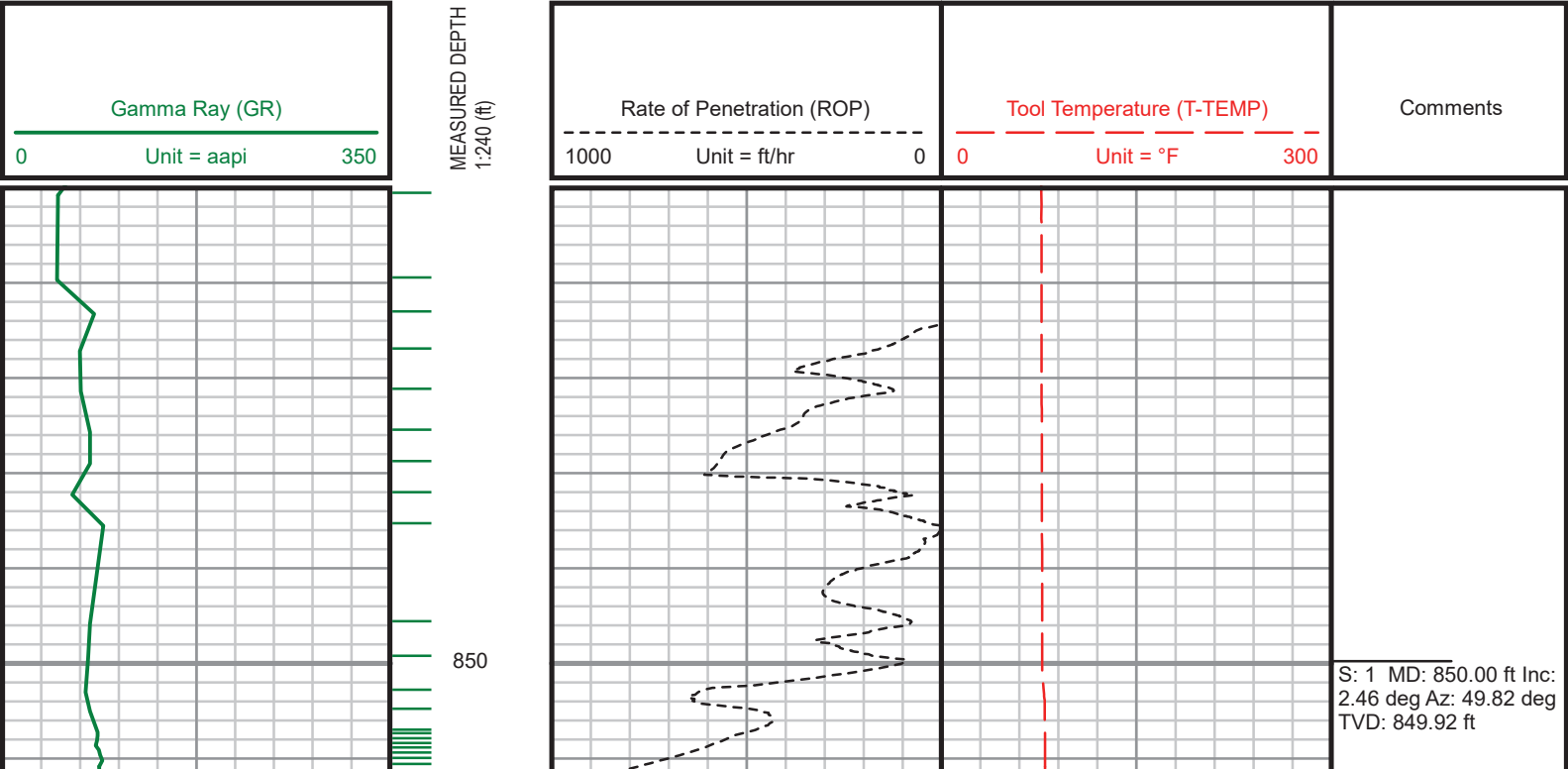


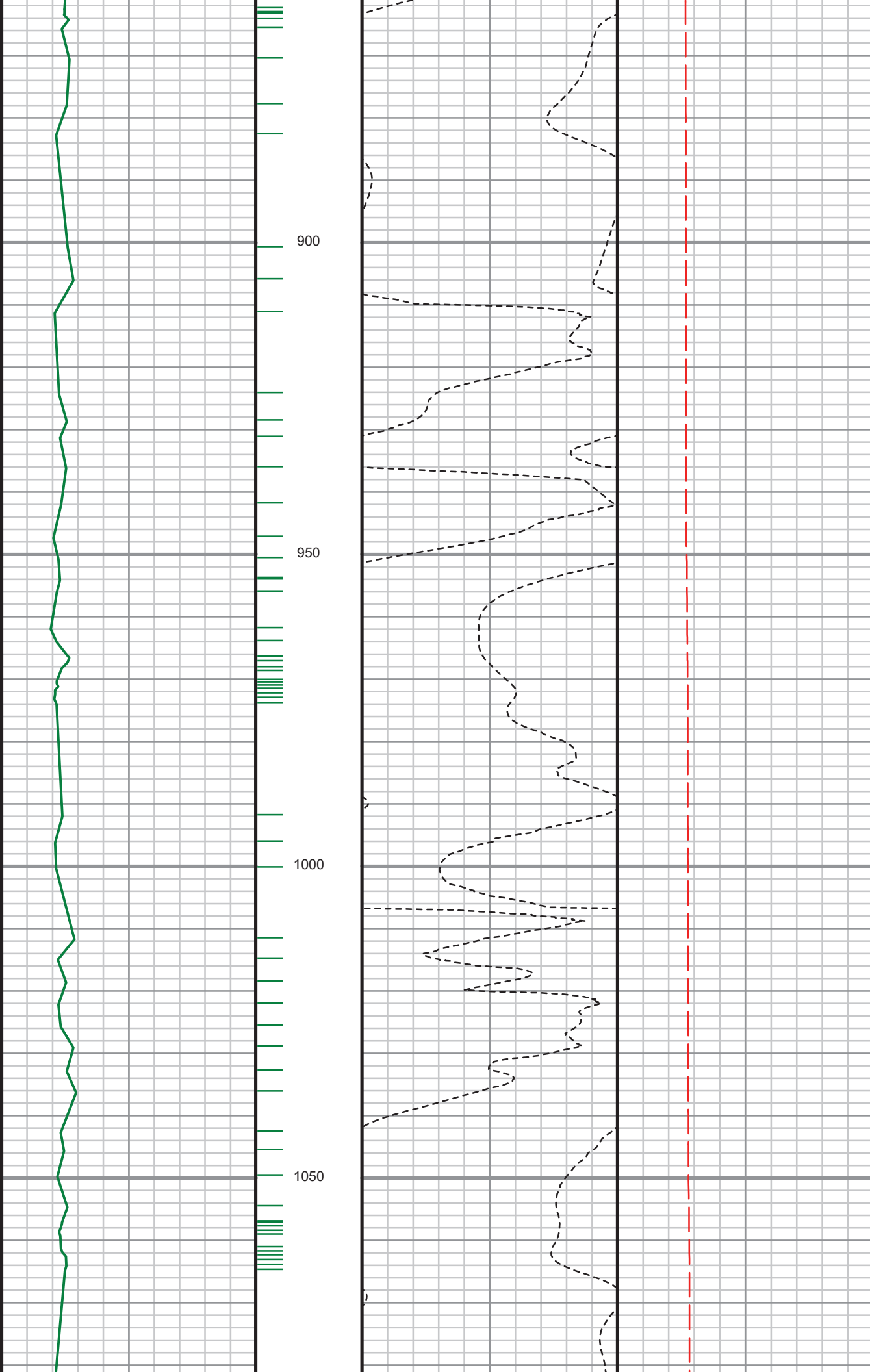


Remarks
BILL BARRETT PRODUCTION AFE# 19794D
SCIENTIFIC DRILLING INTERNATIONAL JOB# OP.004510
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO TOOL TEMPERATURE CURVE
RUN #1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER 128-236 / CONT = 457 / MWD EYE = 1480 / GAMMA RAY = 1401
BIT TO SENSOR OFFSETS: SURVEY = 57.63 FT. / GAMMA RAY = 53.63 FT
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER 78-295 / CONT = 499 / MWD EYE = 1500 / GAMMA RAY = 1024
BIT TO SENSOR OFFSETS: SURVEY = 54.49 FT. / GAMMA RAY = 50.49 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.

BILL BARRETT CORP.  
ANSCHUTZ EQUUS FARMS 4-62-29-5764C  
WATTENBERG FIELD  
WELD COUNTY, COLORADO  
05-123-42748

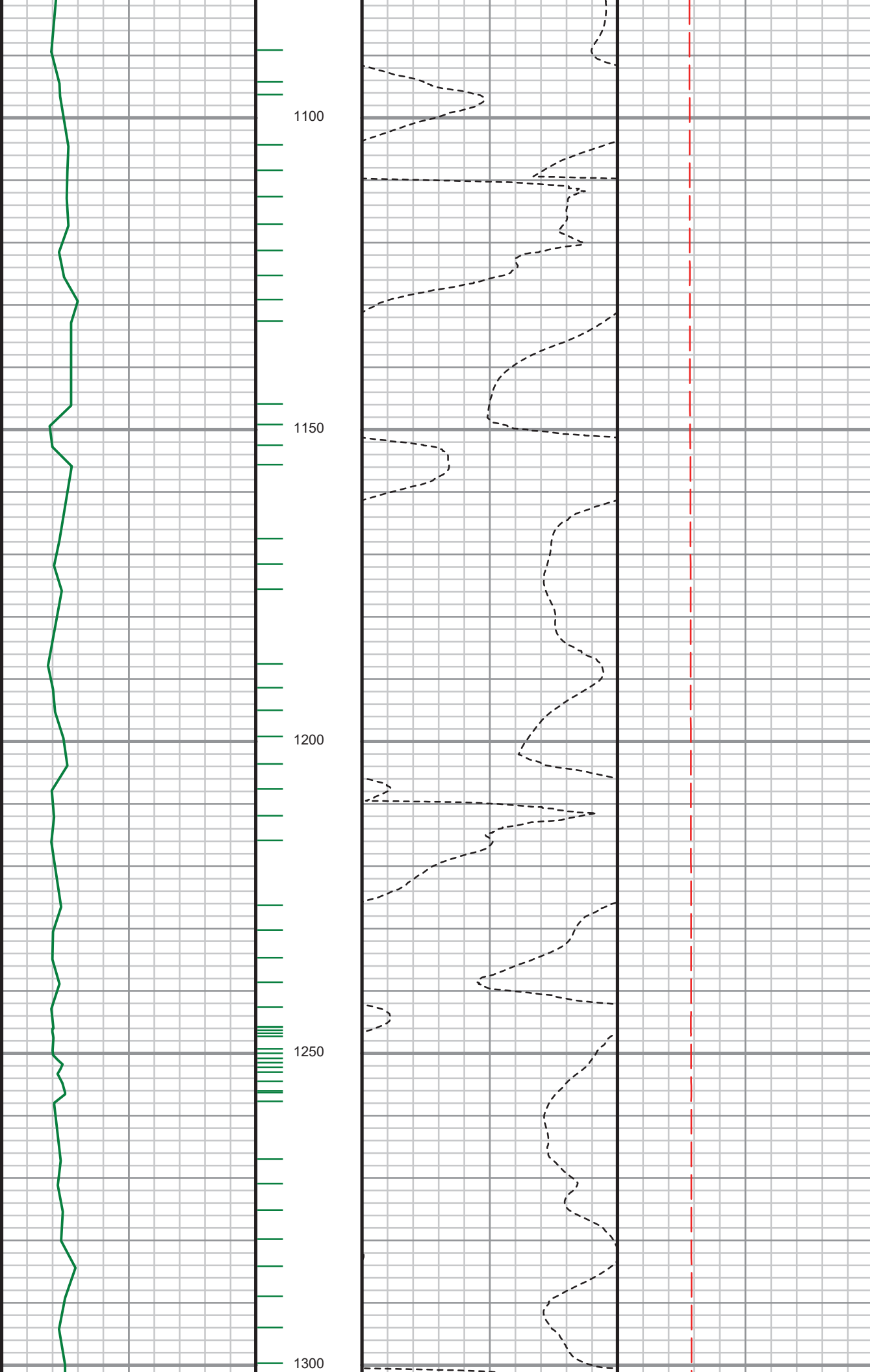




S: 2 MD: 882.00 ft Inc:  
2.73 deg Az: 49.65 deg  
TVD: 881.88 ft

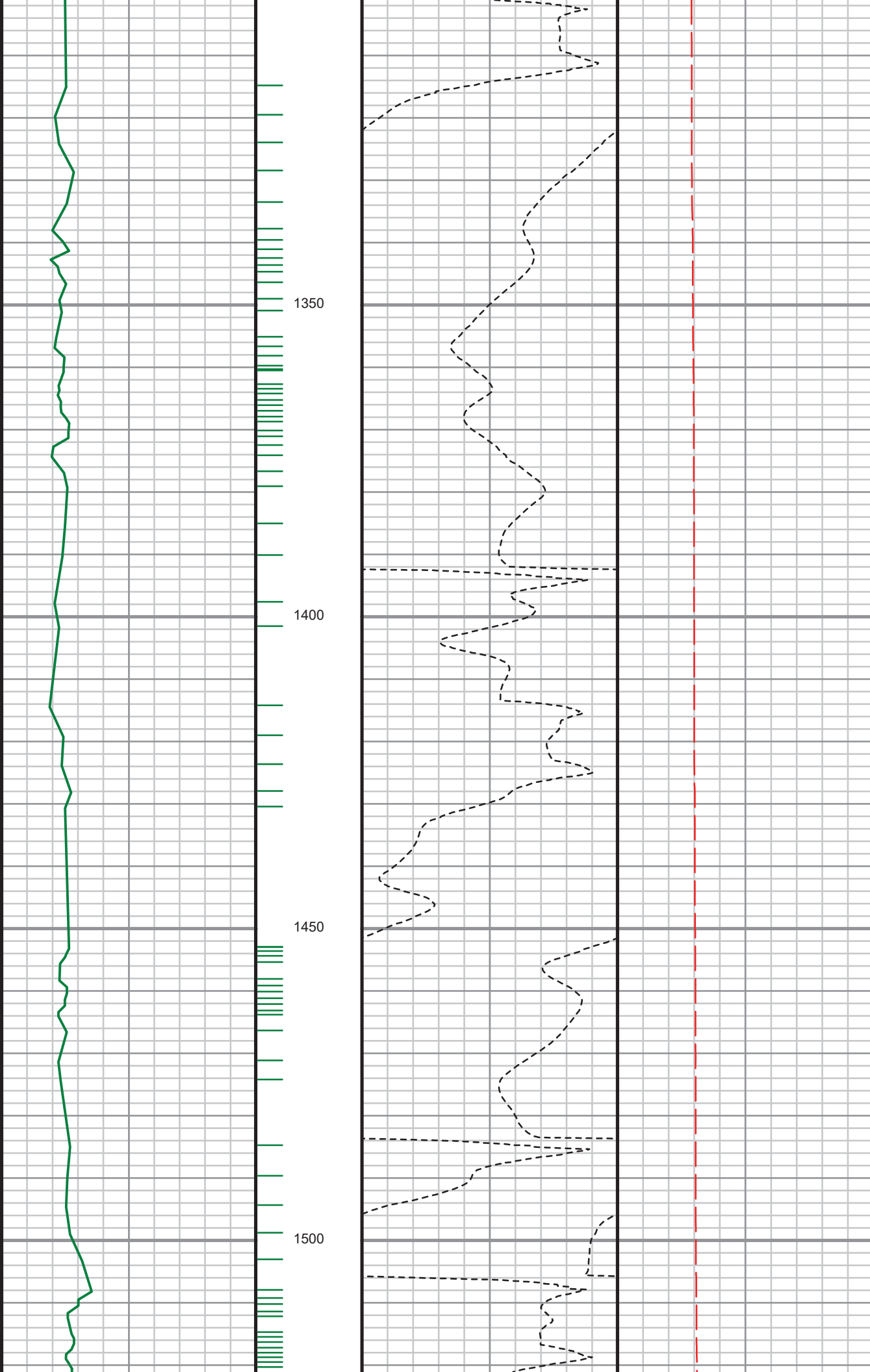
S: 3 MD: 973.00 ft Inc:  
1.76 deg Az: 344.96  
deg TVD: 972.82 ft

S: 4 MD: 1064.00 ft  
Inc: 3.78 deg Az:  
337.22 deg TVD:  
1063.71 ft



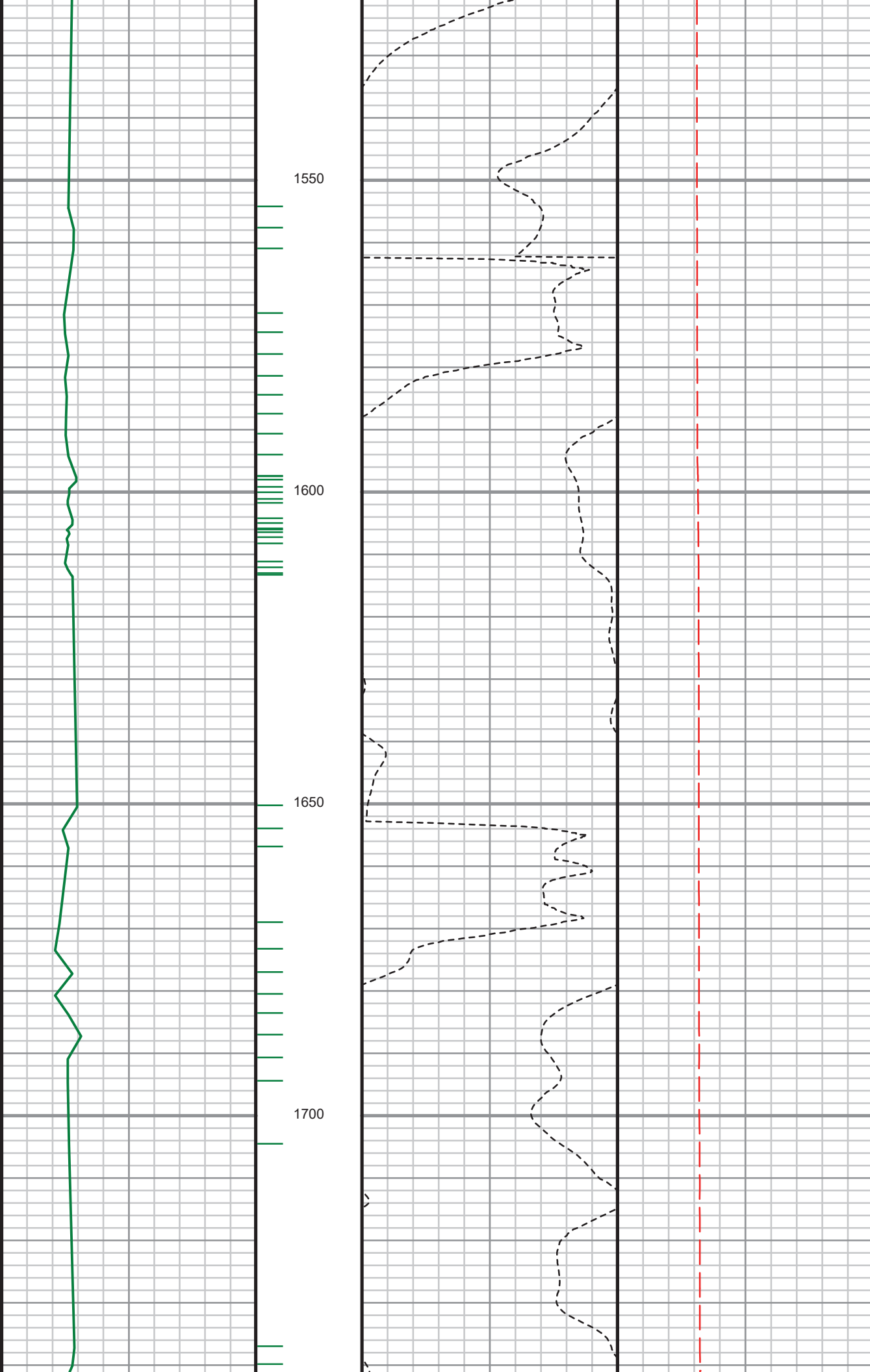
S: 5 MD: 1156.00 ft  
Inc: 5.45 deg Az:  
335.20 deg TVD:  
1155.41 ft

S: 6 MD: 1247.00 ft  
Inc: 5.54 deg Az:  
336.79 deg TVD:  
1245.99 ft



S: 7 MD: 1339.00 ft  
Inc: 8.09 deg Az:  
327.91 deg TVD:  
1337.34 ft

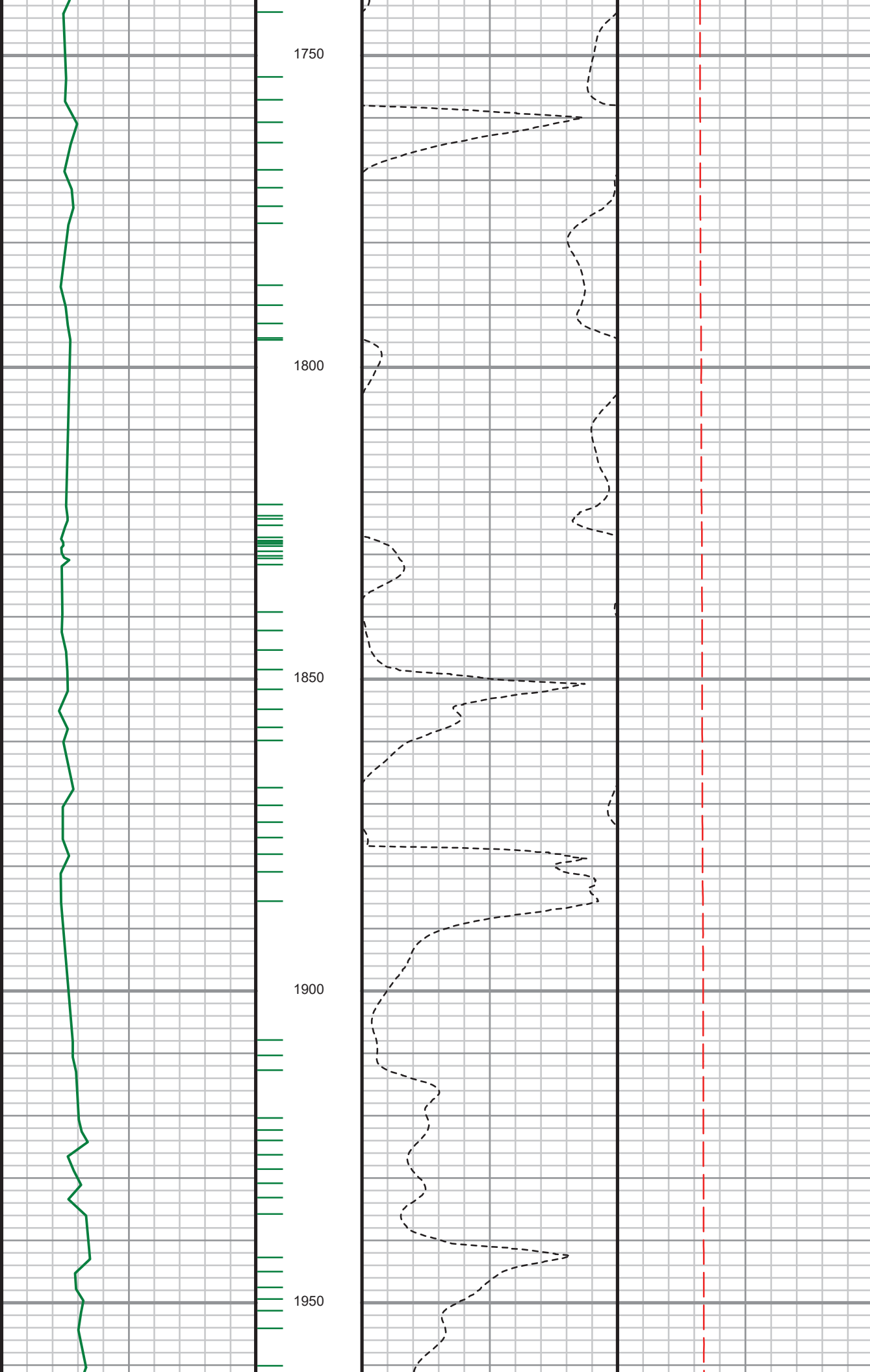
S: 8 MD: 1430.00 ft  
Inc: 8.88 deg Az:  
325.10 deg TVD:  
1427.34 ft



S: 9 MD: 1522.00 ft  
Inc: 10.38 deg Az:  
318.68 deg TVD:  
1518.05 ft

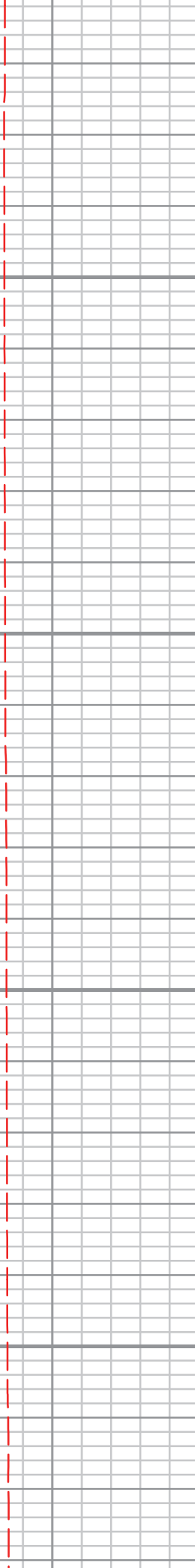
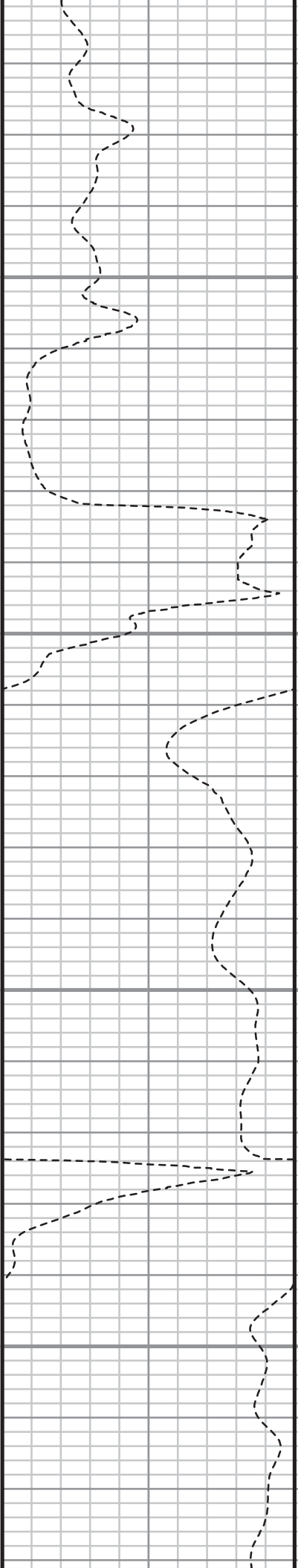
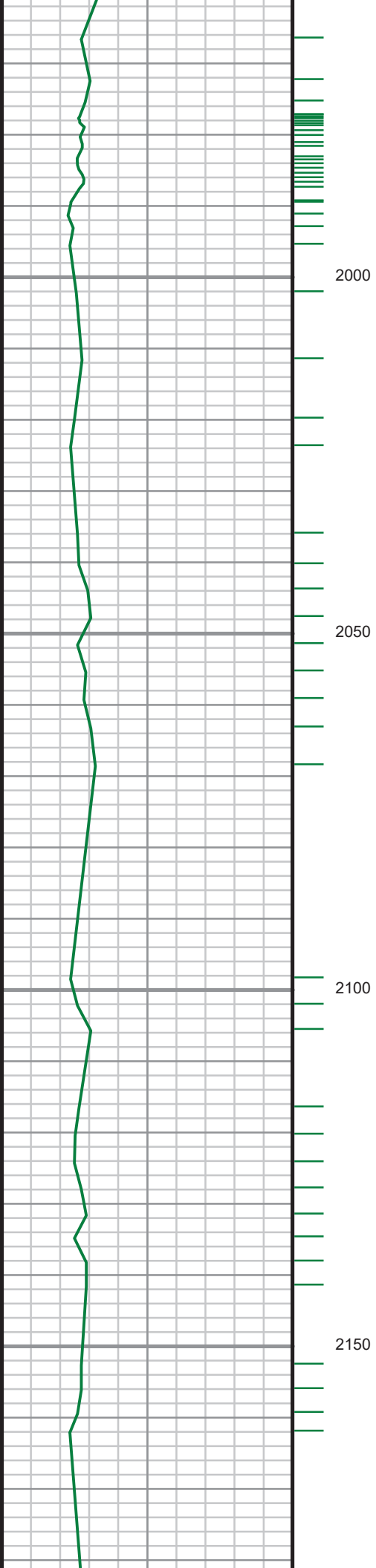
S: 10 MD: 1613.00 ft  
Inc: 13.28 deg Az:  
321.40 deg TVD:  
1607.11 ft

S: 11 MD: 1705.00 ft  
Inc: 15.56 deg Az:  
318.94 deg TVD:  
1696.20 ft



S: 12 MD: 1796.00 ft  
Inc: 14.42 deg Az:  
318.06 deg TVD:  
1784.10 ft

S: 13 MD: 1887.00 ft  
Inc: 13.98 deg Az:  
319.12 deg TVD:  
1872.32 ft

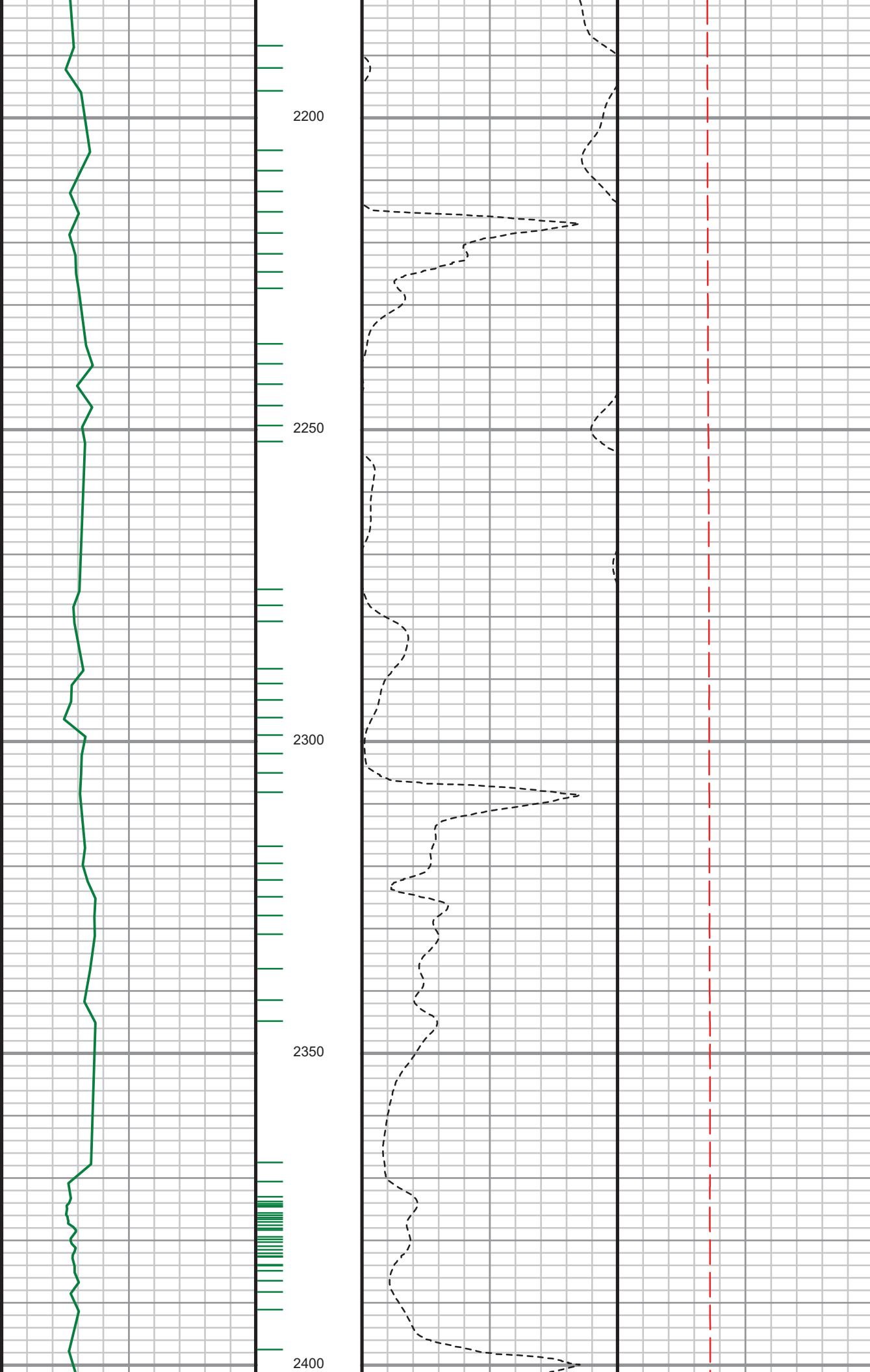


S: 14 MD: 1979.00 ft  
Inc: 14.25 deg Az:  
315.25 deg TVD:  
1961.55 ft

S: 15 MD: 2070.00 ft  
Inc: 14.68 deg Az:  
324.30 deg TVD:  
2049.67 ft

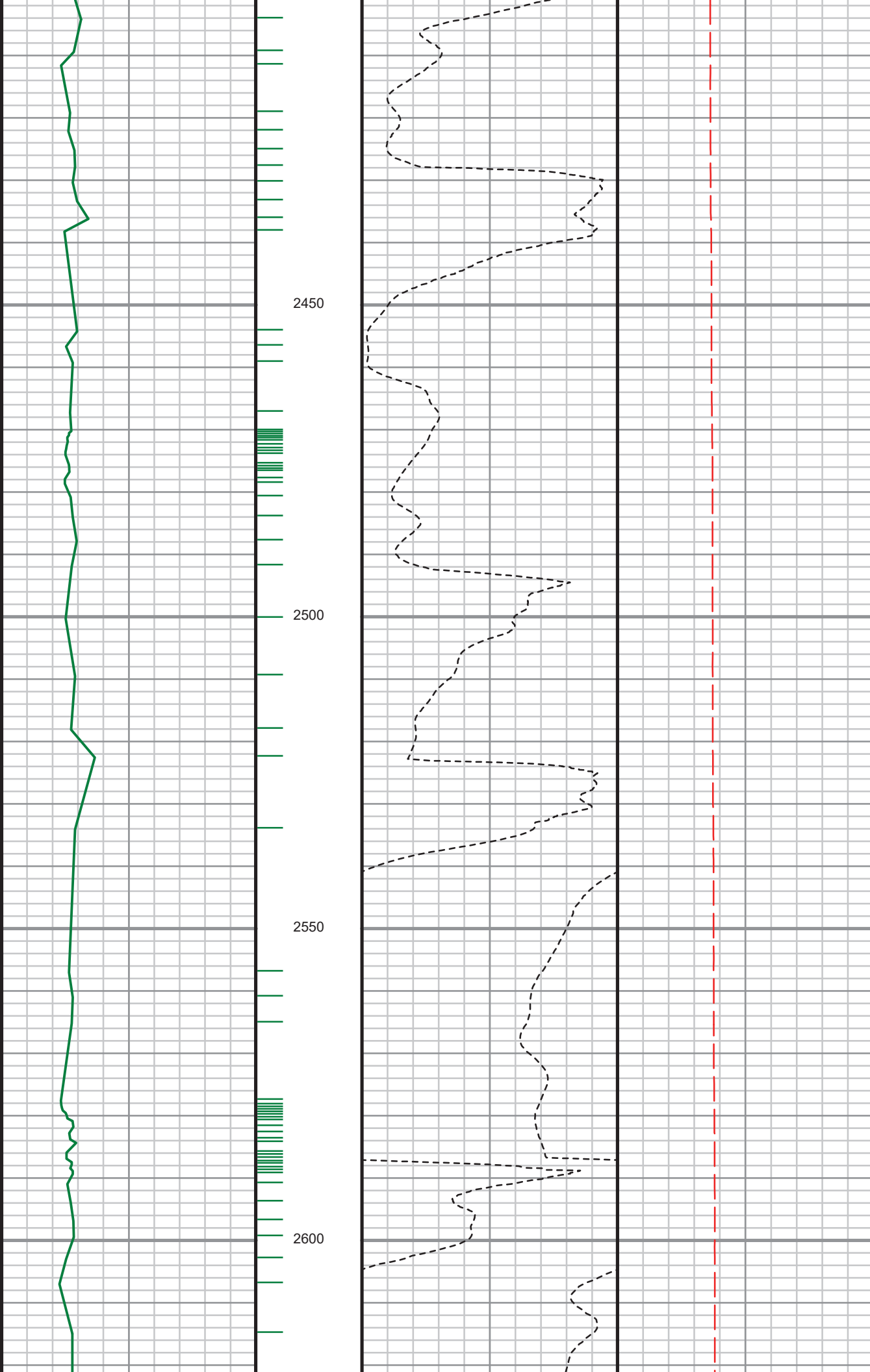
S: 16 MD: 2161.00 ft  
Inc: 14.25 deg Az:  
321.67 deg TVD:  
2137.79 ft





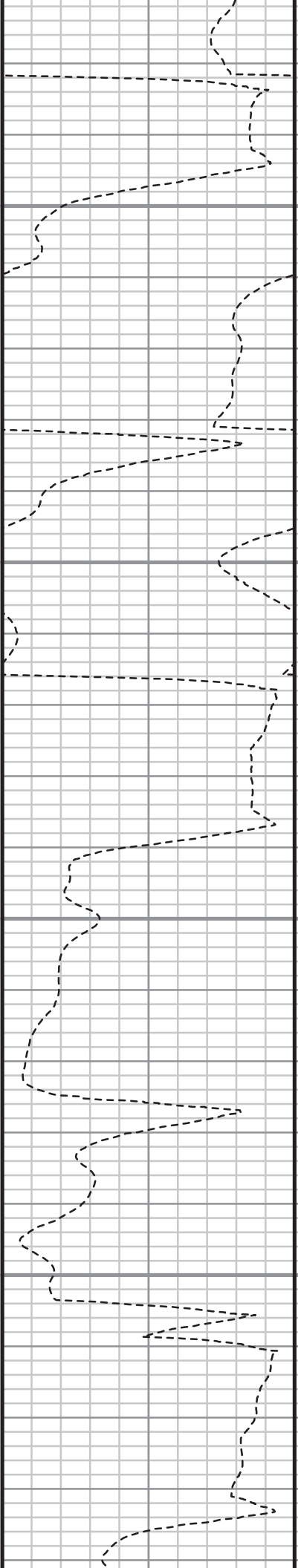
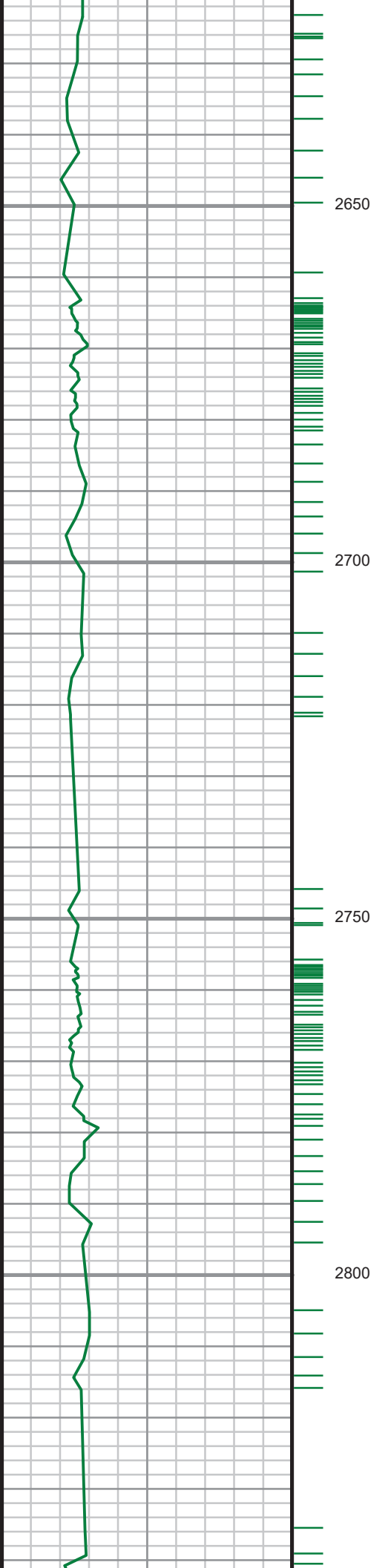
S: 17 MD: 2253.00 ft  
Inc: 13.81 deg Az:  
319.21 deg TVD:  
2227.05 ft

S: 18 MD: 2344.00 ft  
Inc: 13.37 deg Az:  
318.33 deg TVD:  
2315.50 ft



S: 19 MD: 2438.00 ft  
Inc: 12.75 deg Az:  
325.36 deg TVD:  
2407.08 ft

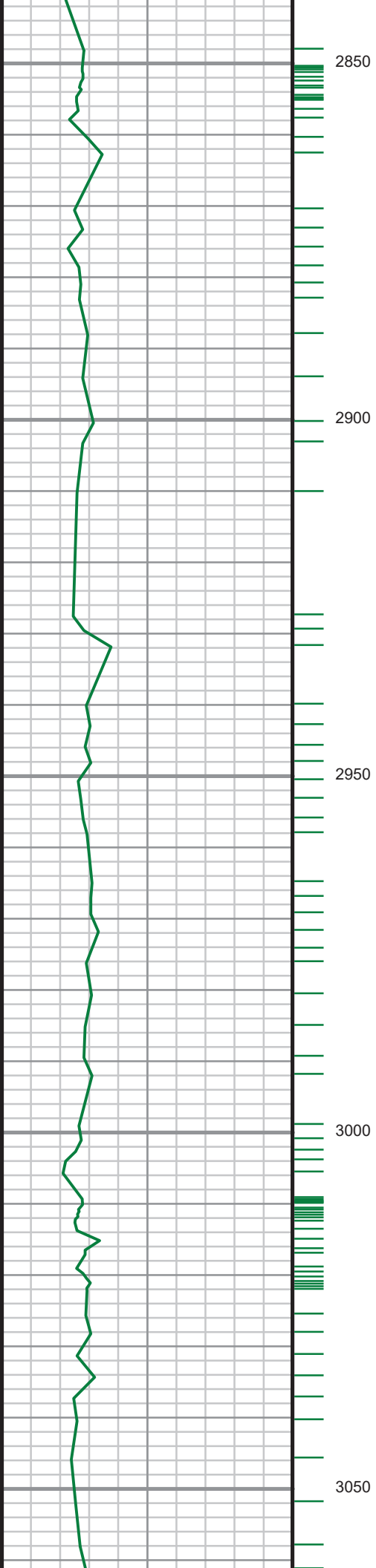
S: 20 MD: 2532.00 ft  
Inc: 11.43 deg Az:  
326.59 deg TVD:  
2498.99 ft



S: 21 MD: 2626.00 ft  
Inc: 10.55 deg Az:  
326.06 deg TVD:  
2591.26 ft

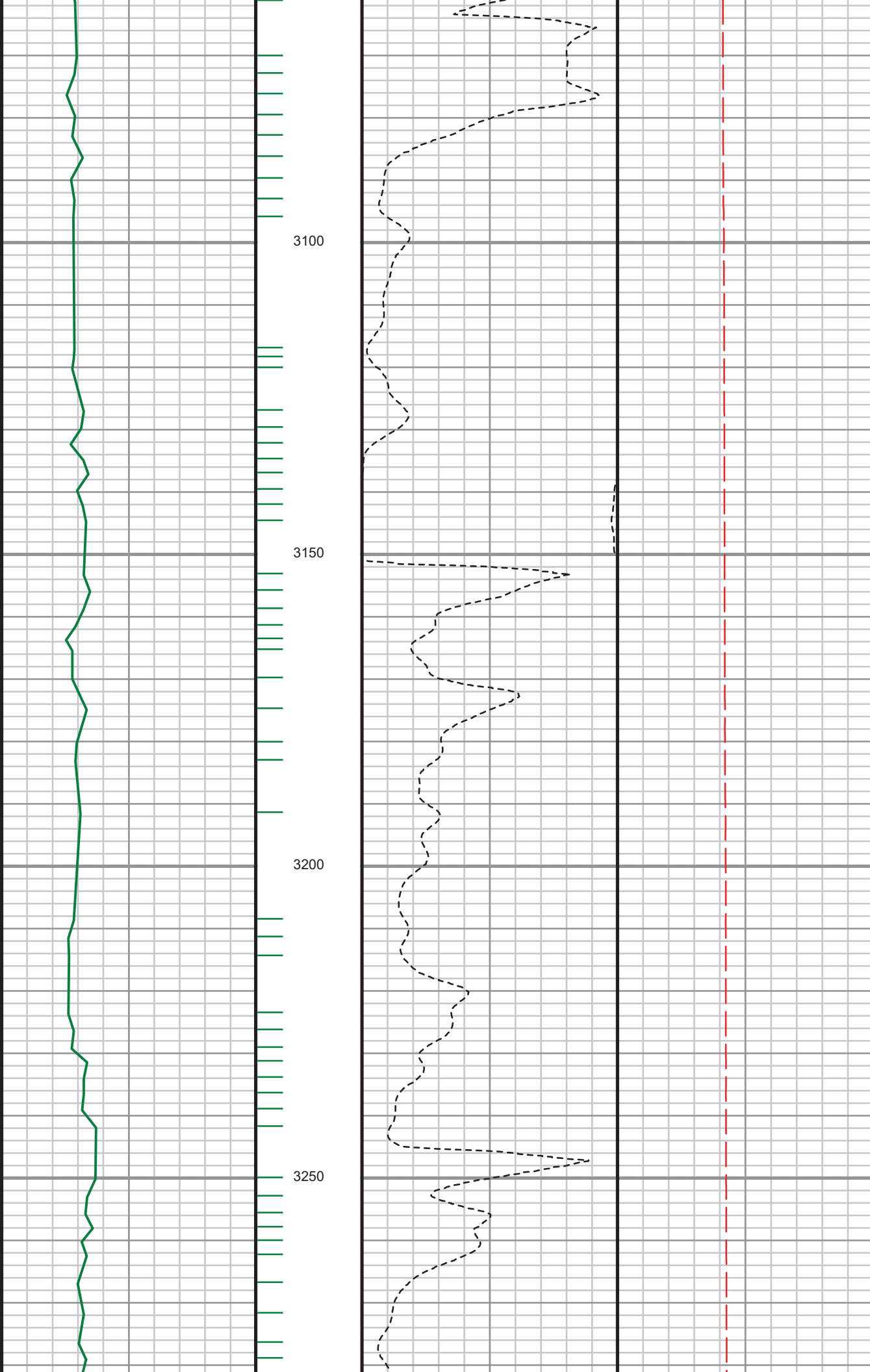
S: 22 MD: 2720.00 ft  
Inc: 8.00 deg Az:  
332.13 deg TVD:  
2684.03 ft

S: 23 MD: 2813.00 ft  
Inc: 3.87 deg Az:  
338.54 deg TVD:  
2776.51 ft



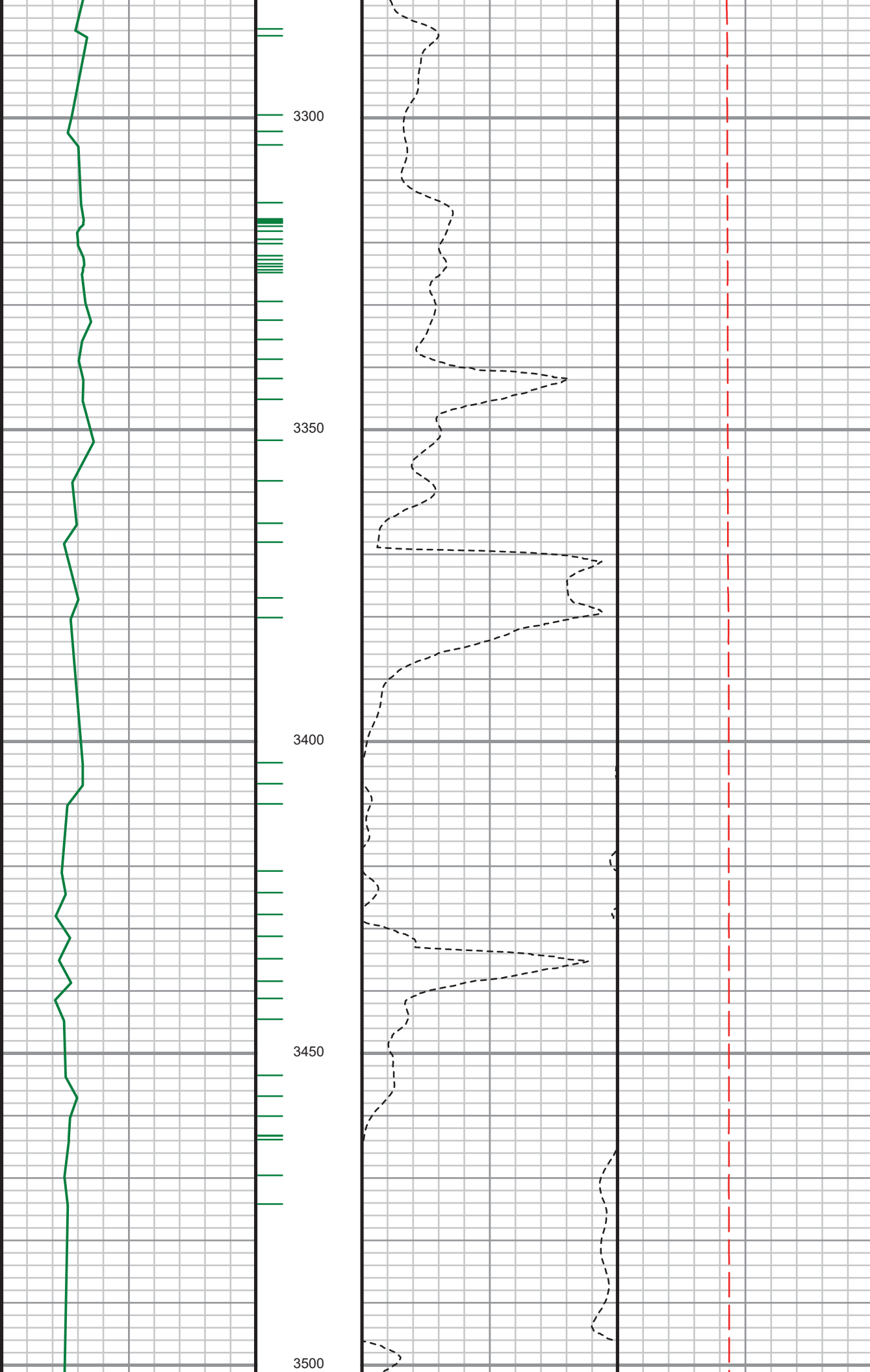
S: 24 MD: 2907.00 ft  
Inc: 1.14 deg Az:  
347.51 deg TVD:  
2870.41 ft

S: 25 MD: 3001.00 ft  
Inc: 1.58 deg Az: 7.55  
deg TVD: 2964.39 ft



S: 26 MD: 3095.00 ft  
Inc: 1.67 deg Az: 134.02 deg TVD: 3058.37 ft

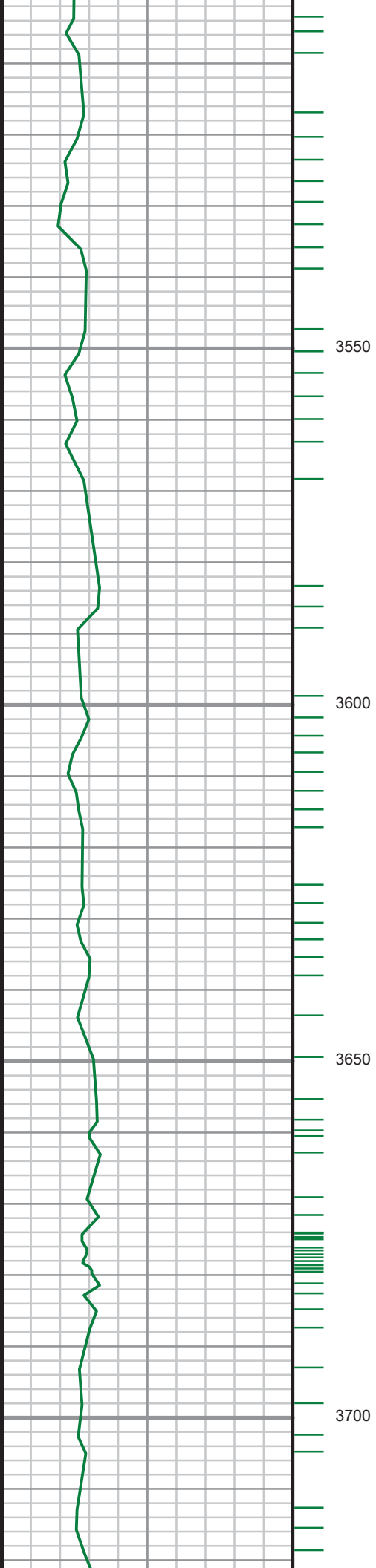
S: 27 MD: 3189.00 ft  
Inc: 2.11 deg Az: 118.90 deg TVD: 3152.32 ft



S: 28 MD: 3283.00 ft  
Inc: 2.37 deg Az:  
109.76 deg TVD:  
3246.25 ft

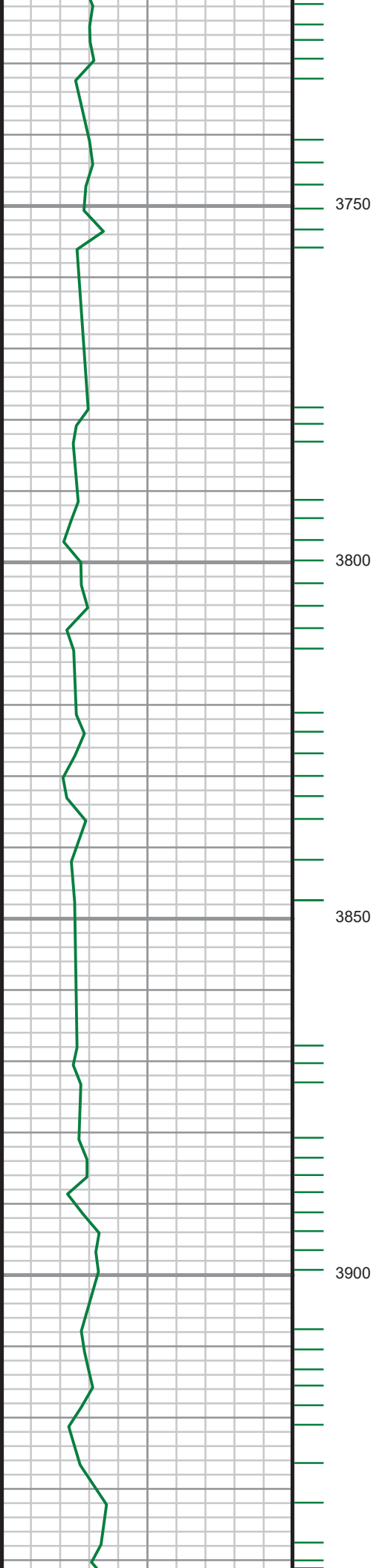
S: 29 MD: 3376.00 ft  
Inc: 0.70 deg Az:  
108.71 deg TVD:  
3339.21 ft

S: 30 MD: 3470.00 ft  
Inc: 1.06 deg Az:  
156.26 deg TVD:  
3433.20 ft



S: 31 MD: 3564.00 ft  
Inc: 1.49 deg Az:  
189.74 deg TVD:  
3527.18 ft

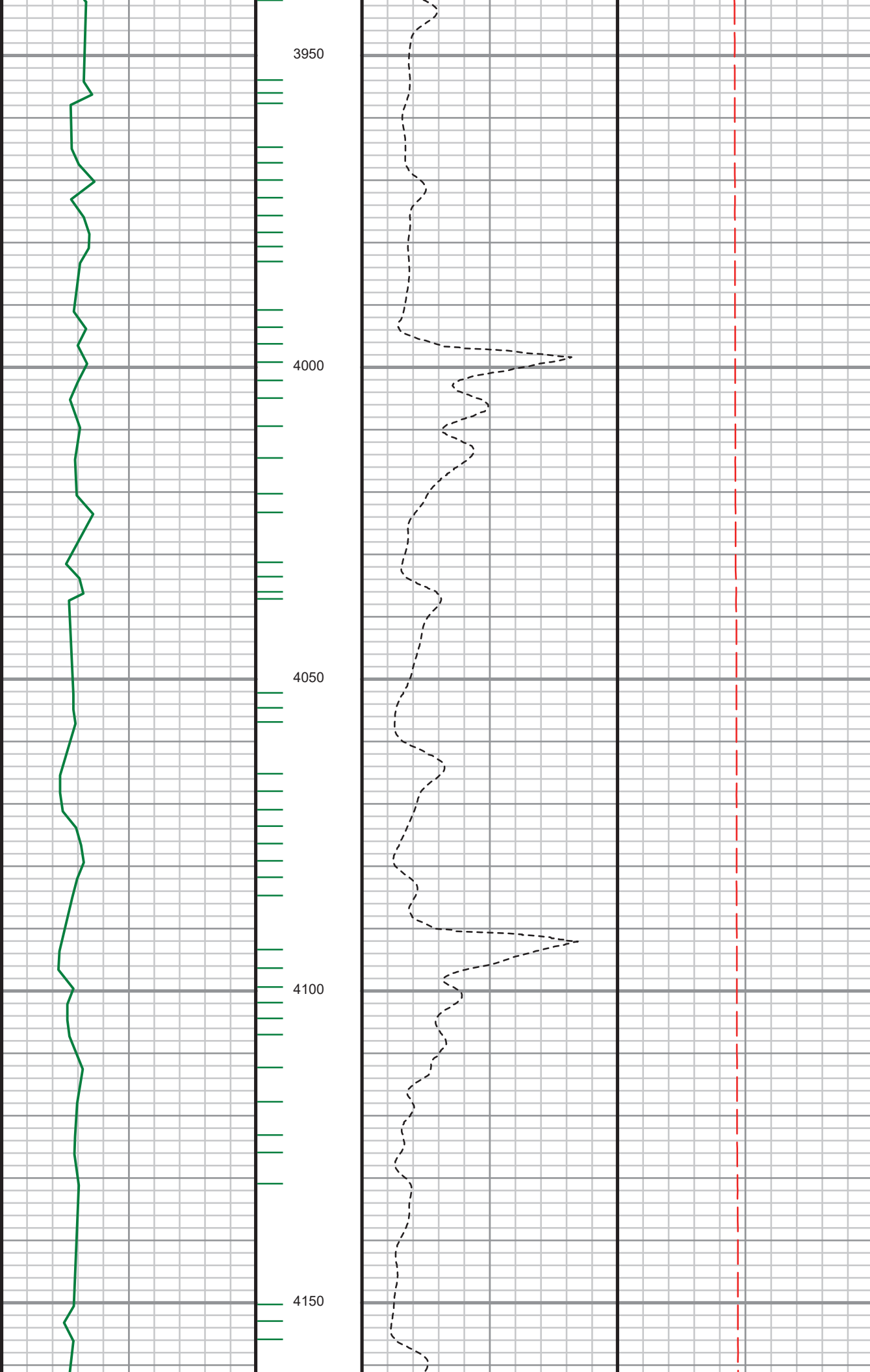
S: 32 MD: 3659.00 ft  
Inc: 1.58 deg Az:  
185.00 deg TVD:  
3622.14 ft



S: 33 MD: 3753.00 ft  
Inc: 1.58 deg Az: 72.94  
deg TVD: 3716.12 ft

S: 34 MD: 3848.00 ft  
Inc: 1.41 deg Az: 61.69  
deg TVD: 3811.09 ft

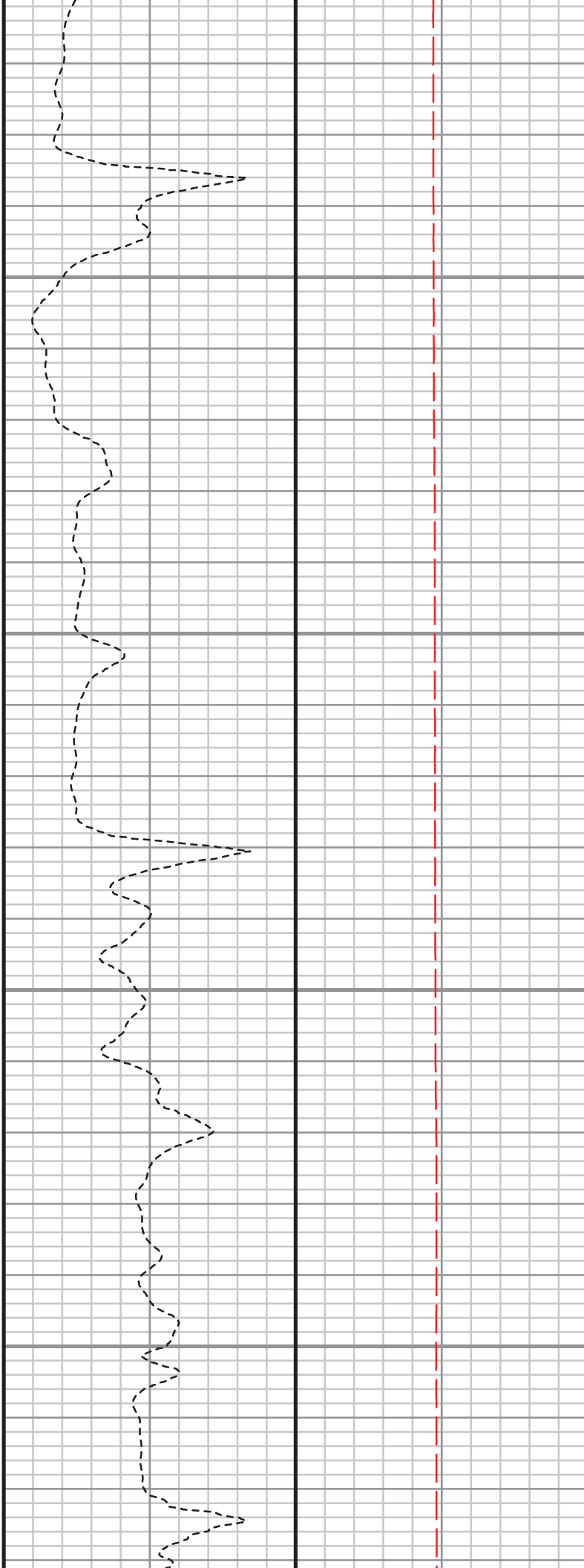
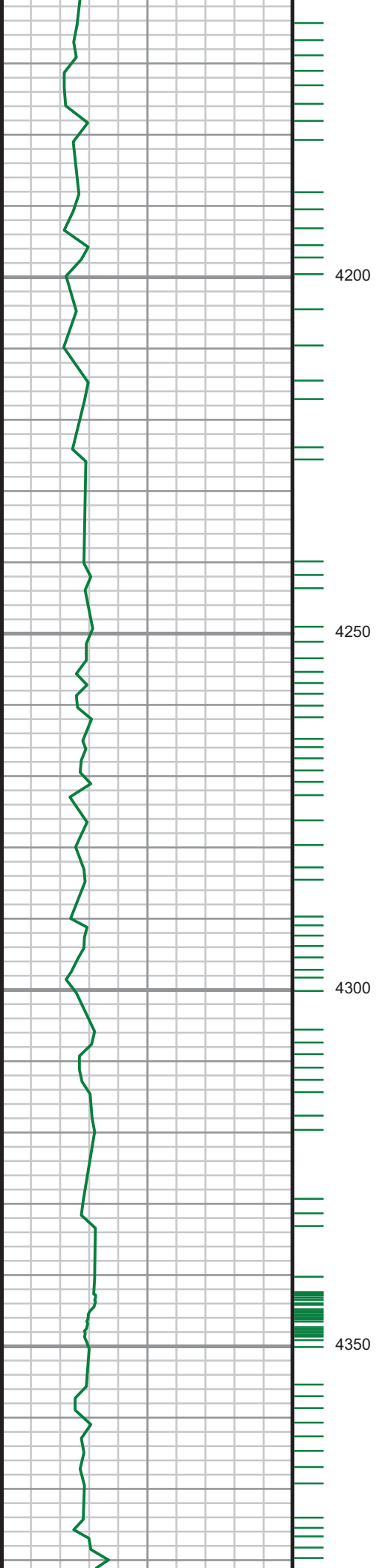




S: 35 MD: 3942.00 ft  
Inc: 1.49 deg Az: 17.74  
deg TVD: 3905.06 ft

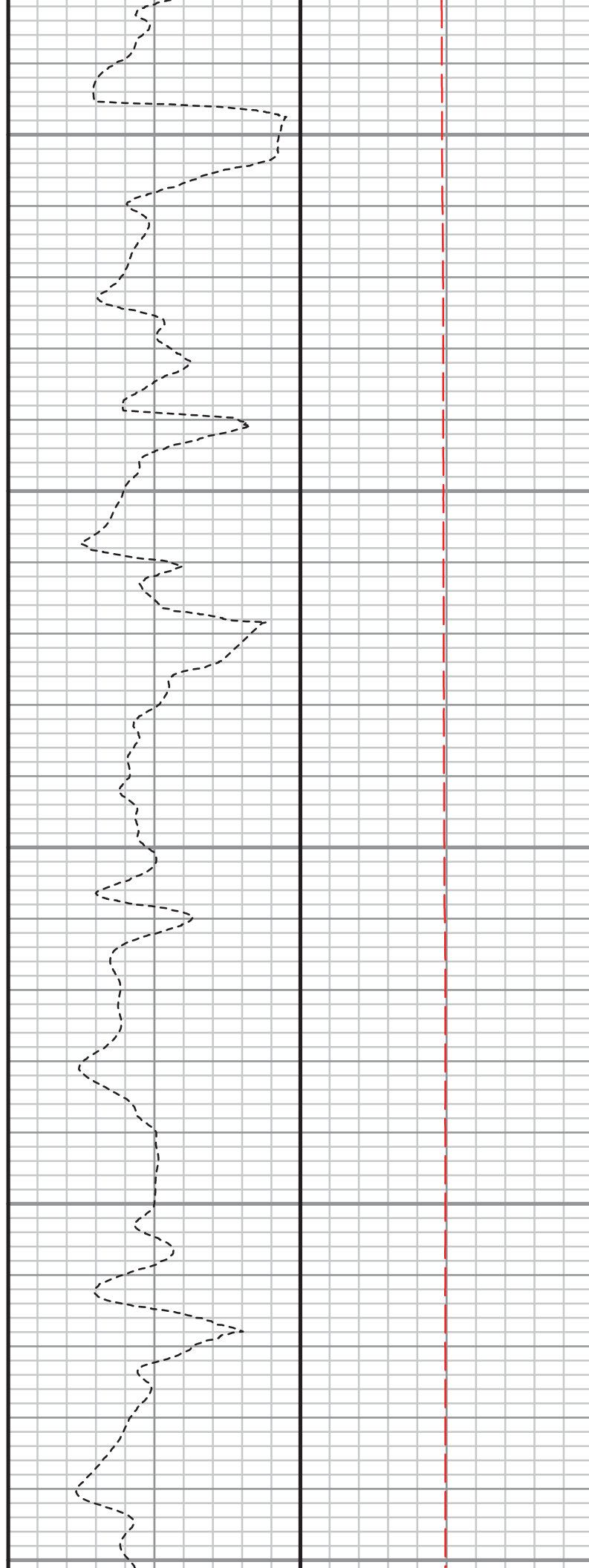
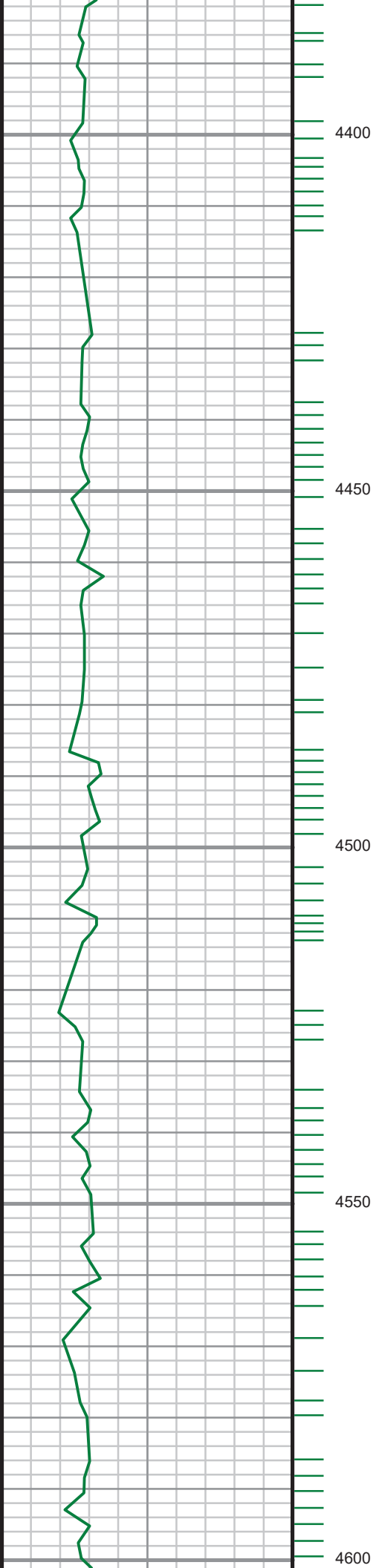
S: 36 MD: 4036.00 ft  
Inc: 1.32 deg Az: 18.09  
deg TVD: 3999.03 ft

S: 37 MD: 4130.00 ft  
Inc: 1.23 deg Az: 18.36  
deg TVD: 4093.01 ft



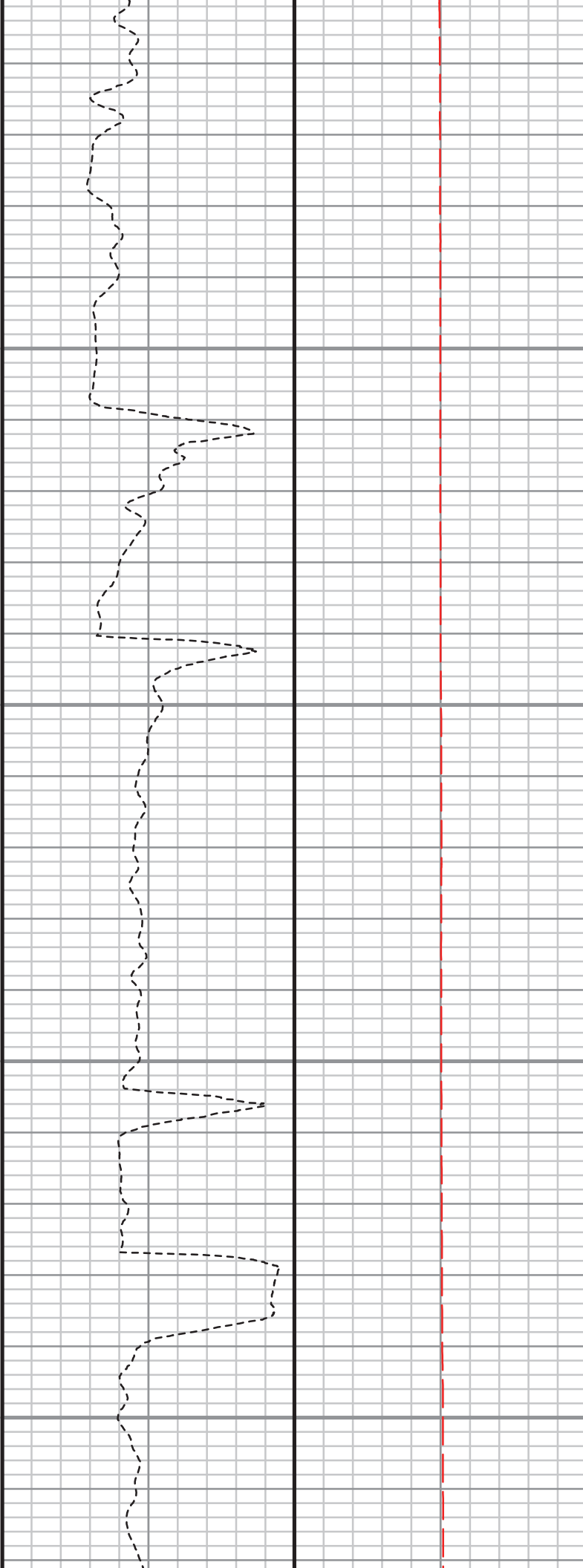
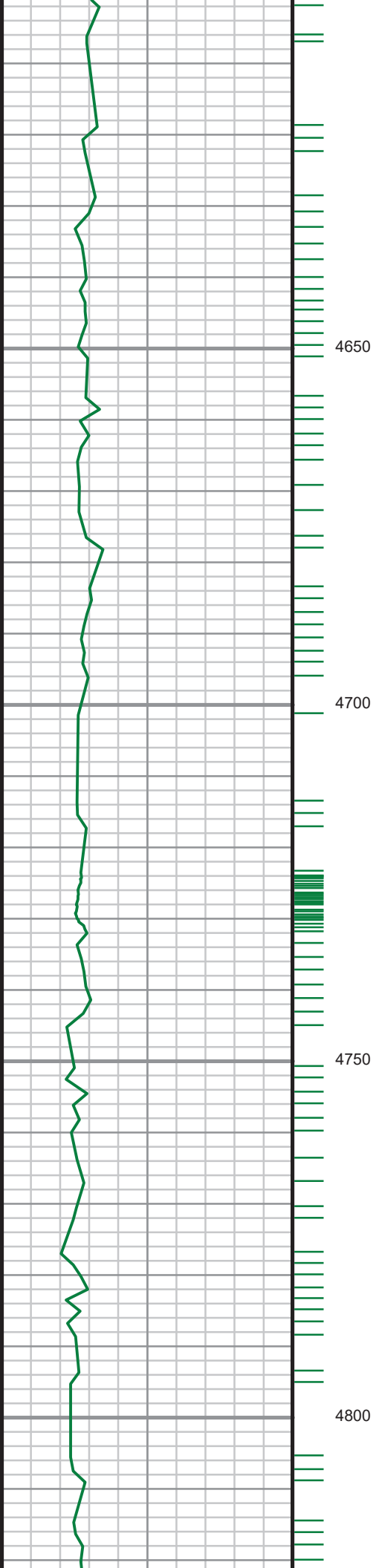
S: 38 MD: 4225.00 ft  
Inc: 1.58 deg Az: 18.27  
deg TVD: 4187.98 ft

S: 39 MD: 4318.00 ft  
Inc: 1.32 deg Az: 29.96  
deg TVD: 4280.95 ft



S: 40 MD: 4413.00 ft  
Inc: 0.53 deg Az:  
118.82 deg TVD:  
4375.94 ft

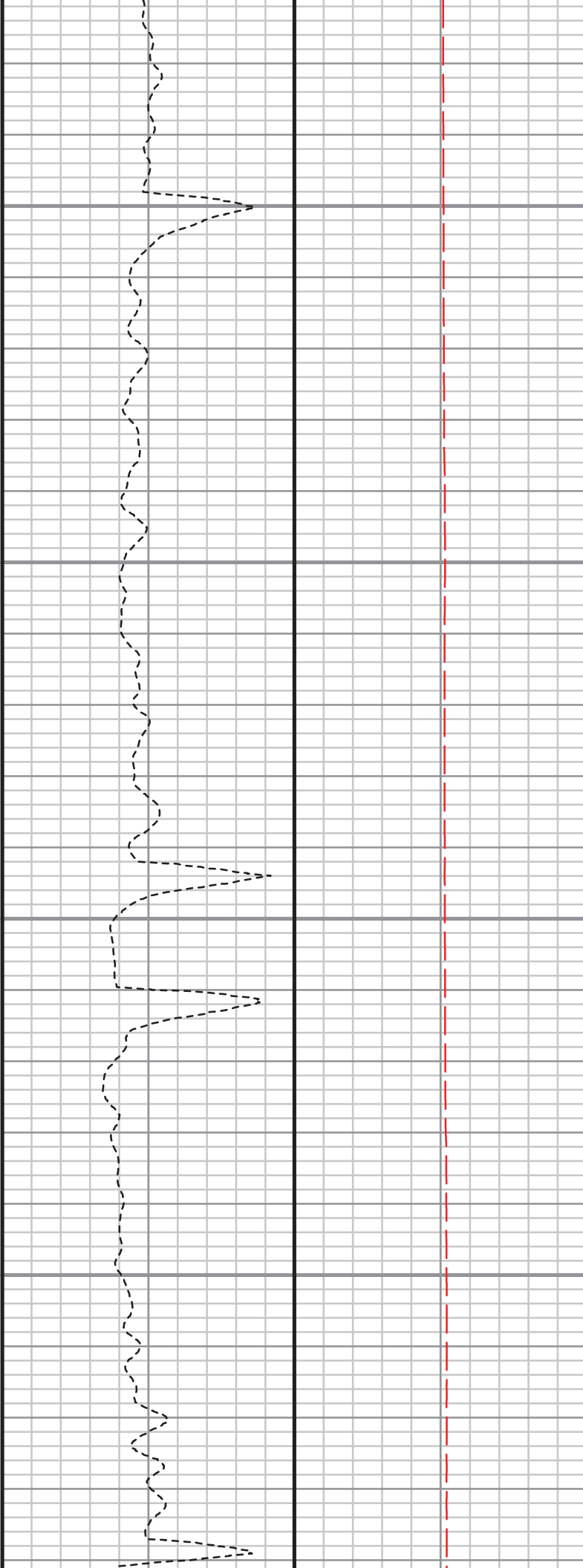
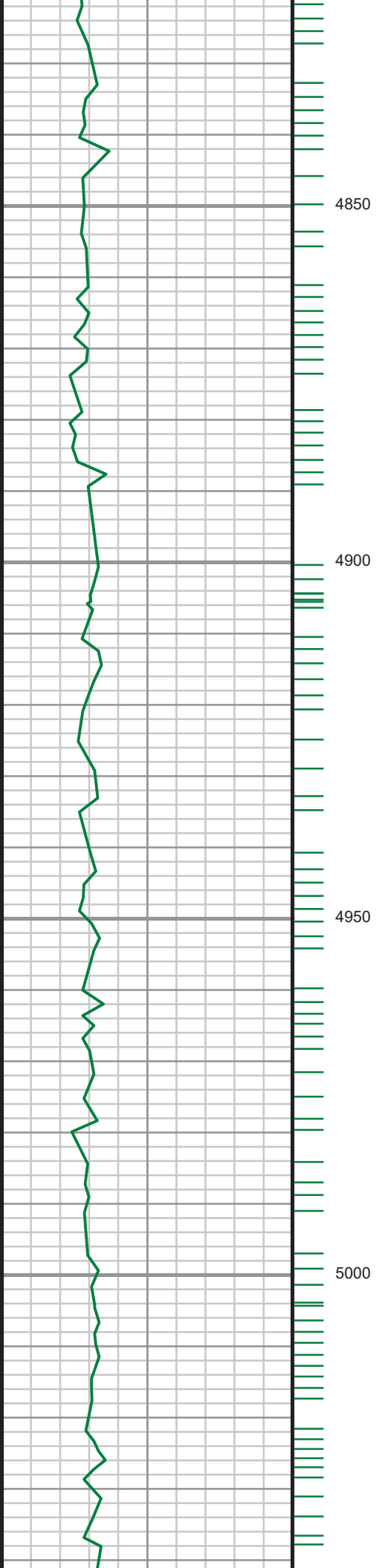
S: 41 MD: 4507.00 ft  
Inc: 0.88 deg Az:  
130.51 deg TVD:  
4469.94 ft



S: 42 MD: 4601.00 ft  
Inc: 0.88 deg Az:  
142.37 deg TVD:  
4563.92 ft

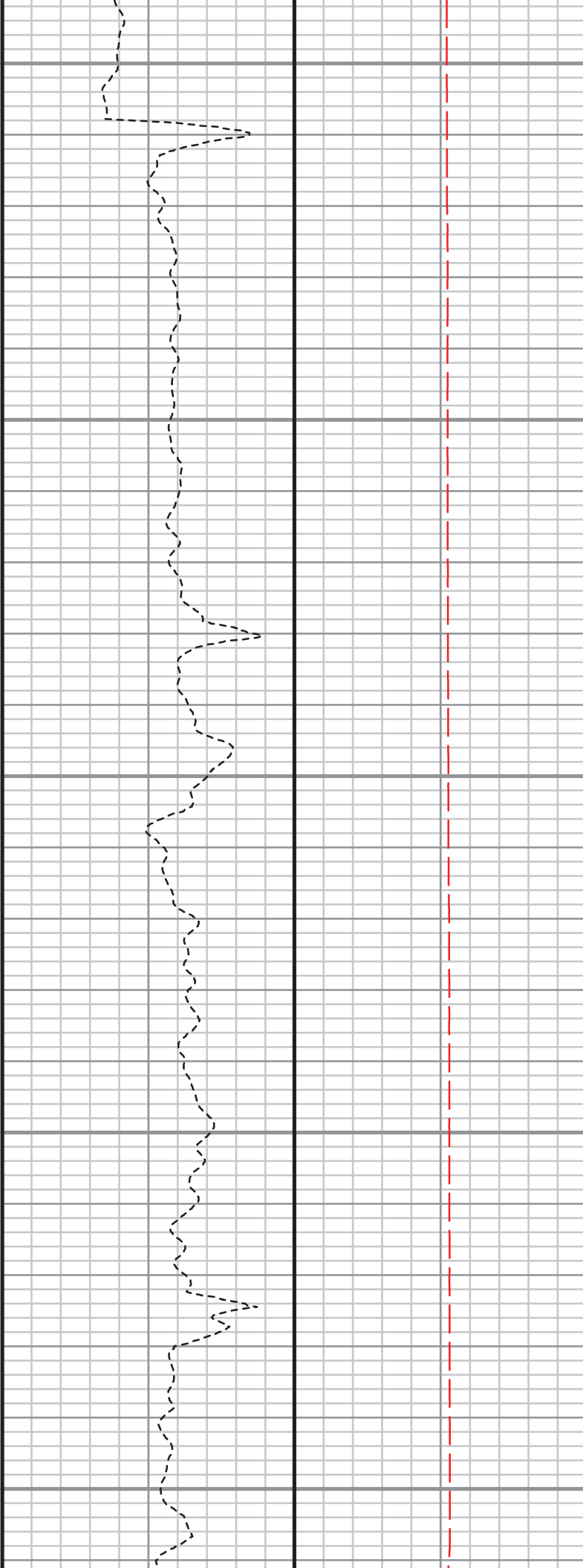
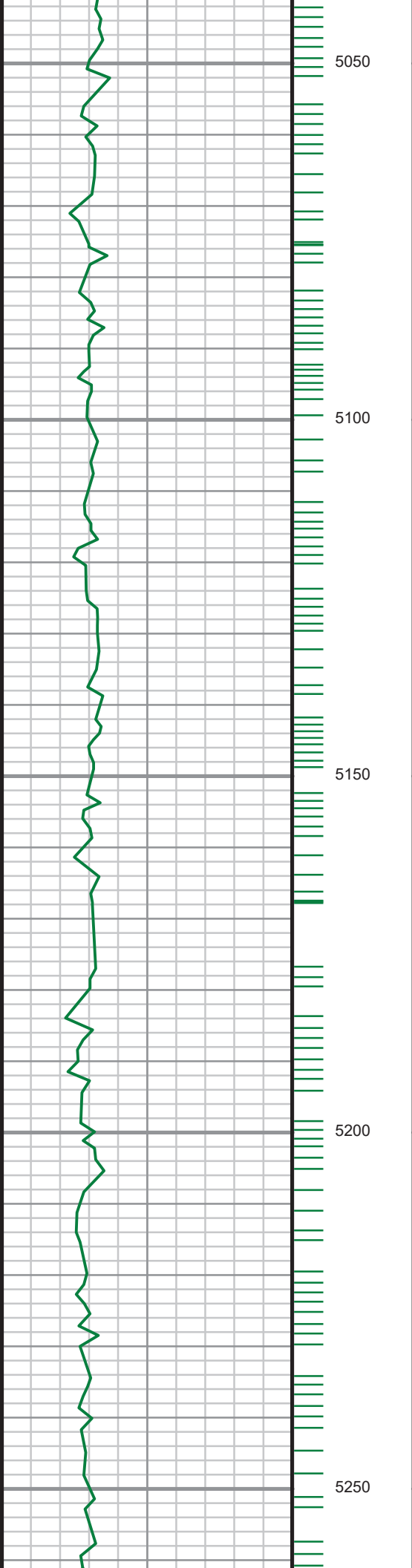
S: 43 MD: 4695.00 ft  
Inc: 0.88 deg Az:  
154.94 deg TVD:  
4657.91 ft

S: 44 MD: 4788.00 ft  
Inc: 1.14 deg Az:  
287.39 deg TVD:  
4750.91 ft



S: 45 MD: 4882.00 ft  
Inc: 1.49 deg Az:  
296.00 deg TVD:  
4844.88 ft

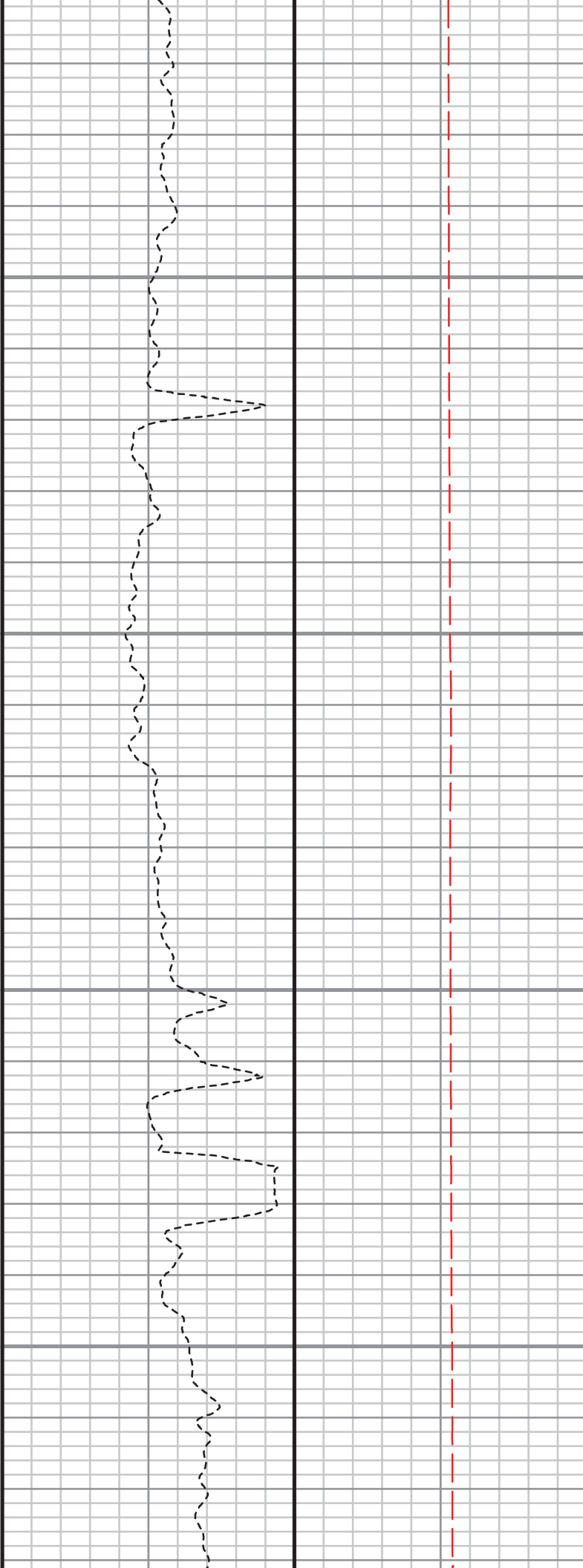
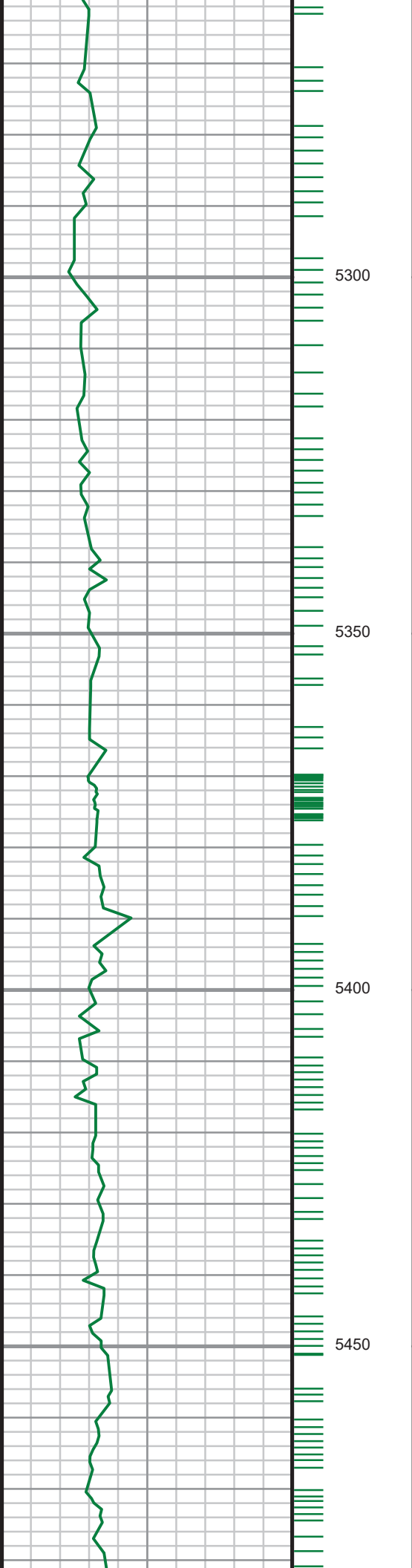
S: 46 MD: 4976.00 ft  
Inc: 1.32 deg Az:  
315.60 deg TVD:  
4938.85 ft



S: 47 MD: 5070.00 ft  
Inc: 1.32 deg Az:  
307.43 deg TVD:  
5032.83 ft

S: 48 MD: 5164.00 ft  
Inc: 1.58 deg Az:  
300.05 deg TVD:  
5126.80 ft

S: 49 MD: 5258.00 ft



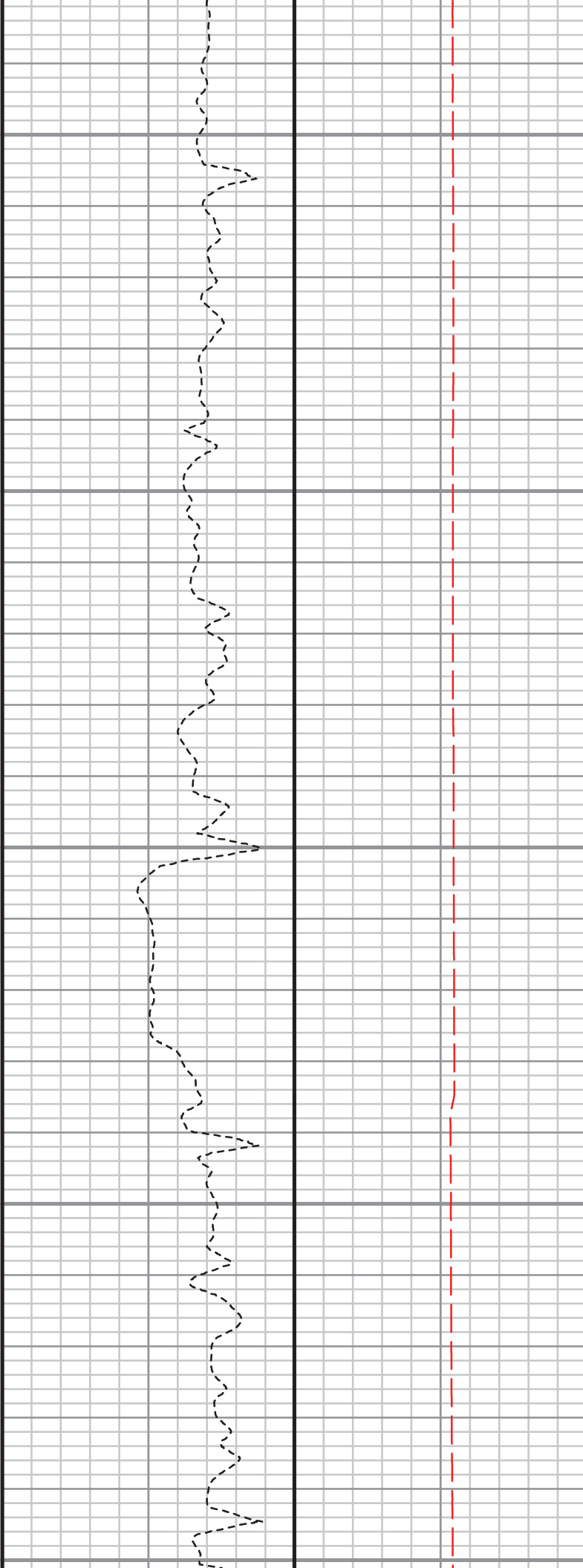
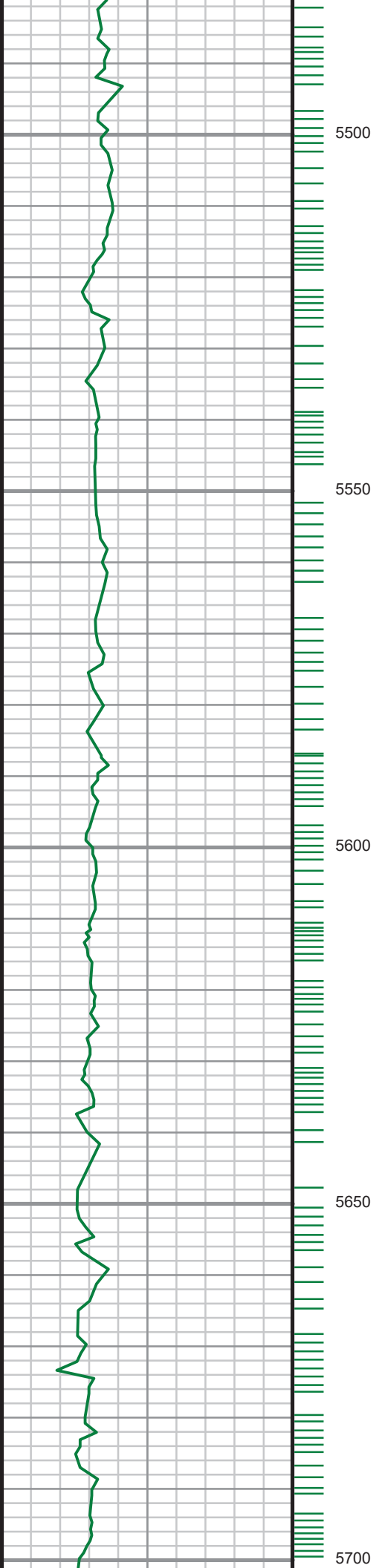
Inc: 0.97 deg Az:  
280.27 deg TVD:  
5220.78 ft

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S: 50 MD: 5352.00 ft  
Inc: 1.32 deg Az:  
269.46 deg TVD:  
5314.76 ft

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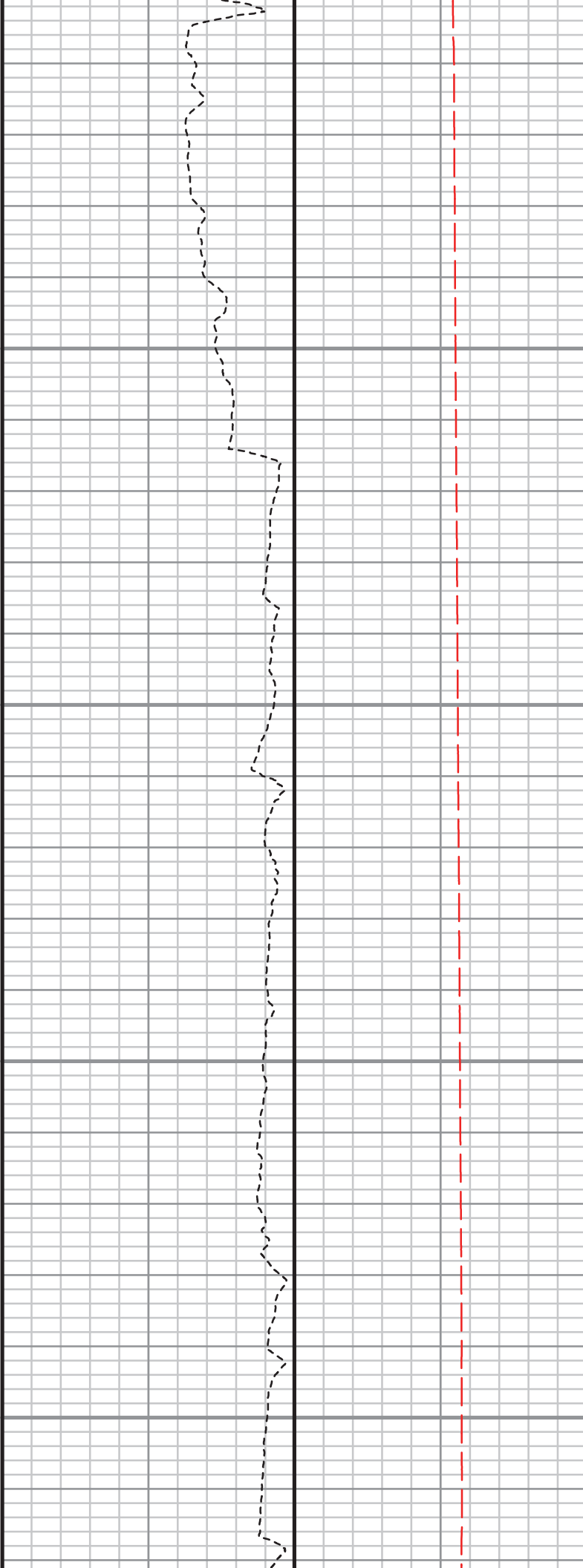
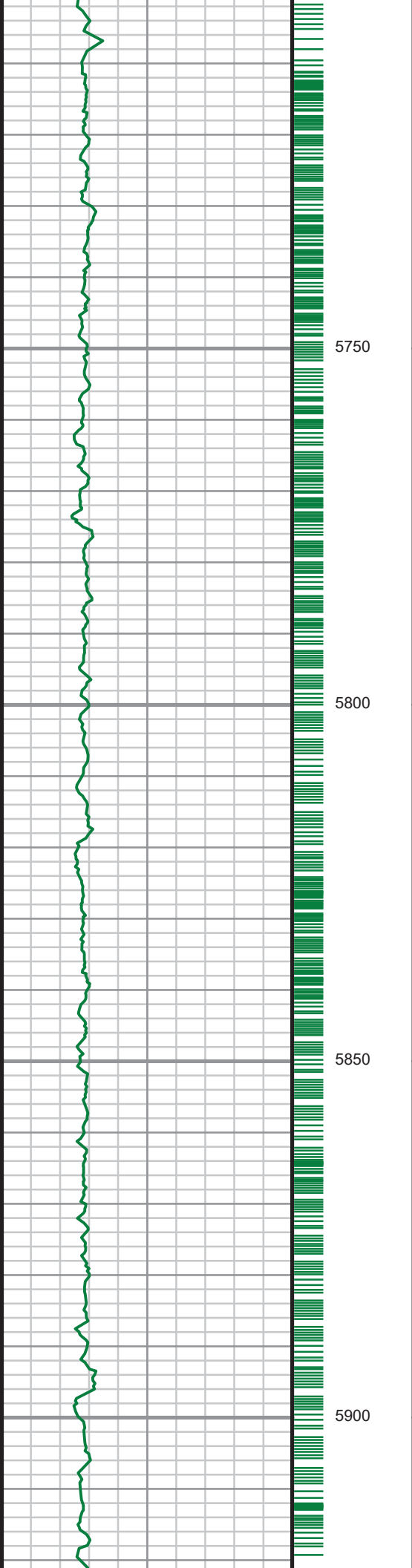
S: 51 MD: 5445.00 ft  
Inc: 0.62 deg Az:  
134.64 deg TVD:  
5407.75 ft



S: 52 MD: 5539.00 ft  
Inc: 0.53 deg Az:  
120.93 deg TVD:  
5501.75 ft

S: 53 MD: 5633.00 ft  
Inc: 0.26 deg Az:  
318.94 deg TVD:  
5595.74 ft

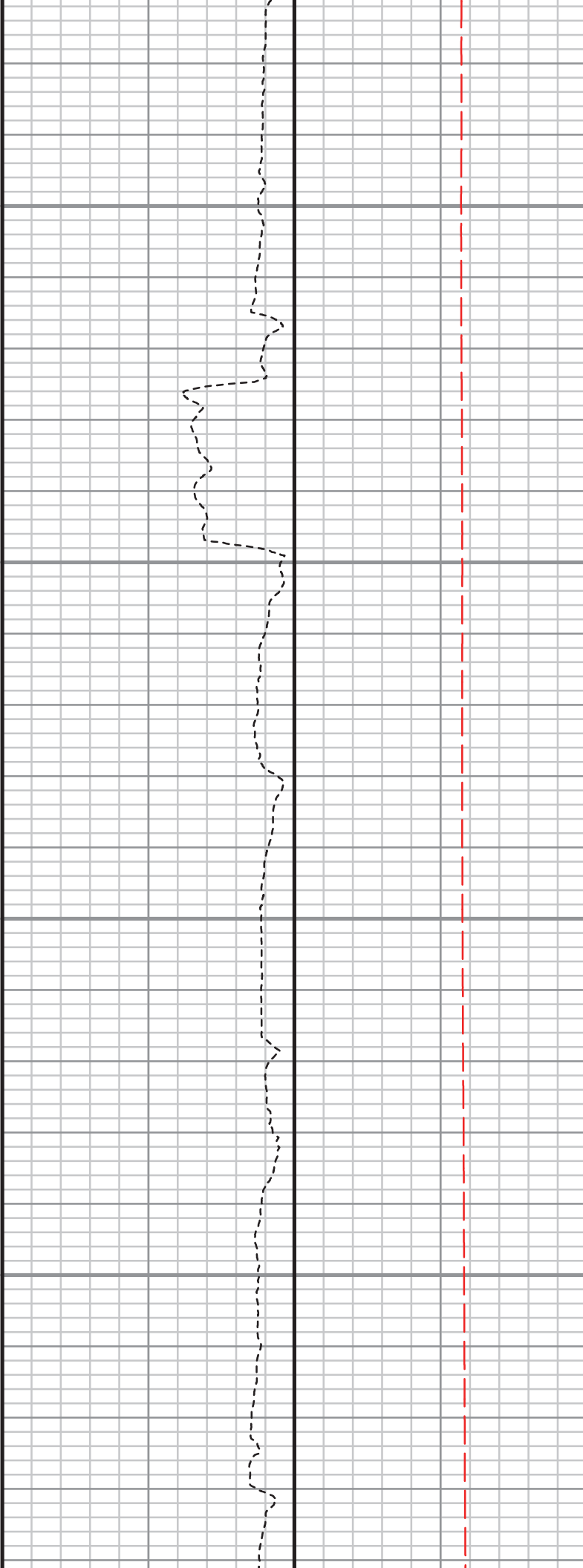
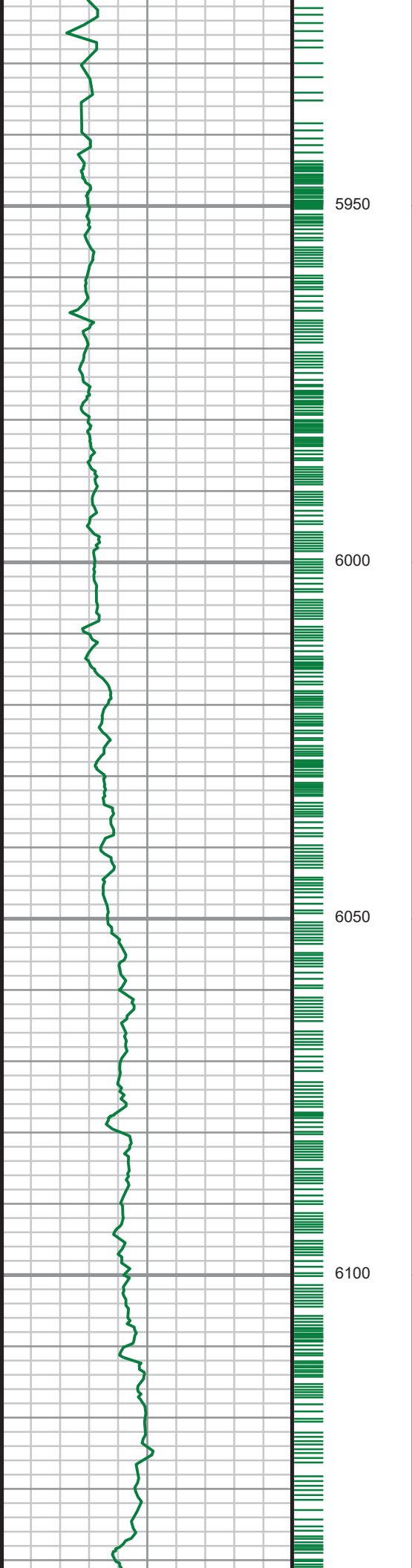




S: 54 MD: 5727.00 ft  
Inc: 0.26 deg Az:  
264.98 deg TVD:  
5689.74 ft

S: 55 MD: 5821.00 ft  
Inc: 6.24 deg Az:  
286.69 deg TVD:  
5783.55 ft

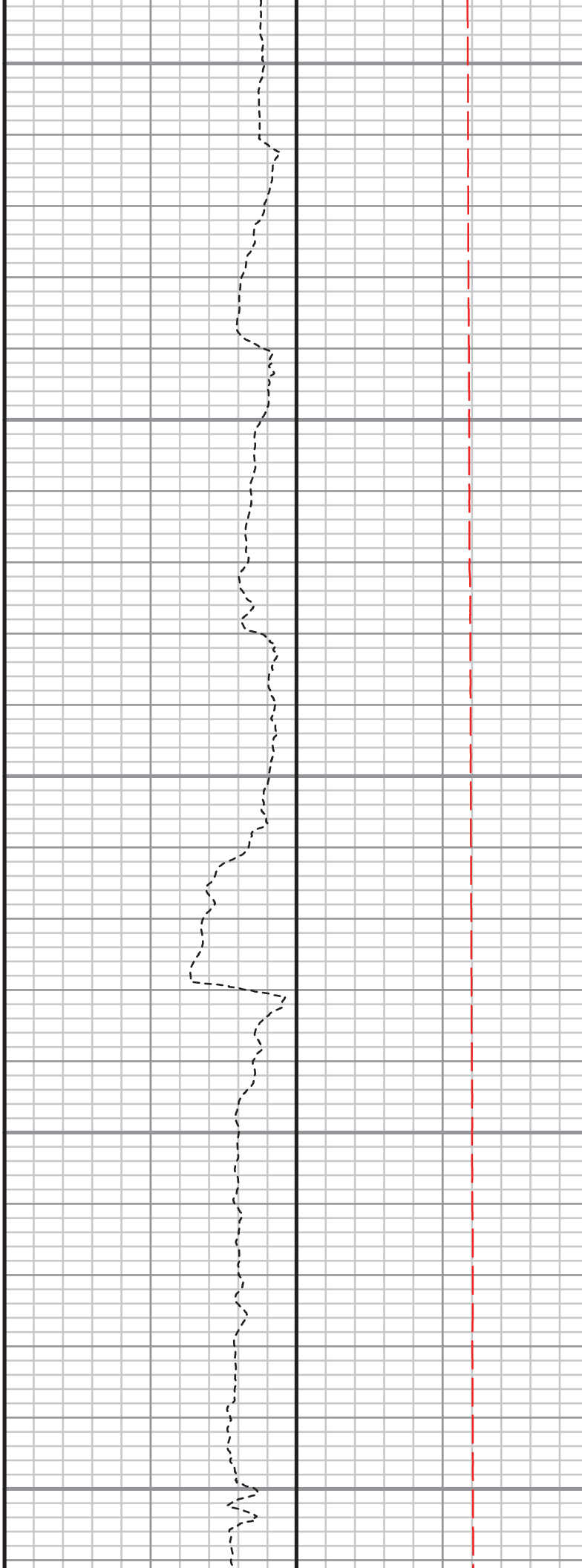
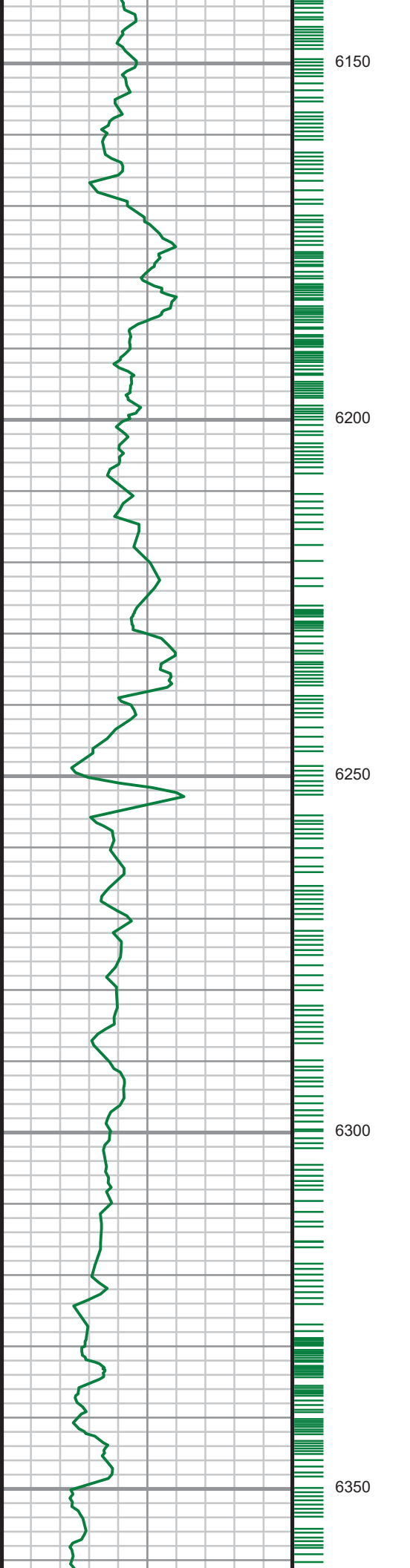
S: 56 MD: 5914.00 ft  
Inc: 17.06 deg Az:  
281.59 deg TVD:



5874.50 ft

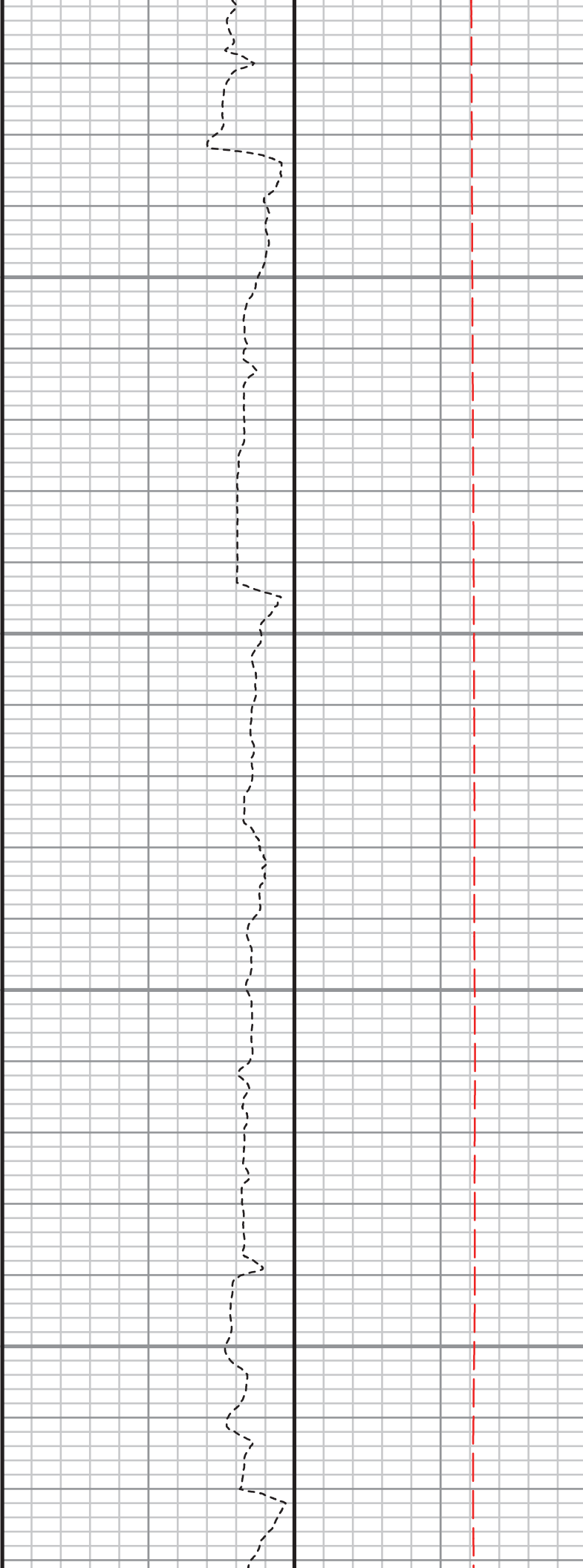
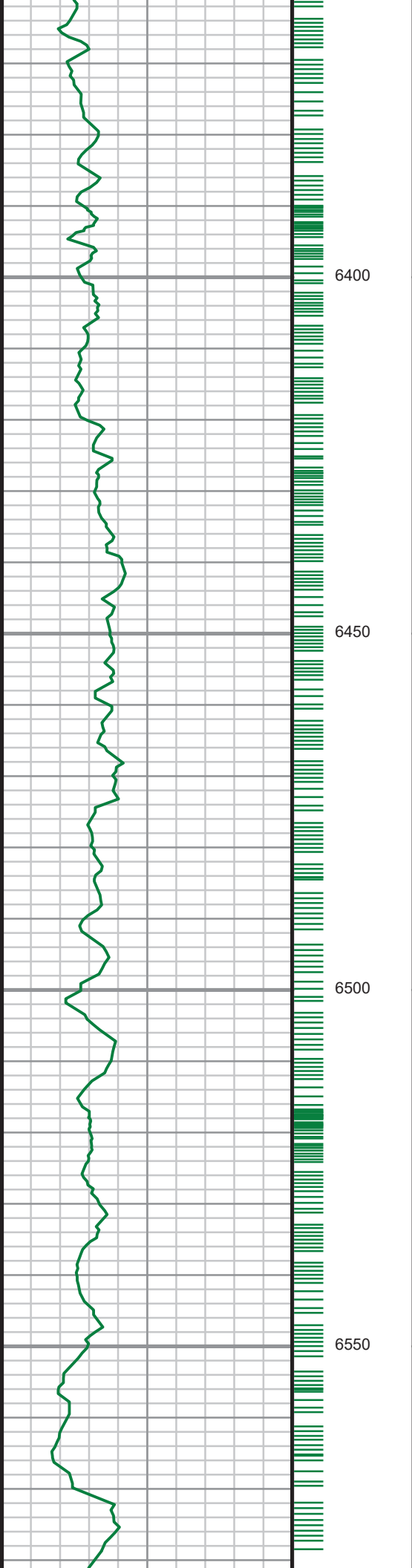
S: 57 MD: 6008.00 ft  
Inc: 23.04 deg Az:  
279.30 deg TVD:  
5962.77 ft

S: 58 MD: 6102.00 ft  
Inc: 32.62 deg Az:  
274.12 deg TVD:  
6045.81 ft



S: 59 MD: 6195.00 ft  
Inc: 43.70 deg Az:  
270.52 deg TVD:  
6118.82 ft

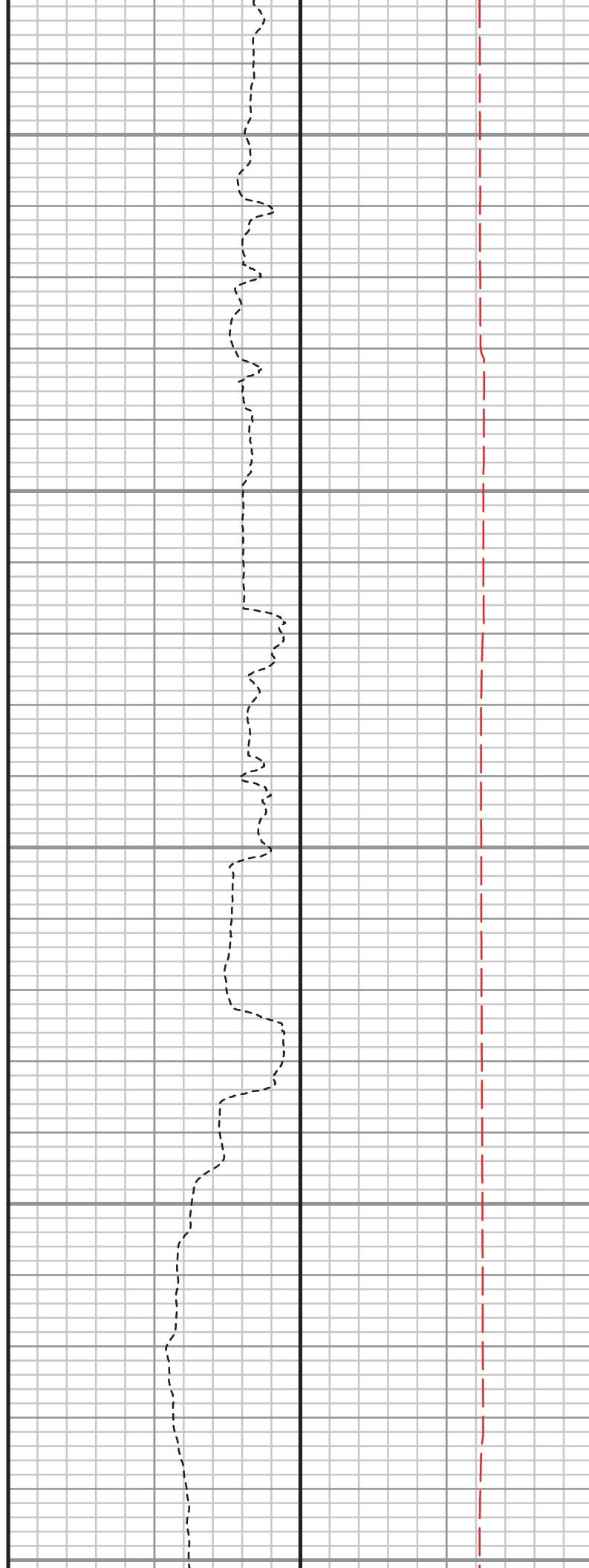
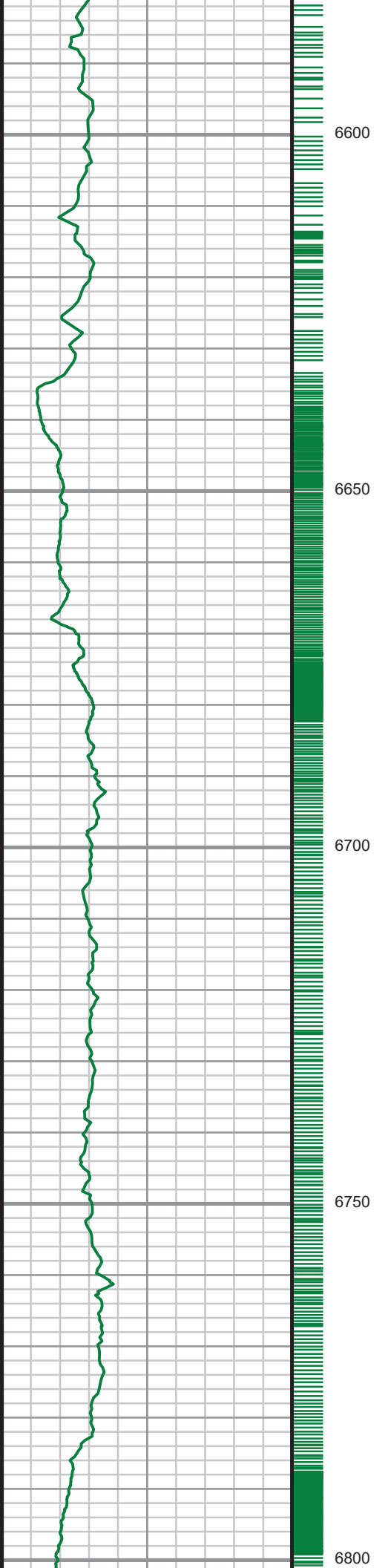
S: 60 MD: 6289.00 ft  
Inc: 52.23 deg Az:  
268.23 deg TVD:  
6181.71 ft



S: 61 MD: 6383.00 ft  
Inc: 58.56 deg Az:  
269.81 deg TVD:  
6235.06 ft

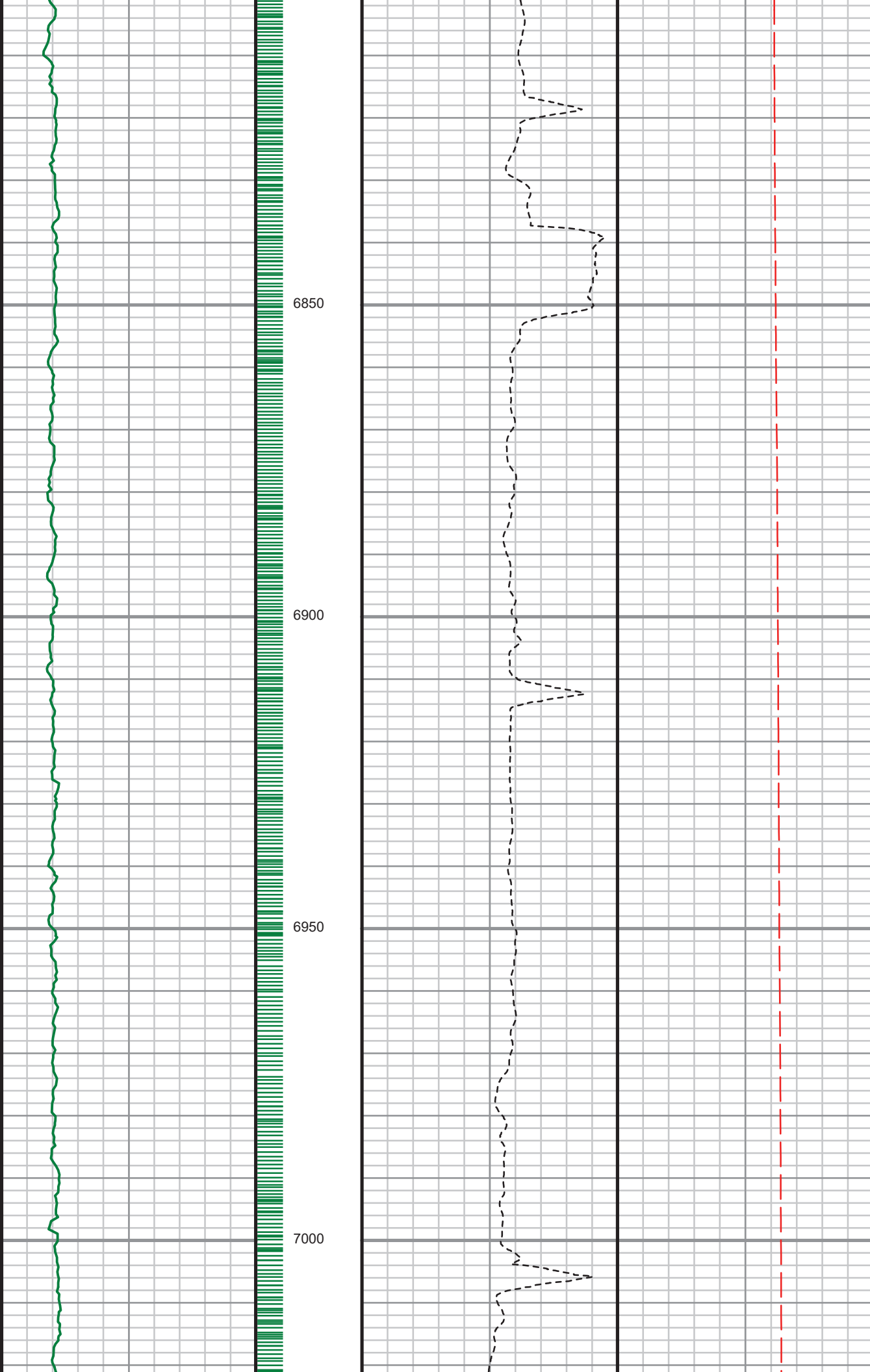
S: 62 MD: 6477.00 ft  
Inc: 71.14 deg Az:  
269.20 deg TVD:  
6274.93 ft

S: 63 MD: 6571.00 ft  
Inc: 80.55 deg Az:  
267.70 deg TVD:  
6297.90 ft



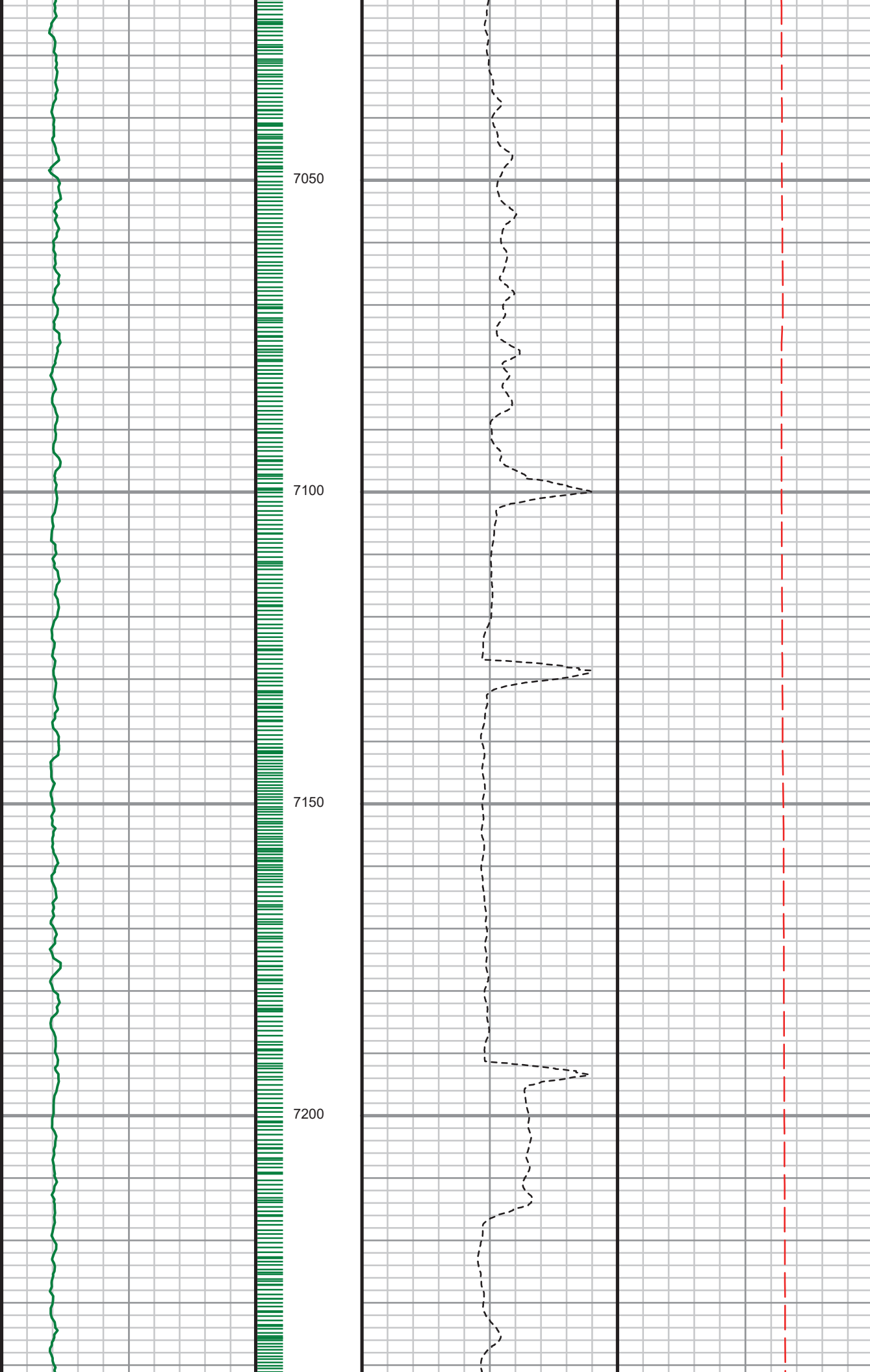
S: 64 MD: 6628.00 ft  
Inc: 85.74 deg Az:  
266.12 deg TVD:  
6304.70 ft

S: 65 MD: 6762.00 ft  
Inc: 87.92 deg Az:  
267.83 deg TVD:  
6312.12 ft



S: 66 MD: 6856.00 ft  
Inc: 89.30 deg Az:  
268.10 deg TVD:  
6314.40 ft

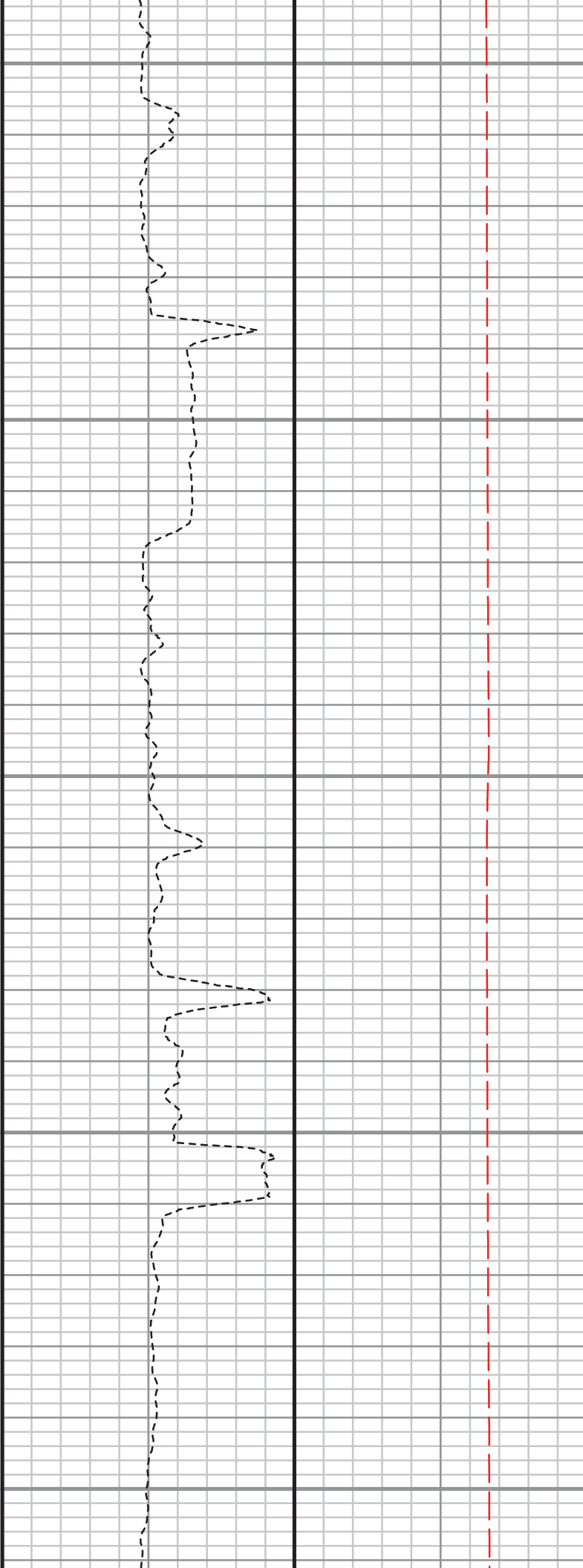
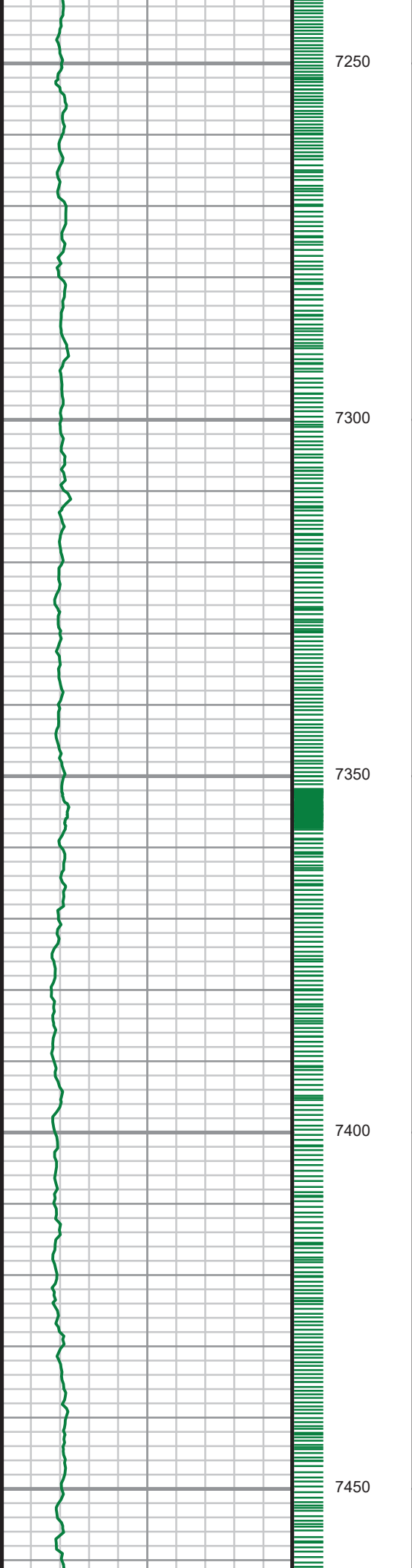
S: 67 MD: 6950.00 ft  
Inc: 89.87 deg Az:  
269.95 deg TVD:  
6315.09 ft



S: 68 MD: 7043.00 ft  
Inc: 90.17 deg Az:  
268.64 deg TVD:  
6315.06 ft

S: 69 MD: 7137.00 ft  
Inc: 89.93 deg Az:  
268.63 deg TVD:  
6314.98 ft

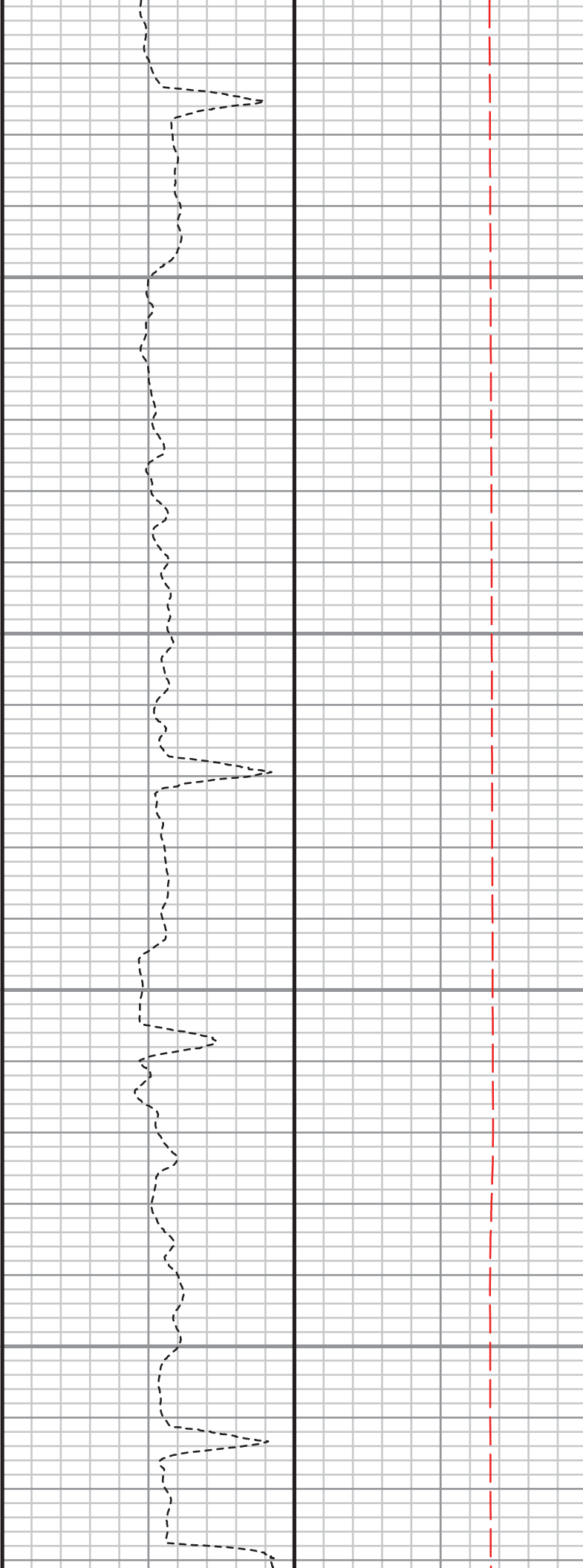
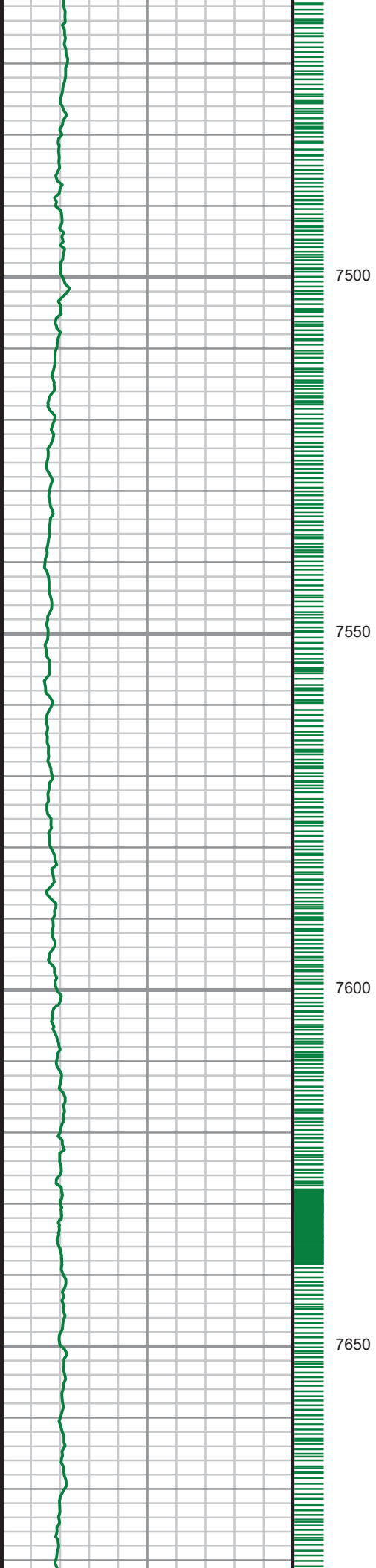
S: 70 MD: 7231.00 ft  
Inc: 90.03 deg Az:  
270.21 deg TVD:  
6315.01 ft



S: 71 MD: 7325.00 ft  
Inc: 90.67 deg Az:  
271.40 deg TVD:  
6314.43 ft

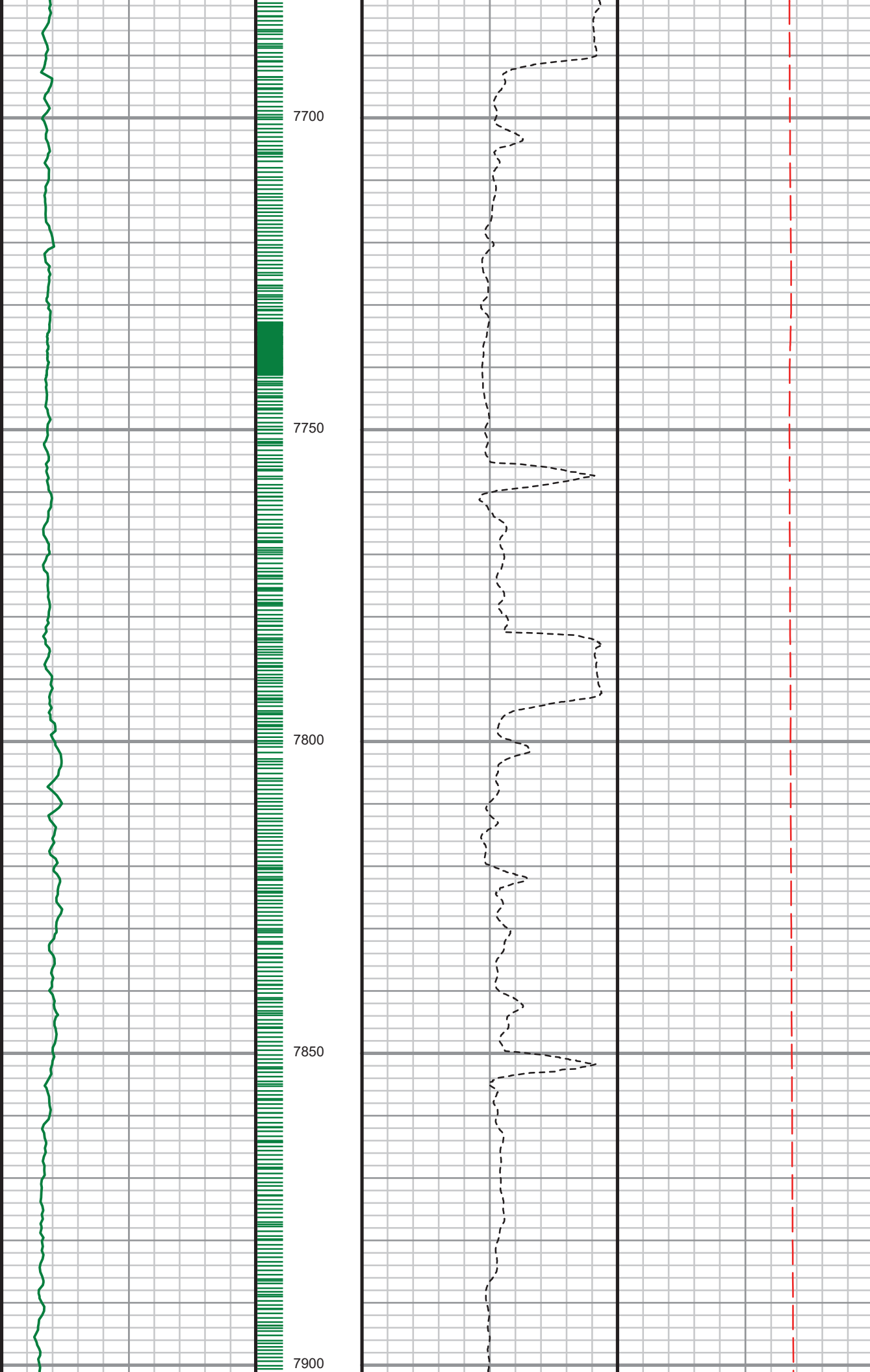
S: 72 MD: 7419.00 ft  
Inc: 88.86 deg Az:  
270.91 deg TVD:  
6314.81 ft





S: 73 MD: 7513.00 ft  
Inc: 88.89 deg Az:  
270.39 deg TVD:  
6316.66 ft

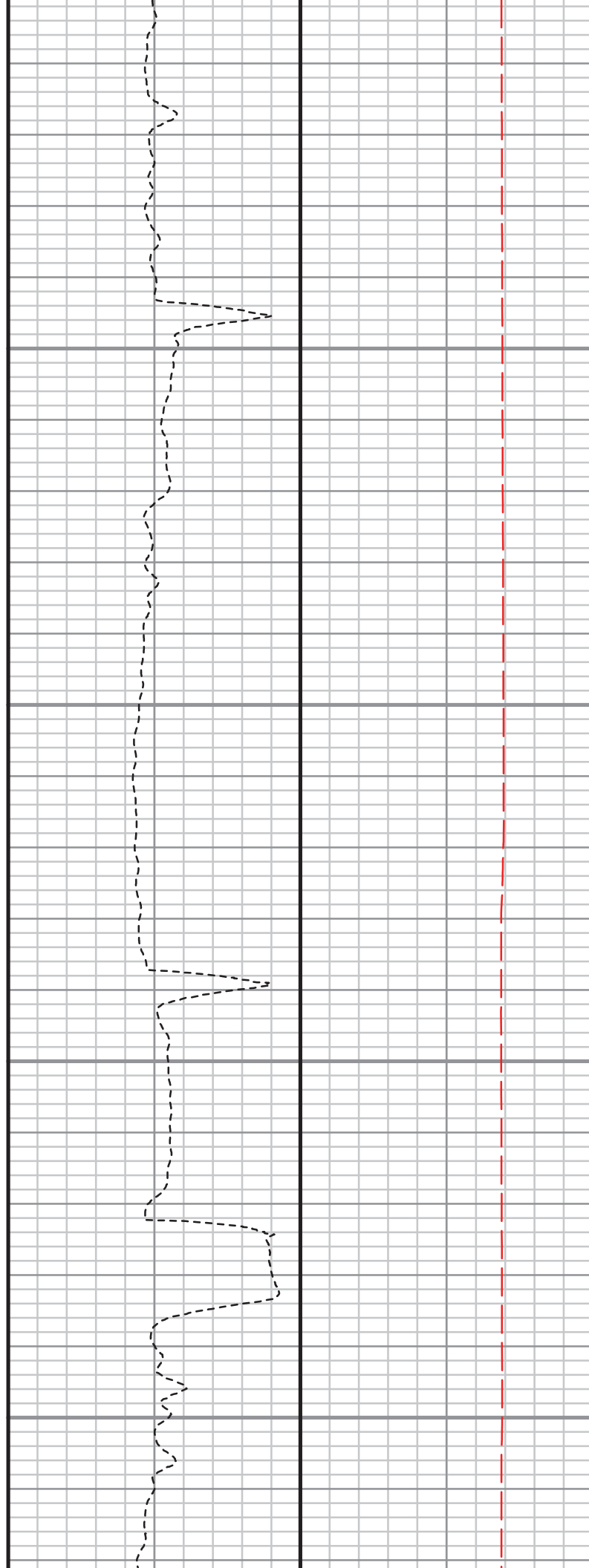
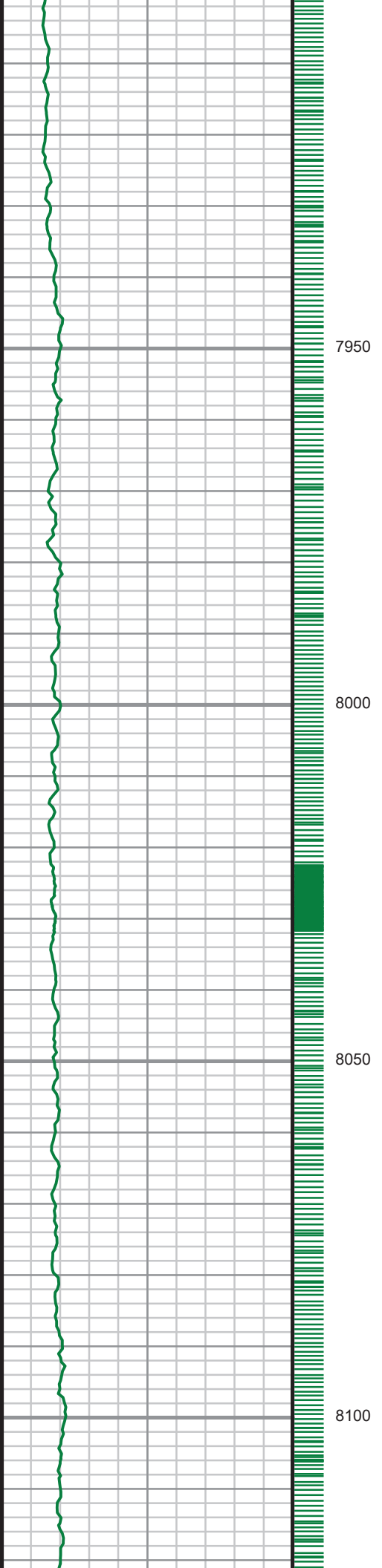
S: 74 MD: 7606.00 ft  
Inc: 90.74 deg Az:  
271.23 deg TVD:  
6316.95 ft



S: 75 MD: 7700.00 ft  
Inc: 89.53 deg Az:  
271.06 deg TVD:  
6316.73 ft

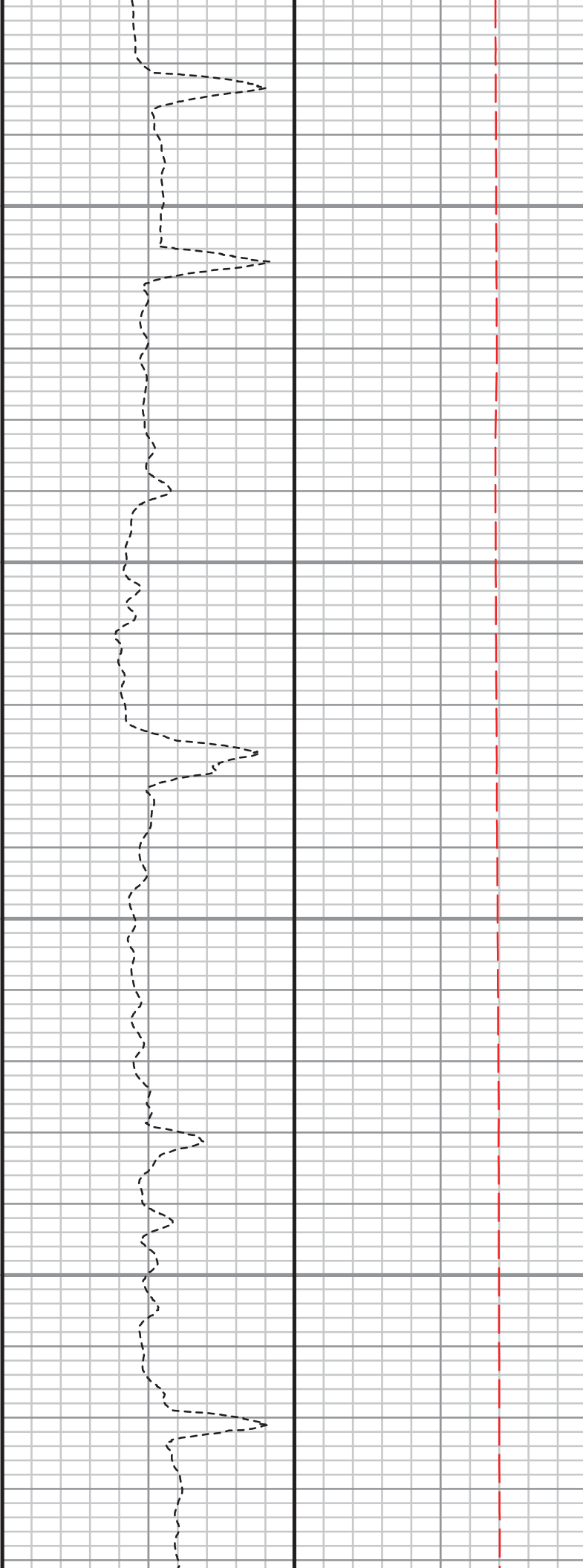
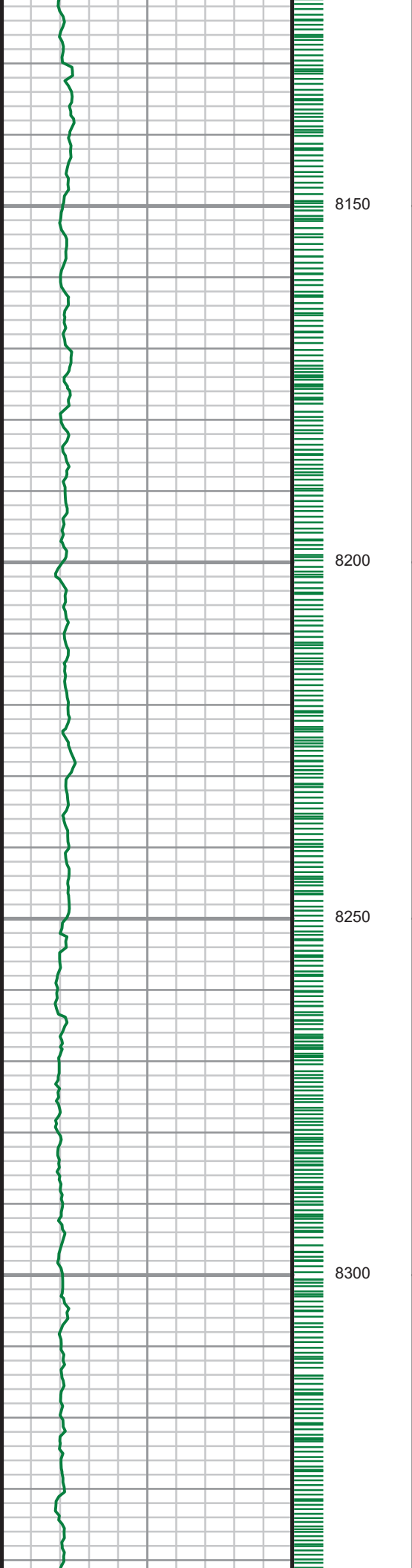
S: 76 MD: 7794.00 ft  
Inc: 88.69 deg Az:  
270.21 deg TVD:  
6318.19 ft

S: 77 MD: 7889.00 ft  
Inc: 89.26 deg Az:  
270.73 deg TVD:  
6319.89 ft



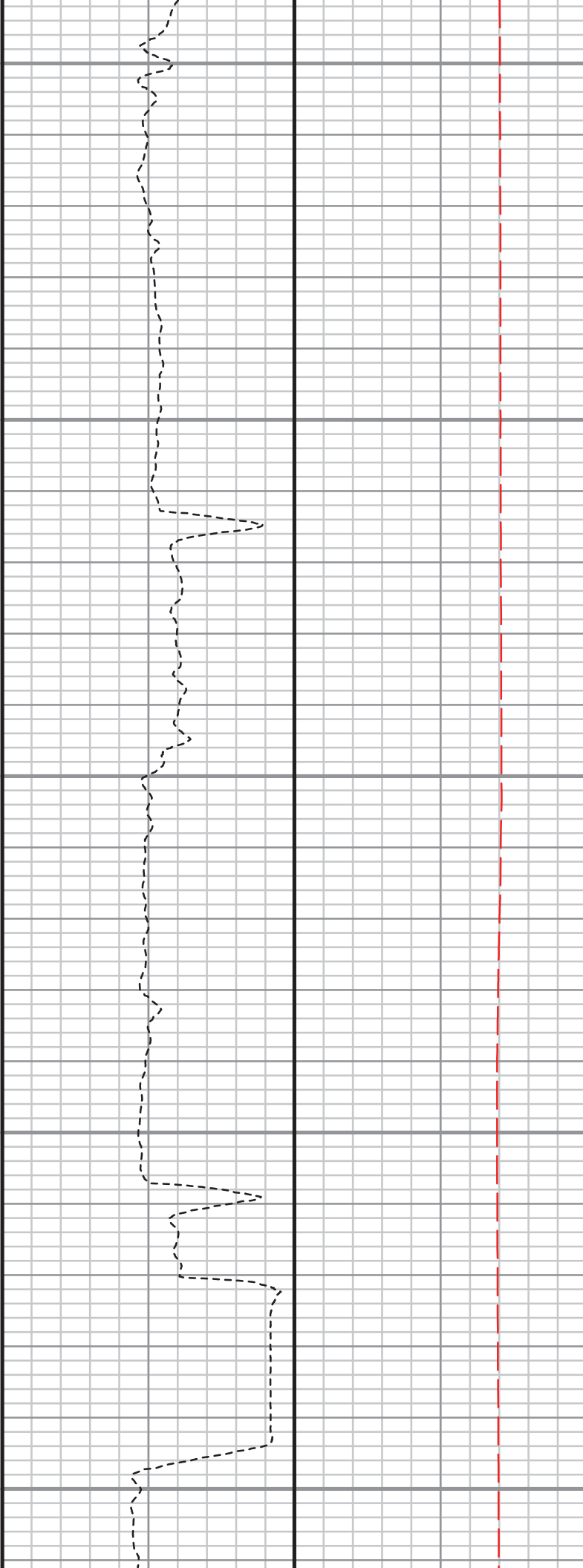
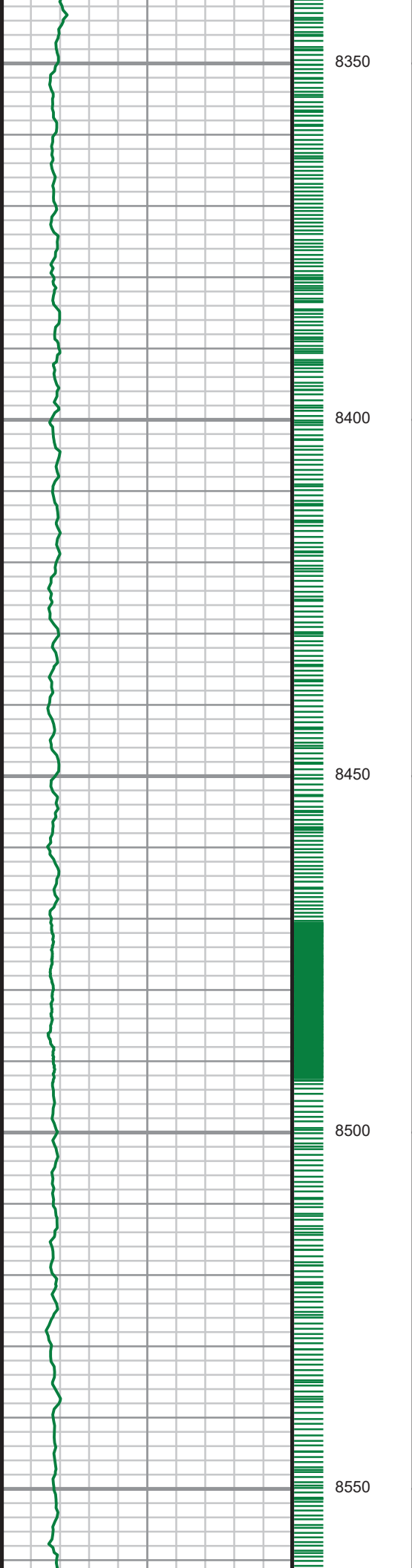
S: 78 MD: 7982.00 ft  
Inc: 89.60 deg Az:  
270.90 deg TVD:  
6320.81 ft

S: 79 MD: 8076.00 ft  
Inc: 88.86 deg Az:  
267.87 deg TVD:  
6322.08 ft



S: 80 MD: 8170.00 ft  
Inc: 89.16 deg Az:  
268.43 deg TVD:  
6323.71 ft

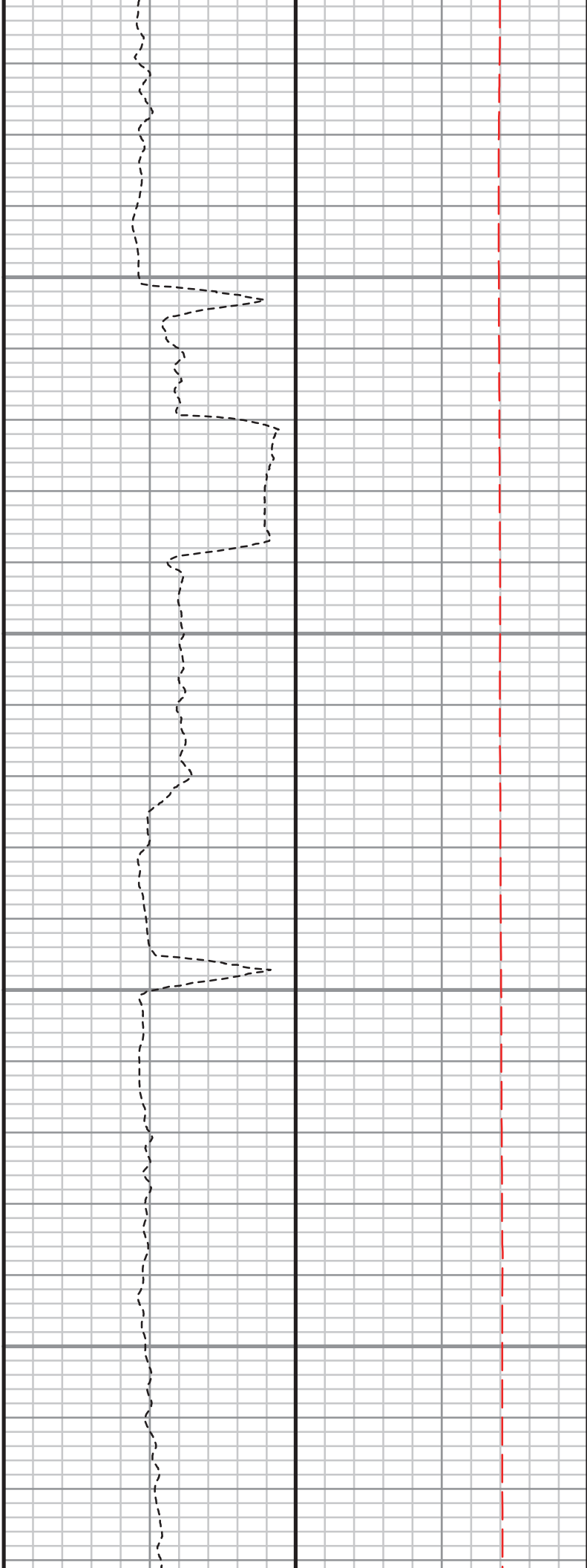
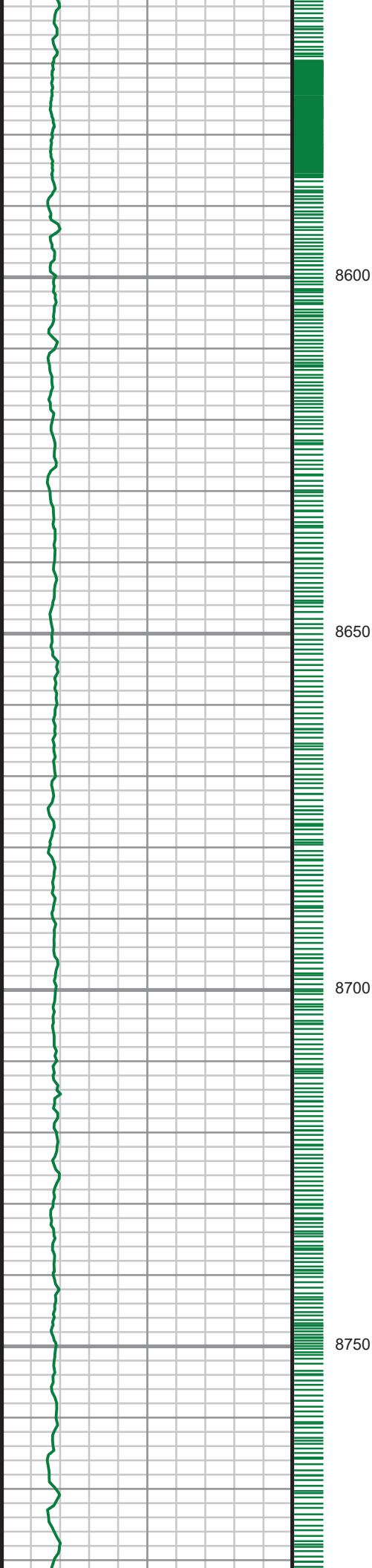
S: 81 MD: 8264.00 ft  
Inc: 90.03 deg Az:  
268.77 deg TVD:  
6324.37 ft



S: 82 MD: 8358.00 ft  
Inc: 90.07 deg Az:  
268.61 deg TVD:  
6324.29 ft

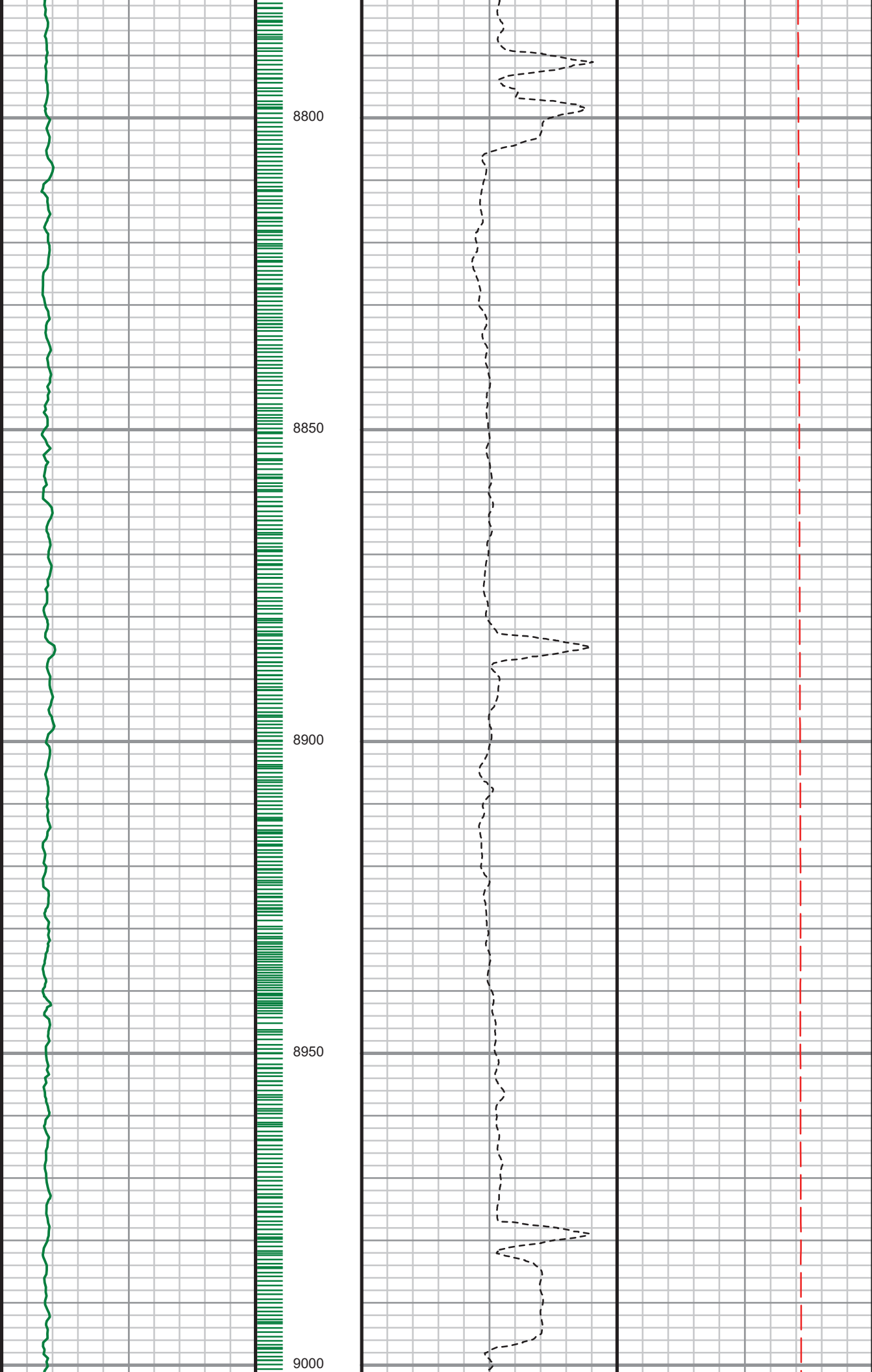
S: 83 MD: 8452.00 ft  
Inc: 89.36 deg Az:  
265.76 deg TVD:  
6324.75 ft

S: 84 MD: 8546.00 ft  
Inc: 88.89 deg Az:  
268.50 deg TVD:  
6326.19 ft



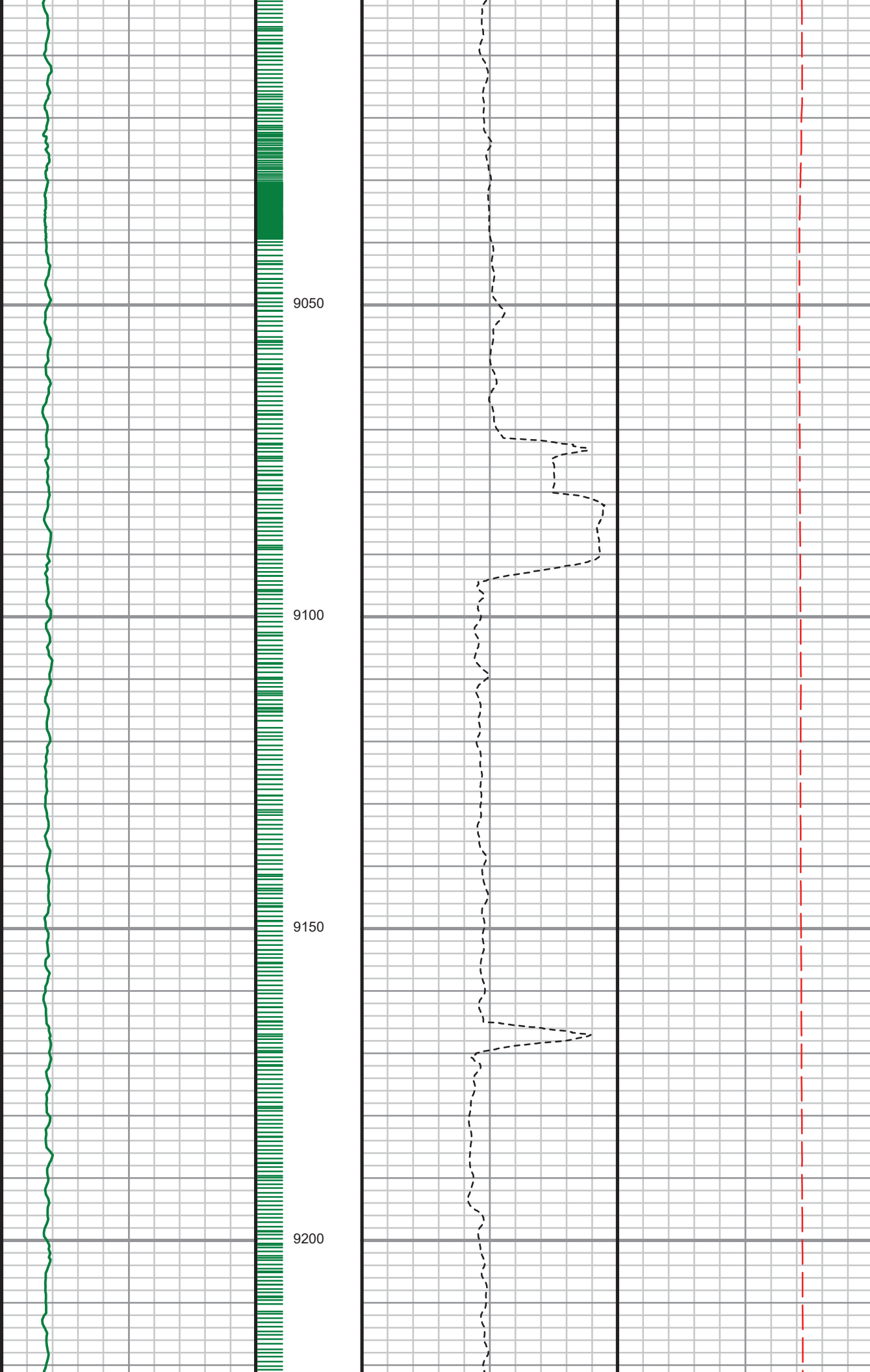
S: 85 MD: 8640.00 ft  
Inc: 89.60 deg Az:  
271.45 deg TVD:  
6327.42 ft

S: 86 MD: 8734.00 ft  
Inc: 89.78 deg Az:  
271.57 deg TVD:  
6327.94 ft



S: 87 MD: 8827.00 ft  
Inc: 89.19 deg Az:  
271.20 deg TVD:  
6328.77 ft

S: 88 MD: 8921.00 ft  
Inc: 89.19 deg Az:  
271.57 deg TVD:  
6330.09 ft

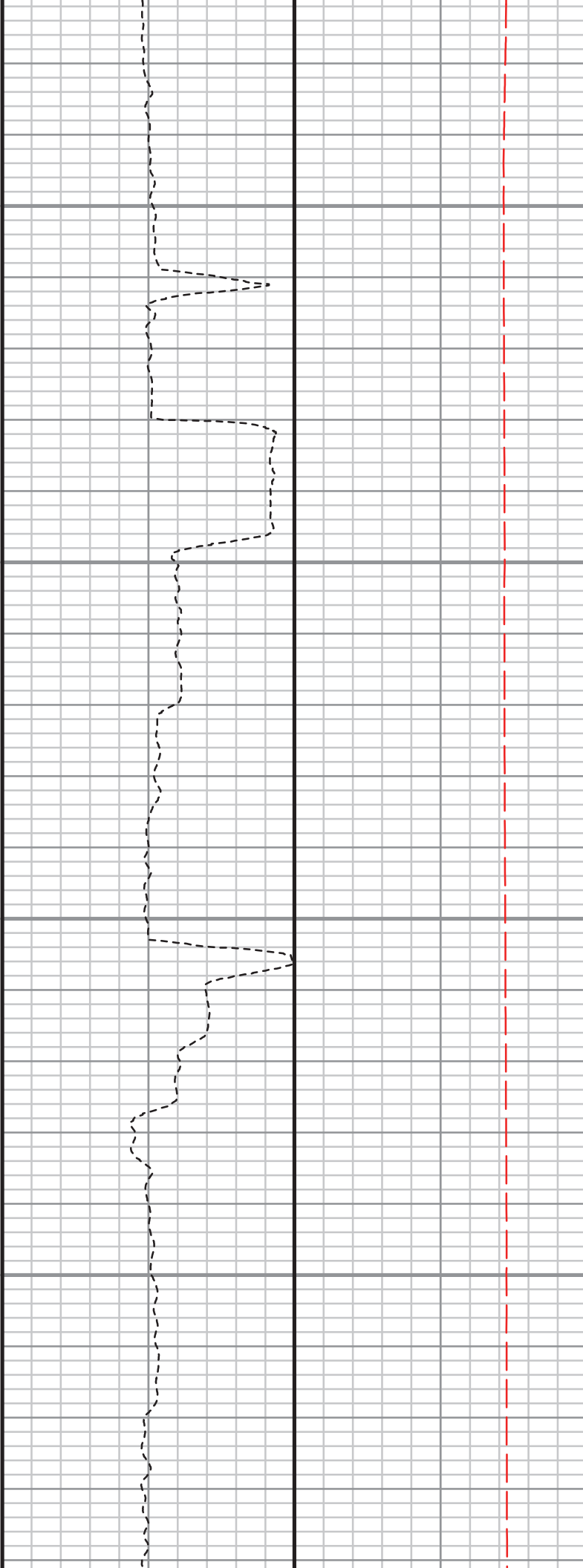
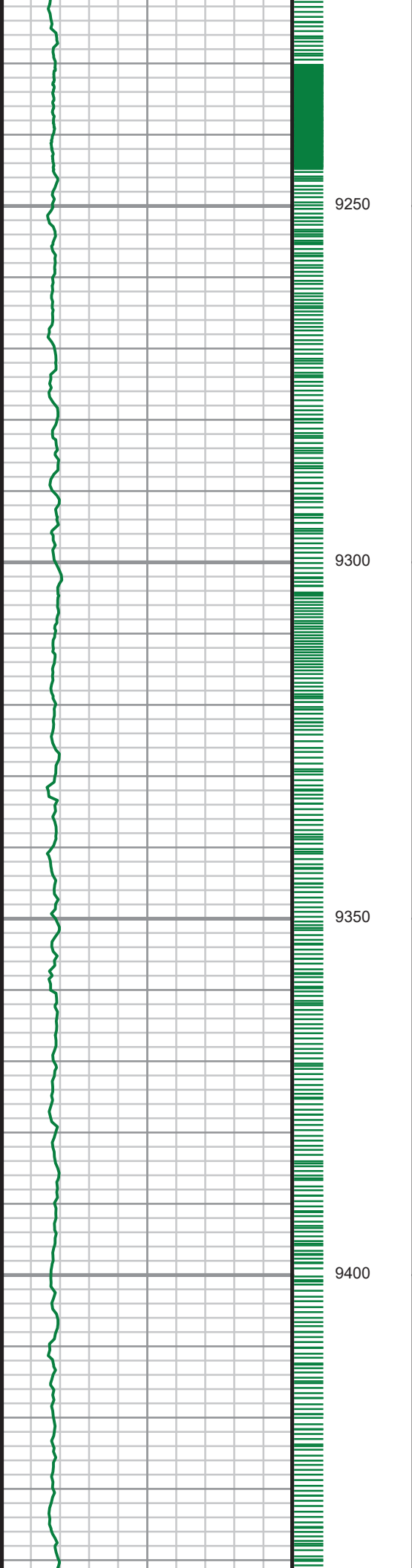


S: 89 MD: 9015.00 ft  
Inc: 89.34 deg Az:  
273.24 deg TVD:  
6331.29 ft

S: 90 MD: 9109.00 ft  
Inc: 89.80 deg Az:  
273.13 deg TVD:  
6332.00 ft

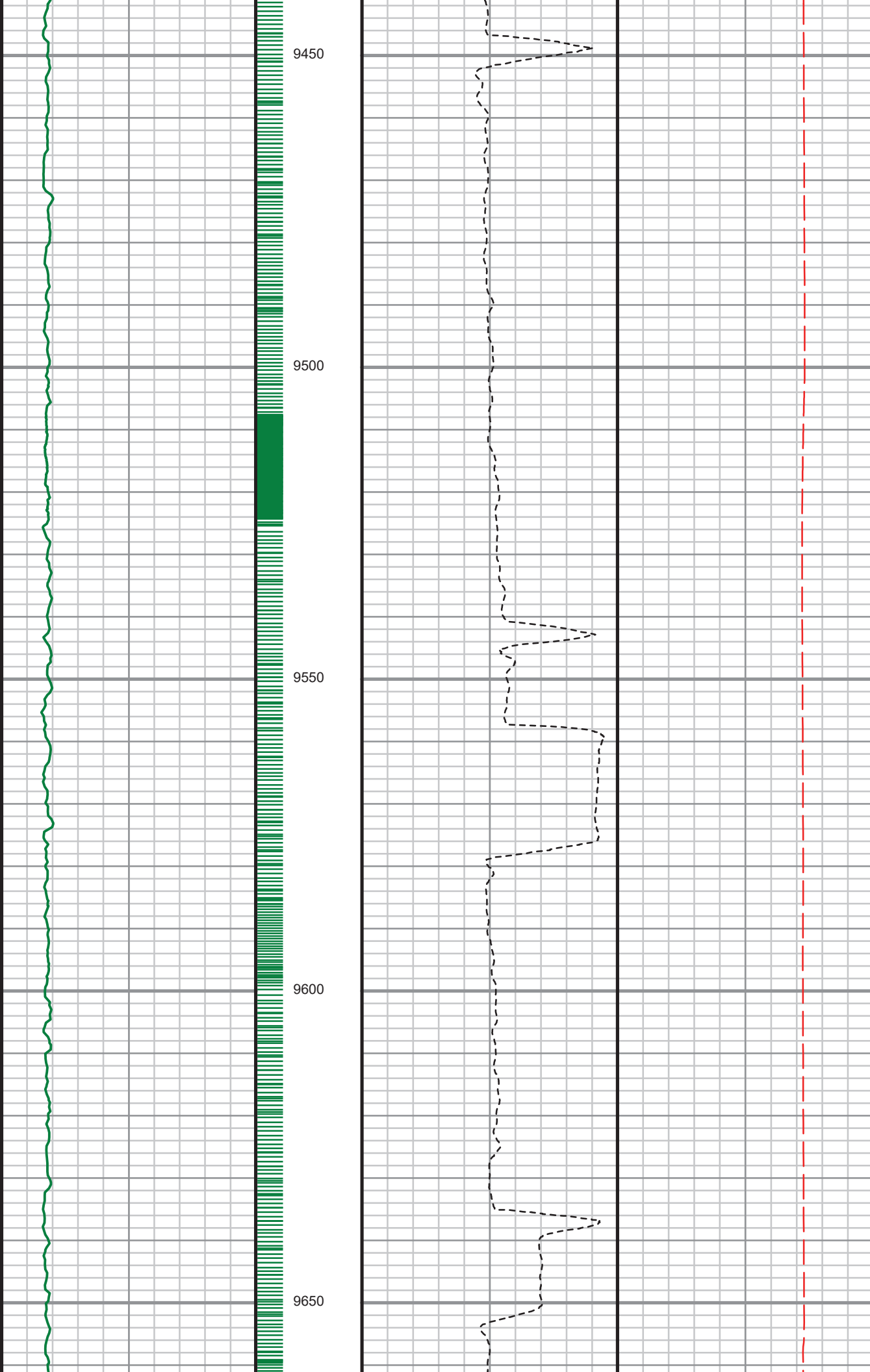
S: 91 MD: 9203.00 ft  
Inc: 89.33 deg Az:  
273.49 deg TVD:  
6332.71 ft





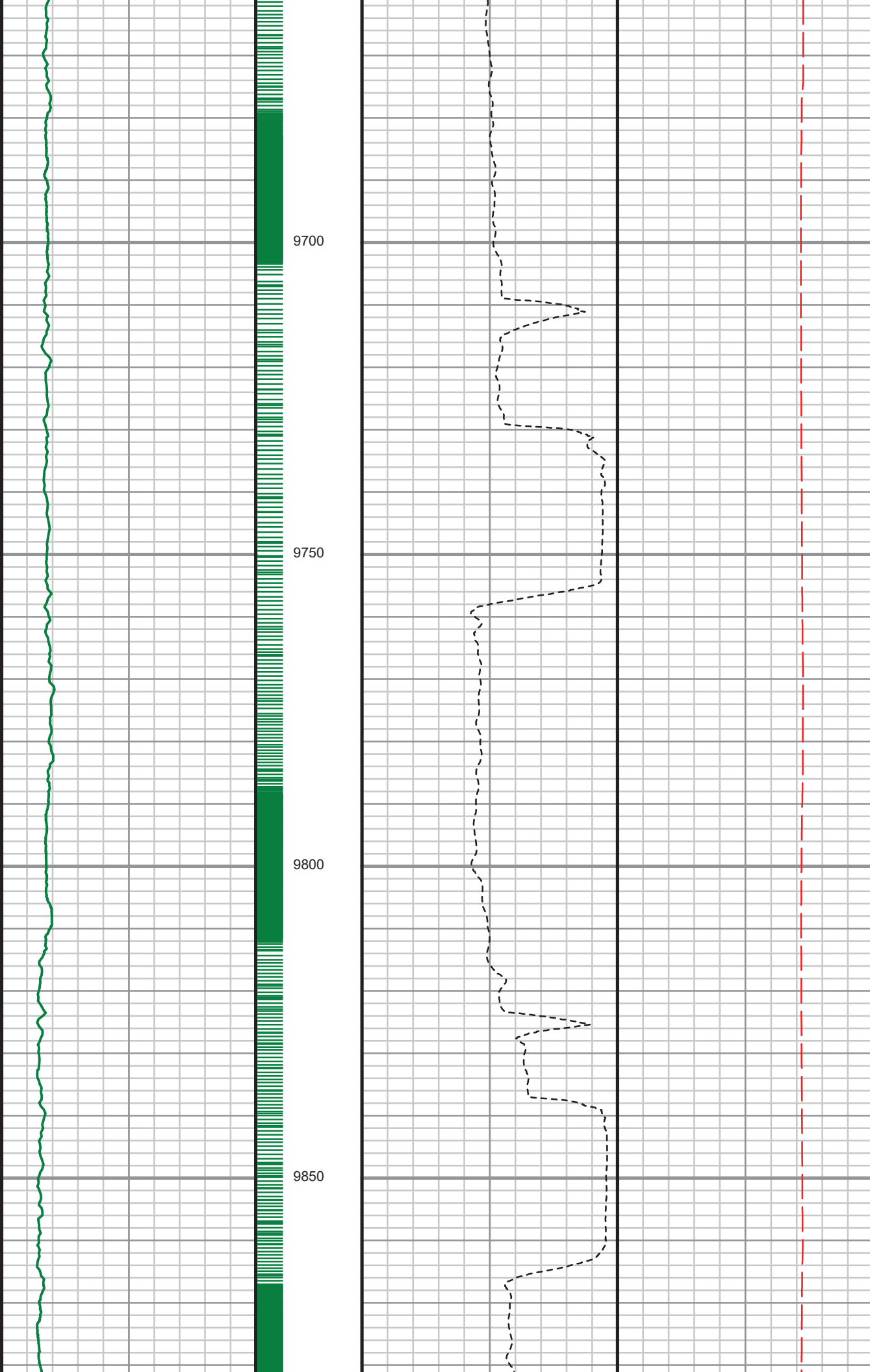
S: 92 MD: 9297.00 ft  
Inc: 89.56 deg Az:  
271.51 deg TVD:  
6333.63 ft

S: 93 MD: 9390.00 ft  
Inc: 89.73 deg Az:  
272.39 deg TVD:  
6334.20 ft



S: 94 MD: 9484.00 ft  
Inc: 89.70 deg Az:  
272.99 deg TVD:  
6334.67 ft

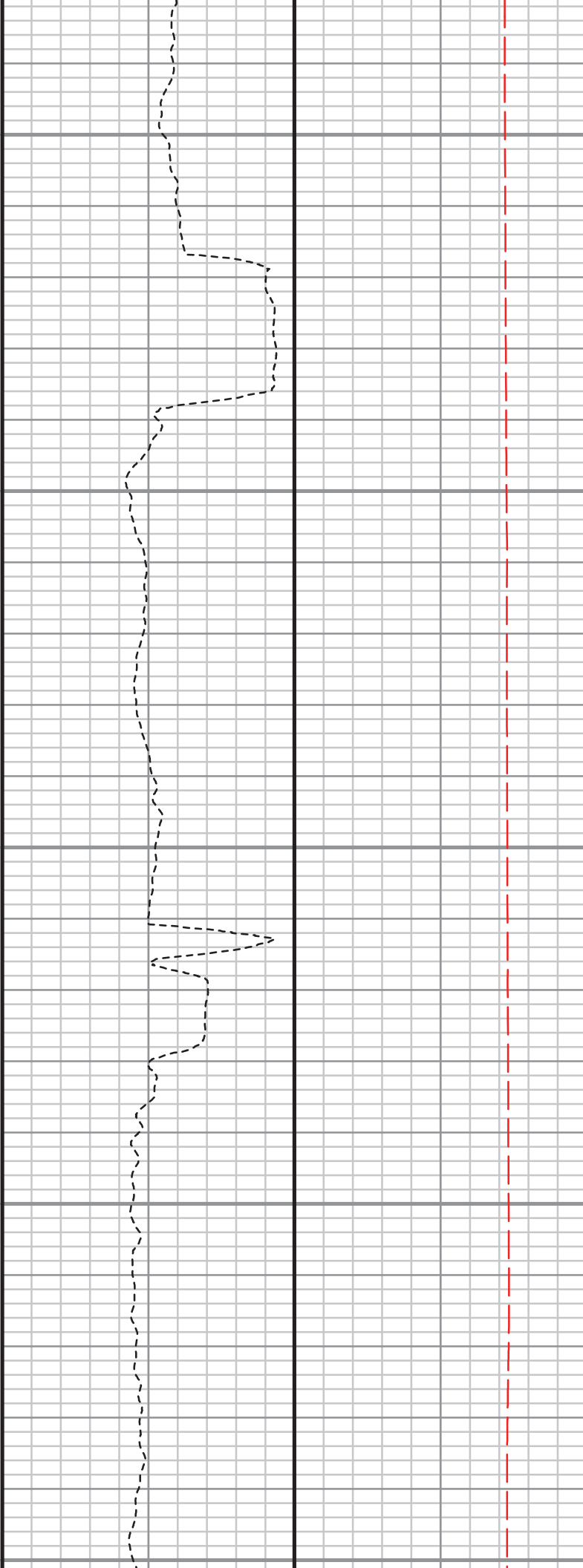
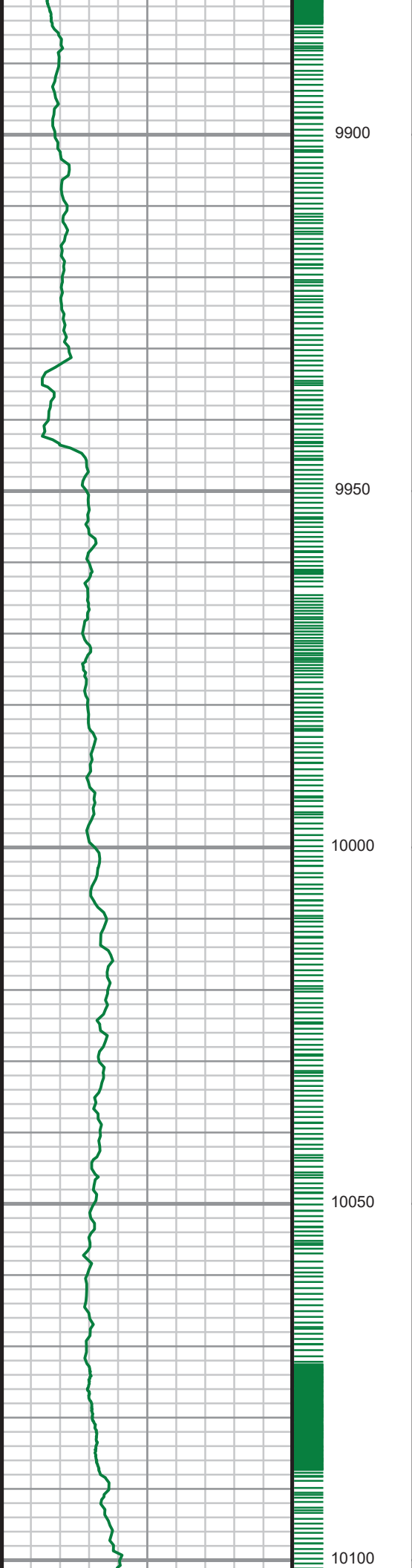
S: 95 MD: 9578.00 ft  
Inc: 89.73 deg Az:  
271.74 deg TVD:  
6335.13 ft



S: 96 MD: 9672.00 ft  
Inc: 89.87 deg Az:  
273.42 deg TVD:  
6335.46 ft

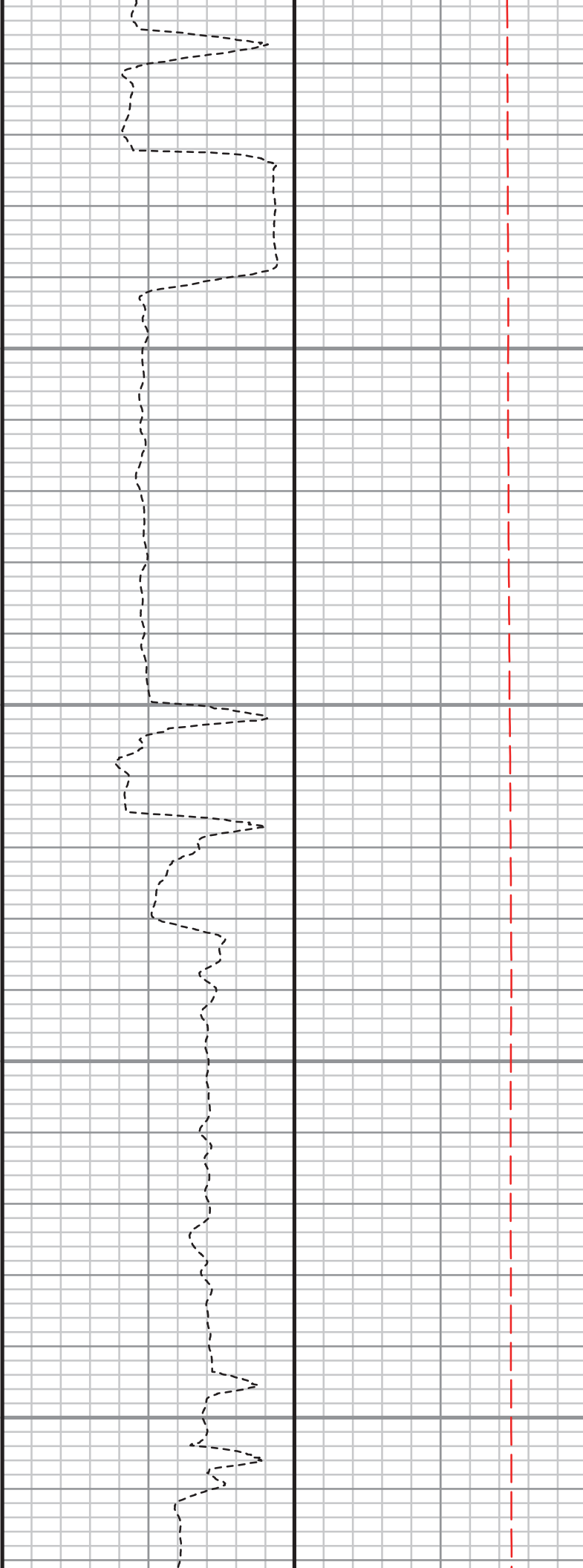
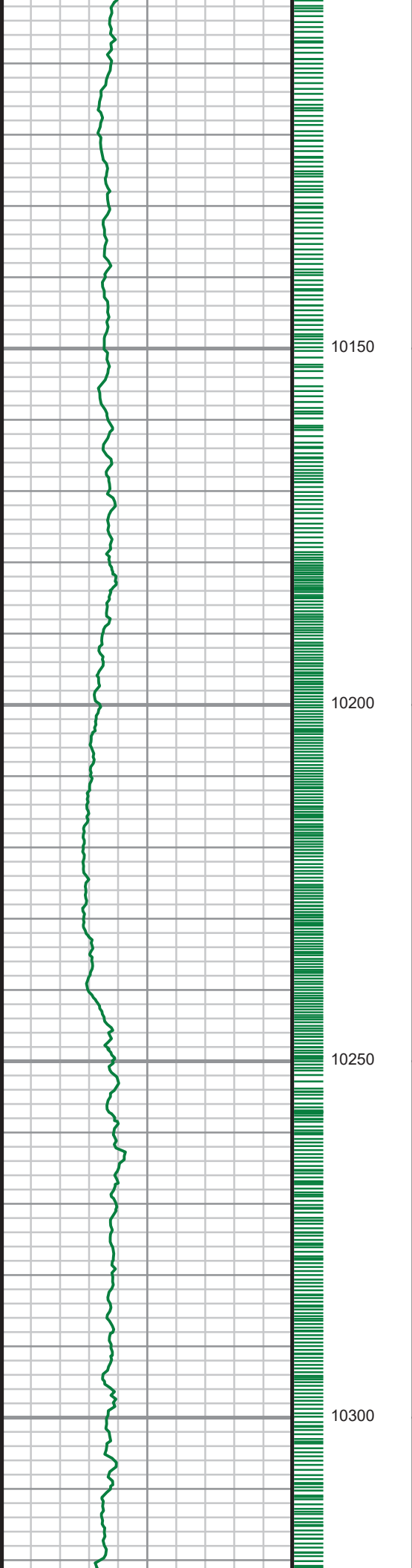
S: 97 MD: 9766.00 ft  
Inc: 90.10 deg Az:  
273.77 deg TVD:  
6335.49 ft

S: 98 MD: 9860.00 ft  
Inc: 88.37 deg Az:  
272.45 deg TVD:  
6336.74 ft



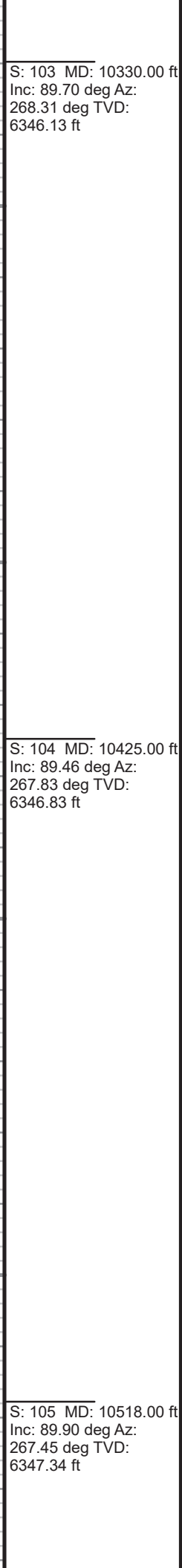
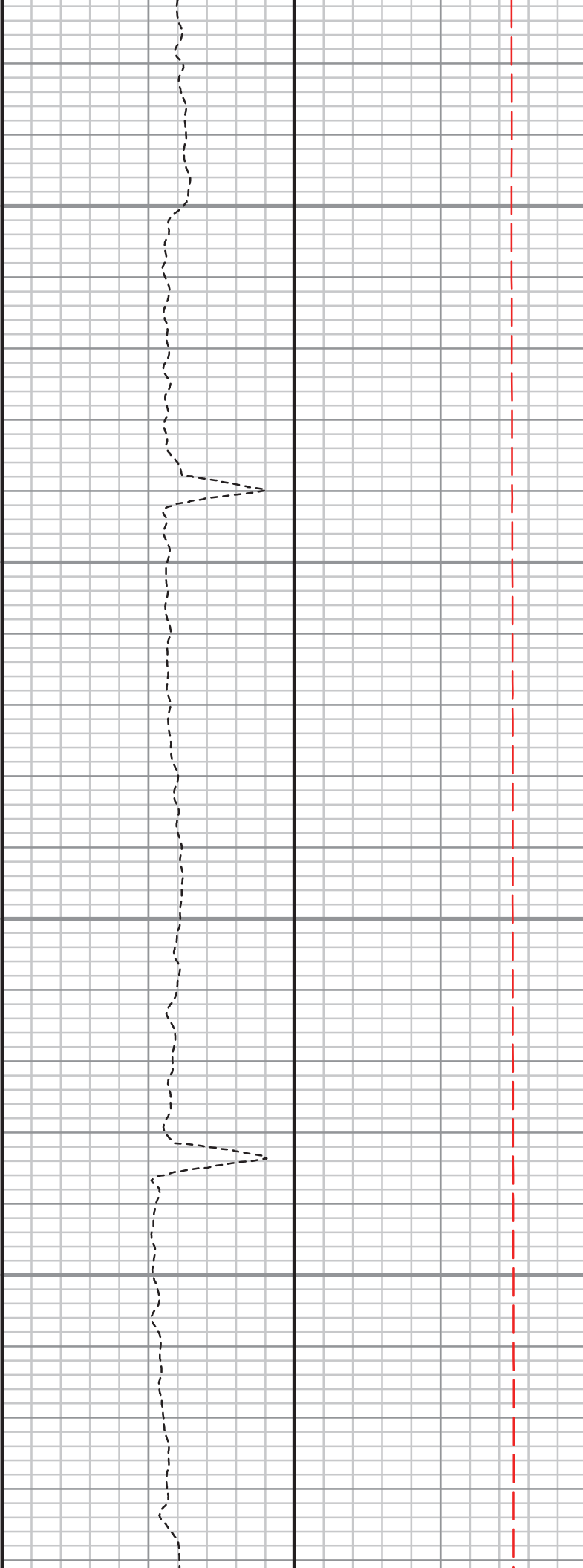
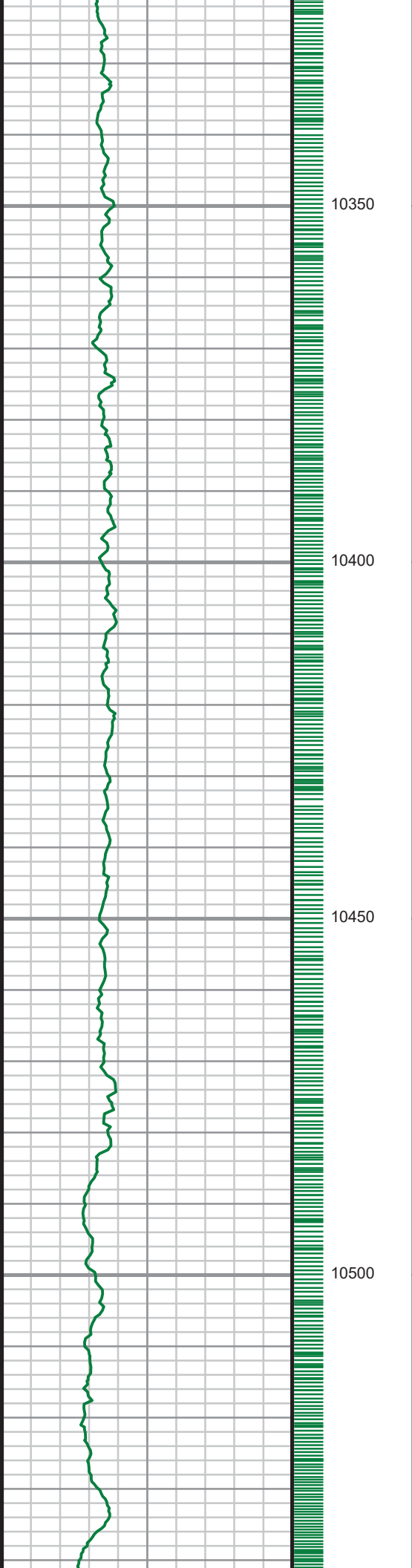
S: 99 MD: 9954.00 ft  
Inc: 88.02 deg Az:  
269.61 deg TVD:  
6339.70 ft

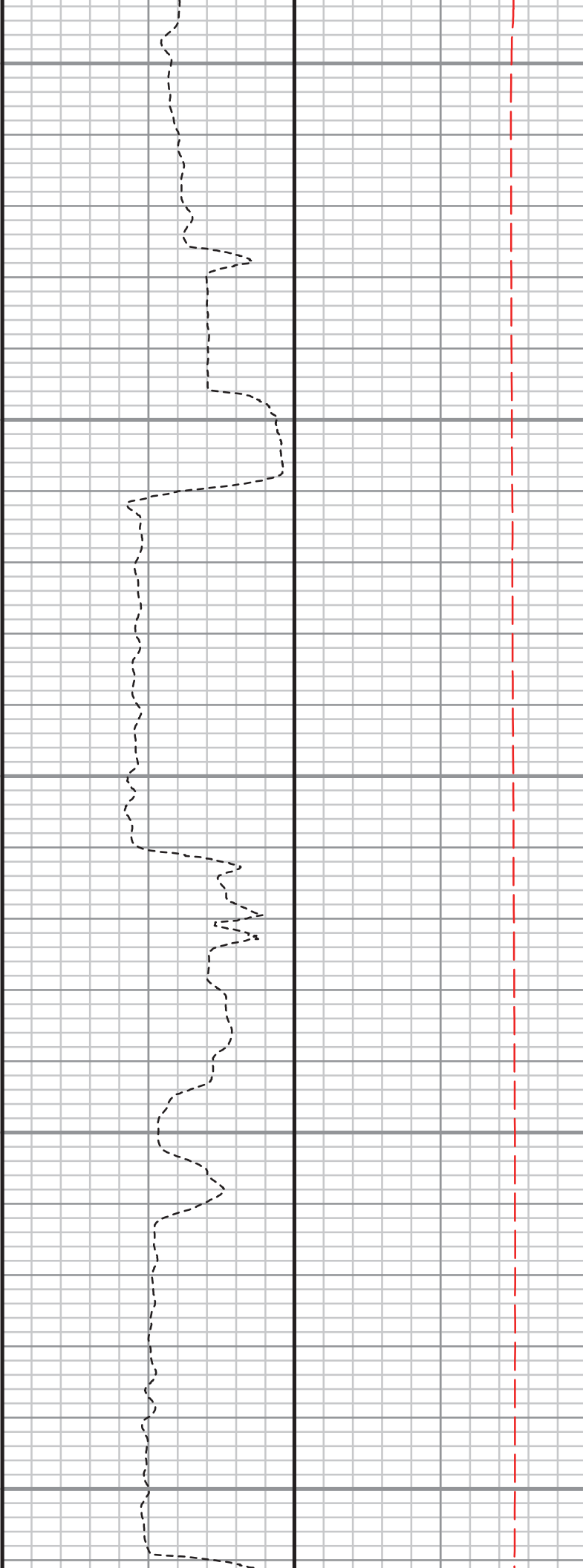
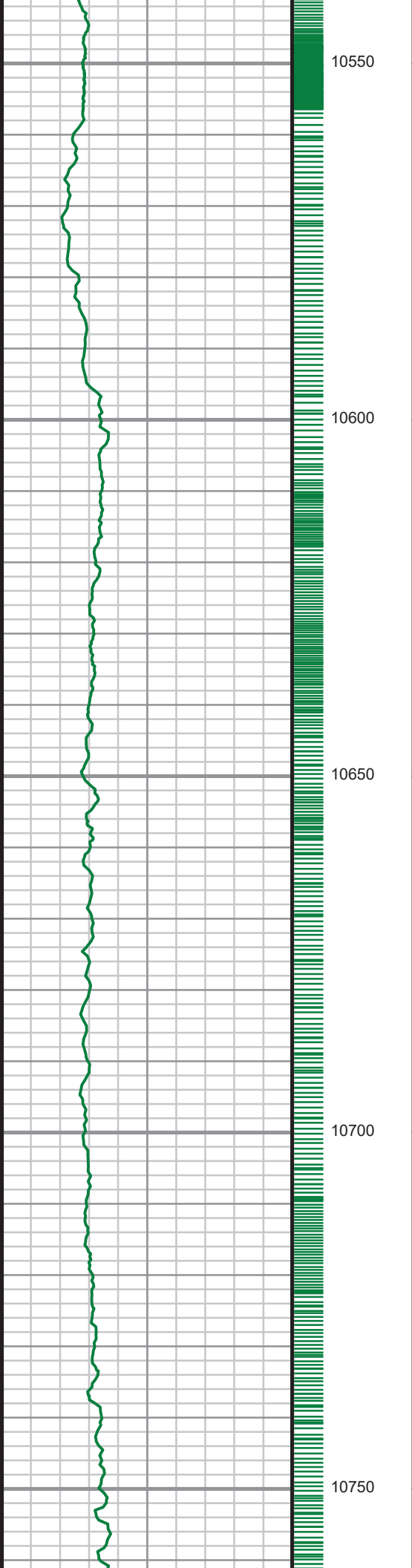
S: 100 MD: 10048.00 ft  
Inc: 87.99 deg Az:  
269.45 deg TVD:  
6342.98 ft



S: 101 MD: 10142.00 ft  
Inc: 89.60 deg Az:  
268.67 deg TVD:  
6344.95 ft

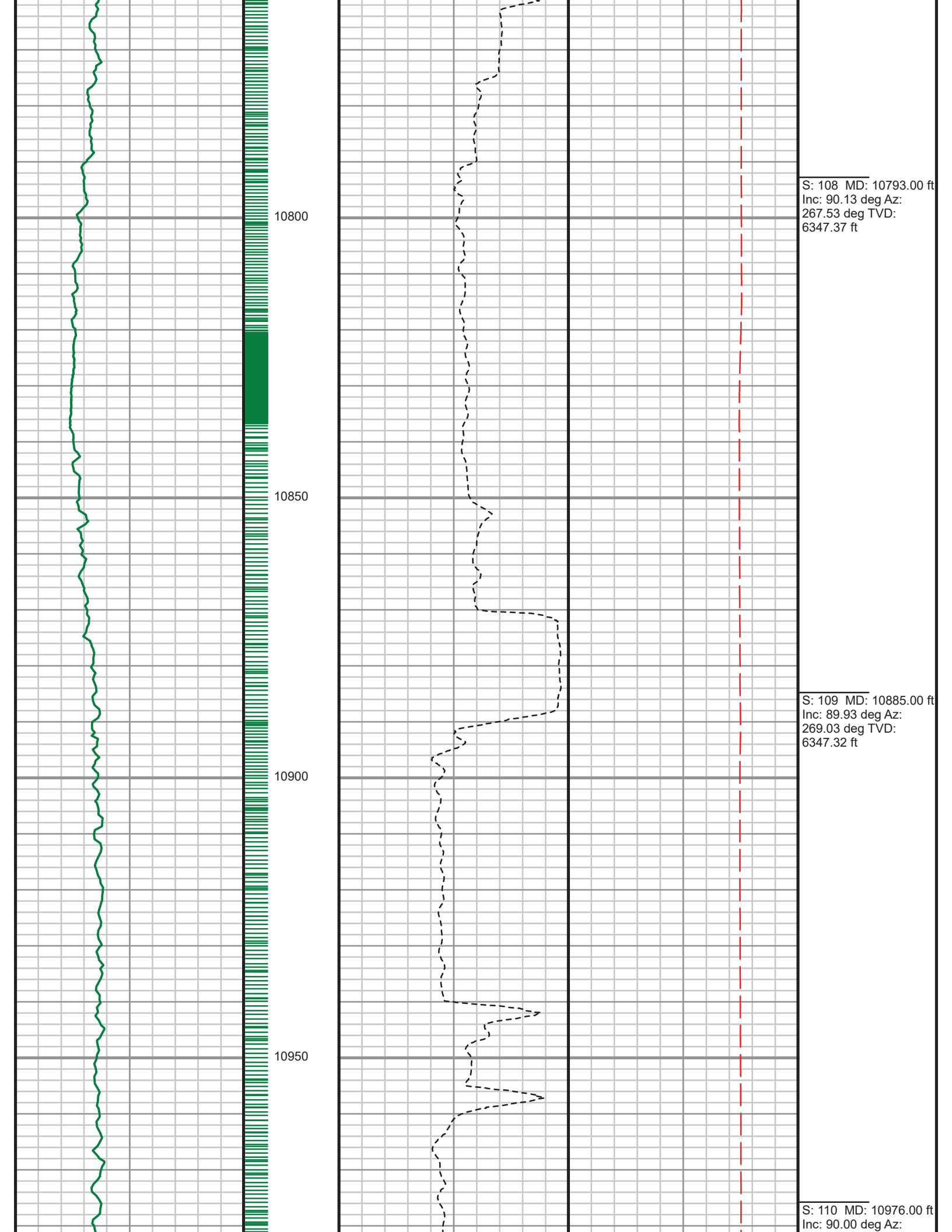
S: 102 MD: 10236.00 ft  
Inc: 89.63 deg Az:  
268.76 deg TVD:  
6345.58 ft



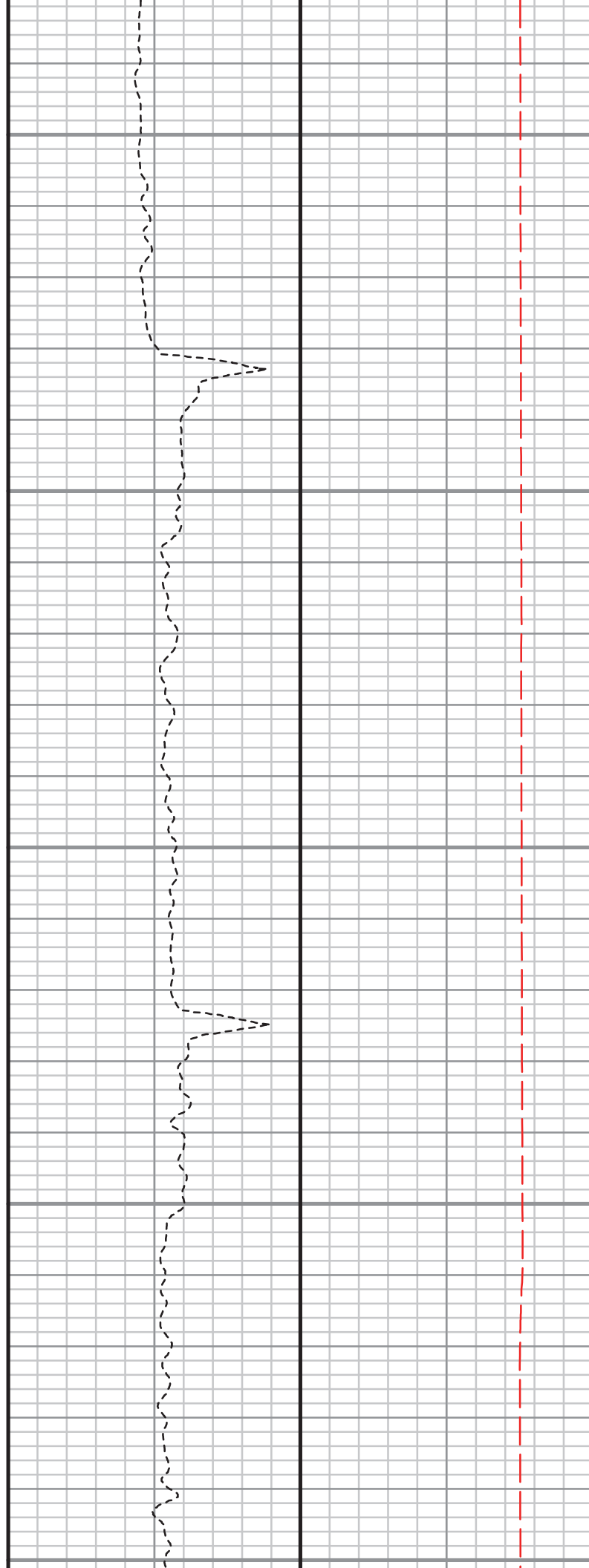
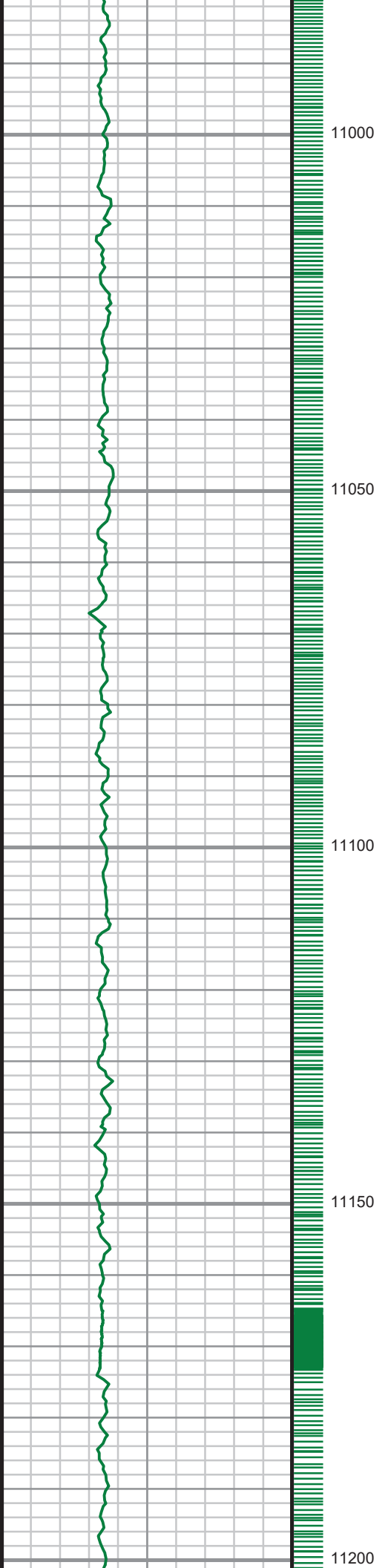


S: 106 MD: 10610.00 ft  
Inc: 89.97 deg Az:  
267.61 deg TVD:  
6347.45 ft

S: 107 MD: 10701.00 ft  
Inc: 90.00 deg Az:  
267.70 deg TVD:  
6347.48 ft



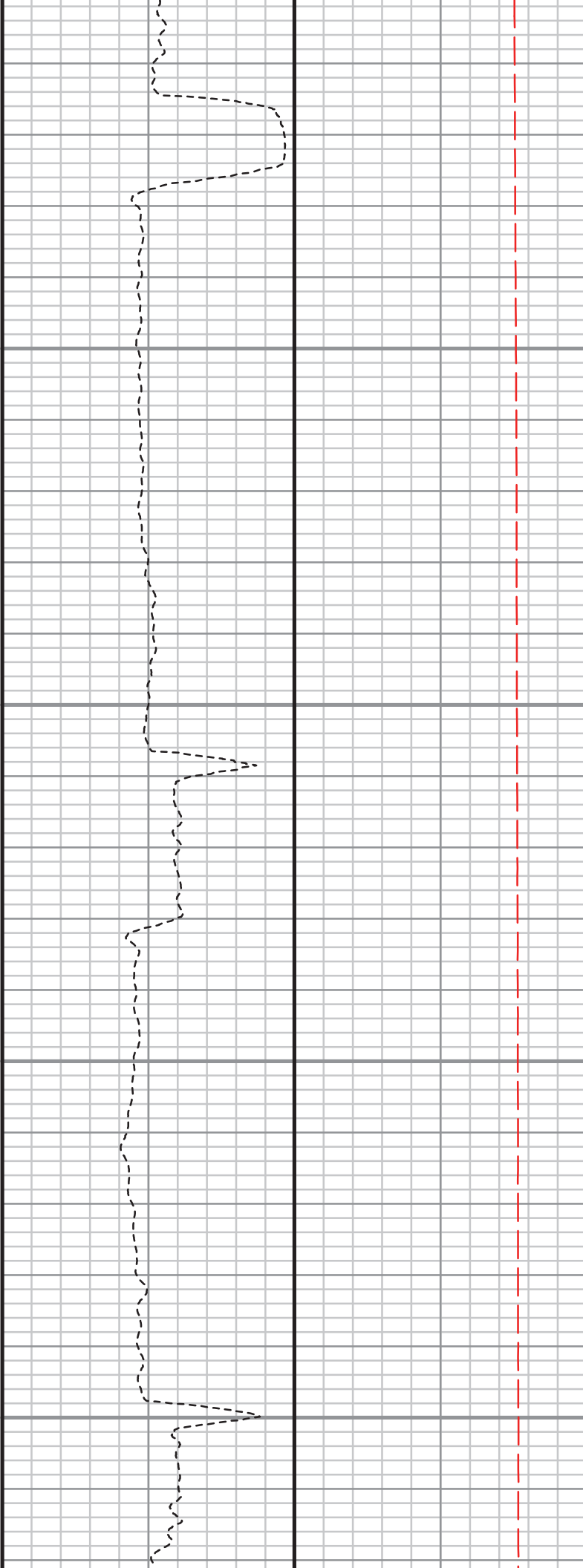
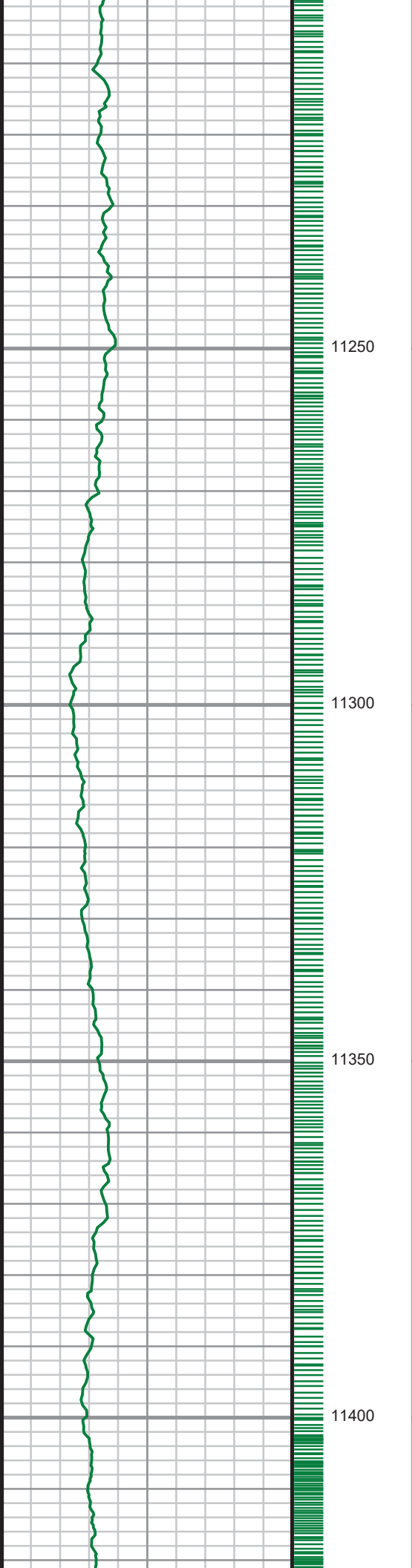




268.42 deg TVD:  
6347.37 ft

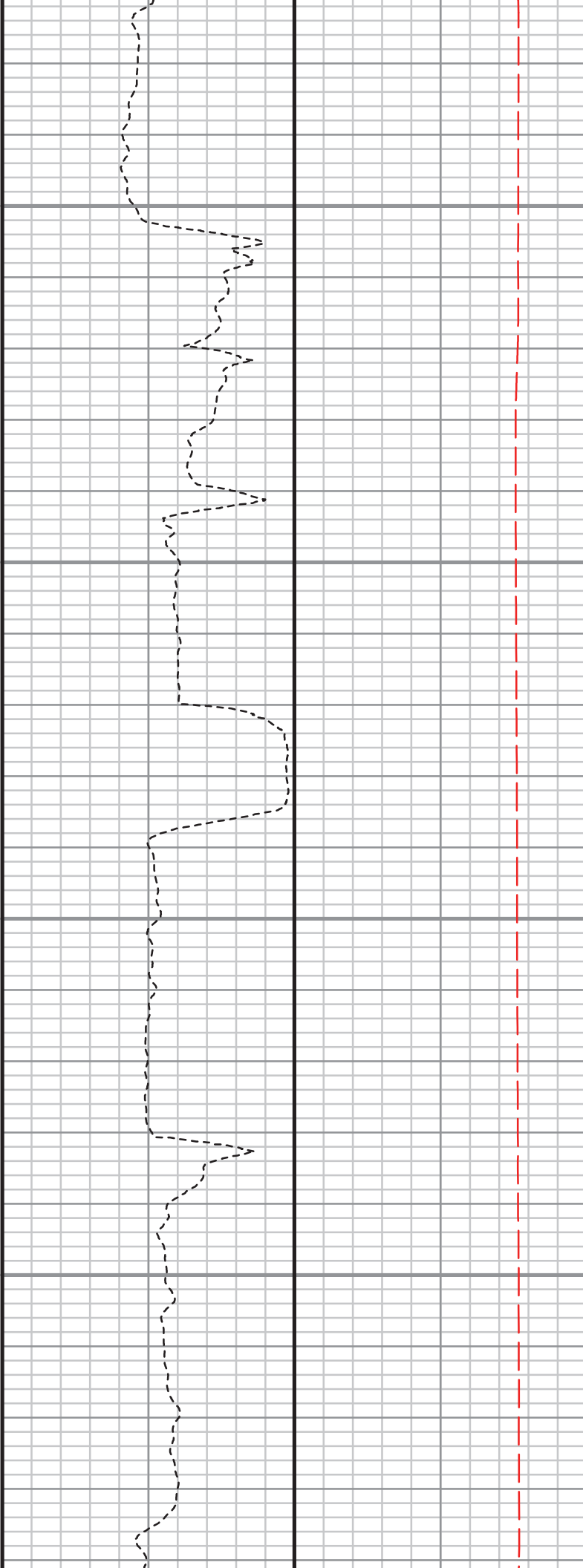
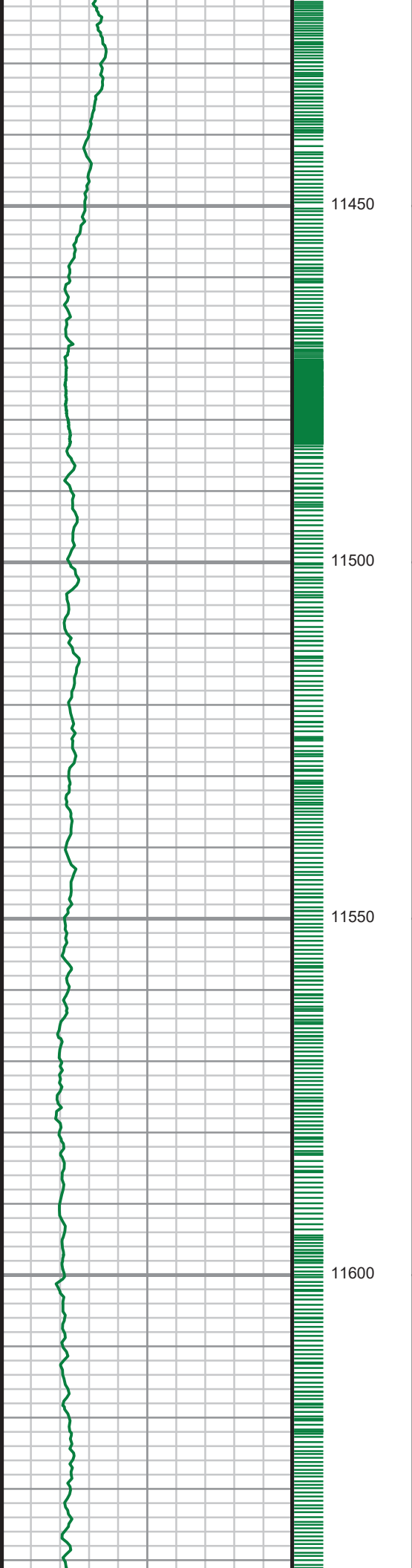
S: 111 MD: 11067.00 ft  
Inc: 89.49 deg Az:  
268.52 deg TVD:  
6347.77 ft

S: 112 MD: 11158.00 ft  
Inc: 90.07 deg Az:  
269.21 deg TVD:  
6348.12 ft



S: 113 MD: 11250.00 ft  
Inc: 88.42 deg Az:  
268.98 deg TVD:  
6349.33 ft

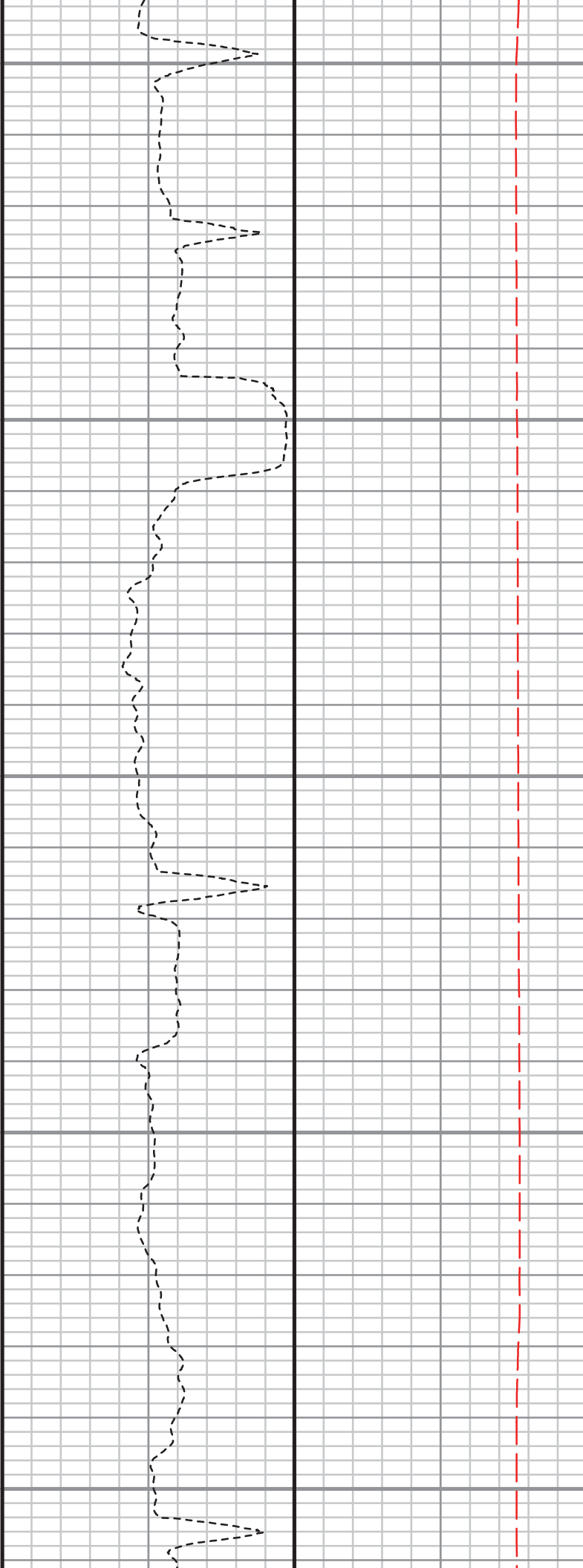
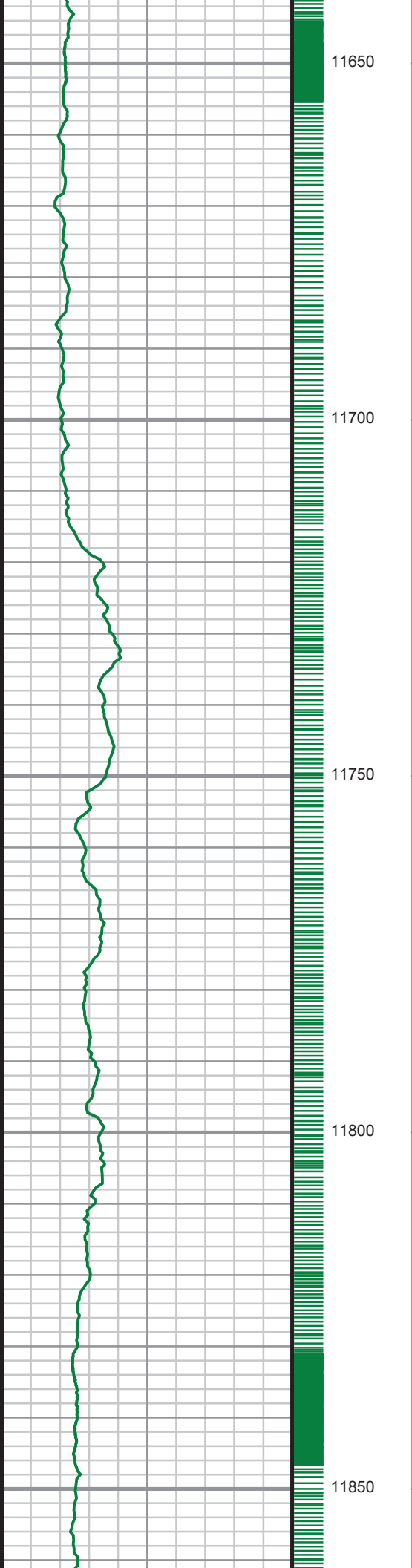
S: 114 MD: 11341.00 ft  
Inc: 88.31 deg Az:  
269.00 deg TVD:  
6351.93 ft



S: 115 MD: 11432.00 ft  
Inc: 88.09 deg Az:  
268.62 deg TVD:  
6354.78 ft

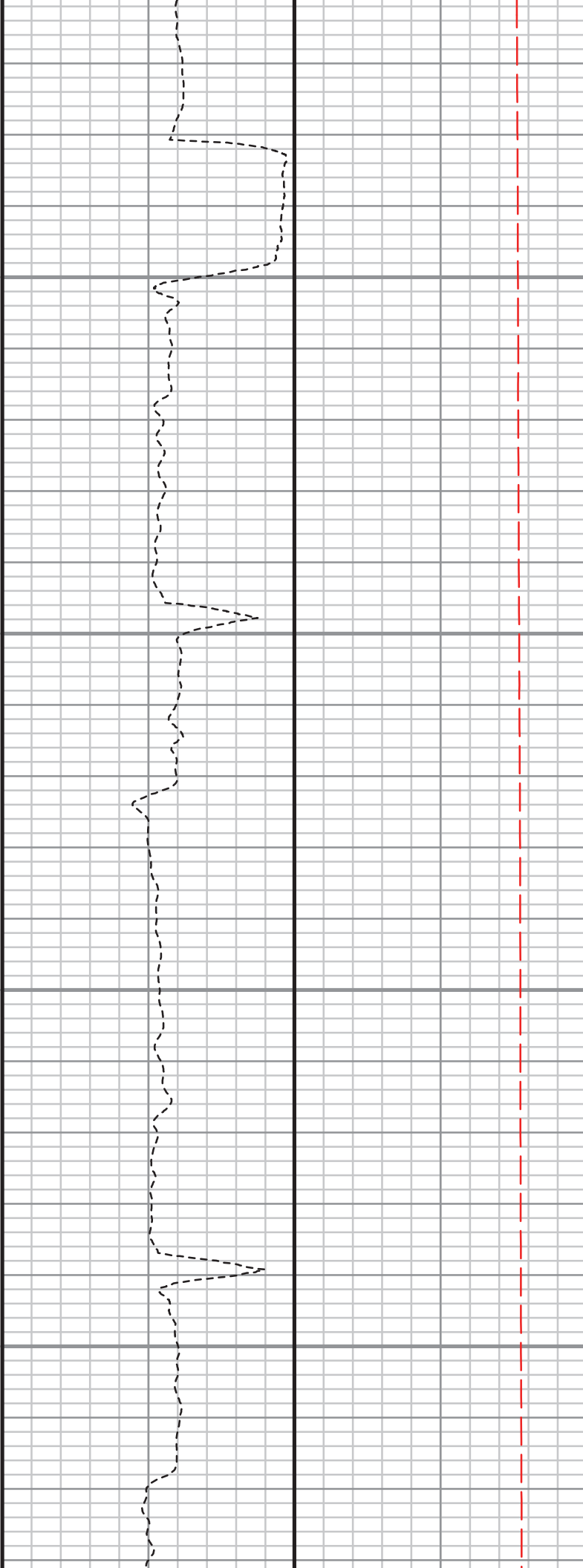
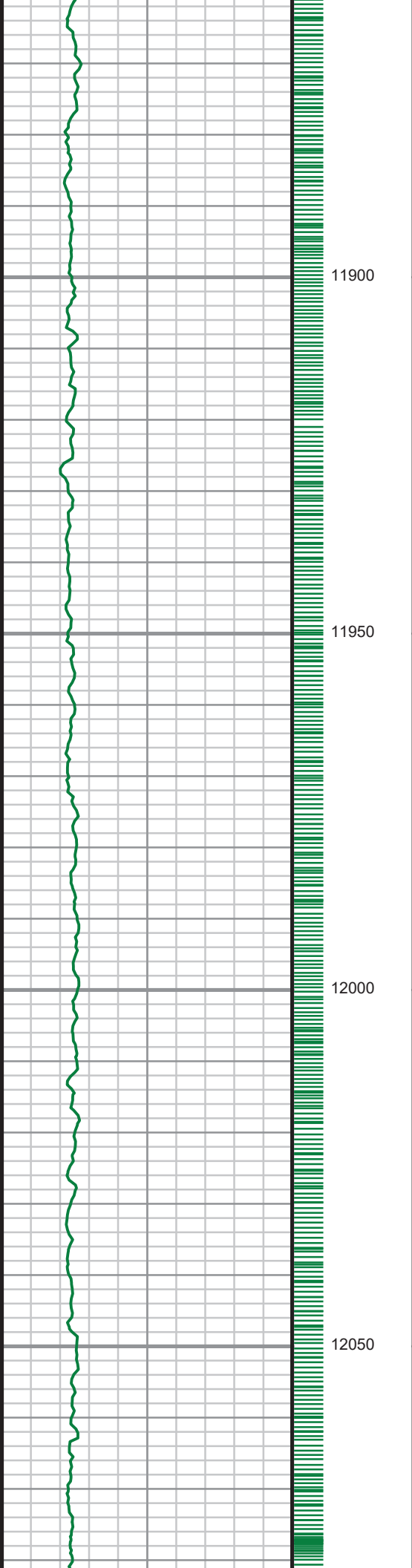
S: 116 MD: 11524.00 ft  
Inc: 88.46 deg Az:  
269.50 deg TVD:  
6357.55 ft

S: 117 MD: 11615.00 ft  
Inc: 88.32 deg Az:  
269.68 deg TVD:  
6360.11 ft



S: 118 MD: 11707.00 ft  
Inc: 89.36 deg Az:  
270.22 deg TVD:  
6361.97 ft

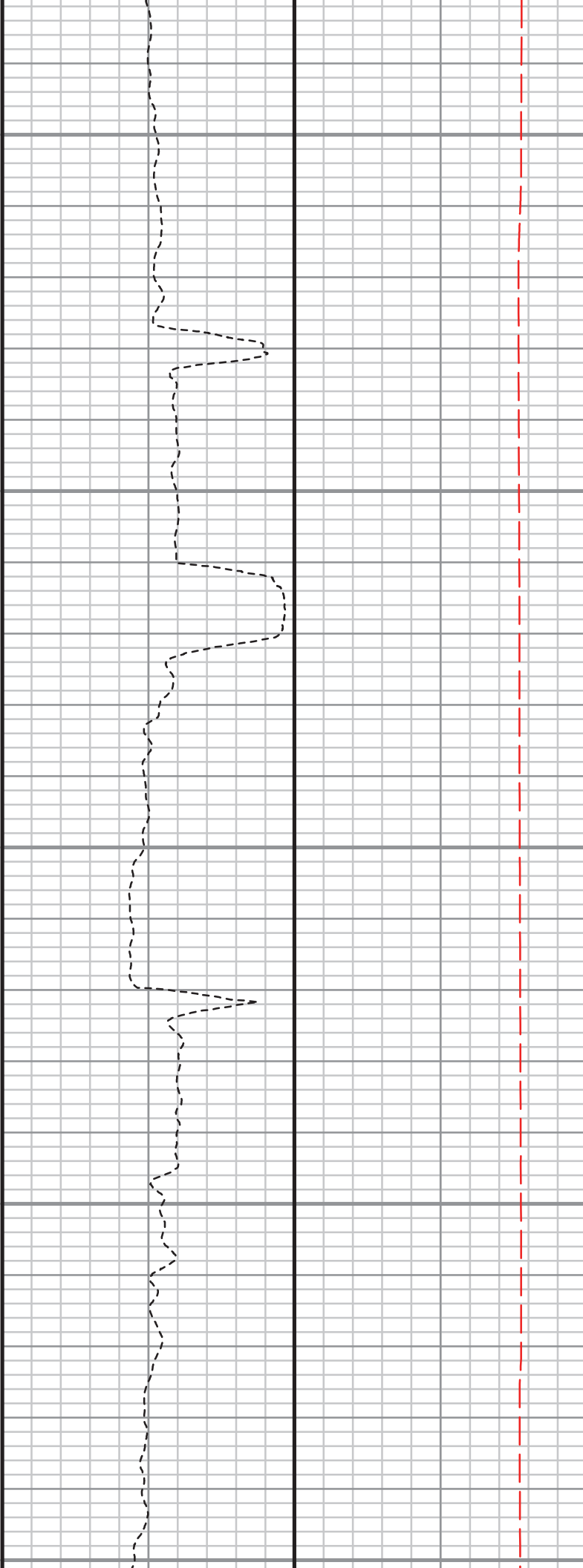
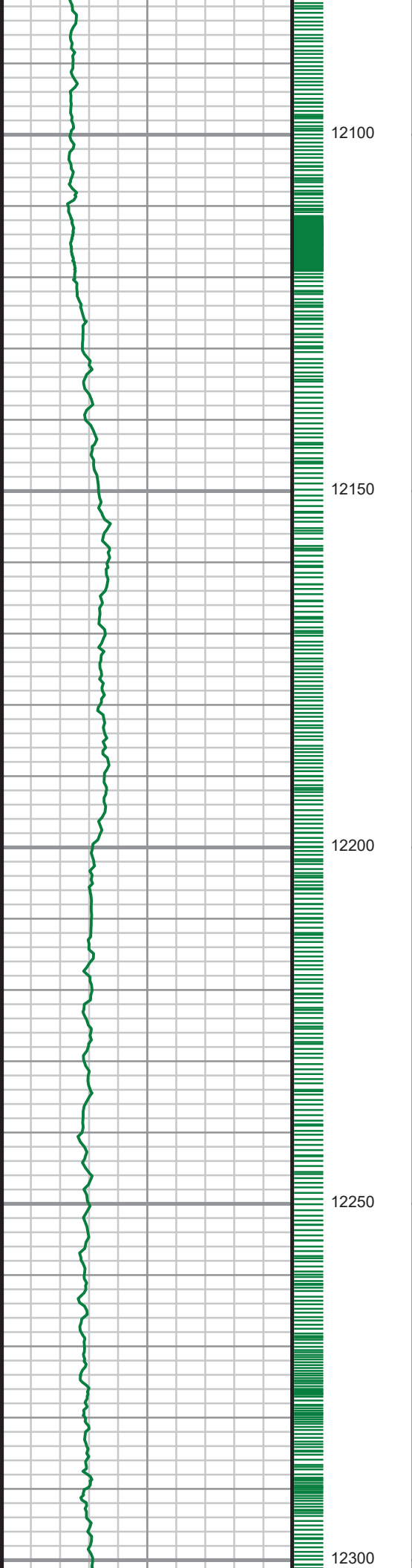
S: 119 MD: 11798.00 ft  
Inc: 88.69 deg Az:  
269.88 deg TVD:  
6363.51 ft



S: 120 MD: 11890.00 ft  
Inc: 89.50 deg Az:  
270.99 deg TVD:  
6364.97 ft

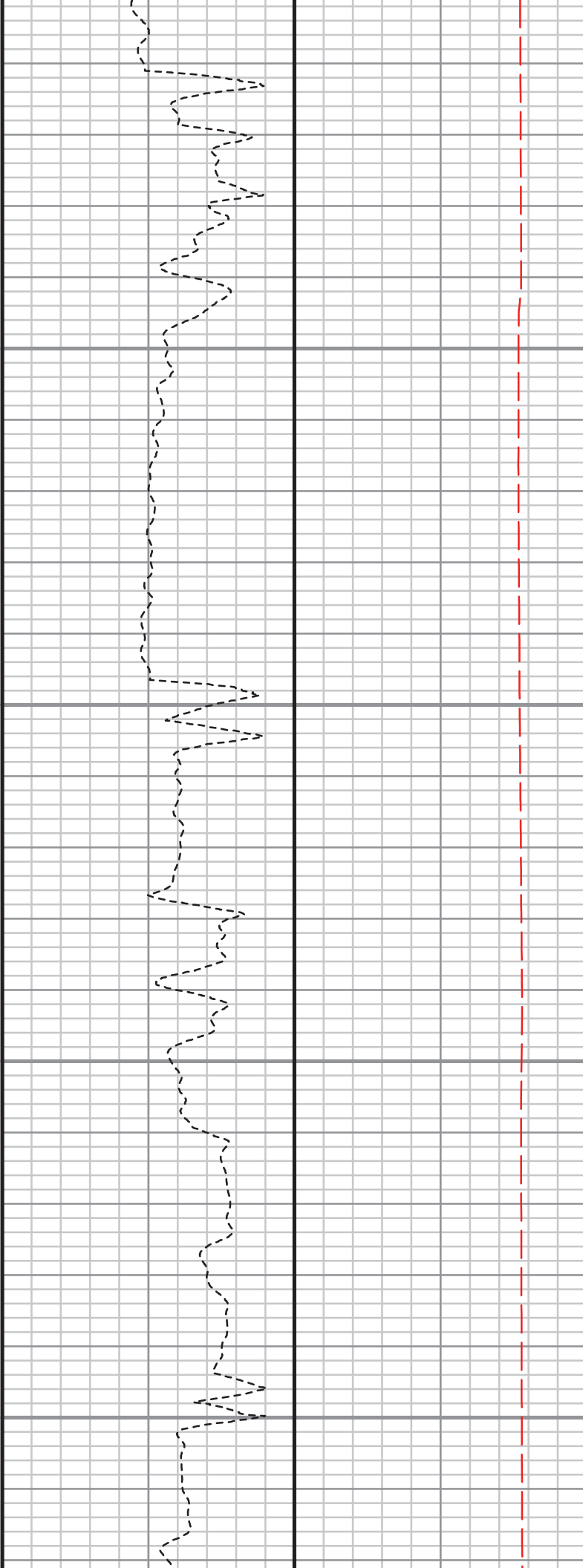
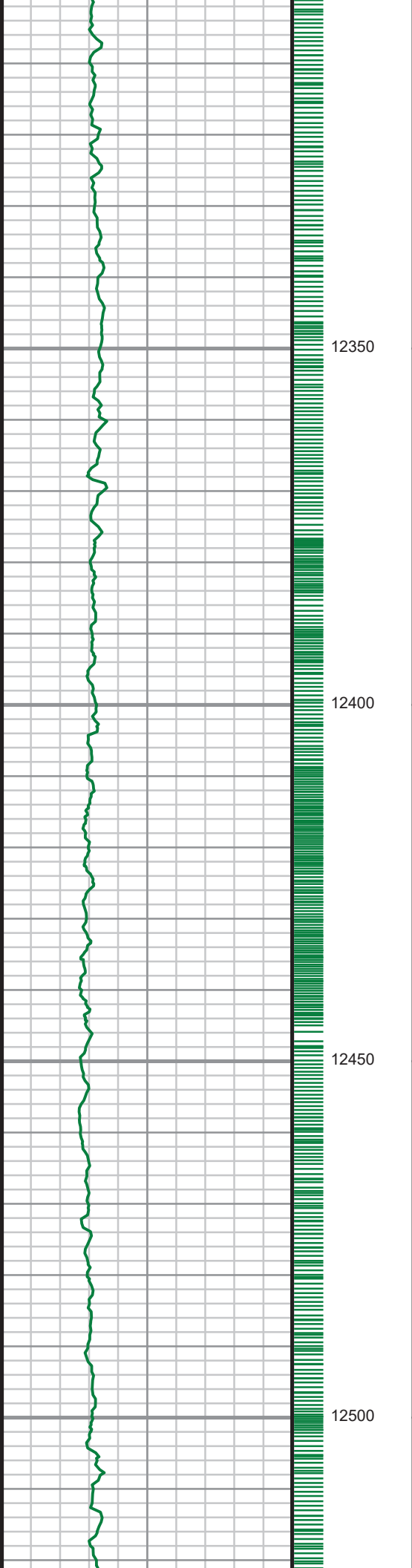
S: 121 MD: 11981.00 ft  
Inc: 90.67 deg Az:  
272.21 deg TVD:  
6364.83 ft

S: 122 MD: 12072.00 ft  
Inc: 90.77 deg Az:  
272.09 deg TVD:  
6363.68 ft



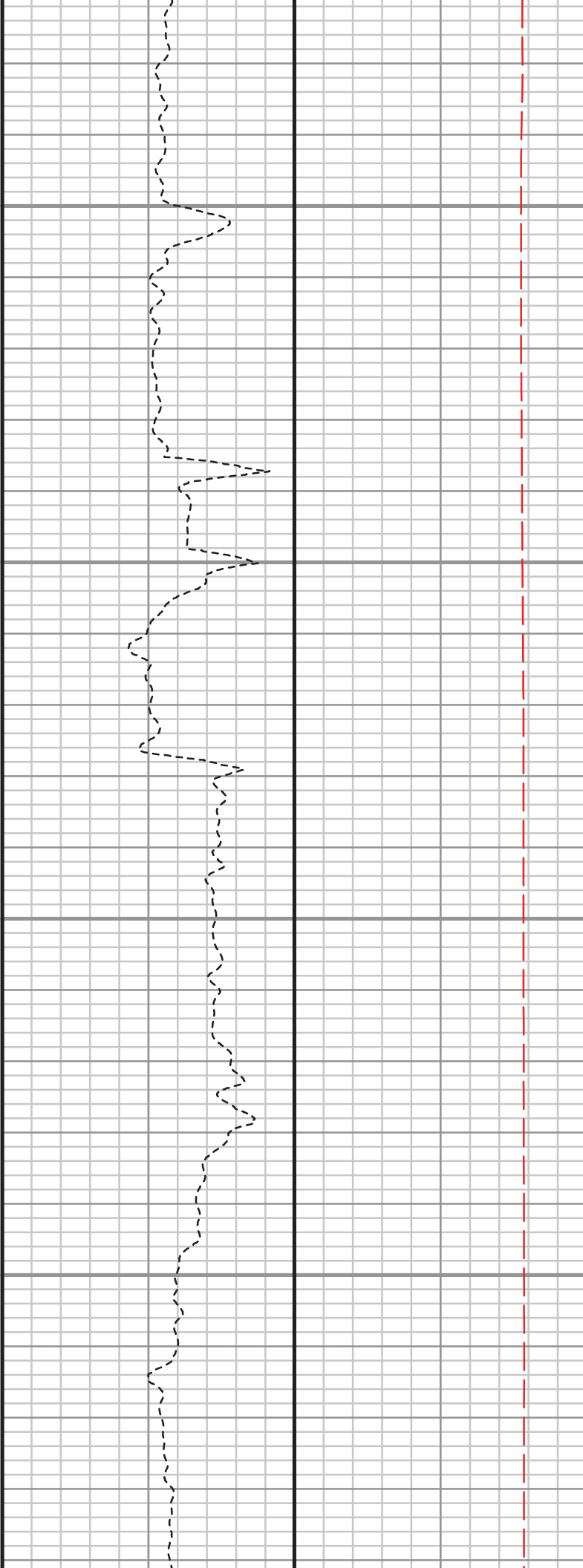
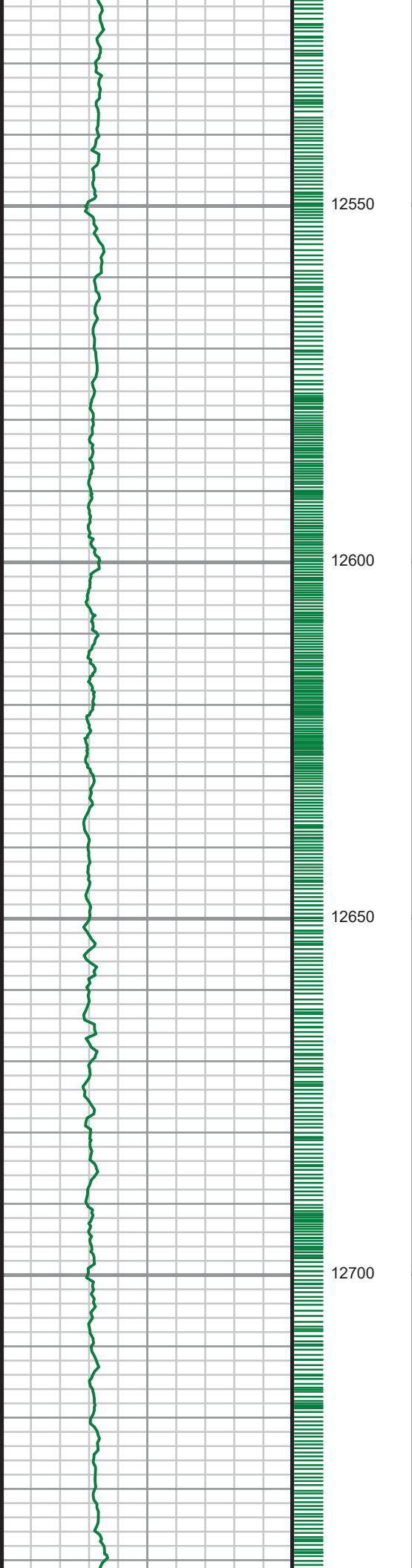
S: 123 MD: 12164.00 ft  
Inc: 89.87 deg Az:  
270.82 deg TVD:  
6363.17 ft

S: 124 MD: 12255.00 ft  
Inc: 89.87 deg Az:  
270.87 deg TVD:  
6363.38 ft



S: 125 MD: 12347.00 ft  
Inc: 89.63 deg Az:  
270.42 deg TVD:  
6363.79 ft

S: 126 MD: 12438.00 ft  
Inc: 89.43 deg Az:  
270.71 deg TVD:  
6364.54 ft

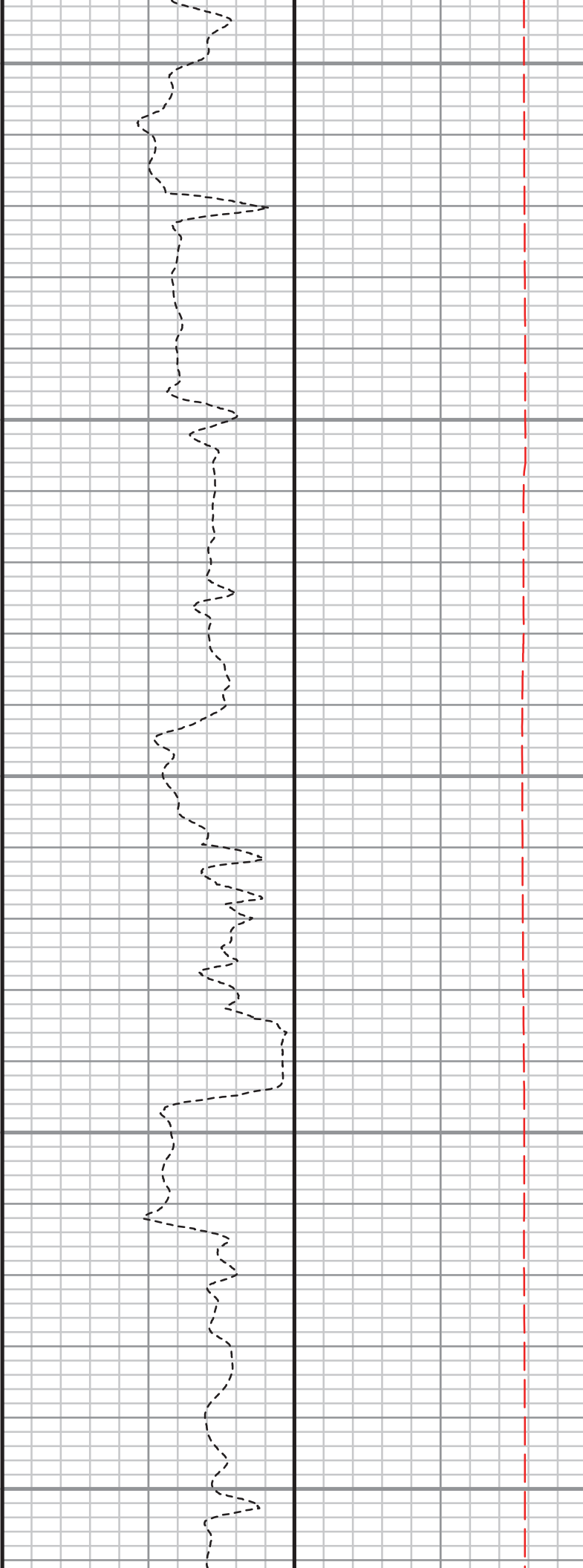
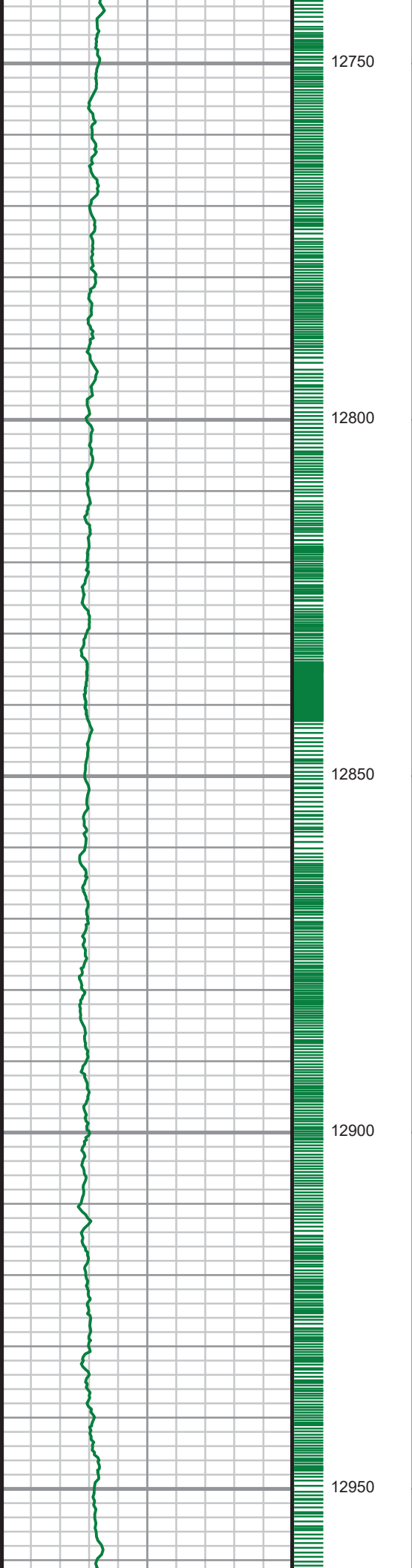


S: 127 MD: 12529.00 ft  
Inc: 89.50 deg Az:  
270.67 deg TVD:  
6365.39 ft

S: 128 MD: 12621.00 ft  
Inc: 89.56 deg Az:  
269.22 deg TVD:  
6366.14 ft

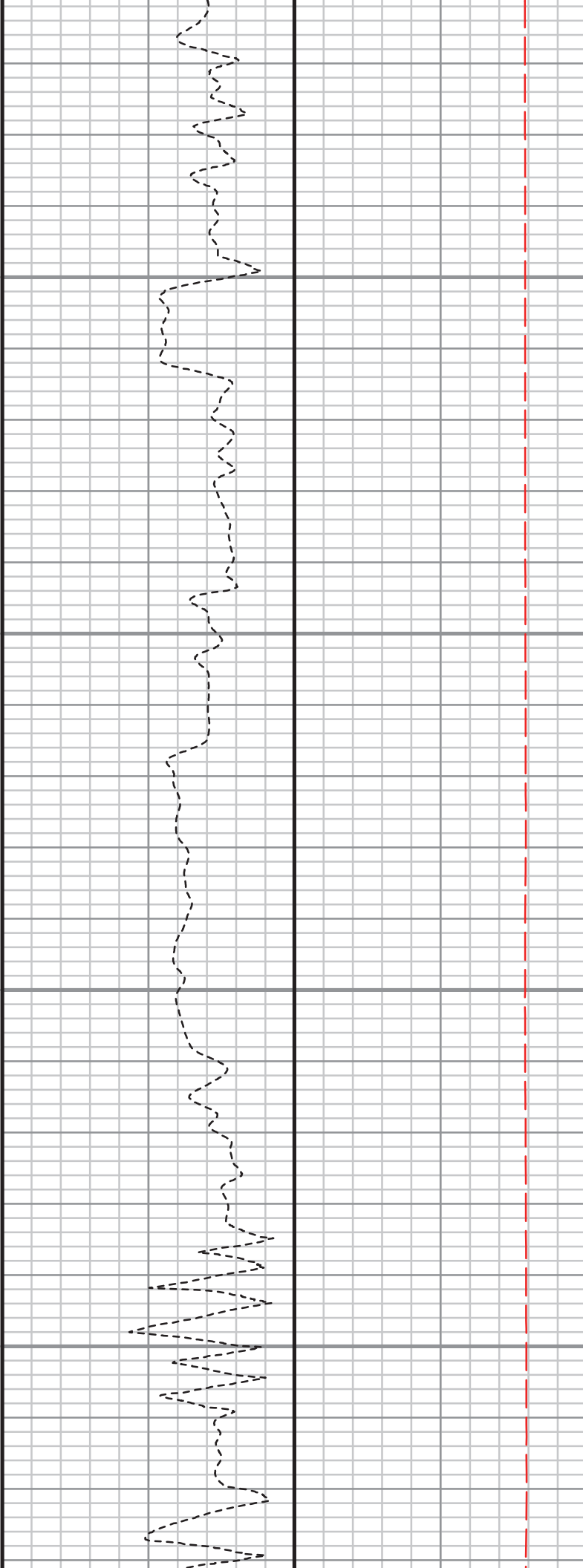
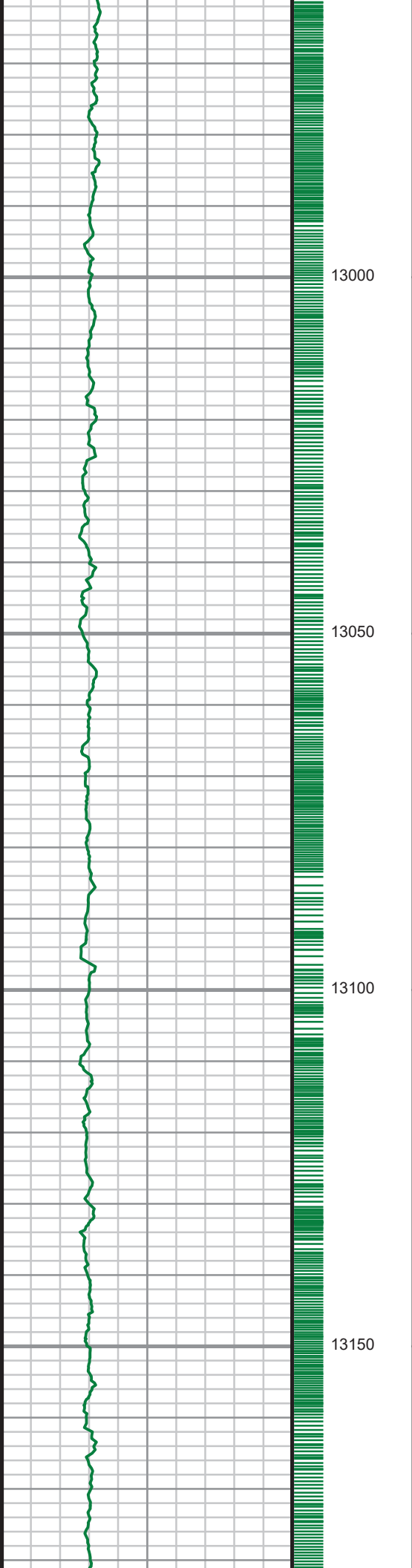
S: 129 MD: 12712.00 ft  
Inc: 89.70 deg Az:  
269.82 deg TVD:  
6366.73 ft





S: 130 MD: 12803.00 ft  
Inc: 89.33 deg Az:  
267.09 deg TVD:  
6367.51 ft

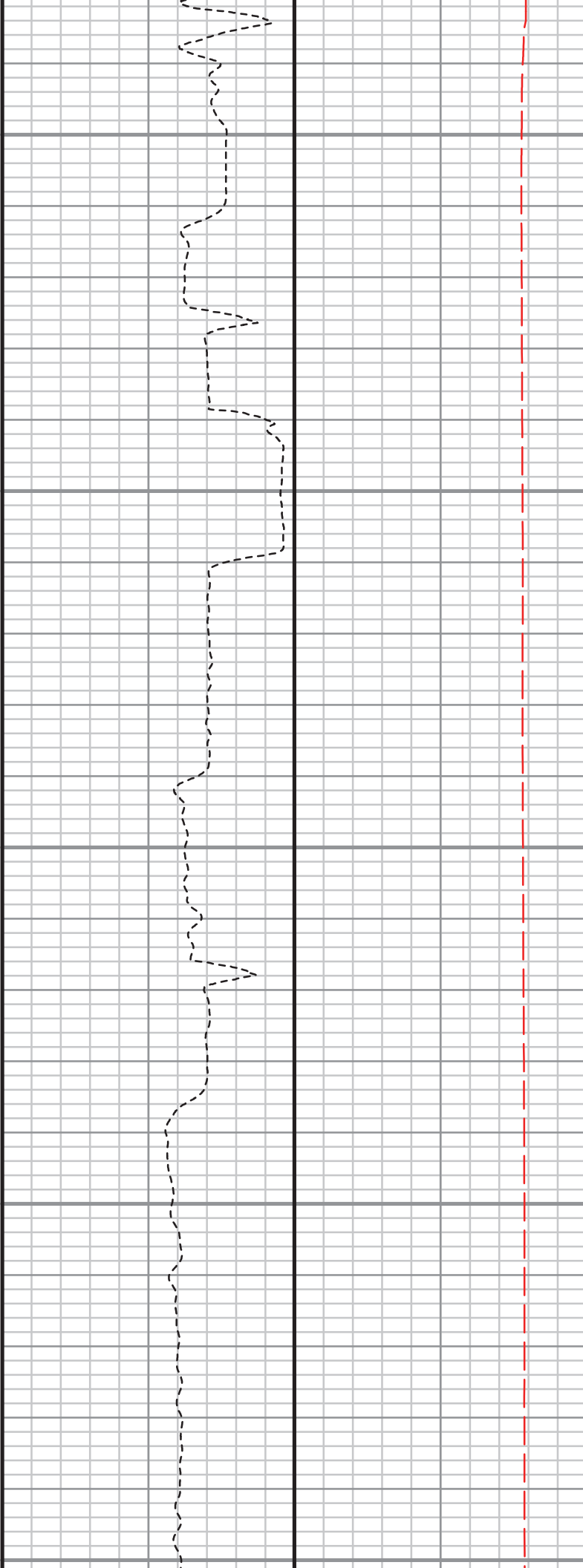
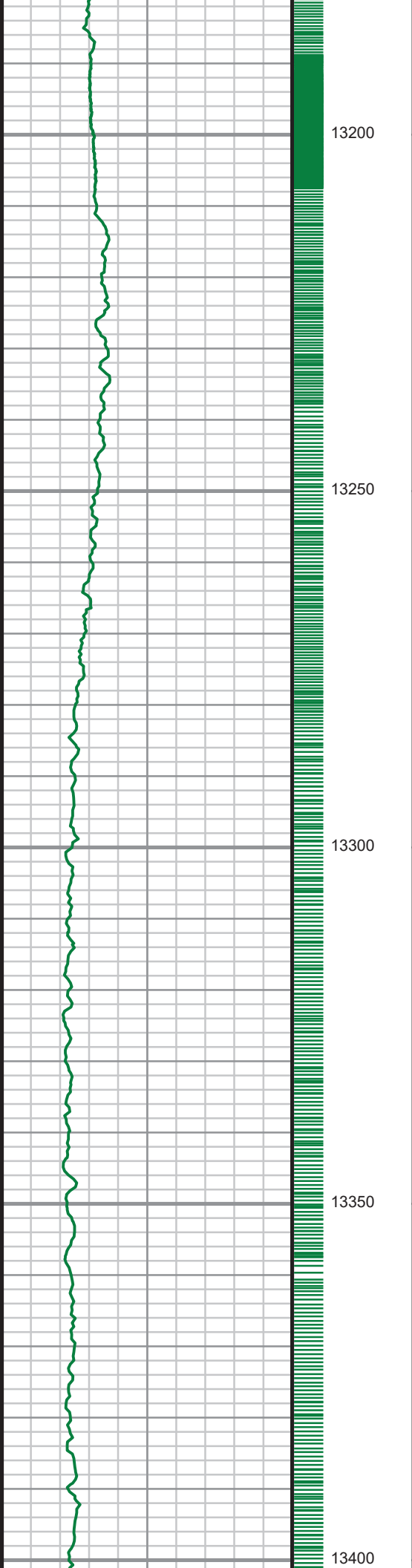
S: 131 MD: 12895.00 ft  
Inc: 89.56 deg Az:  
270.54 deg TVD:  
6368.40 ft



S: 132 MD: 12986.00 ft  
Inc: 89.16 deg Az:  
269.72 deg TVD:  
6369.41 ft

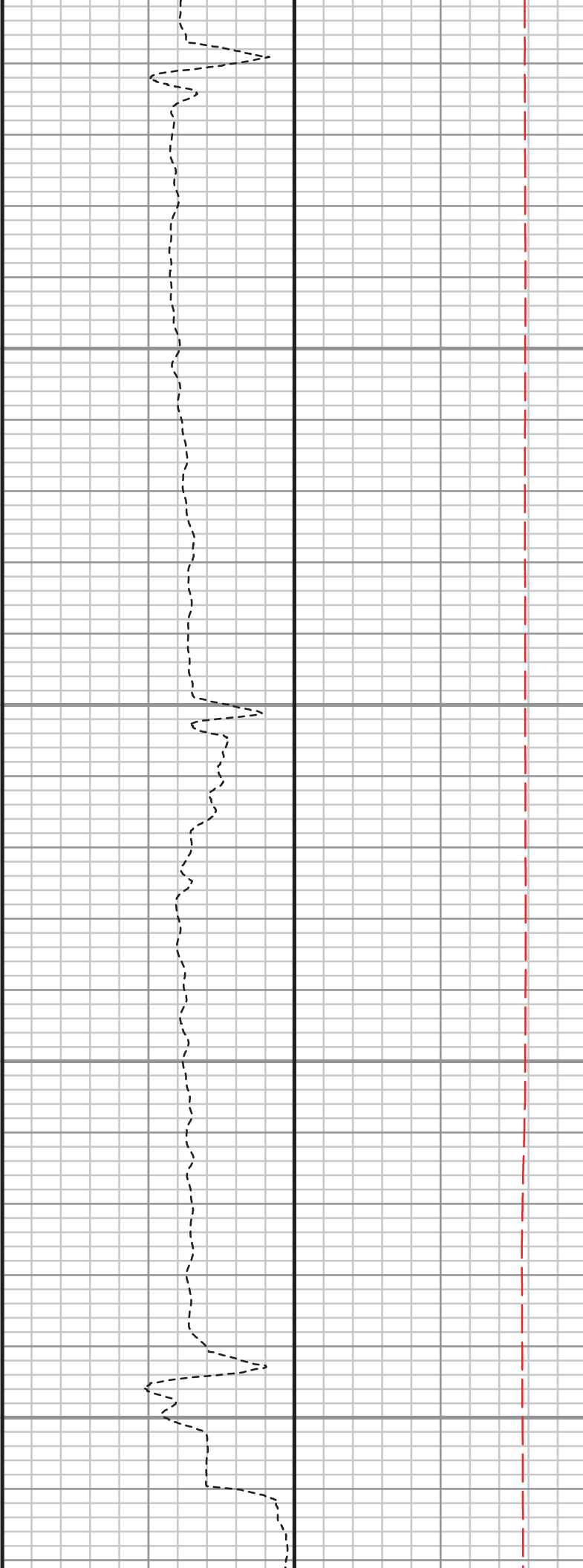
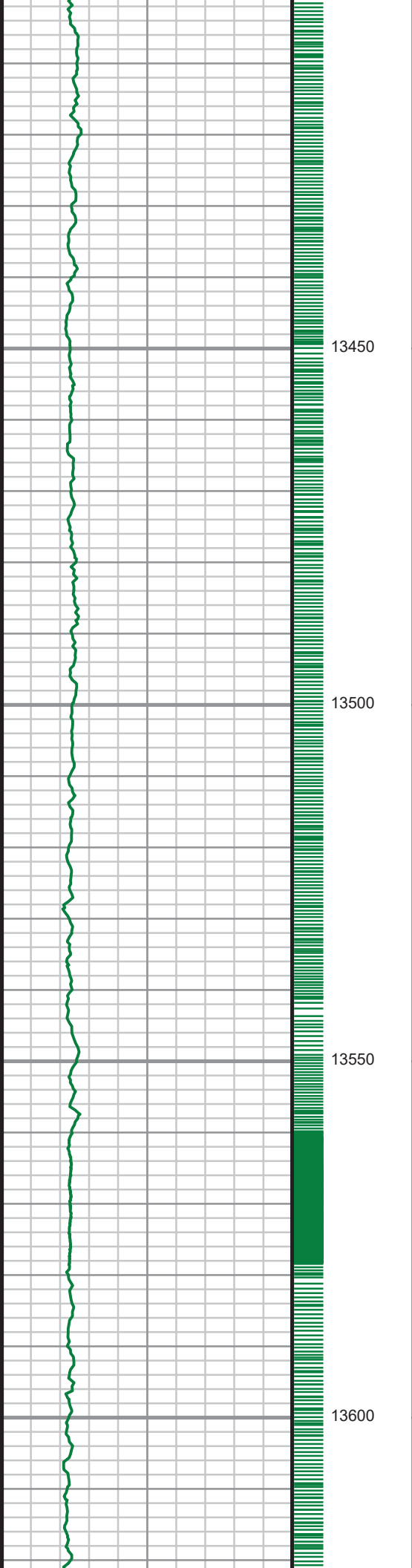
S: 133 MD: 13077.00 ft  
Inc: 89.60 deg Az:  
271.43 deg TVD:  
6370.39 ft

S: 134 MD: 13169.00 ft  
Inc: 89.87 deg Az:  
274.52 deg TVD:  
6370.82 ft



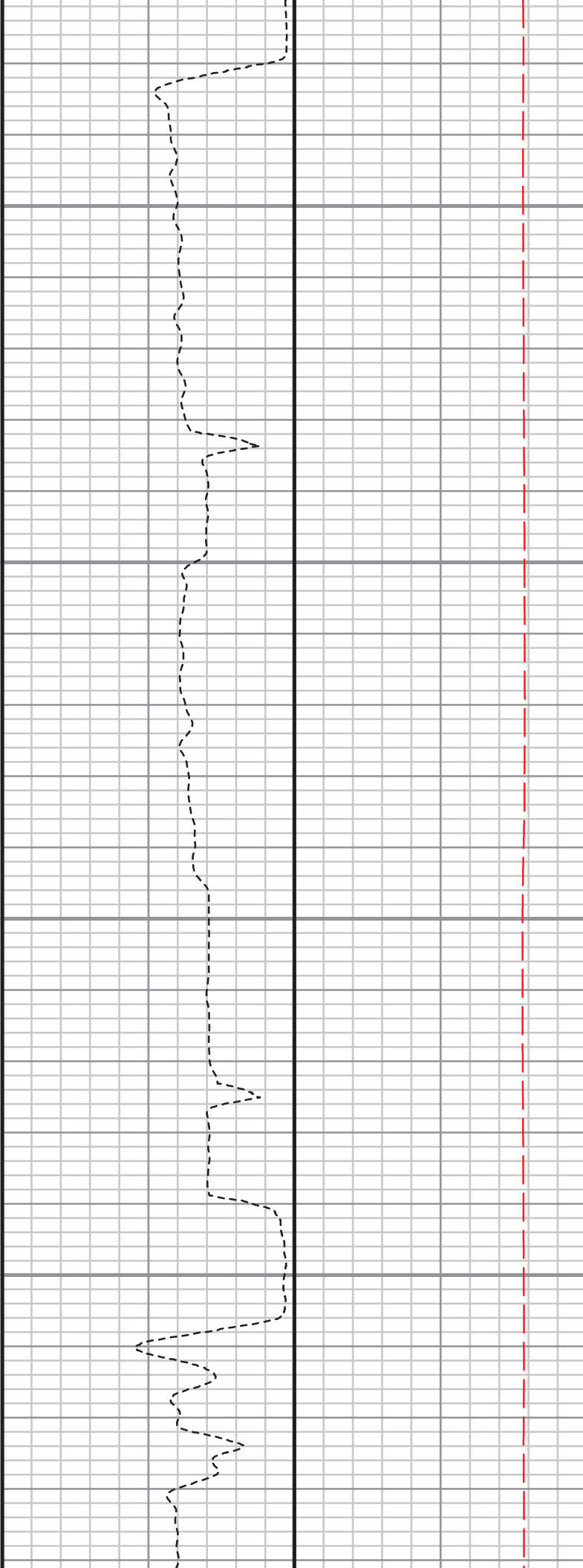
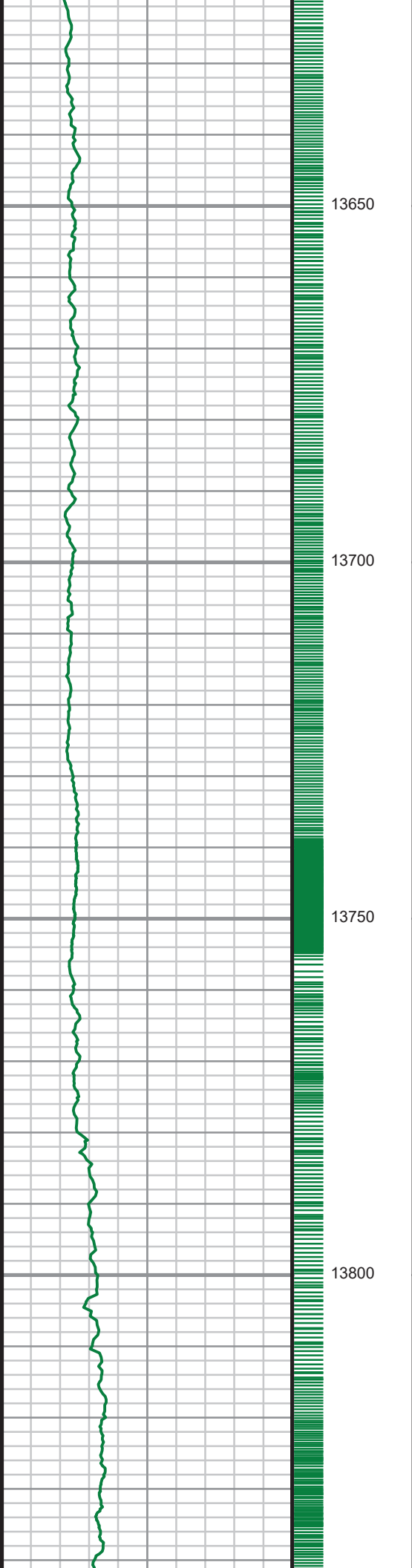
S: 135 MD: 13260.00 ft  
Inc: 88.72 deg Az:  
271.87 deg TVD:  
6371.94 ft

S: 136 MD: 13352.00 ft  
Inc: 88.49 deg Az:  
271.79 deg TVD:  
6374.18 ft



S: 137 MD: 13444.00 ft  
Inc: 88.42 deg Az:  
271.09 deg TVD:  
6376.66 ft

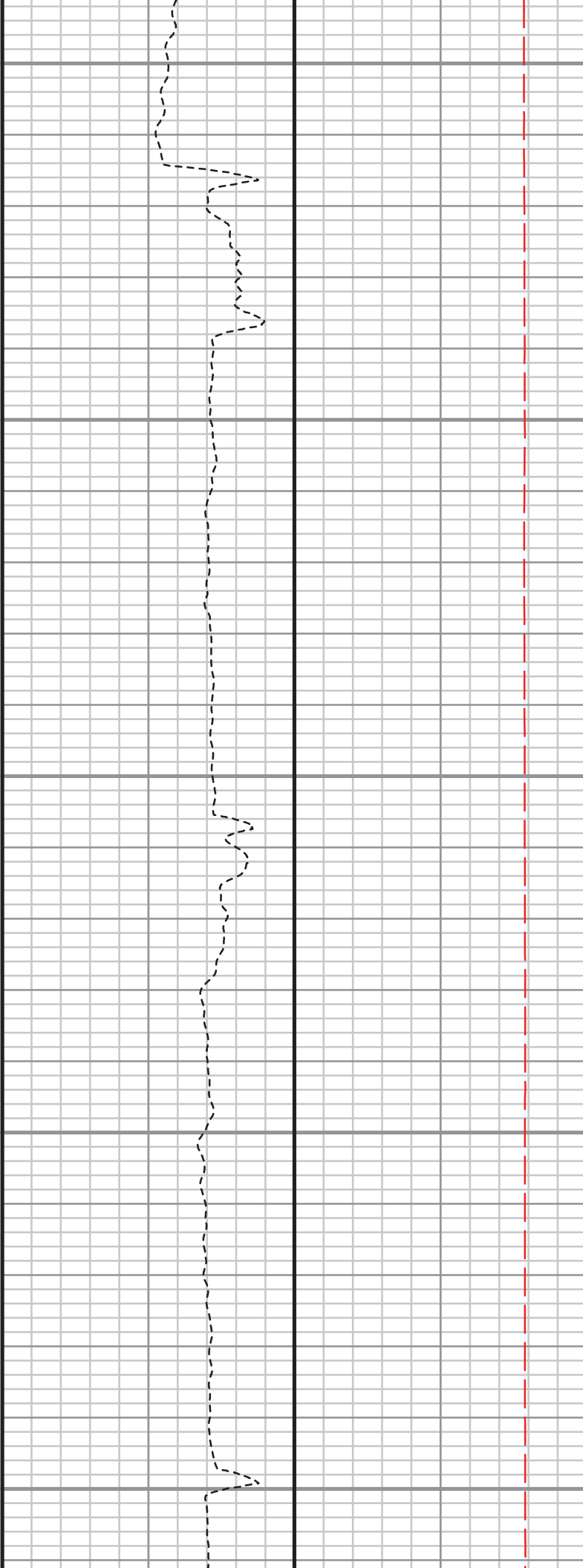
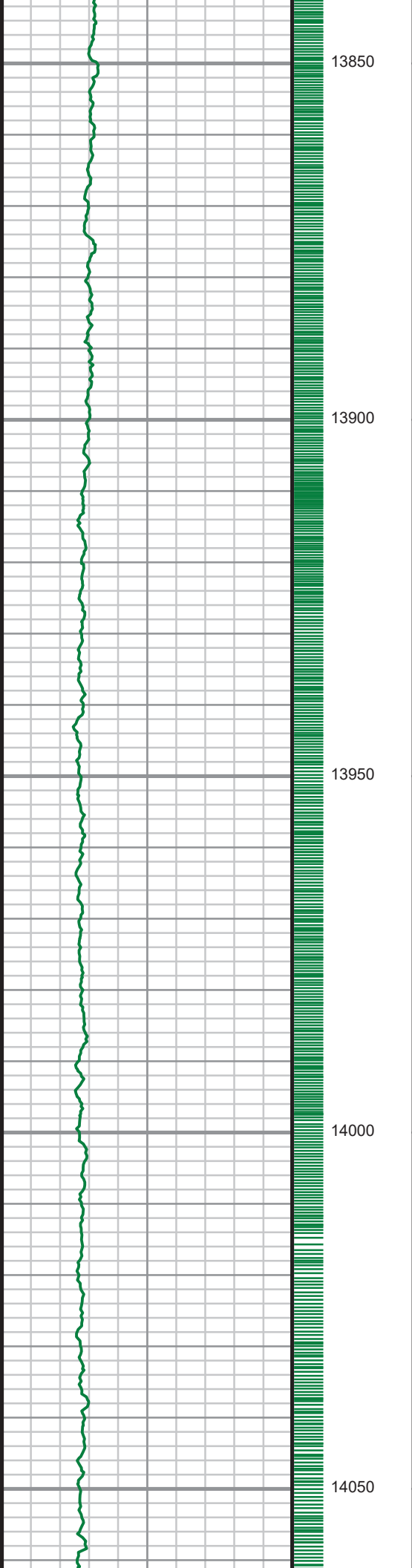
S: 138 MD: 13535.00 ft  
Inc: 89.43 deg Az:  
272.67 deg TVD:  
6378.37 ft



S: 139 MD: 13626.00 ft  
Inc: 89.26 deg Az:  
269.99 deg TVD:  
6379.41 ft

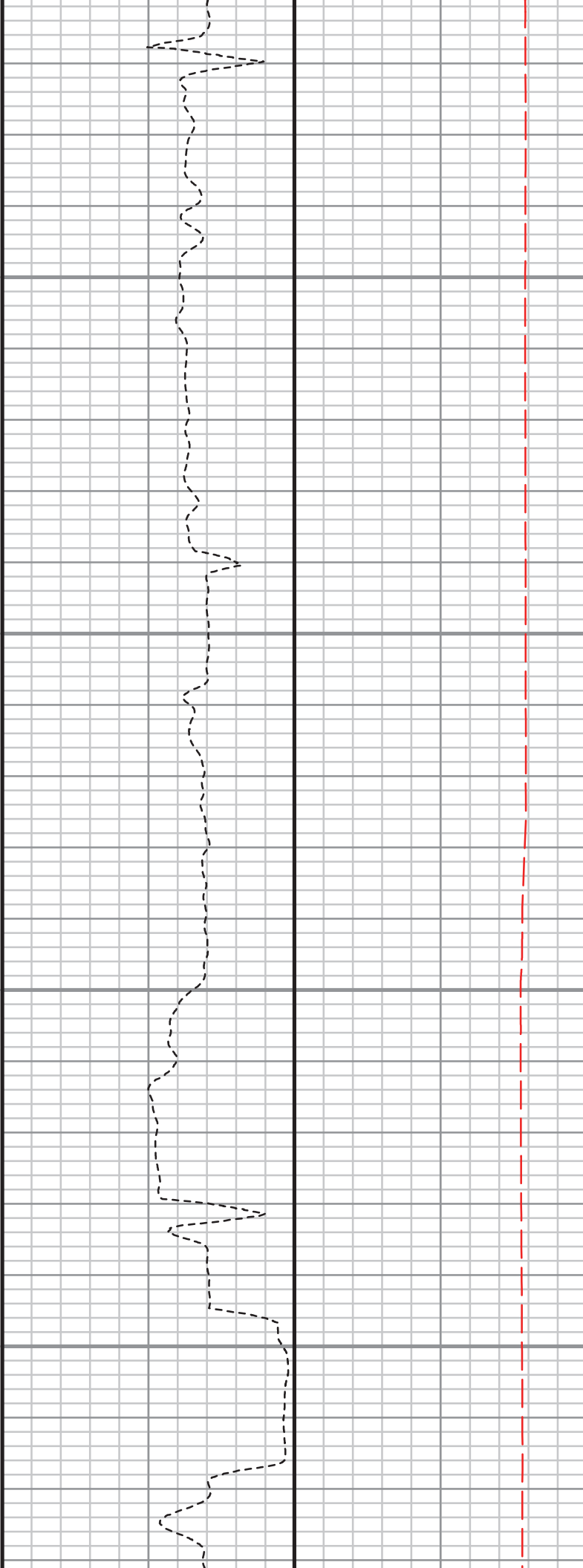
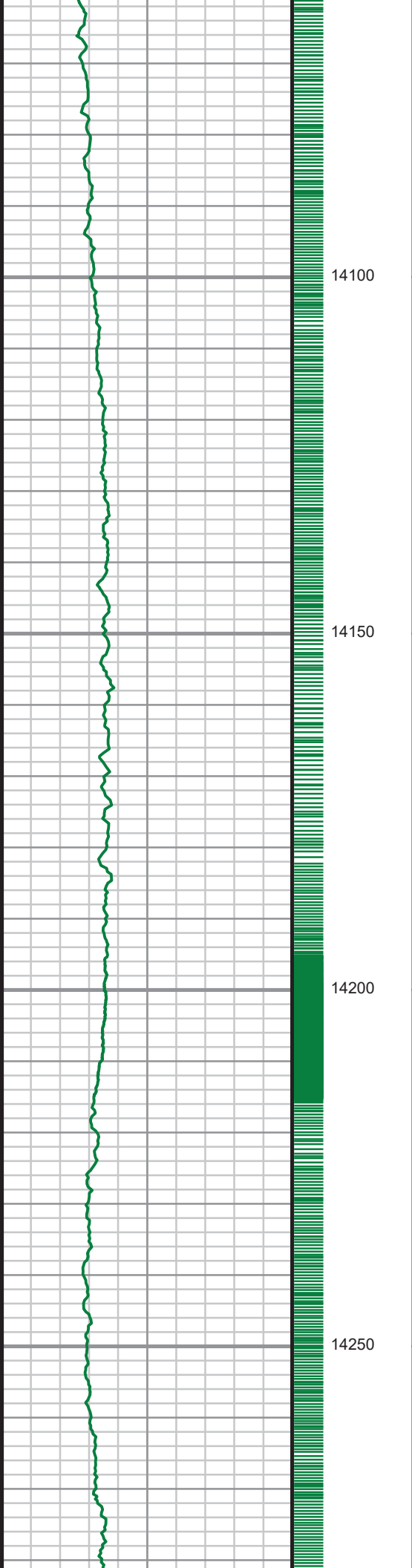
S: 140 MD: 13717.00 ft  
Inc: 90.77 deg Az:  
271.41 deg TVD:  
6379.38 ft

S: 141 MD: 13809.00 ft  
Inc: 89.36 deg Az:  
270.73 deg TVD:  
6379.28 ft



S: 142 MD: 13900.00 ft  
Inc: 89.26 deg Az:  
269.58 deg TVD:  
6380.37 ft

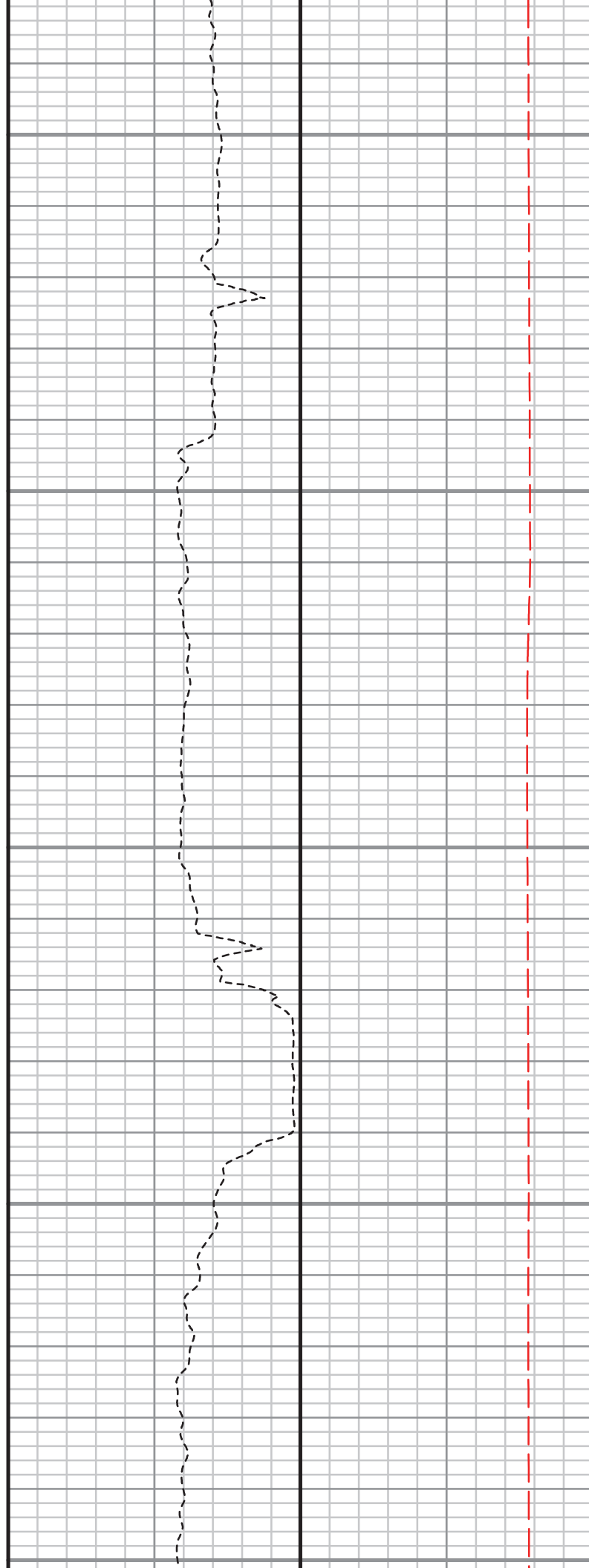
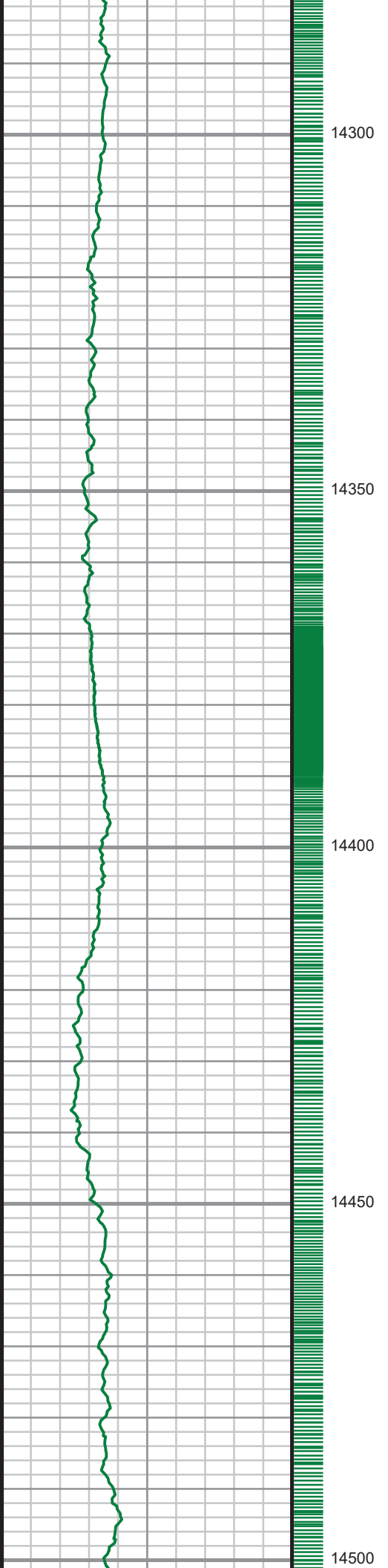
S: 143 MD: 13991.00 ft  
Inc: 89.40 deg Az:  
269.30 deg TVD:  
6381.44 ft



S: 144 MD: 14082.00 ft  
Inc: 89.50 deg Az:  
269.67 deg TVD:  
6382.32 ft

S: 145 MD: 14174.00 ft  
Inc: 88.62 deg Az:  
267.39 deg TVD:  
6383.83 ft

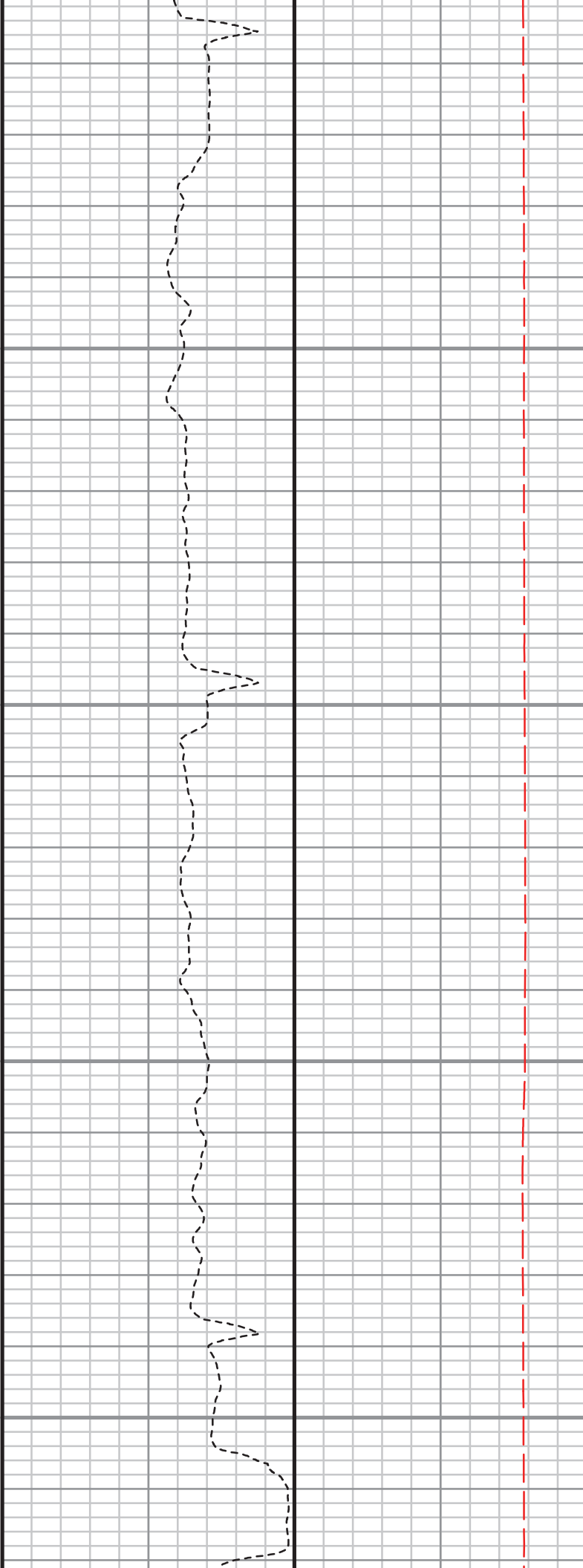
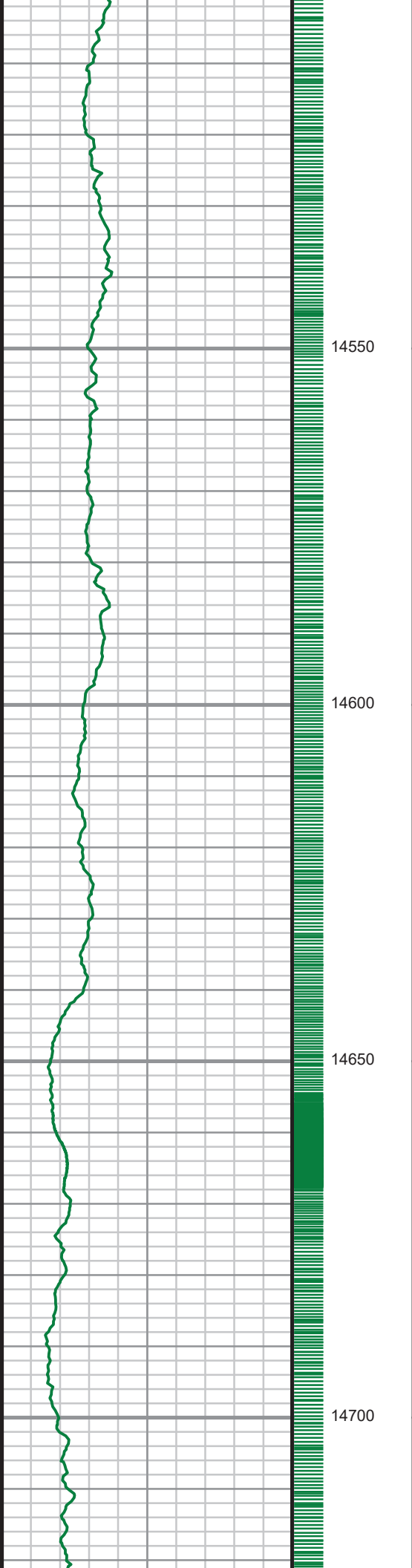
S: 146 MD: 14265.00 ft  
Inc: 89.36 deg Az:  
267.95 deg TVD:  
6385.43 ft



S: 147 MD: 14356.00 ft  
Inc: 89.40 deg Az:  
267.11 deg TVD:  
6386.41 ft

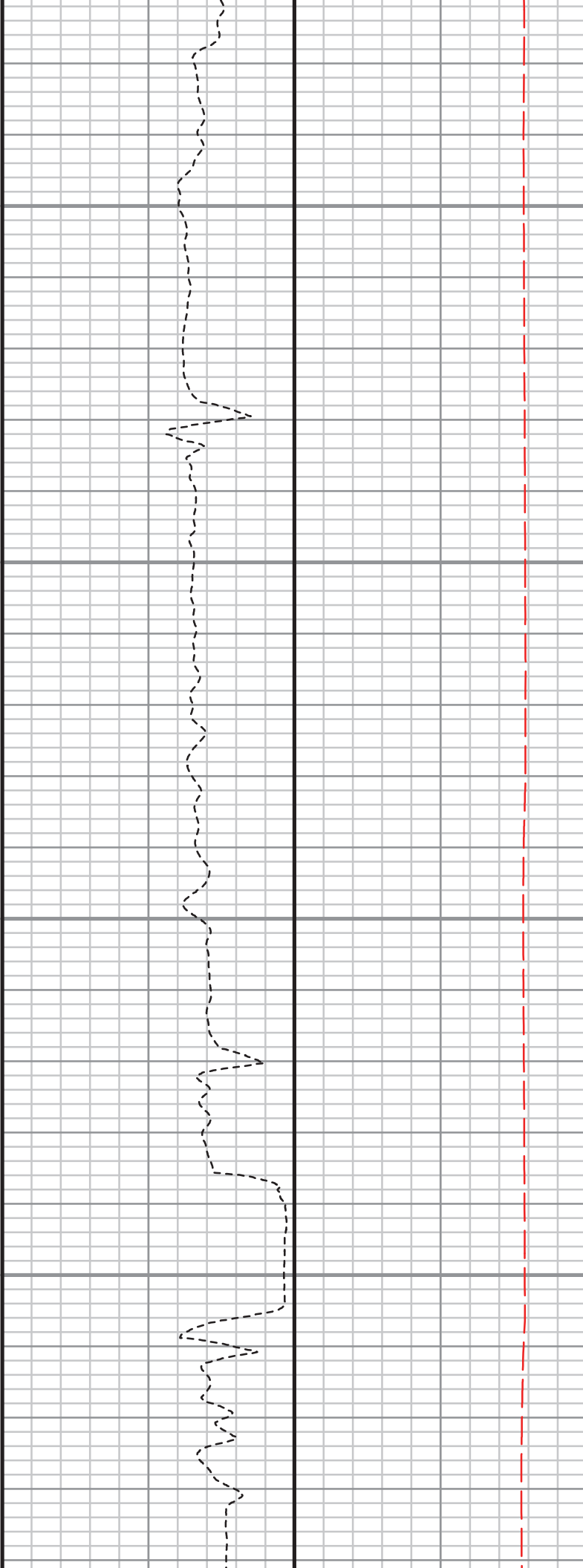
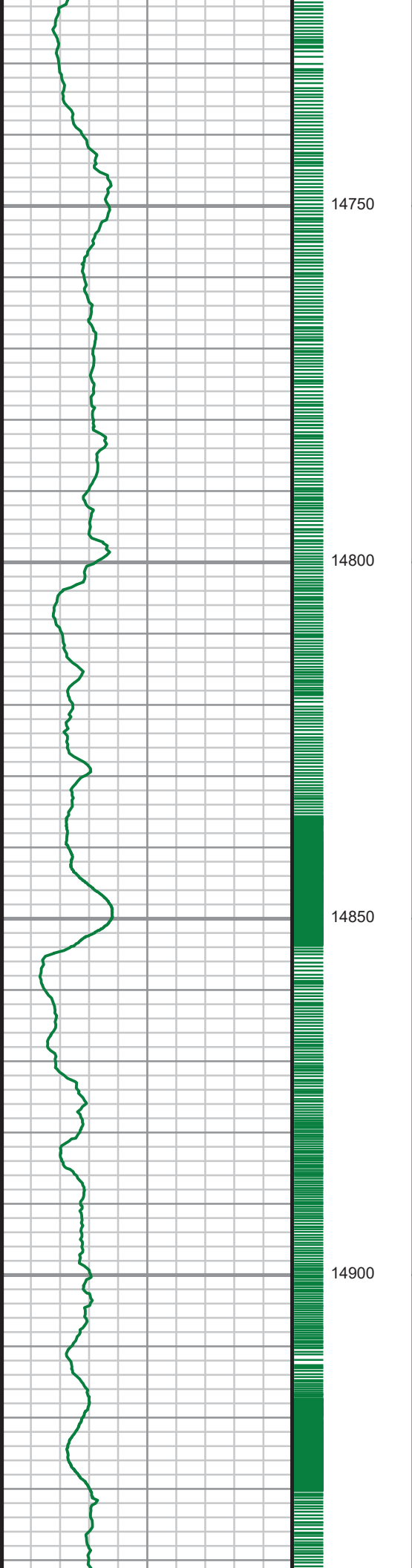
S: 148 MD: 14448.00 ft  
Inc: 89.77 deg Az:  
268.96 deg TVD:  
6387.09 ft





S: 149 MD: 14539.00 ft  
Inc: 89.93 deg Az:  
268.67 deg TVD:  
6387.33 ft

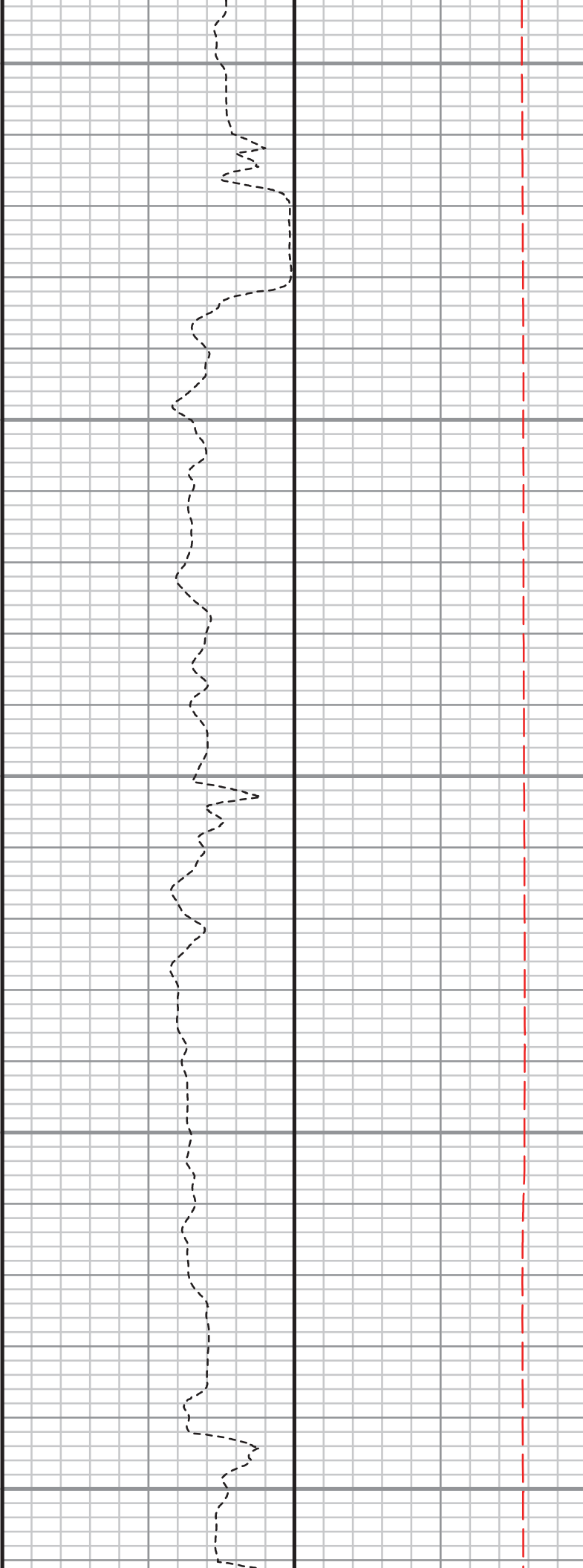
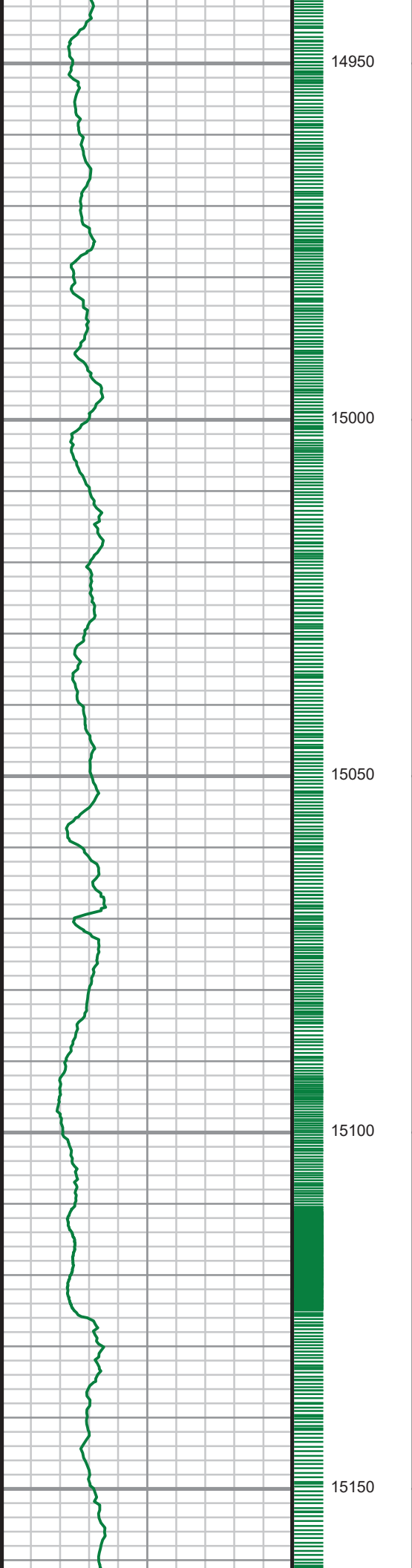
S: 150 MD: 14631.00 ft  
Inc: 90.44 deg Az:  
268.01 deg TVD:  
6387.03 ft



S: 151 MD: 14721.00 ft  
Inc: 89.80 deg Az:  
268.86 deg TVD:  
6386.85 ft

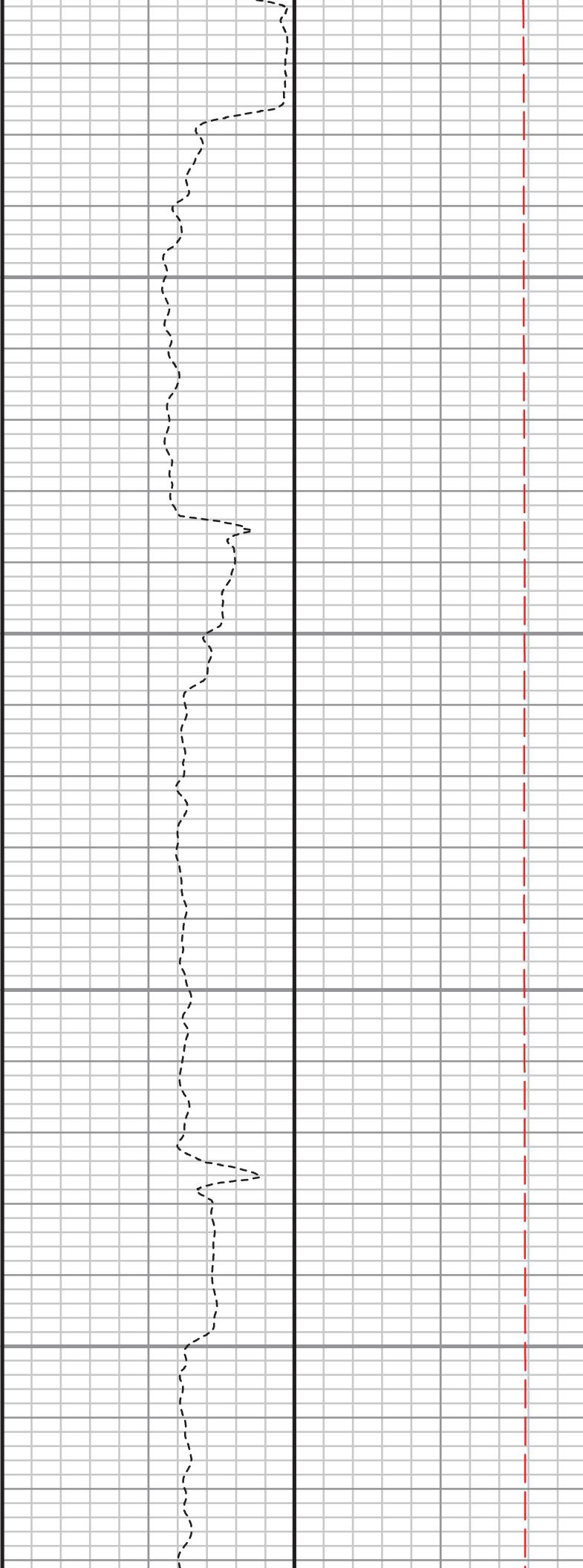
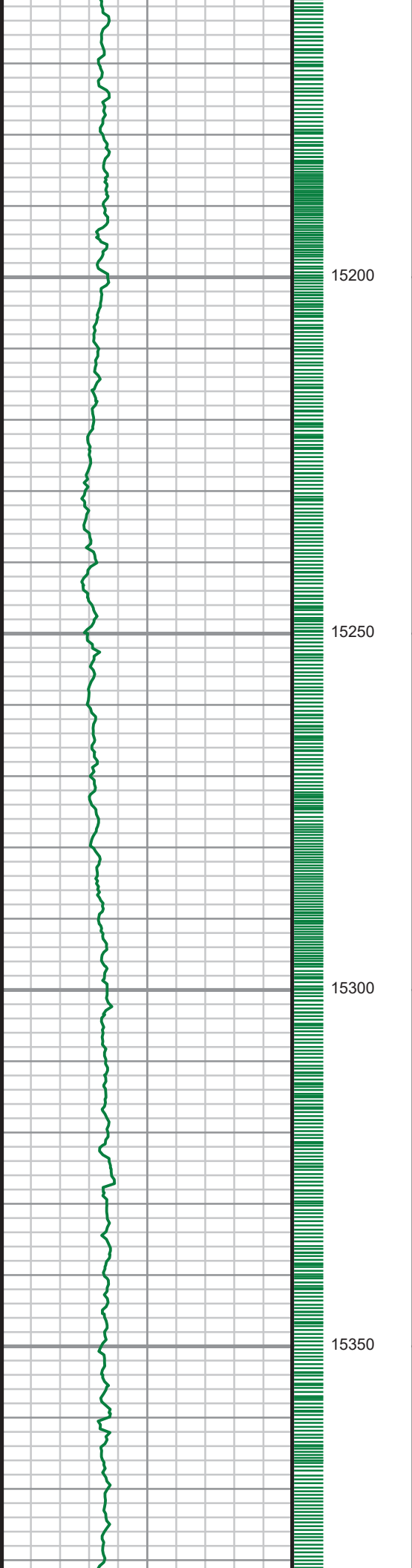
S: 152 MD: 14813.00 ft  
Inc: 91.24 deg Az:  
269.73 deg TVD:  
6386.01 ft

S: 153 MD: 14905.00 ft  
Inc: 90.71 deg Az:  
269.88 deg TVD:  
6384.44 ft



S: 154 MD: 14995.00 ft  
Inc: 89.19 deg Az:  
268.99 deg TVD:  
6384.52 ft

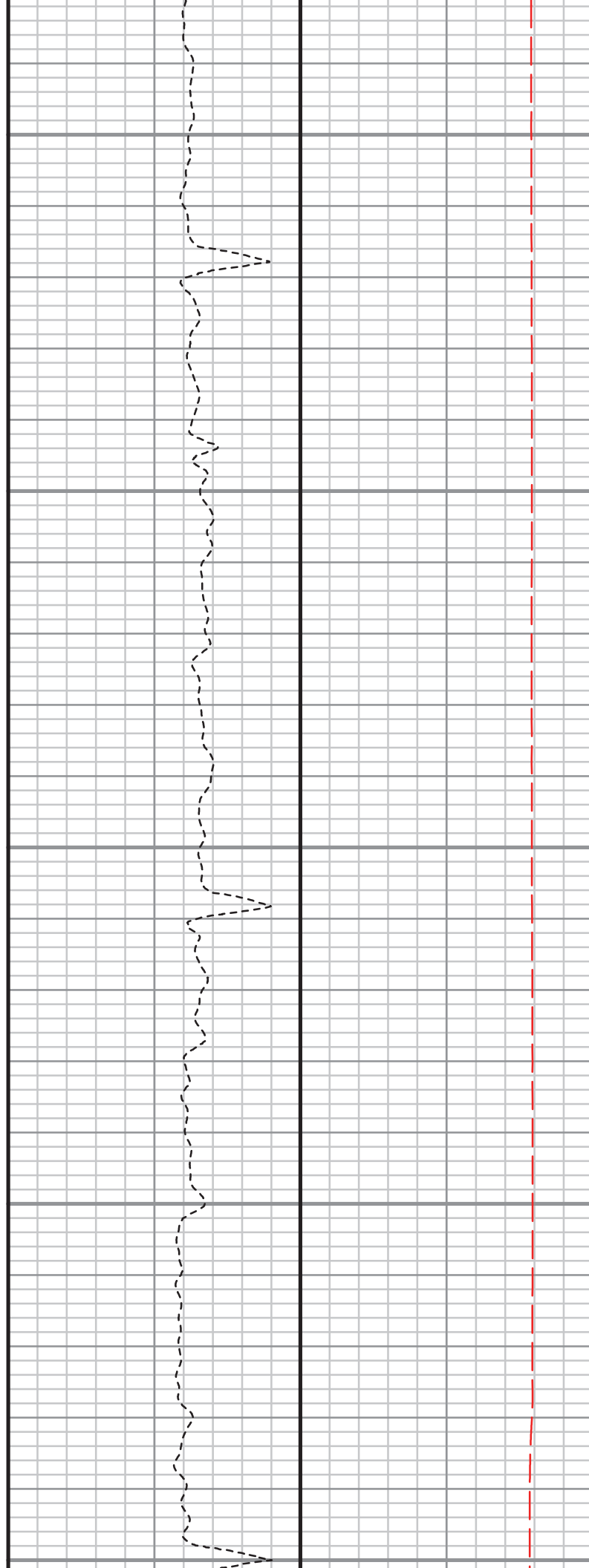
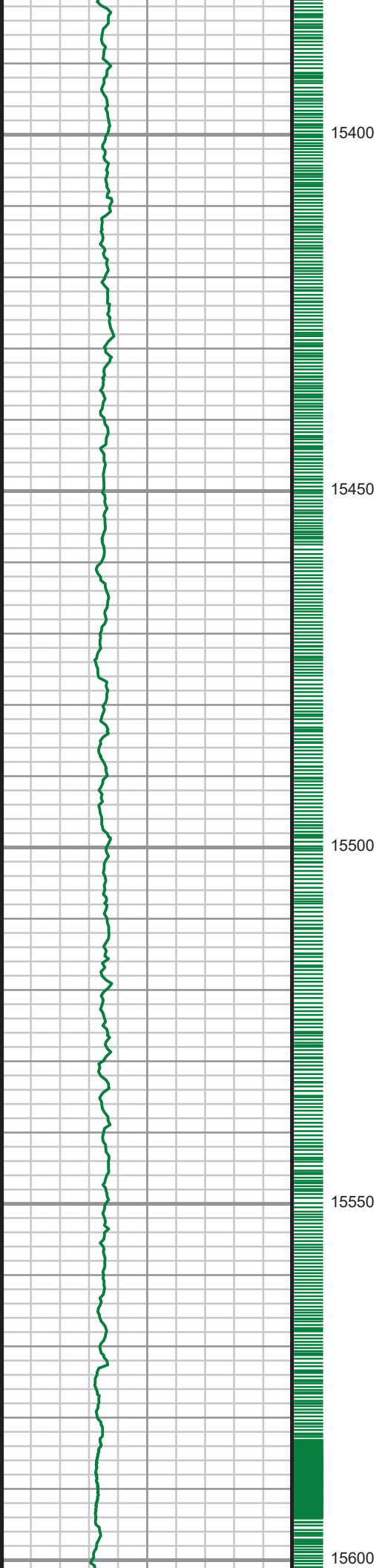
S: 155 MD: 15086.00 ft  
Inc: 89.50 deg Az:  
268.99 deg TVD:  
6385.56 ft



S: 156 MD: 15177.00 ft  
Inc: 88.42 deg Az:  
270.24 deg TVD:  
6387.22 ft

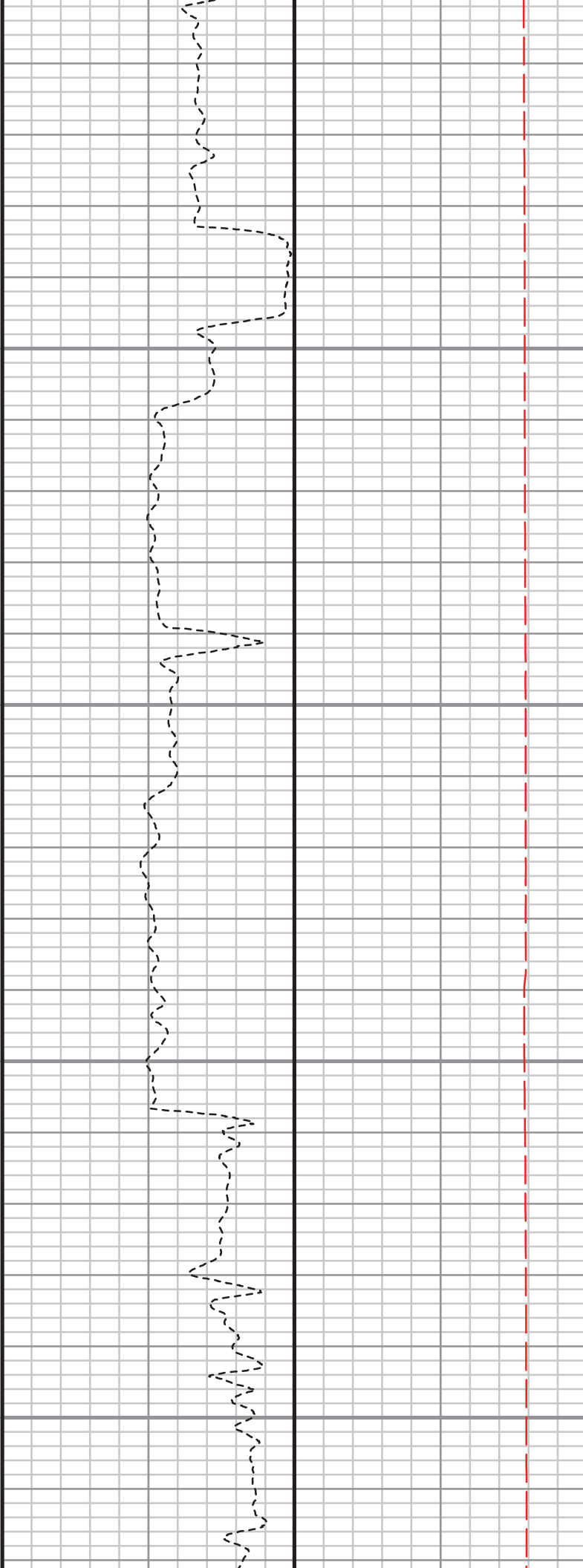
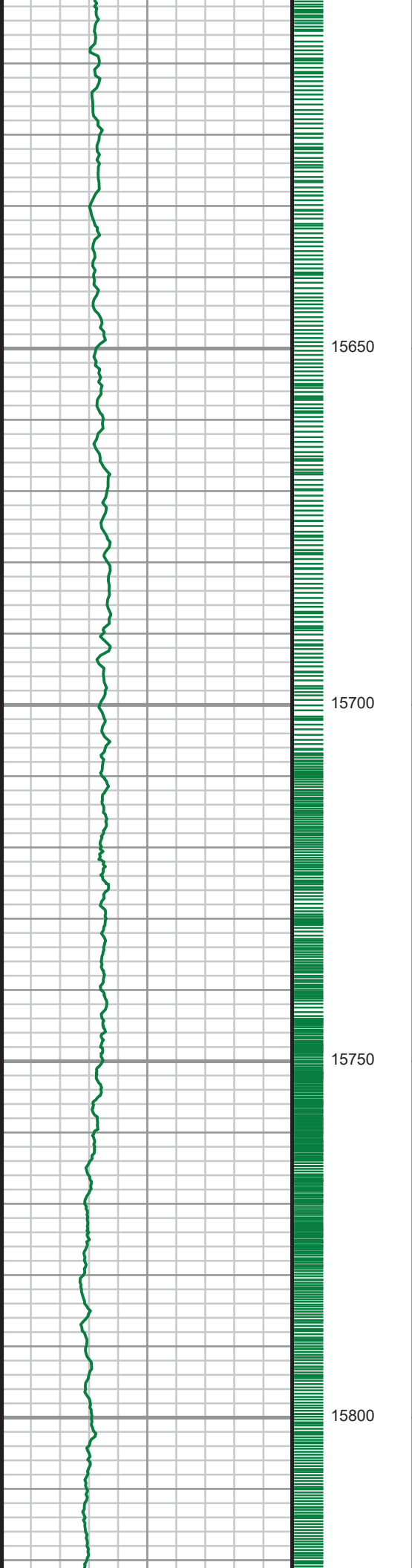
S: 157 MD: 15268.00 ft  
Inc: 88.90 deg Az:  
270.77 deg TVD:  
6389.35 ft

S: 158 MD: 15360.00 ft  
Inc: 89.36 deg Az:  
271.60 deg TVD:  
6390.75 ft



S: 159 MD: 15451.00 ft  
Inc: 88.82 deg Az:  
271.16 deg TVD:  
6392.19 ft

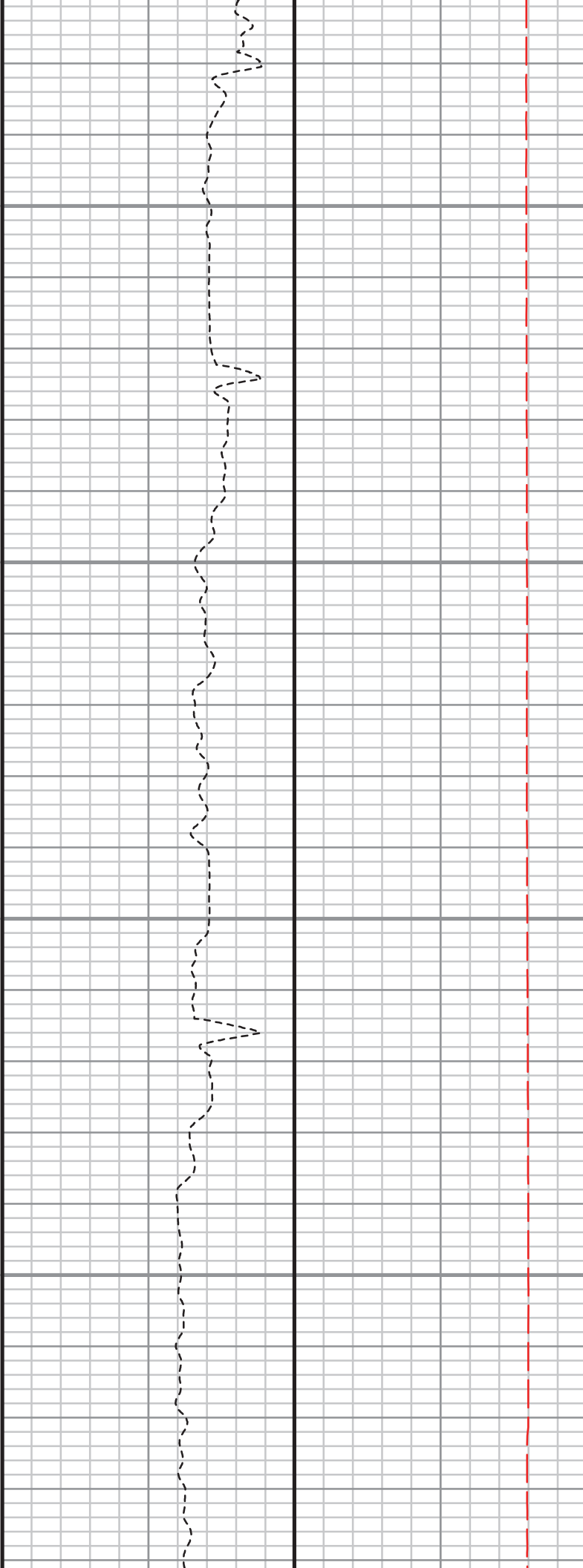
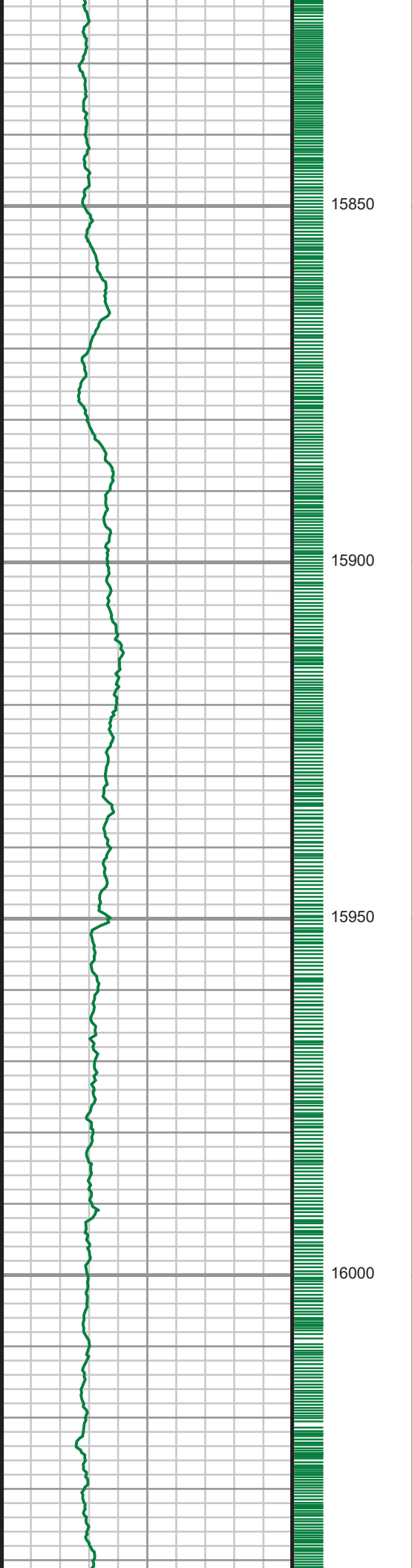
S: 160 MD: 15543.00 ft  
Inc: 88.20 deg Az:  
269.89 deg TVD:  
6394.58 ft



S: 161 MD: 15633.00 ft  
Inc: 89.03 deg Az:  
270.22 deg TVD:  
6396.76 ft

S: 162 MD: 15725.00 ft  
Inc: 89.80 deg Az:  
271.18 deg TVD:  
6397.71 ft

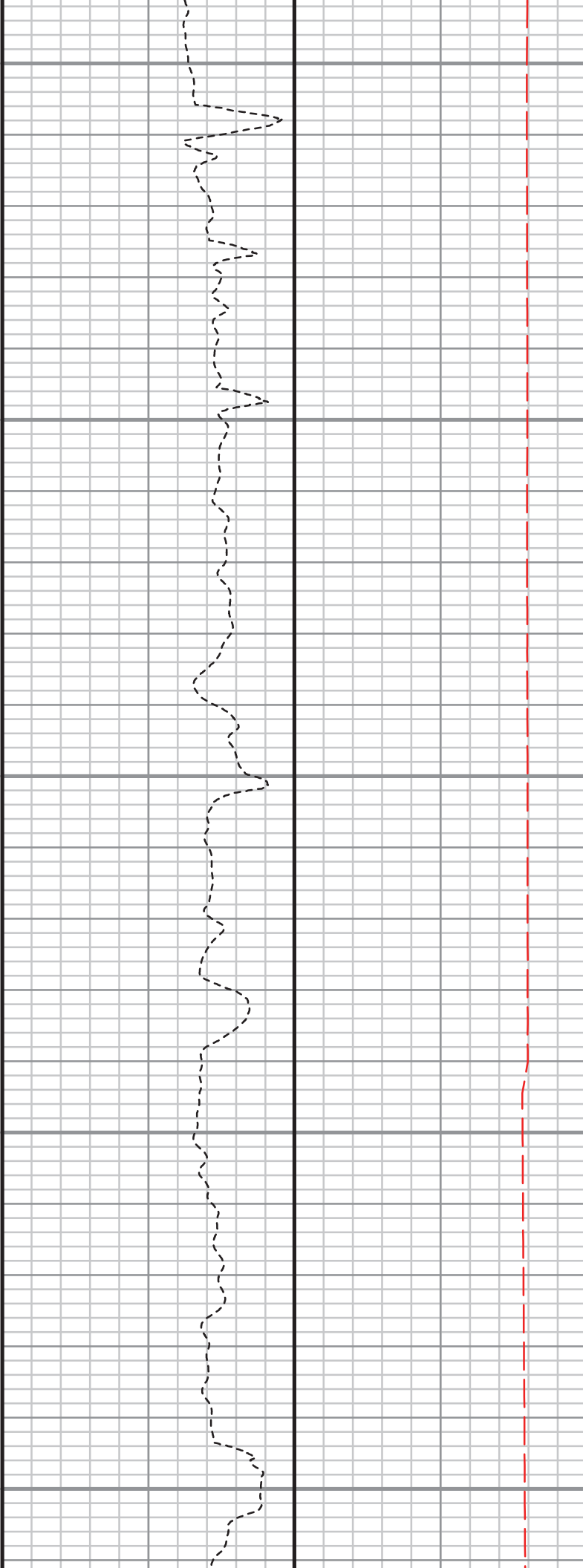
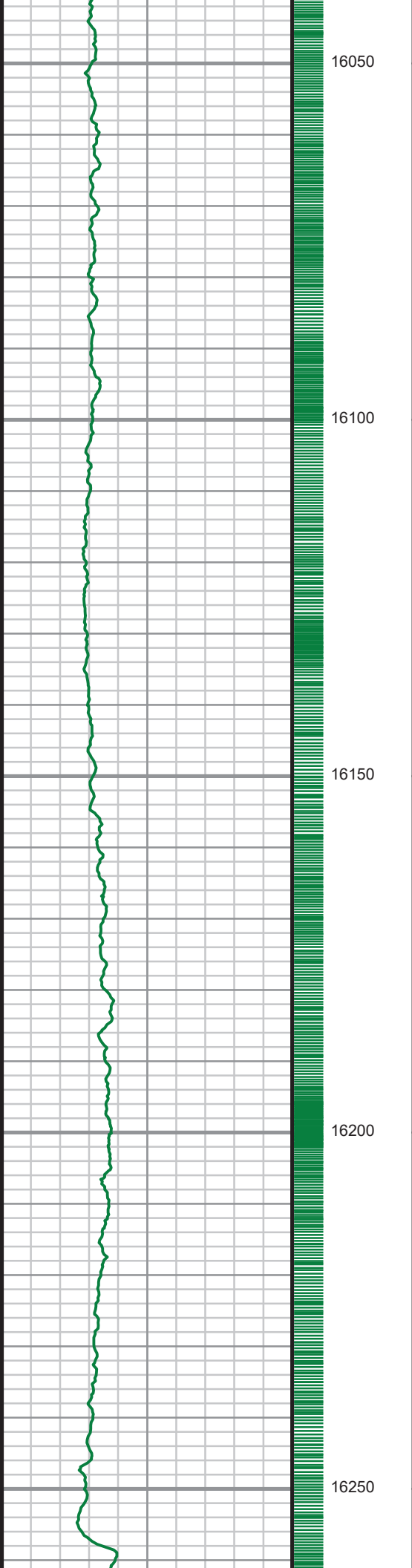
S: 163 MD: 15817.00 ft  
Inc: 89.80 deg Az:



270.08 deg Az:  
6398.03 ft

S: 164 MD: 15908.00 ft  
Inc: 90.13 deg Az:  
270.32 deg TVD:  
6398.08 ft

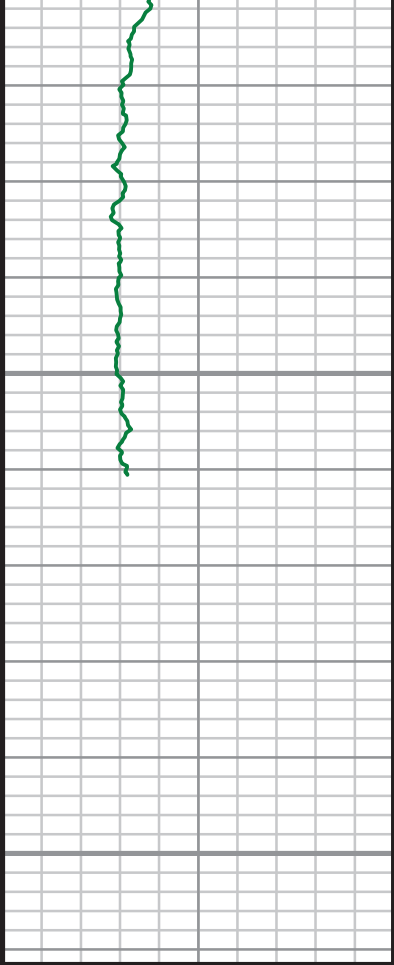
S: 165 MD: 16000.00 ft  
Inc: 90.20 deg Az:  
269.69 deg TVD:  
6397.81 ft



S: 166 MD: 16094.00 ft  
Inc: 89.87 deg Az:  
268.44 deg TVD:  
6397.76 ft

S: 167 MD: 16188.00 ft  
Inc: 89.87 deg Az:  
268.00 deg TVD:  
6397.98 ft



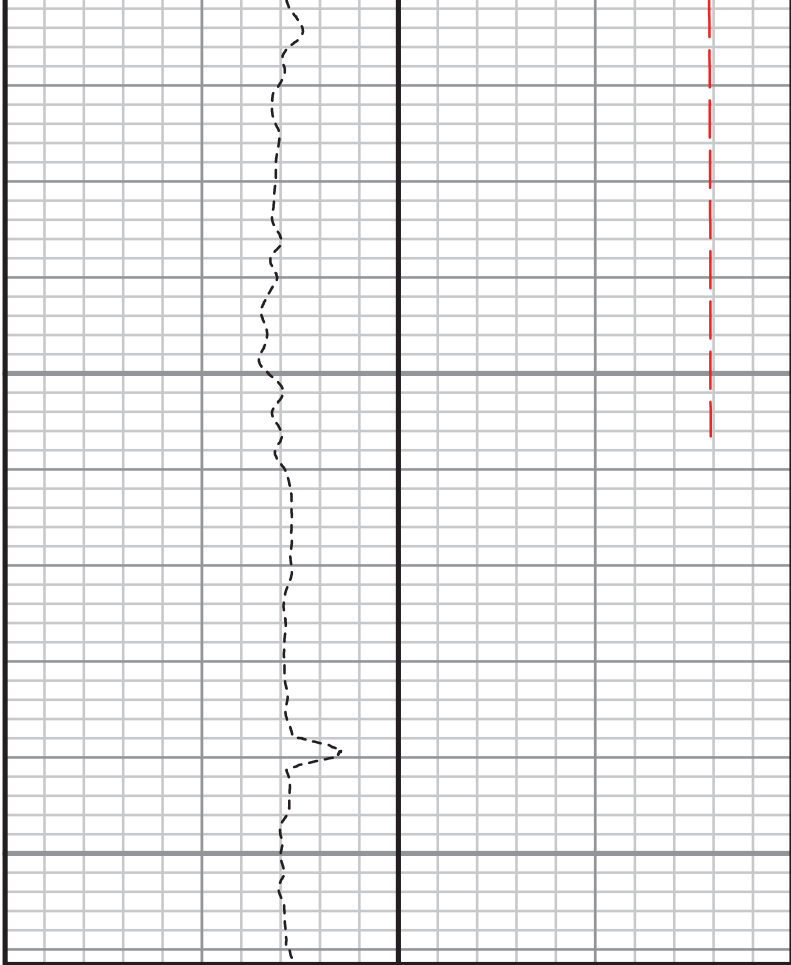


16300

16350

MEASURED DEPTH  
1:240 (ft)

Gamma Ray (GR)		
0	Unit = aapi	350



S: 168 MD: 16282.00 ft  
Inc: 90.13 deg Az:  
267.53 deg TVD:  
6397.98 ft

S: 169 MD: 16305.00 ft  
Inc: 90.07 deg Az:  
267.24 deg TVD:  
6397.94 ft

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

Tool Temperature (T-TEMP)		
0	Unit = °F	300

Comments
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CUSTOMER

PROJECT

FIELD

BILL BARRETT

Anschutz Equus Farms 4-62-29-5764C

WATTENBURG

WELL INFORMATION

Lat/Long

Northing

Easting

UWI

40° 16' 34.77" N, 104° 20' 14.719" W

1,345,632.89 ft

3,324,371.4 ft

05-123-42748

MAP INFORMATION

North Reference

Grid Correction

System

Datum

Map Zone

True North

US State Plane 1983

North American Datum 1983 (GRS 1980)

Colorado North: 0501

VERTICAL SECTION REFERENCE

+N/-S

+E/-W

Proposal Direction

Calculation Method

0 ft

0 ft

270.13°

Minimum Curvature

GEOMAGNETIC REFERENCE INFORMATION

Local Gravity: 999.088 mG [computed]

MD	MODEL	DATE	DECLINATION	MAG TO TRUE
692-16305 ft	HDGM2016	21 Sep 2017	8.25°	add 8.25°

WELL NOTES

OPERATORS

J.STARK, M.POTTER

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
691.50	0.68	176.80	691.46	0.27	-6.02	-0.28	Invalid
850.00	2.46	49.82	849.92	-2.39	-4.76	2.37	1.84
882.00	2.73	49.65	881.88	-3.49	-3.83	3.48	0.82
973.00	1.76	344.96	972.82	-4.77	-1.08	4.77	2.78
1064.00	3.78	337.22	1063.71	-3.24	3.04	3.24	2.26
1156.00	5.45	335.20	1155.41	-0.21	9.80	0.23	1.82
1247.00	5.54	336.79	1245.99	3.35	17.77	-3.31	0.19
1339.00	8.09	327.91	1337.34	8.56	27.33	-8.50	2.99
1430.00	8.88	325.10	1427.34	16.01	38.52	-15.92	0.98
1522.00	10.38	318.68	1518.05	25.58	50.57	-25.46	2.00
1613.00	13.28	321.40	1607.11	37.54	64.89	-37.39	3.25
1705.00	15.56	318.94	1696.20	52.28	82.46	-52.09	2.57
1796.00	14.42	318.06	1784.10	67.91	100.09	-67.68	1.28
1887.00	13.98	319.12	1872.32	82.72	116.84	-82.45	0.56
1979.00	14.25	315.25	1961.55	98.00	133.28	-97.69	1.06
2070.00	14.68	324.30	2049.67	112.66	150.60	-112.31	2.53
2161.00	14.25	321.67	2137.79	126.37	168.75	-125.98	0.87
2253.00	13.81	319.21	2227.05	140.61	185.94	-140.17	0.81
2344.00	13.37	318.33	2315.50	154.73	202.02	-154.26	0.53
2438.00	12.75	325.36	2407.08	167.89	218.67	-167.38	1.81

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft
2532.00	11.43	326.59	2498.99	178.96	234.98	-178.41	1.43
2626.00	10.55	326.06	2591.26	188.92	249.90	-188.34	0.94
2720.00	8.00	332.13	2684.03	196.82	262.82	-196.21	2.90
2813.00	3.87	338.54	2776.51	201.02	271.47	-200.38	4.49
2907.00	1.14	347.51	2870.41	202.39	275.34	-201.75	2.92
3001.00	1.58	7.55	2964.39	202.43	277.54	-201.78	0.68
3095.00	1.67	134.02	3058.37	201.27	277.87	-200.62	3.09
3189.00	2.11	118.90	3152.32	198.77	276.09	-198.12	0.70
3283.00	2.37	109.76	3246.25	195.42	274.59	-194.77	0.47
3376.00	0.70	108.71	3339.21	193.06	273.76	-192.42	1.80
3470.00	1.06	156.26	3433.20	192.16	272.78	-191.52	0.83
3564.00	1.49	189.74	3527.18	192.02	270.78	-191.38	0.90
3659.00	1.58	185.00	3622.14	192.33	268.25	-191.71	0.16
3753.00	1.58	72.94	3716.12	191.20	267.34	-190.58	2.79
3848.00	1.41	61.69	3811.09	188.93	268.27	-188.30	0.36
3942.00	1.49	17.74	3905.06	187.54	269.99	-186.91	1.16
4036.00	1.32	18.09	3999.03	186.84	272.19	-186.20	0.19
4130.00	1.23	18.36	4093.01	186.19	274.17	-185.55	0.09
4225.00	1.58	18.27	4187.98	185.46	276.39	-184.81	0.37
4318.00	1.32	29.96	4280.95	184.53	278.53	-183.88	0.42

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft
4413.00	0.53	118.82	4375.94	183.60	279.27	-182.95	1.49
4507.00	0.88	130.51	4469.94	182.67	278.59	-182.02	0.40
4601.00	0.88	142.37	4563.92	181.68	277.55	-181.03	0.19
4695.00	0.88	154.94	4657.91	180.93	276.33	-180.28	0.20
4788.00	1.14	287.39	4750.91	181.51	275.96	-180.87	1.99
4882.00	1.49	296.00	4844.88	183.51	276.78	-182.86	0.43
4976.00	1.32	315.60	4938.85	185.37	278.09	-184.72	0.54
5070.00	1.32	307.43	5032.83	186.99	279.52	-186.34	0.20
5164.00	1.58	300.05	5126.80	188.98	280.83	-188.32	0.34
5258.00	0.97	280.27	5220.78	190.88	281.62	-190.23	0.80
5352.00	1.32	269.46	5314.76	192.75	281.75	-192.09	0.44
5445.00	0.62	134.64	5407.75	193.46	281.39	-192.80	1.94
5539.00	0.53	120.93	5501.75	192.73	280.81	-192.07	0.17
5633.00	0.26	318.94	5595.74	192.50	280.75	-191.84	0.83
5727.00	0.26	264.98	5689.74	192.86	280.90	-192.20	0.25
5821.00	6.24	286.69	5783.55	197.98	282.35	-197.32	6.38
5914.00	17.06	281.59	5874.50	216.25	286.55	-215.58	11.67
6008.00	23.04	279.30	5962.77	247.95	292.30	-247.27	6.41
6102.00	32.62	274.12	6045.81	291.49	297.11	-290.80	10.51
6195.00	43.70	270.52	6118.82	348.81	299.20	-348.12	12.15

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft
6289.00	52.23	268.23	6181.71	418.55	298.35	-417.86	9.25
6383.00	58.56	269.81	6235.06	495.87	297.07	-495.18	6.88
6477.00	71.14	269.20	6274.93	580.78	296.31	-580.09	13.39
6571.00	80.55	267.70	6297.90	671.78	293.82	-671.10	10.13
6628.00	85.74	266.12	6304.70	728.26	290.77	-727.59	9.51
6762.00	87.92	267.83	6312.12	861.84	283.71	-861.18	2.07
6856.00	89.30	268.10	6314.40	955.74	280.37	-955.09	1.49
6950.00	89.87	269.95	6315.09	1049.72	278.76	-1049.07	2.06
7043.00	90.17	268.64	6315.06	1142.71	277.62	-1142.06	1.44
7137.00	89.93	268.63	6314.98	1236.68	275.38	-1236.03	0.25
7231.00	90.03	270.21	6315.01	1330.66	274.44	-1330.03	1.68
7325.00	90.67	271.40	6314.43	1424.65	275.76	-1424.01	1.44
7419.00	88.86	270.91	6314.81	1518.63	277.65	-1517.99	2.00
7513.00	88.89	270.39	6316.66	1612.61	278.72	-1611.96	0.54
7606.00	90.74	271.23	6316.95	1705.60	280.03	-1704.95	2.18
7700.00	89.53	271.06	6316.73	1799.58	281.91	-1798.93	1.30
7794.00	88.69	270.21	6318.19	1893.57	282.95	-1892.91	1.27
7889.00	89.26	270.73	6319.89	1988.55	283.74	-1987.89	0.82
7982.00	89.60	270.90	6320.81	2081.54	285.06	-2080.88	0.40
8076.00	88.86	267.87	6322.08	2175.51	284.05	-2174.85	3.32

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft
8170.00	89.16	268.43	6323.71	2269.44	281.01	-2268.79	0.68
8264.00	90.03	268.77	6324.37	2363.40	278.72	-2362.76	1.00
8358.00	90.07	268.61	6324.29	2457.37	276.57	-2456.73	0.17
8452.00	89.36	265.76	6324.75	2551.24	271.95	-2550.61	3.13
8546.00	88.89	268.50	6326.19	2645.09	267.23	-2644.47	2.96
8640.00	89.60	271.45	6327.42	2739.07	267.19	-2738.45	3.23
8734.00	89.78	271.57	6327.94	2833.04	269.67	-2832.42	0.23
8827.00	89.19	271.20	6328.77	2926.01	271.92	-2925.38	0.74
8921.00	89.19	271.57	6330.09	3019.98	274.19	-3019.35	0.39
9015.00	89.34	273.24	6331.29	3113.89	278.13	-3113.25	1.78
9109.00	89.80	273.13	6332.00	3207.76	283.36	-3207.10	0.50
9203.00	89.33	273.49	6332.71	3301.61	288.80	-3300.94	0.63
9297.00	89.56	271.51	6333.63	3395.52	292.90	-3394.85	2.13
9390.00	89.73	272.39	6334.20	3488.47	296.06	-3487.79	0.97
9484.00	89.70	272.99	6334.67	3582.38	300.48	-3581.68	0.64
9578.00	89.73	271.74	6335.13	3676.30	304.36	-3675.60	1.33
9672.00	89.87	273.42	6335.46	3770.21	308.59	-3769.50	1.79
9766.00	90.10	273.77	6335.49	3864.04	314.48	-3863.32	0.45
9860.00	88.37	272.45	6336.74	3957.90	319.58	-3957.16	2.31
9954.00	88.02	269.61	6339.70	4051.83	321.27	-4051.09	3.04

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft
10048.00	87.99	269.45	6342.98	4145.77	320.50	-4145.03	0.17
10142.00	89.60	268.67	6344.95	4239.73	318.96	-4238.99	1.91
10236.00	89.63	268.76	6345.58	4333.70	316.85	-4332.97	0.10
10330.00	89.70	268.31	6346.13	4427.66	314.45	-4426.94	0.48
10425.00	89.46	267.83	6346.83	4522.60	311.25	-4521.88	0.57
10518.00	89.90	267.45	6347.34	4615.51	307.42	-4614.80	0.62
10610.00	89.97	267.61	6347.45	4707.41	303.45	-4706.71	0.18
10701.00	90.00	267.70	6347.48	4798.32	299.73	-4797.64	0.11
10793.00	90.13	267.53	6347.37	4890.24	295.90	-4889.56	0.24
10885.00	89.93	269.03	6347.32	4982.19	293.14	-4981.51	1.64
10976.00	90.00	268.42	6347.37	5073.16	291.11	-5072.49	0.67
11067.00	89.49	268.52	6347.77	5164.12	288.69	-5163.46	0.57
11158.00	90.07	269.21	6348.12	5255.09	286.89	-5254.44	0.98
11250.00	88.42	268.98	6349.33	5347.07	285.44	-5346.41	1.81
11341.00	88.31	269.00	6351.93	5438.01	283.83	-5437.36	0.12
11432.00	88.09	268.62	6354.78	5528.94	281.94	-5528.30	0.49
11524.00	88.46	269.50	6357.55	5620.88	280.43	-5620.24	1.04
11615.00	88.32	269.68	6360.11	5711.84	279.78	-5711.21	0.25
11707.00	89.36	270.22	6361.97	5803.82	279.71	-5803.18	1.27
11798.00	88.69	269.88	6363.51	5894.81	279.79	-5894.17	0.82

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS %/100ft
11890.00	89.50	270.99	6364.97	5986.79	280.49	-5986.15	1.48
11981.00	90.67	272.21	6364.83	6077.76	283.03	-6077.12	1.87
12072.00	90.77	272.09	6363.68	6168.70	286.45	-6168.04	0.17
12164.00	89.87	270.82	6363.17	6260.67	288.79	-6260.01	1.70
12255.00	89.87	270.87	6363.38	6351.66	290.13	-6351.00	0.05
12347.00	89.63	270.42	6363.79	6443.66	291.17	-6442.99	0.55
12438.00	89.43	270.71	6364.54	6534.65	292.07	-6533.99	0.38
12529.00	89.50	270.67	6365.39	6625.64	293.17	-6624.97	0.08
12621.00	89.56	269.22	6366.14	6717.64	293.08	-6716.97	1.58
12712.00	89.70	269.82	6366.73	6808.63	292.31	-6807.96	0.68
12803.00	89.33	267.09	6367.51	6899.58	289.86	-6898.92	3.03
12895.00	89.56	270.54	6368.40	6991.53	287.95	-6990.88	3.76
12986.00	89.16	269.72	6369.41	7082.53	288.16	-7081.87	1.01
13077.00	89.60	271.43	6370.39	7173.52	289.07	-7172.86	1.94
13169.00	89.87	274.52	6370.82	7265.39	293.84	-7264.72	3.36
13260.00	88.72	271.87	6371.94	7356.24	298.91	-7355.57	3.16
13352.00	88.49	271.79	6374.18	7448.18	301.86	-7447.49	0.27
13444.00	88.42	271.09	6376.66	7540.12	304.18	-7539.43	0.77
13535.00	89.43	272.67	6378.37	7631.06	307.17	-7630.36	2.06
13626.00	89.26	269.99	6379.41	7722.02	309.28	-7721.32	2.95

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
13717.00	90.77	271.41	6379.38	7813.01	310.39	-7812.31	2.28
13809.00	89.36	270.73	6379.28	7905.00	312.11	-7904.29	1.70
13900.00	89.26	269.58	6380.37	7995.99	312.36	-7995.28	1.27
13991.00	89.40	269.30	6381.44	8086.98	311.47	-8086.27	0.35
14082.00	89.50	269.67	6382.32	8177.97	310.65	-8177.26	0.42
14174.00	88.62	267.39	6383.83	8269.91	308.29	-8269.21	2.66
14265.00	89.36	267.95	6385.43	8360.81	304.59	-8360.12	1.02
14356.00	89.40	267.11	6386.41	8451.71	300.67	-8451.03	0.93
14448.00	89.77	268.96	6387.09	8543.64	297.51	-8542.97	2.05
14539.00	89.93	268.67	6387.33	8634.62	295.62	-8633.95	0.37
14631.00	90.44	268.01	6387.03	8726.57	292.96	-8725.91	0.90
14721.00	89.80	268.86	6386.85	8816.53	290.50	-8815.88	1.18
14813.00	91.24	269.73	6386.01	8908.51	289.37	-8907.86	1.84
14905.00	90.71	269.88	6384.44	9000.50	289.06	-8999.85	0.61
14995.00	89.19	268.99	6384.52	9090.49	288.17	-9089.84	1.95
15086.00	89.50	268.99	6385.56	9181.46	286.57	-9180.82	0.33
15177.00	88.42	270.24	6387.22	9272.44	285.96	-9271.80	1.81
15268.00	88.90	270.77	6389.35	9363.41	286.75	-9362.77	0.78
15360.00	89.36	271.60	6390.75	9455.39	288.65	-9454.74	1.04
15451.00	88.82	271.16	6392.19	9546.35	290.85	-9545.70	0.76

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
15543.00	88.20	269.89	6394.58	9638.32	291.69	-9637.66	1.54
15633.00	89.03	270.22	6396.76	9728.29	291.78	-9727.64	0.99
15725.00	89.80	271.18	6397.71	9820.28	292.91	-9819.62	1.33
15817.00	89.80	270.08	6398.03	9912.27	293.92	-9911.61	1.19
15908.00	90.13	270.32	6398.08	10003.27	294.24	-10002.61	0.45
16000.00	90.20	269.69	6397.81	10095.27	294.24	-10094.61	0.69
16094.00	89.87	268.44	6397.76	10189.25	292.70	-10188.60	1.38
16188.00	89.87	268.00	6397.98	10283.20	289.77	-10282.55	0.47
16282.00	90.13	267.53	6397.98	10377.12	286.11	-10376.48	0.57
16305.00	90.07	267.24	6397.94	10400.09	285.06	-10399.46	1.29

5" = 100' MD