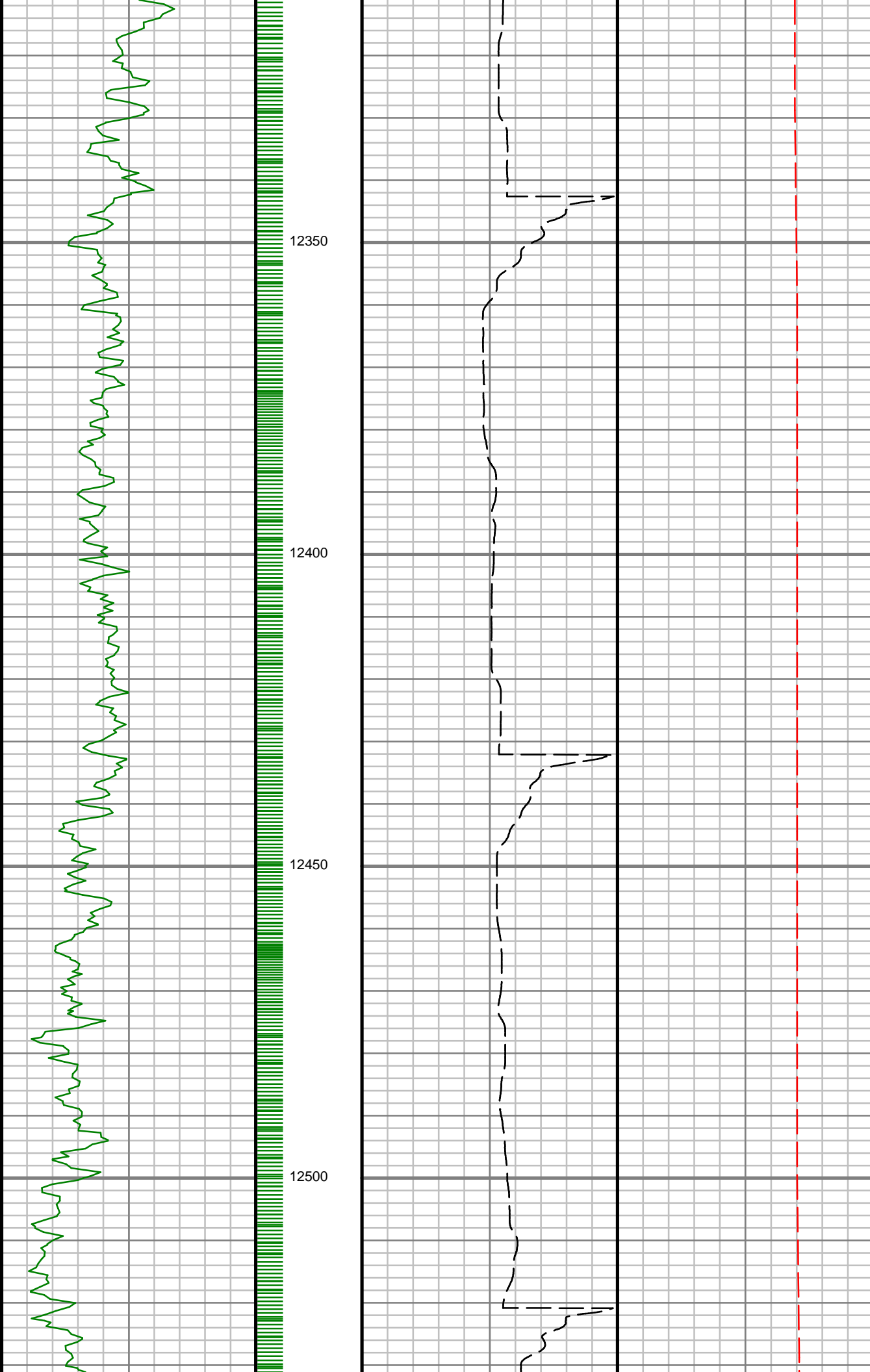
S: 175 MD: 12019.00 ft
Inc: 86.07 deg Az:
180.62 deg TVD:
7193.86 ft



S: 176 MD: 12108.00 ft
Inc: 86.98 deg Az:
180.17 deg TVD:
7199.25 ft

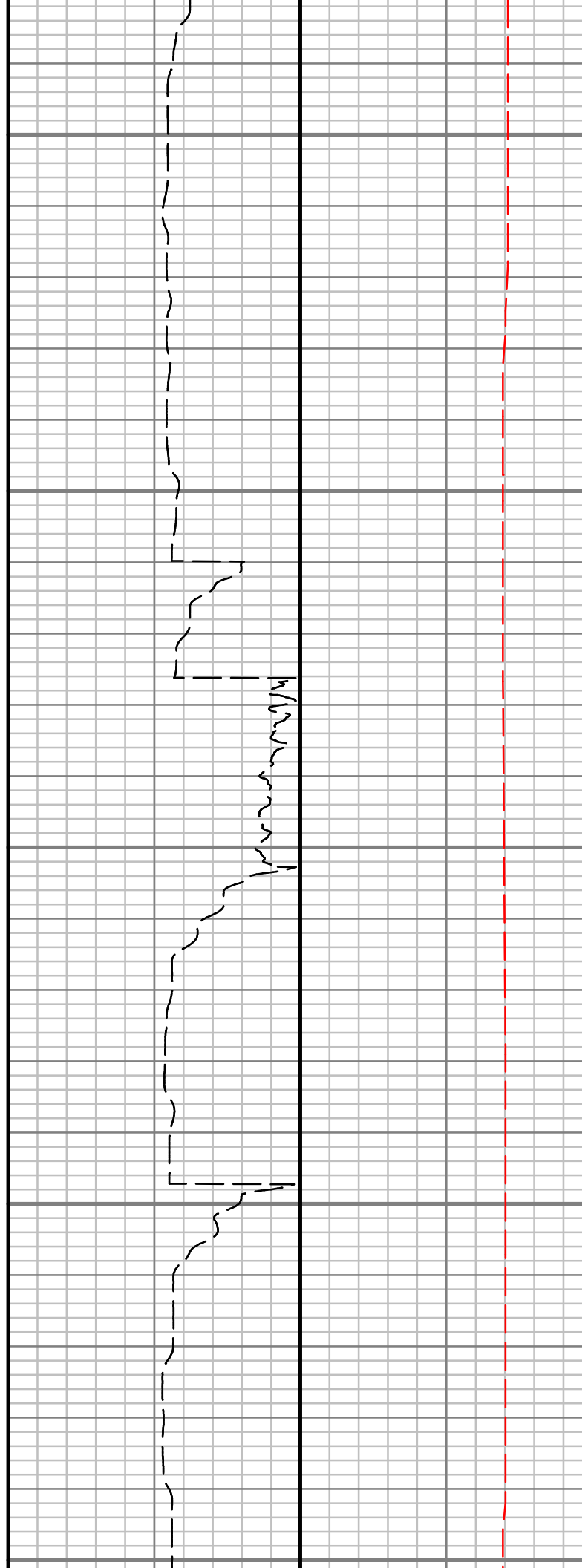
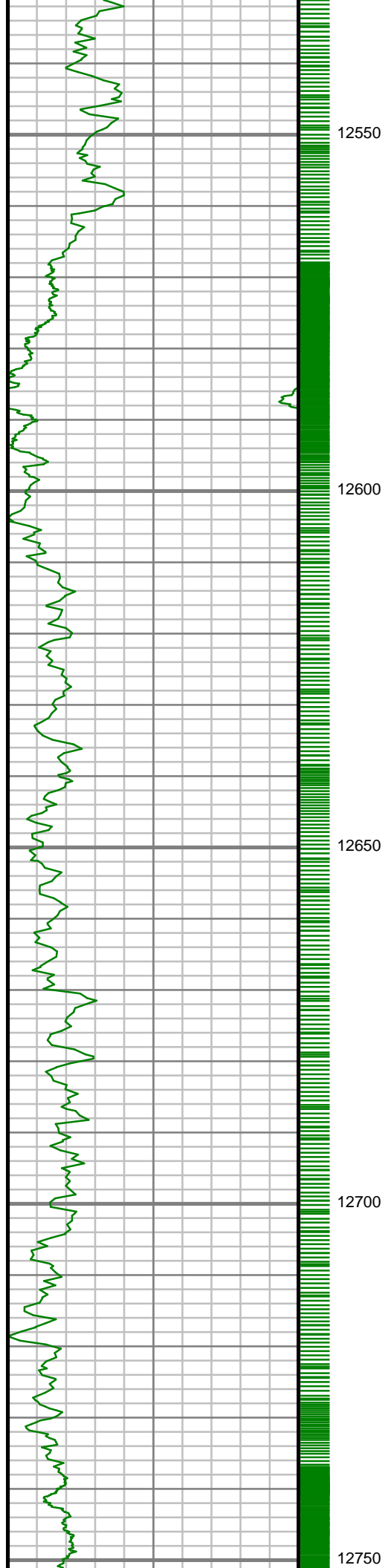
S: 177 MD: 12197.00 ft
Inc: 88.19 deg Az:
179.35 deg TVD:
7203.00 ft

S: 178 MD: 12286.00 ft
Inc: 86.28 deg Az:
179.64 deg TVD:
7207.29 ft



S: 179 MD: 12374.00 ft
Inc: 86.71 deg Az:
179.38 deg TVD:
7212.67 ft

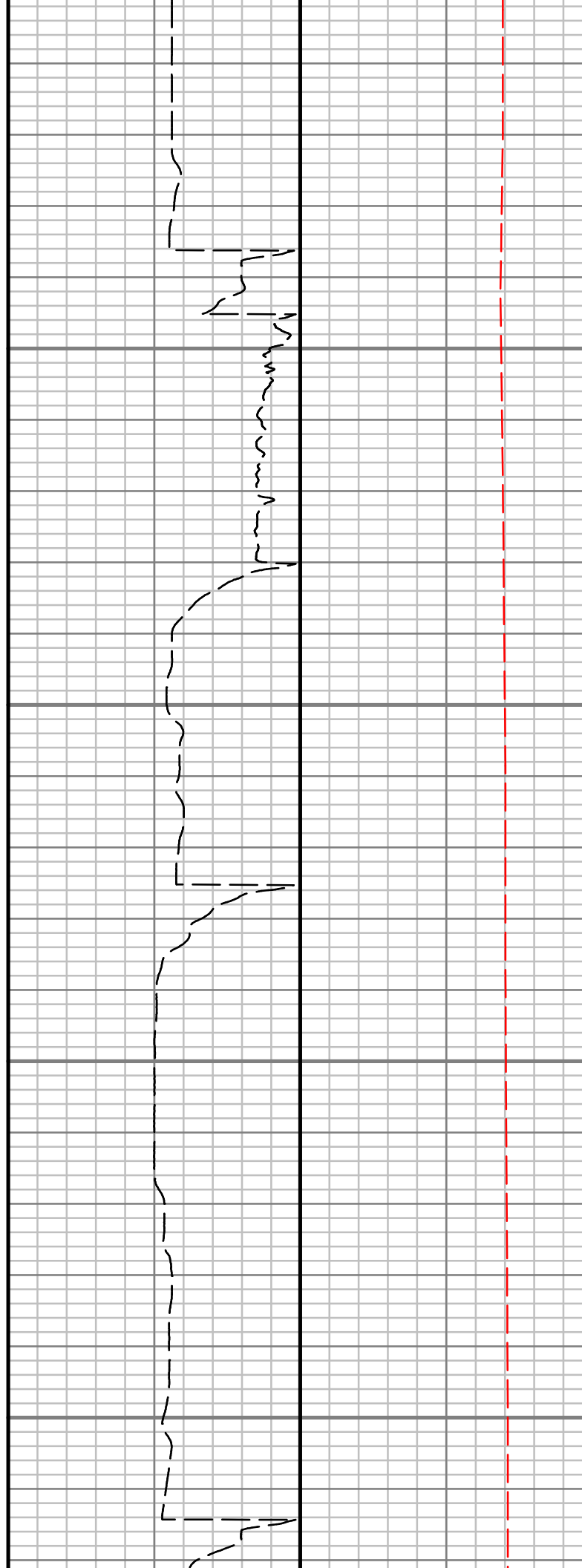
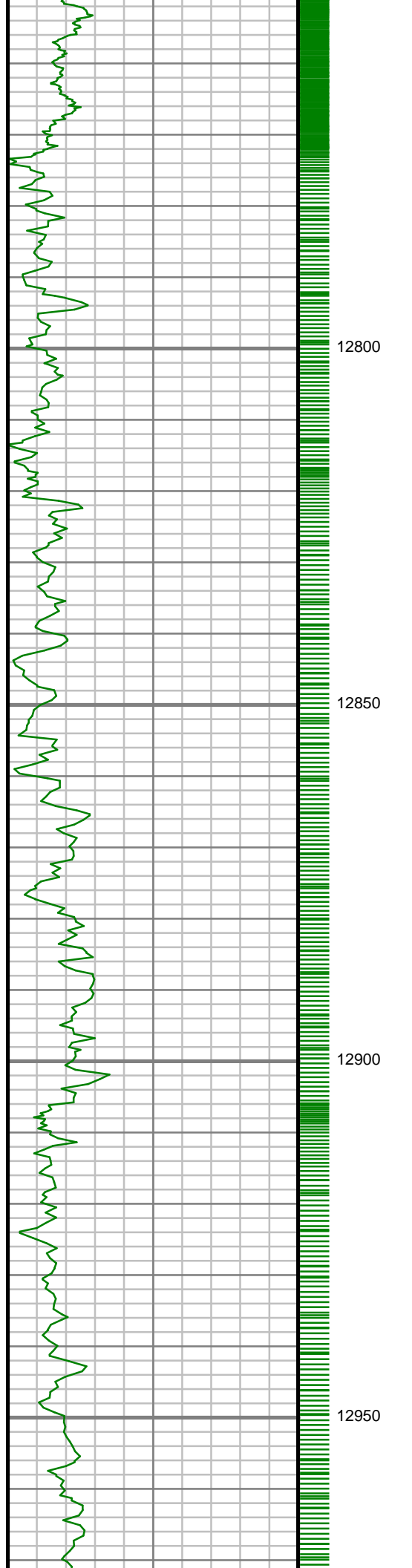
S: 180 MD: 12463.00 ft
Inc: 87.42 deg Az:
178.31 deg TVD:
7217.22 ft



S: 181 MD: 12552.00 ft
Inc: 88.29 deg Az:
177.38 deg TVD:
7220.55 ft

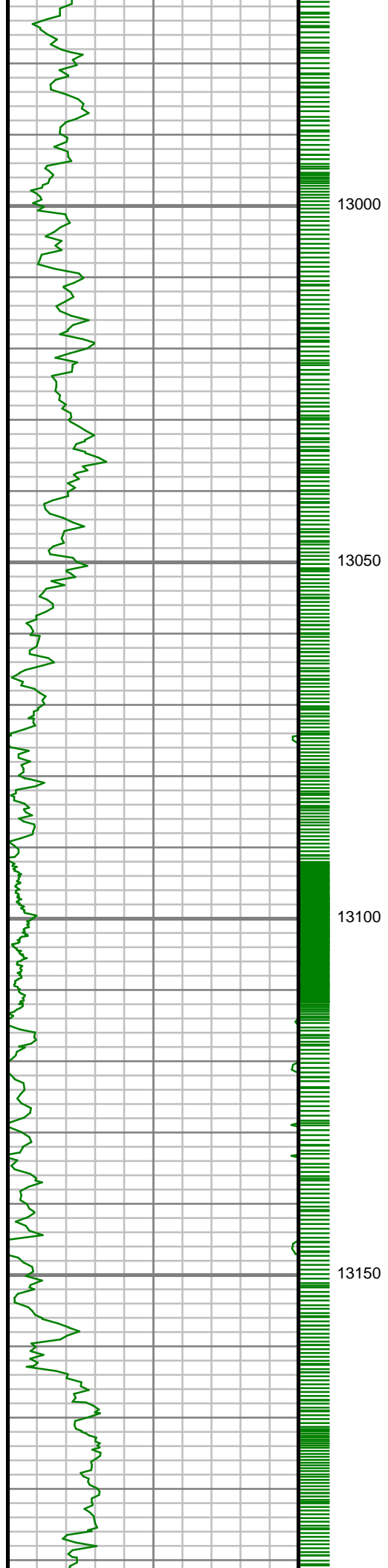
S: 182 MD: 12641.00 ft
Inc: 88.89 deg Az:
179.72 deg TVD:
7222.73 ft

S: 183 MD: 12729.00 ft
Inc: 89.30 deg Az:
180.47 deg TVD:
7224.12 ft



S: 184 MD: 12818.00 ft
Inc: 86.58 deg Az:
182.14 deg TVD:
7227.32 ft

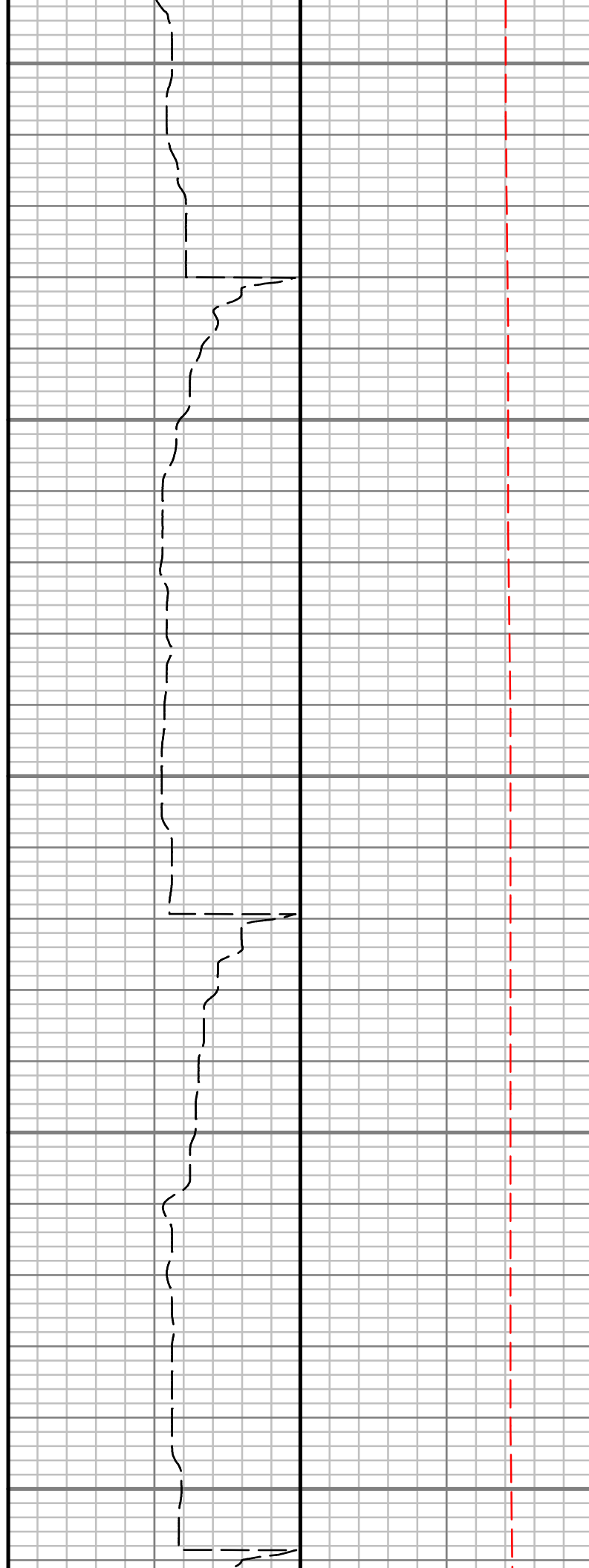
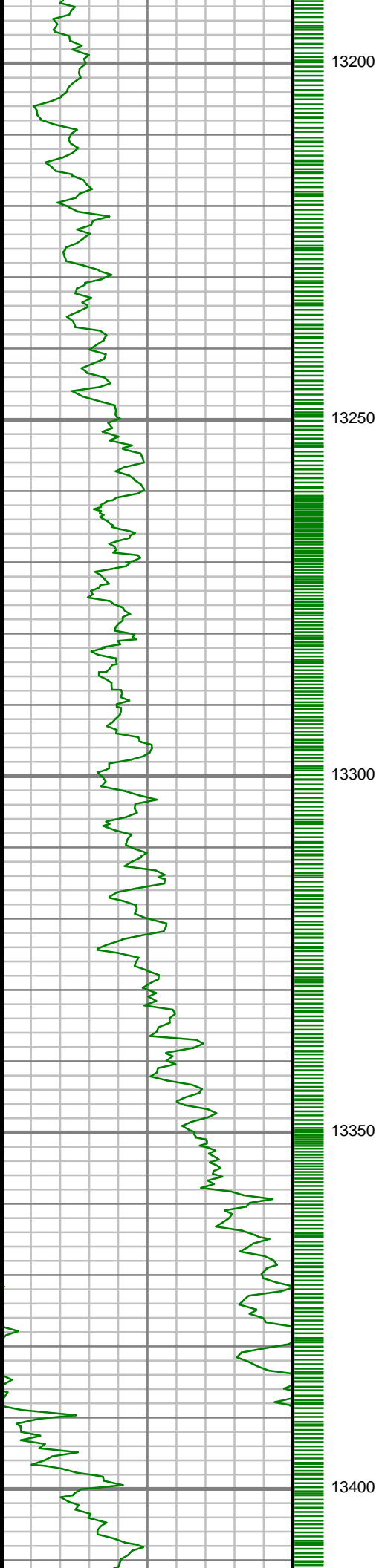
S: 185 MD: 12907.00 ft
Inc: 85.77 deg Az:
181.98 deg TVD:
7233.25 ft



S: 186 MD: 12996.00 ft
Inc: 86.68 deg Az:
181.85 deg TVD:
7239.11 ft

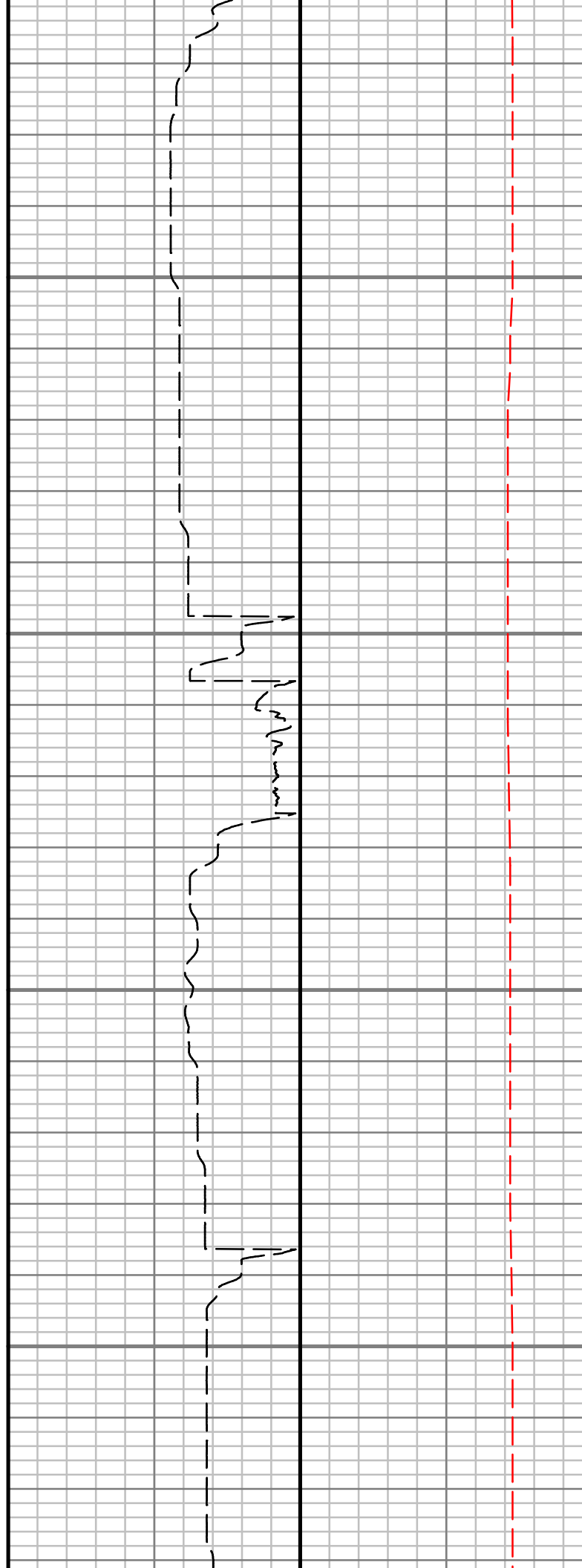
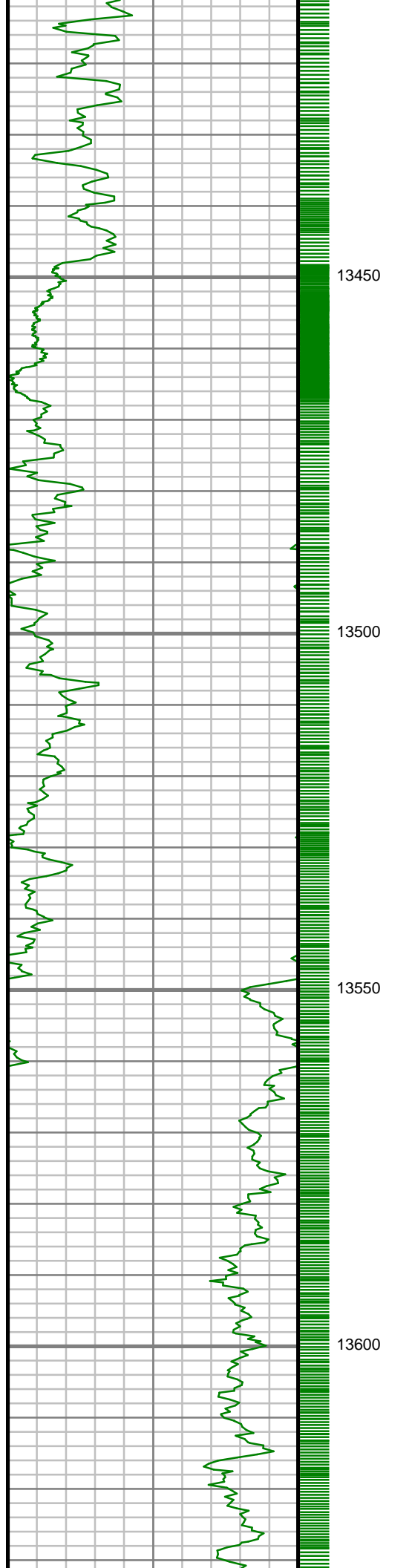
S: 187 MD: 13084.00 ft
Inc: 87.95 deg Az:
181.88 deg TVD:
7243.23 ft

S: 188 MD: 13173.00 ft
Inc: 86.05 deg Az:
181.97 deg TVD:
7247.89 ft



S: 189 MD: 13262.00 ft
Inc: 86.38 deg Az:
181.09 deg TVD:
7253.76 ft

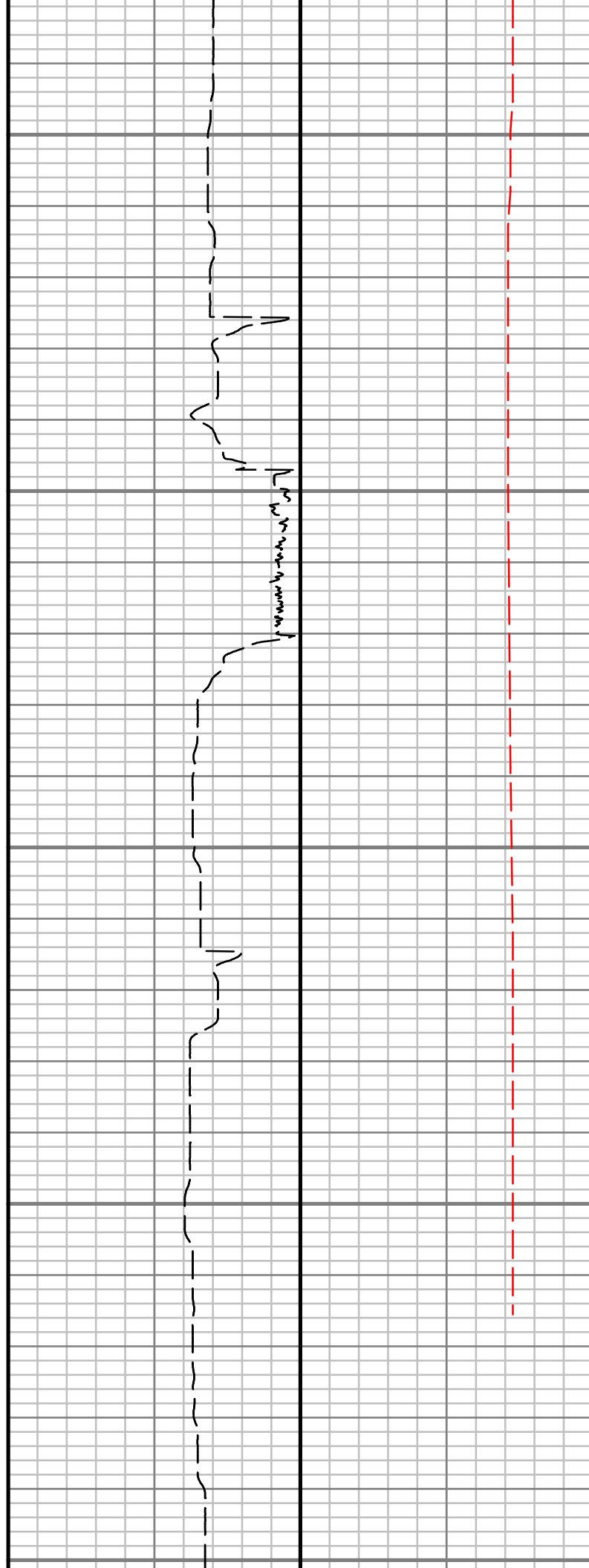
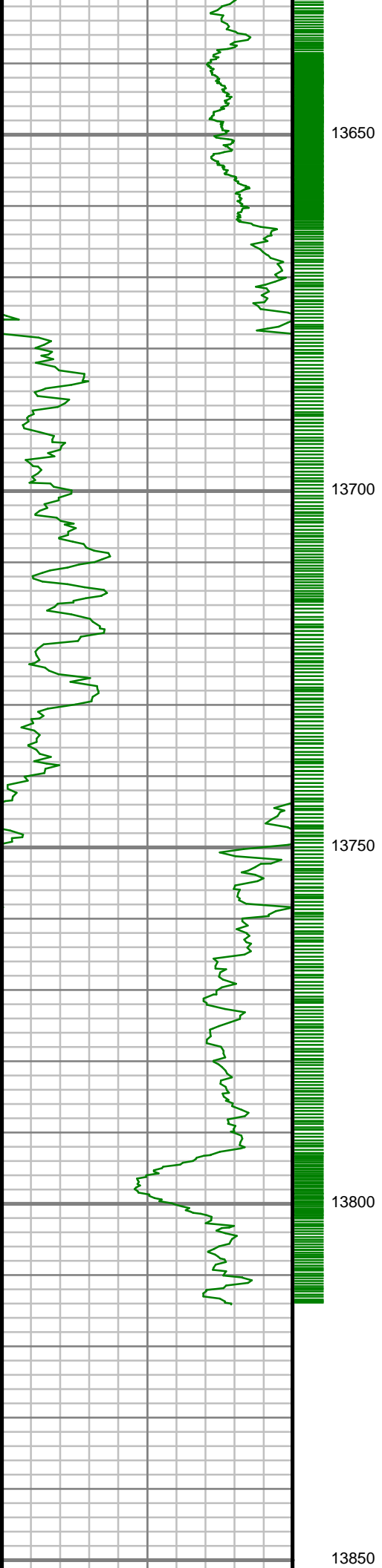
S: 190 MD: 13351.00 ft
Inc: 86.95 deg Az:
180.42 deg TVD:
7258.94 ft



S: 191 MD: 13440.00 ft
Inc: 87.82 deg Az:
180.09 deg TVD:
7262.99 ft

S: 192 MD: 13529.00 ft
Inc: 87.66 deg Az:
180.53 deg TVD:
7266.50 ft

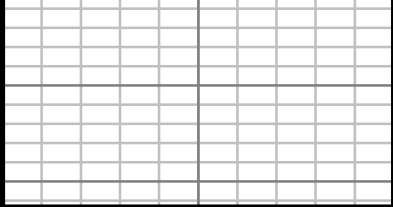
S: 193 MD: 13618.00 ft
Inc: 89.06 deg Az:
180.44 deg TVD:
7269.05 ft



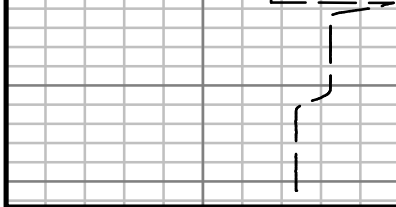
S: 194 MD: 13706.00 ft
Inc: 88.69 deg Az:
180.85 deg TVD:
7270.78 ft

S: 195 MD: 13795.00 ft
Inc: 88.46 deg Az:
181.47 deg TVD:
7272.99 ft

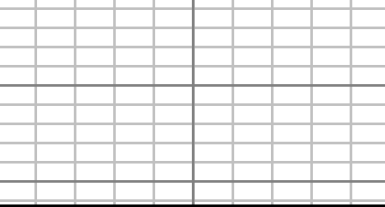
S: 196 MD: 13816.00 ft
Inc: 89.09 deg Az:
181.31 deg TVD:
7273.44 ft



Gamma Ray (GR)		
150	Unit = aapi	300



Rate of Penetration (ROP)		
1000	Unit = ft/hr	0



Tool Temperature (TEMP)		
0	Unit = °F	300

Comments

MEASURED DEPTH
1:240 (ft)



GAMMA RAY

5" = 100' MD