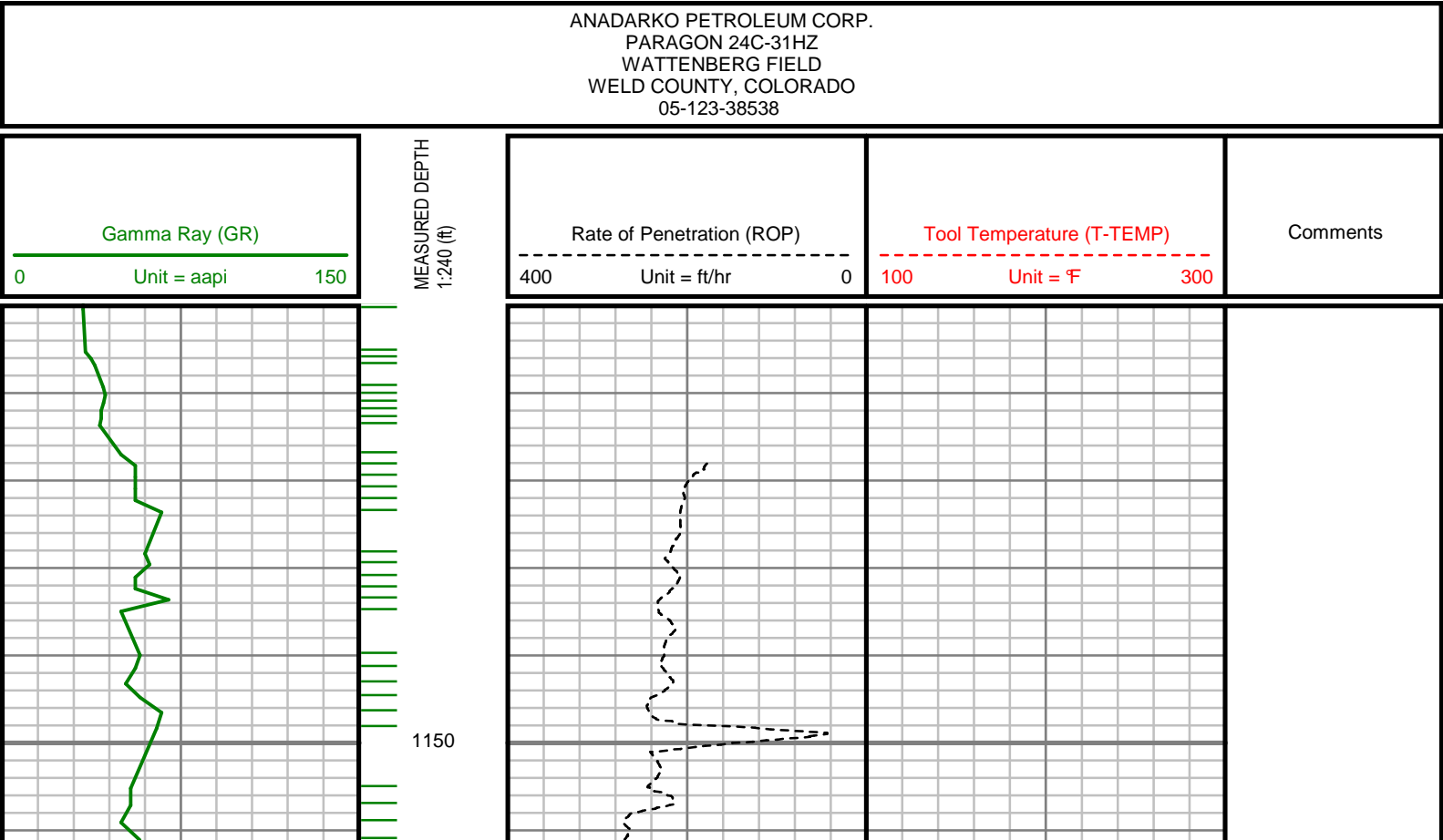
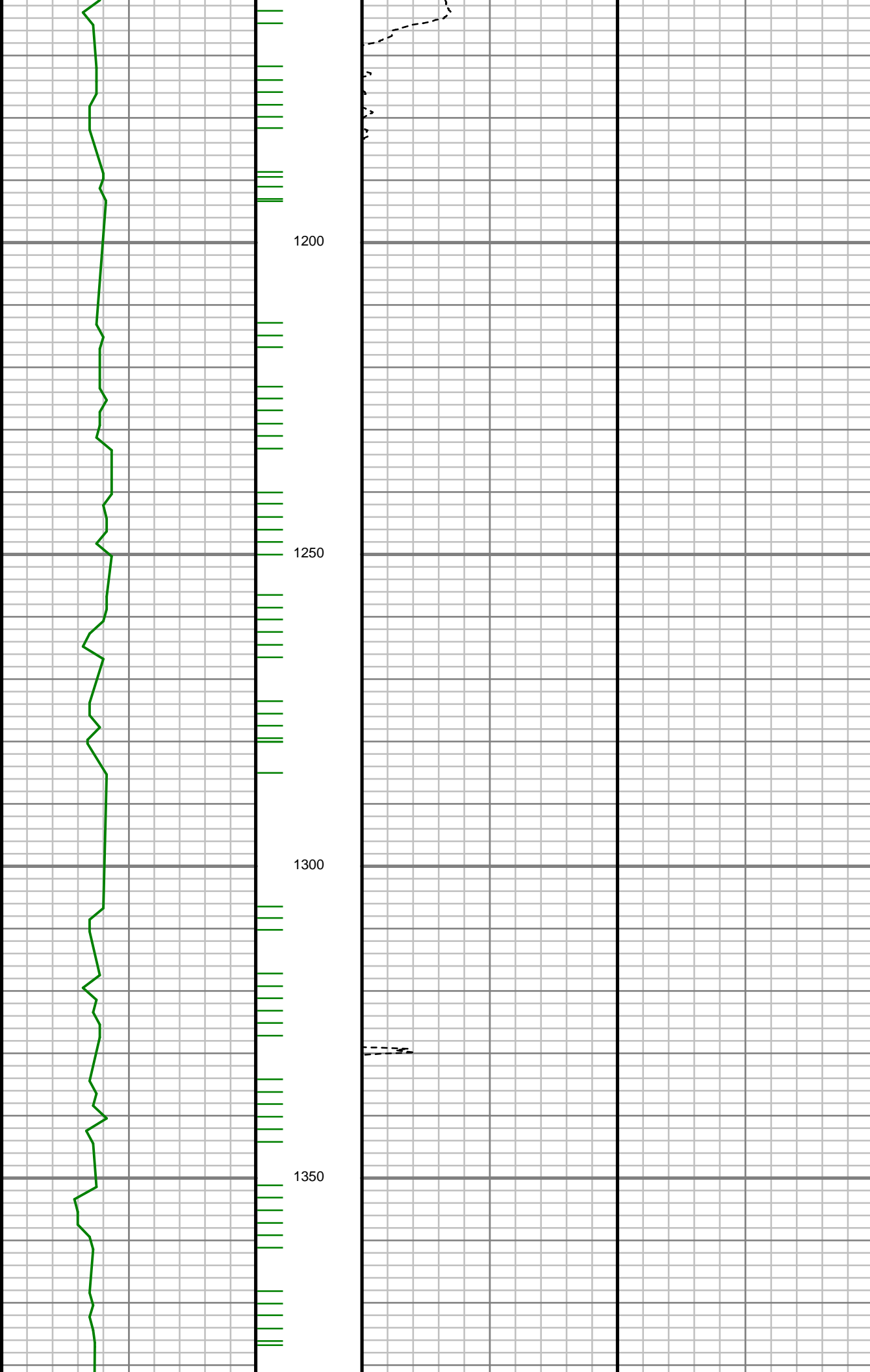


Remarks
ANADARKO PETROLEUM CORP. PRODUCTION AFE# 2088984
SCIENTIFIC DRILLING INTERNATIONAL JOB# 106476
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED 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 = 128-105 / CONT = 411 / MWD EYE = 0848 / GAMMA RAY =1083
BIT TO SENSOR OFFSETS: SURVEY = 57.06 FT. / GAMMA RAY = 47.81
RUN # 2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-105 / CONT = 603 / MWD EYE = 0902 / GAMMA RAY =1076
BIT TO SENSOR OFFSETS: SURVEY = 66.96 FT. / GAMMA RAY = 47.21
SURVEY WELL NOTES:
SURVEYS FROM 0.0 FT. TO 1118 FT. WERE ACQUIRED BY MS GYRO MWD.
SURVEYS FROM 1118 FT. TO XXXXX FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
T-TEMP = TOOL TEMPERATURE

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

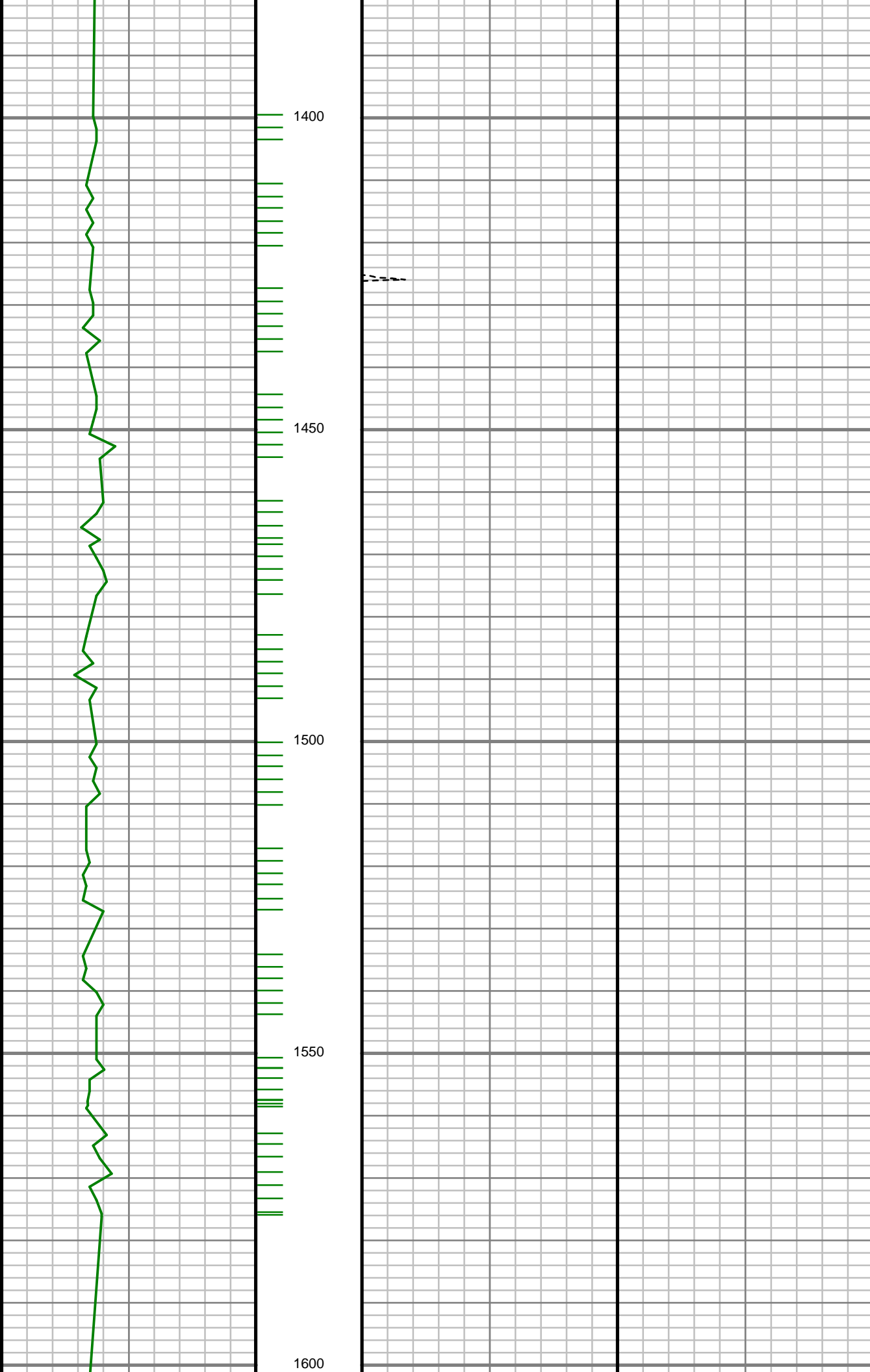




S: 12 MD: 1181.00 ft
Inc: 0.26 deg Az: 2.62
deg TVD: 1180.98 ft

S: 13 MD: 1272.00 ft
Inc: 0.36 deg Az: 4.15
deg TVD: 1271.98 ft

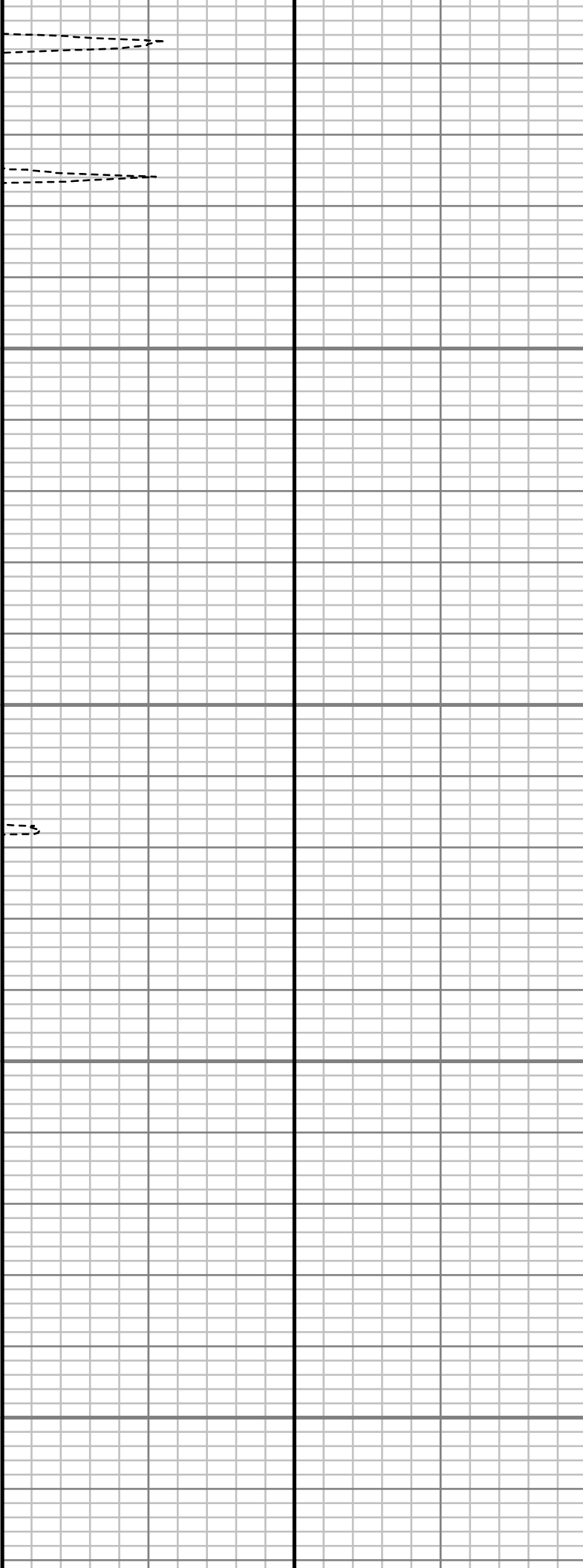
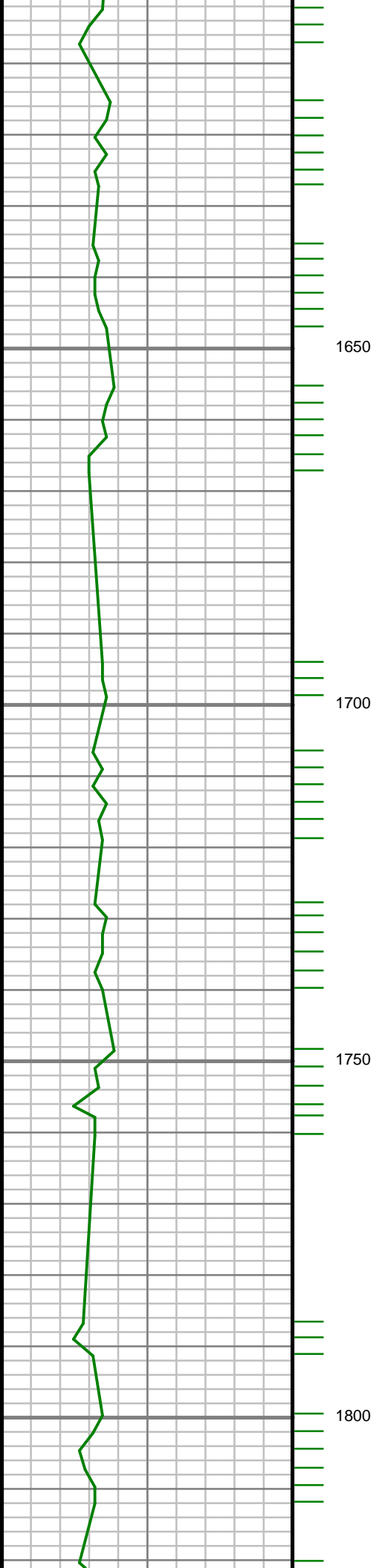
S: 14 MD: 1364.00 ft
Inc: 0.17 deg Az:
339.15 deg TVD:
1363.98 ft



S: 15 MD: 1456.00 ft
Inc: 0.24 deg Az:
306.22 deg TVD:
1455.98 ft

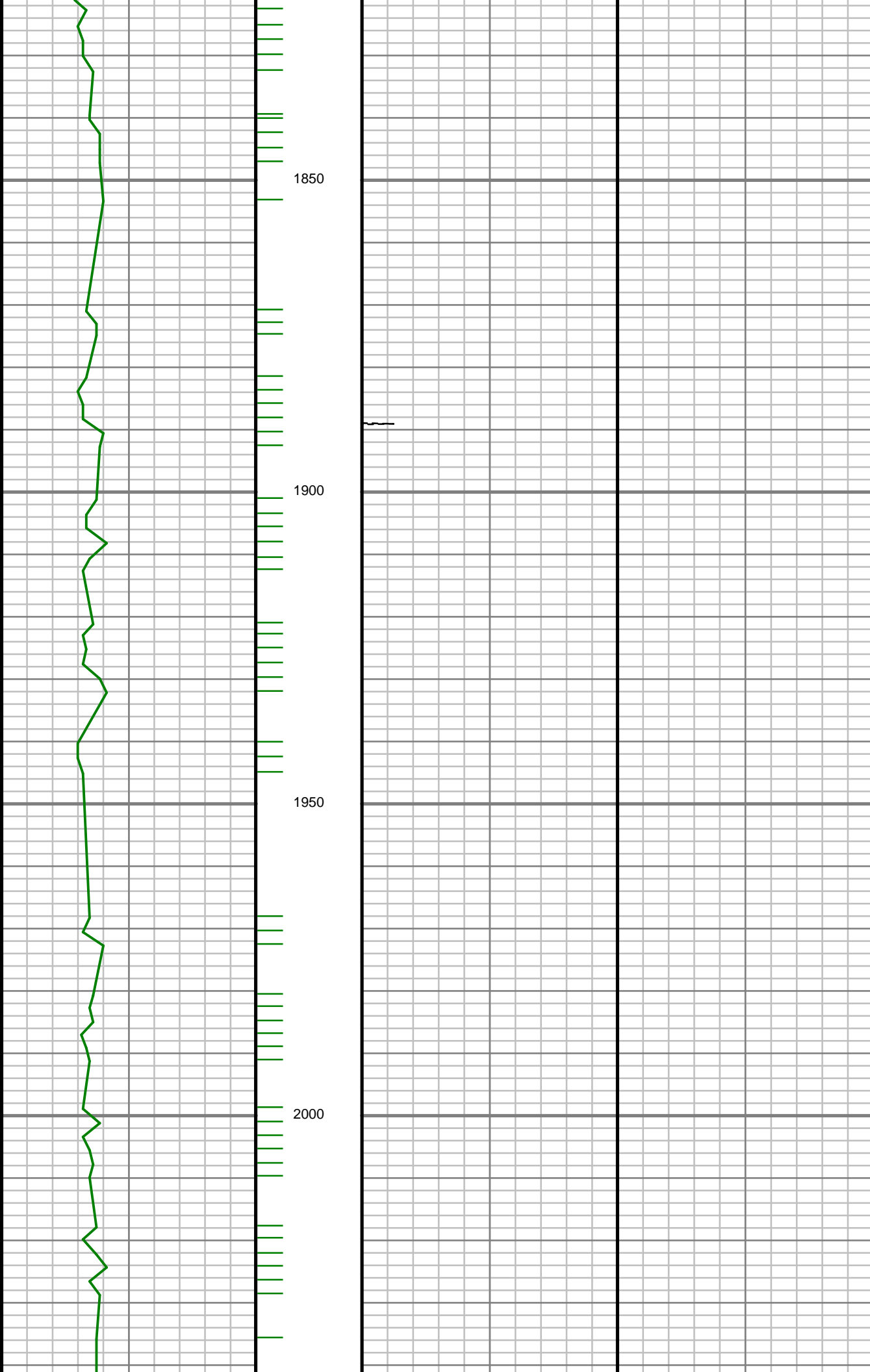
S: 16 MD: 1547.00 ft
Inc: 0.32 deg Az:
312.78 deg TVD:
1546.97 ft

S: 17 MD: 1566.00 ft
Inc: 0.34 deg Az:
319.85 deg TVD:
1565.97 ft



S: 18 MD: 1658.00 ft
Inc: 0.13 deg Az: 335.46 deg TVD: 1657.97 ft

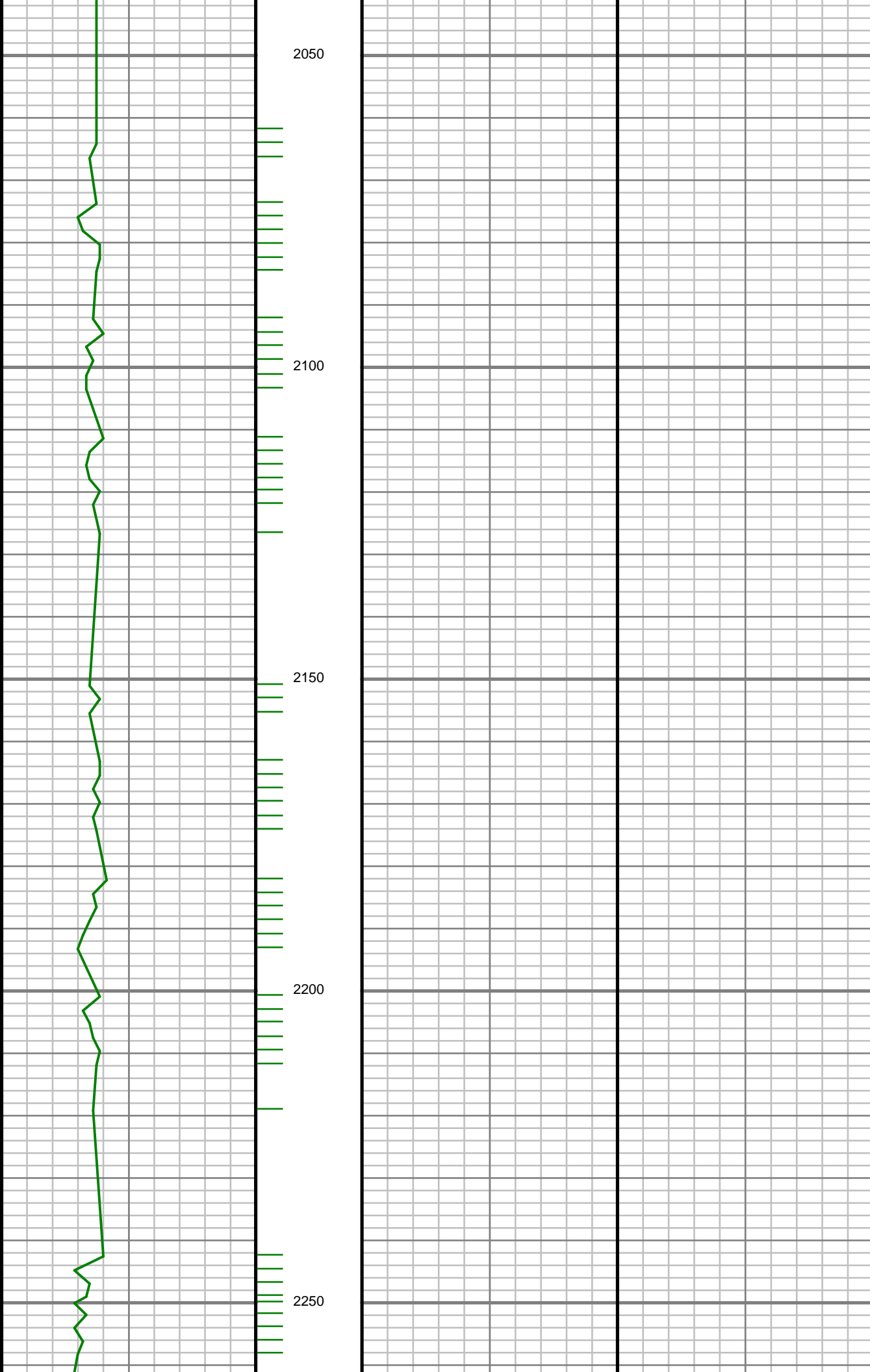
S: 19 MD: 1750.00 ft
Inc: 0.23 deg Az: 12.58 deg TVD: 1749.97 ft



S: 20 MD: 1841.00 ft
Inc: 0.23 deg Az: 3.94
deg TVD: 1840.97 ft

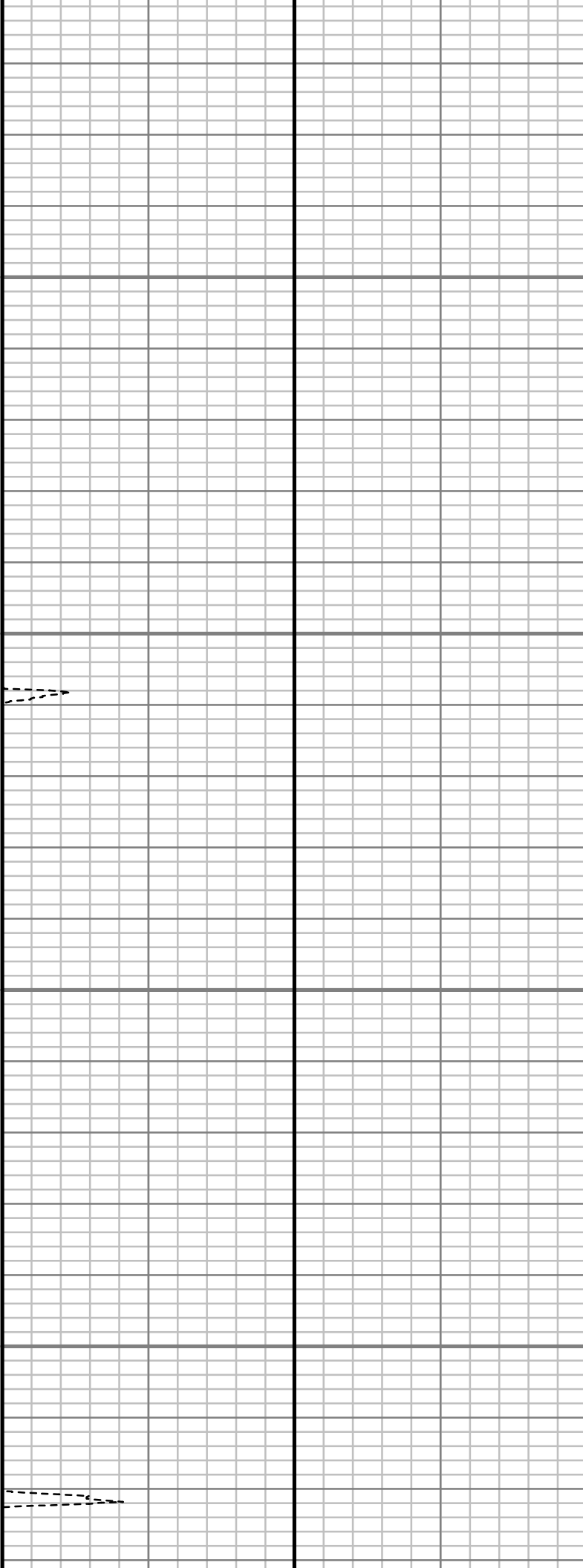
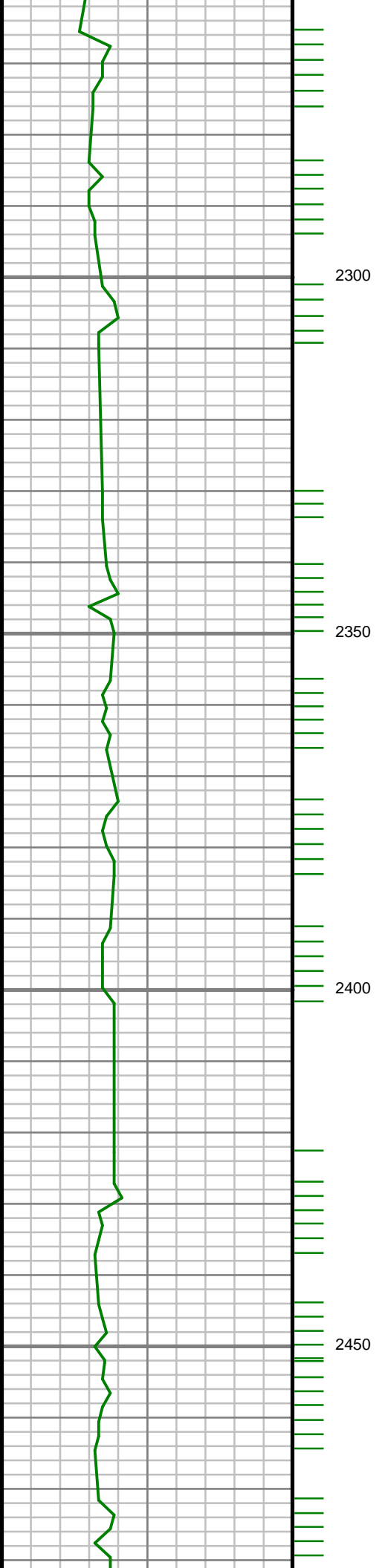
S: 21 MD: 1932.00 ft
Inc: 0.24 deg Az:
336.29 deg TVD:
1931.97 ft

S: 22 MD: 2024.00 ft
Inc: 0.14 deg Az:
342.30 deg TVD:
2023.97 ft



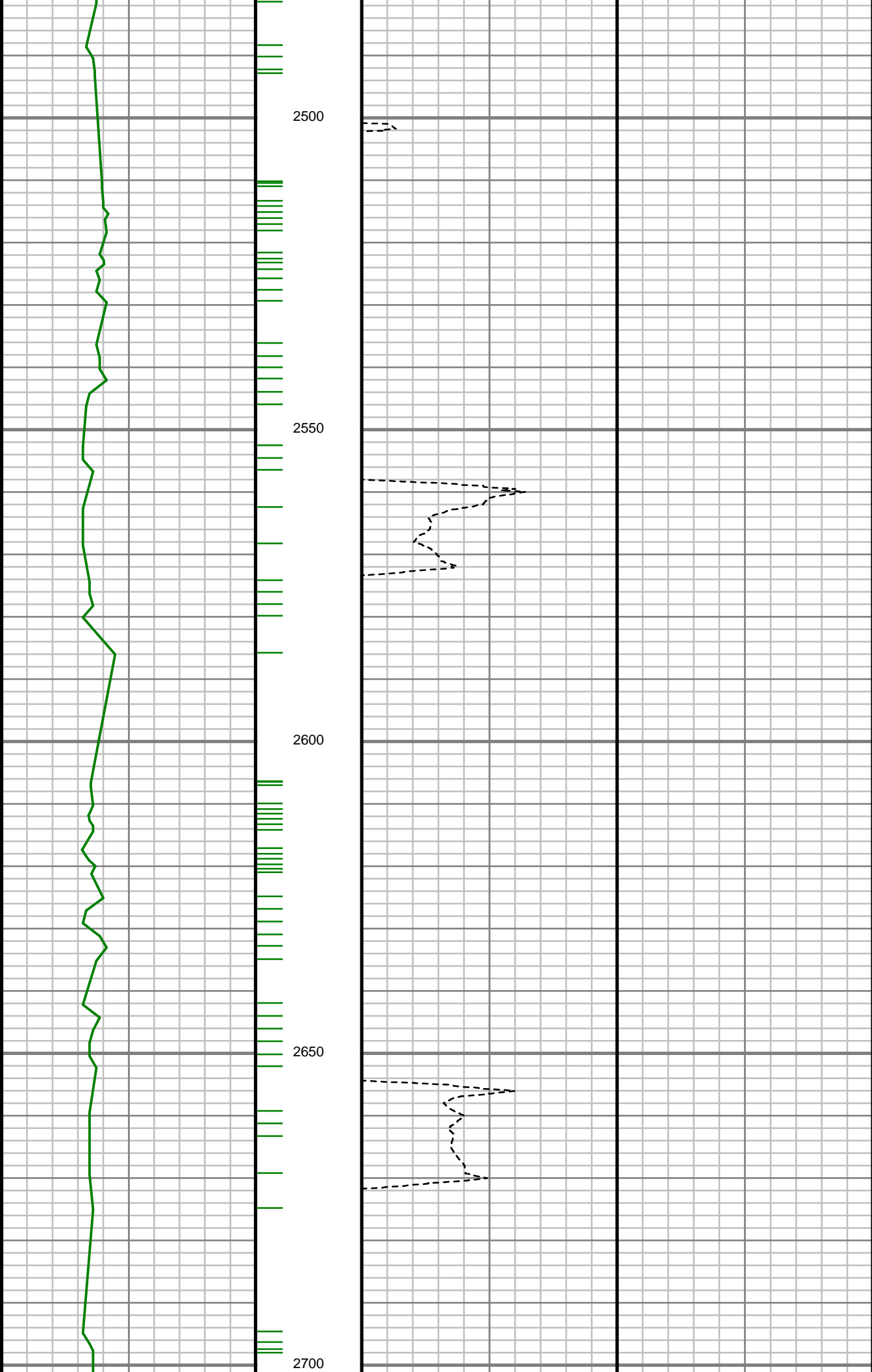
S: 23 MD: 2115.00 ft
Inc: 0.07 deg Az:
350.06 deg TVD:
2114.97 ft

S: 24 MD: 2207.00 ft
Inc: 0.14 deg Az:
332.86 deg TVD:
2206.97 ft



S: 25 MD: 2298.00 ft
Inc: 0.21 deg Az: 34.28
deg TVD: 2297.97 ft

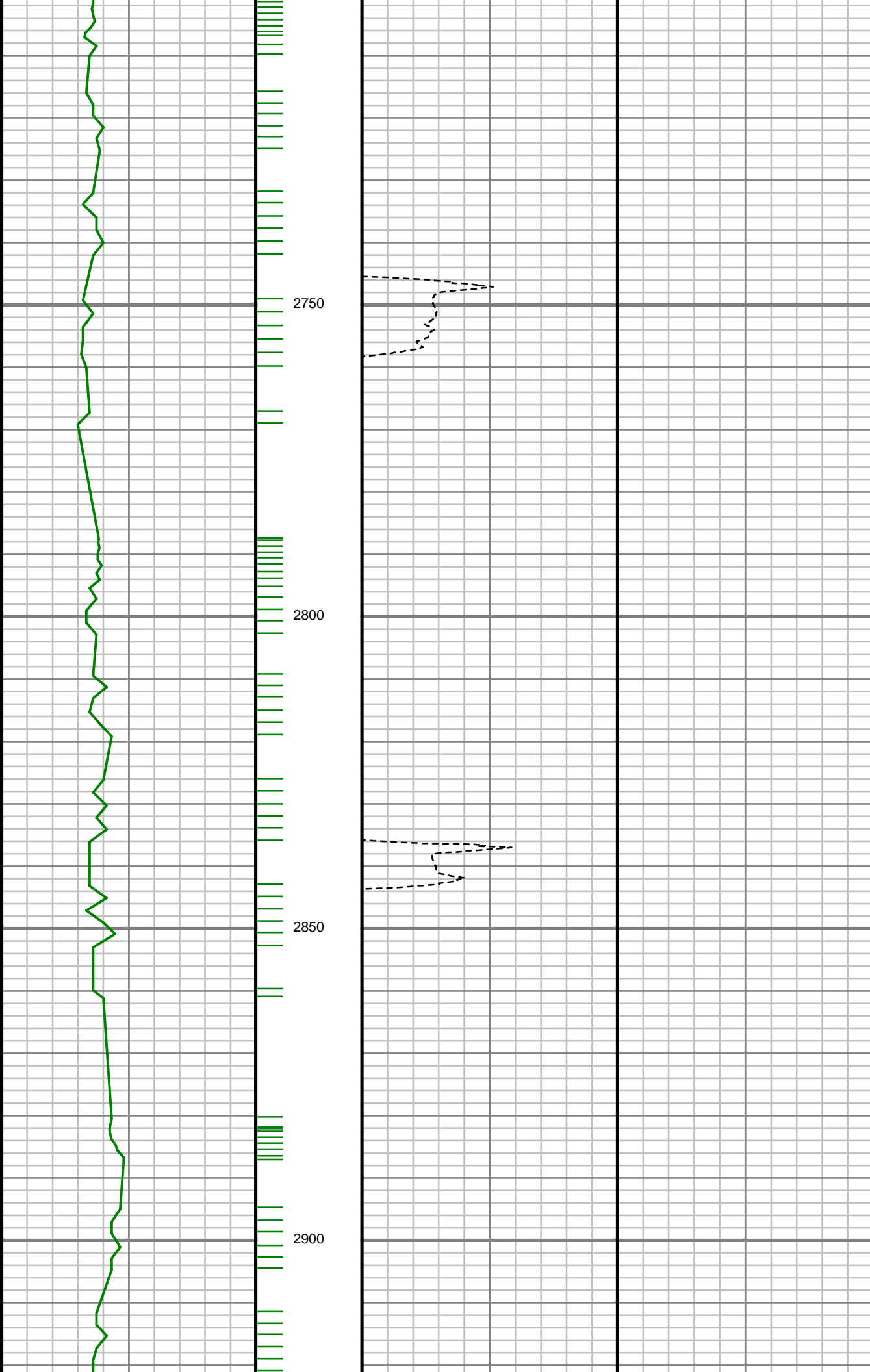
S: 26 MD: 2390.00 ft
Inc: 0.33 deg Az: 34.17
deg TVD: 2389.97 ft



S: 27 MD: 2482.00 ft
Inc: 0.39 deg Az: 27.48
deg TVD: 2481.97 ft

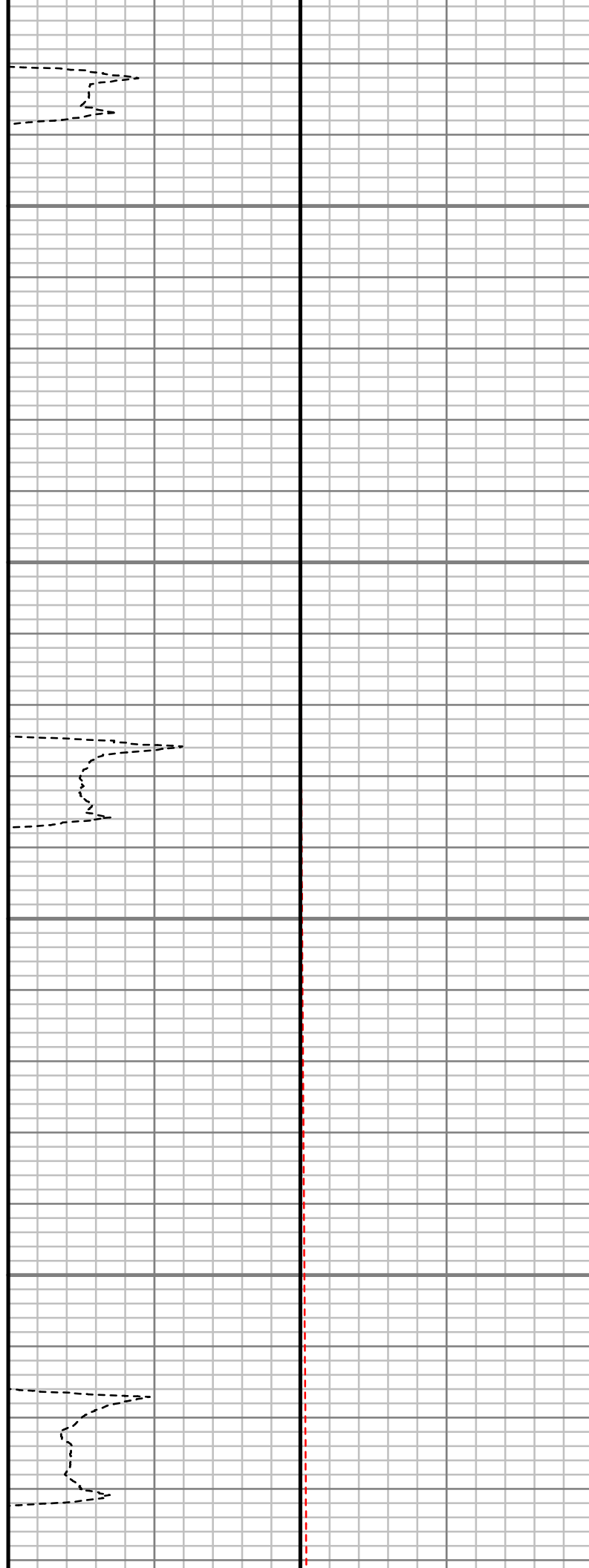
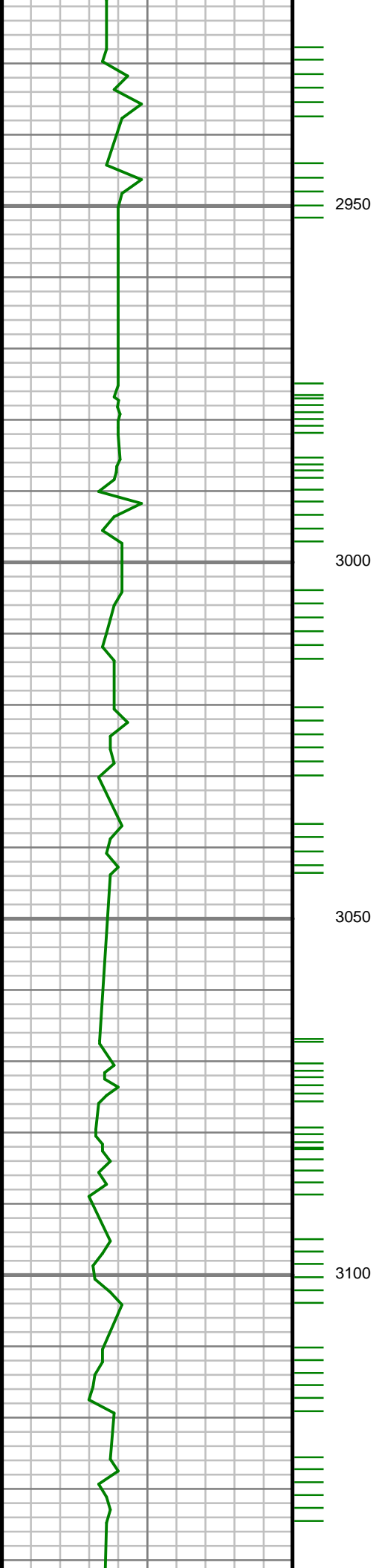
S: 28 MD: 2574.00 ft
Inc: 1.32 deg Az:
228.97 deg TVD:
2573.96 ft

S: 29 MD: 2665.00 ft
Inc: 3.94 deg Az:
236.49 deg TVD:
2664.86 ft



S: 30 MD: 2757.00 ft
Inc: 6.29 deg Az:
242.93 deg TVD:
2756.49 ft

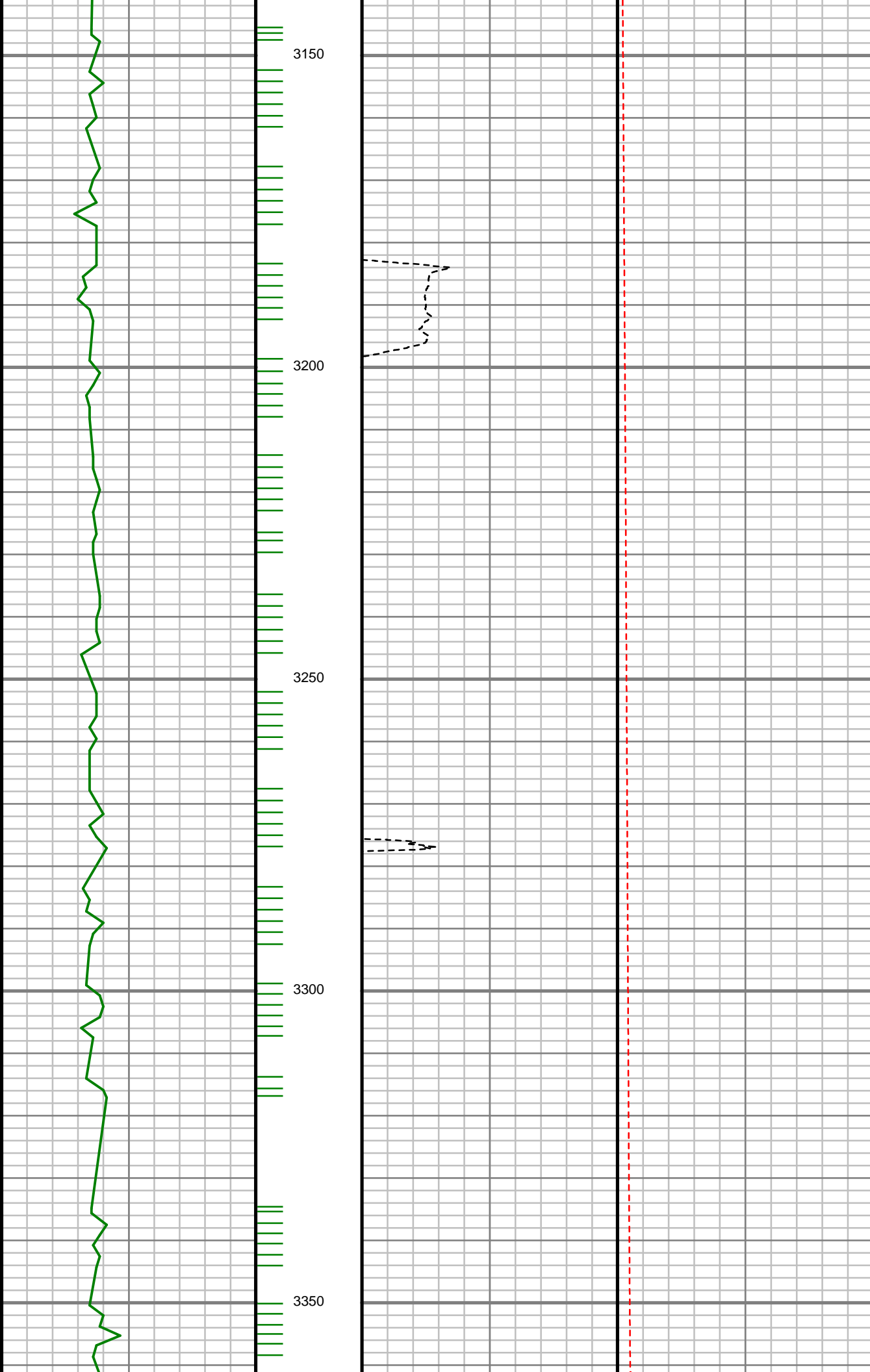
S: 31 MD: 2848.00 ft
Inc: 7.52 deg Az:
243.95 deg TVD:
2846.82 ft



S: 32 MD: 2940.00 ft
Inc: 8.09 deg Az:
242.29 deg TVD:
2937.97 ft

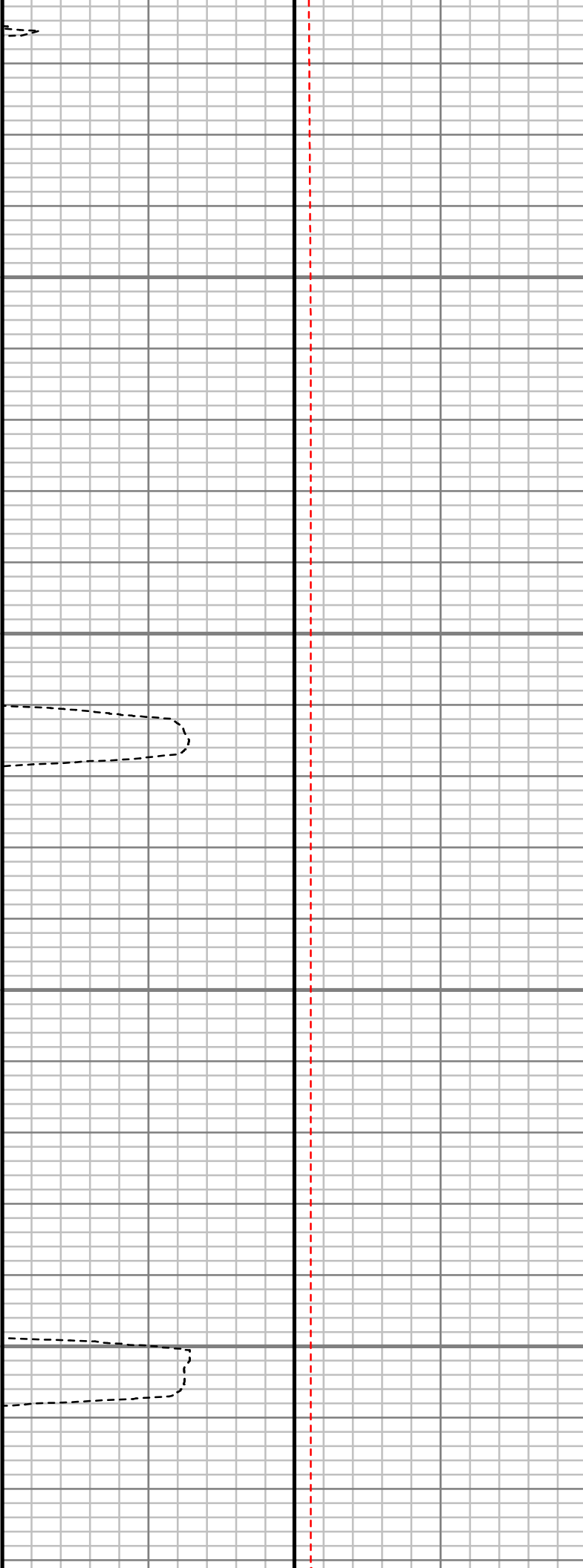
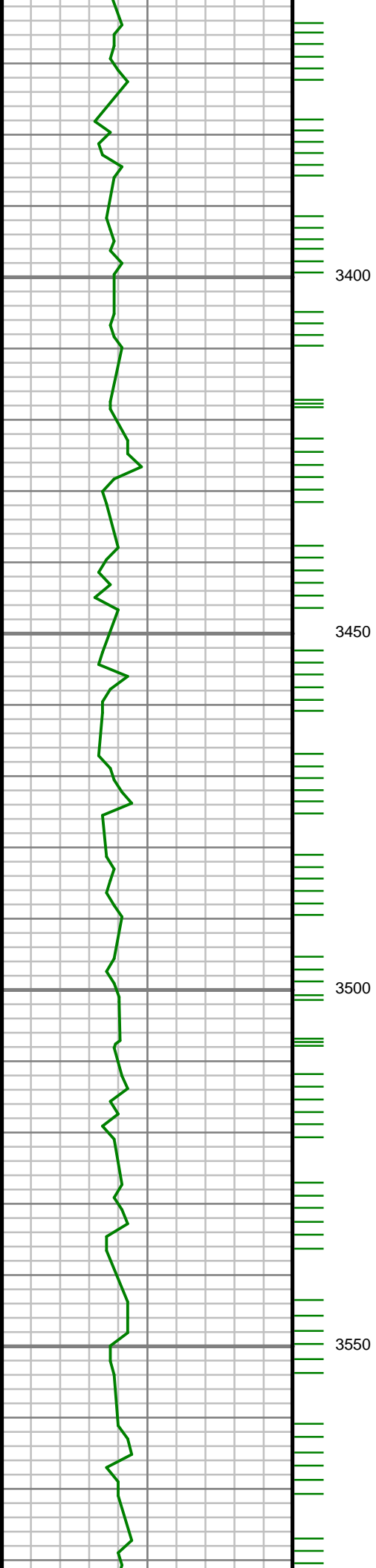
S: 33 MD: 3031.00 ft
Inc: 8.79 deg Az:
239.63 deg TVD:
3027.98 ft

S: 34 MD: 3123.00 ft
Inc: 11.15 deg Az:
241.99 deg TVD:
3118.59 ft



S: 35 MD: 3215.00 ft
Inc: 11.94 deg Az:
242.82 deg TVD:
3208.73 ft

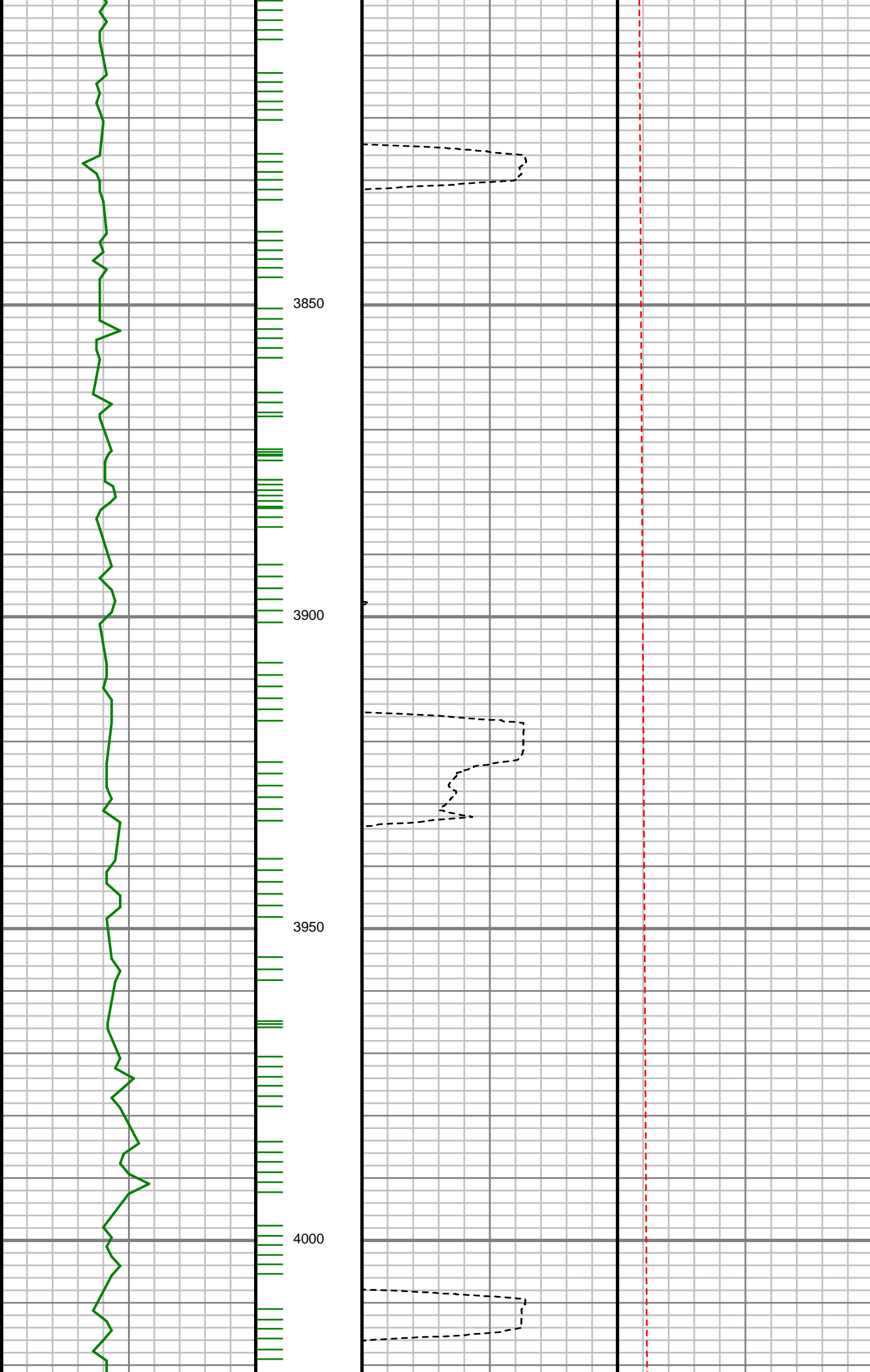
S: 36 MD: 3306.00 ft
Inc: 11.46 deg Az:
242.65 deg TVD:
3297.84 ft



S: 37 MD: 3398.00 ft
Inc: 10.66 deg Az:
241.85 deg TVD:
3388.13 ft

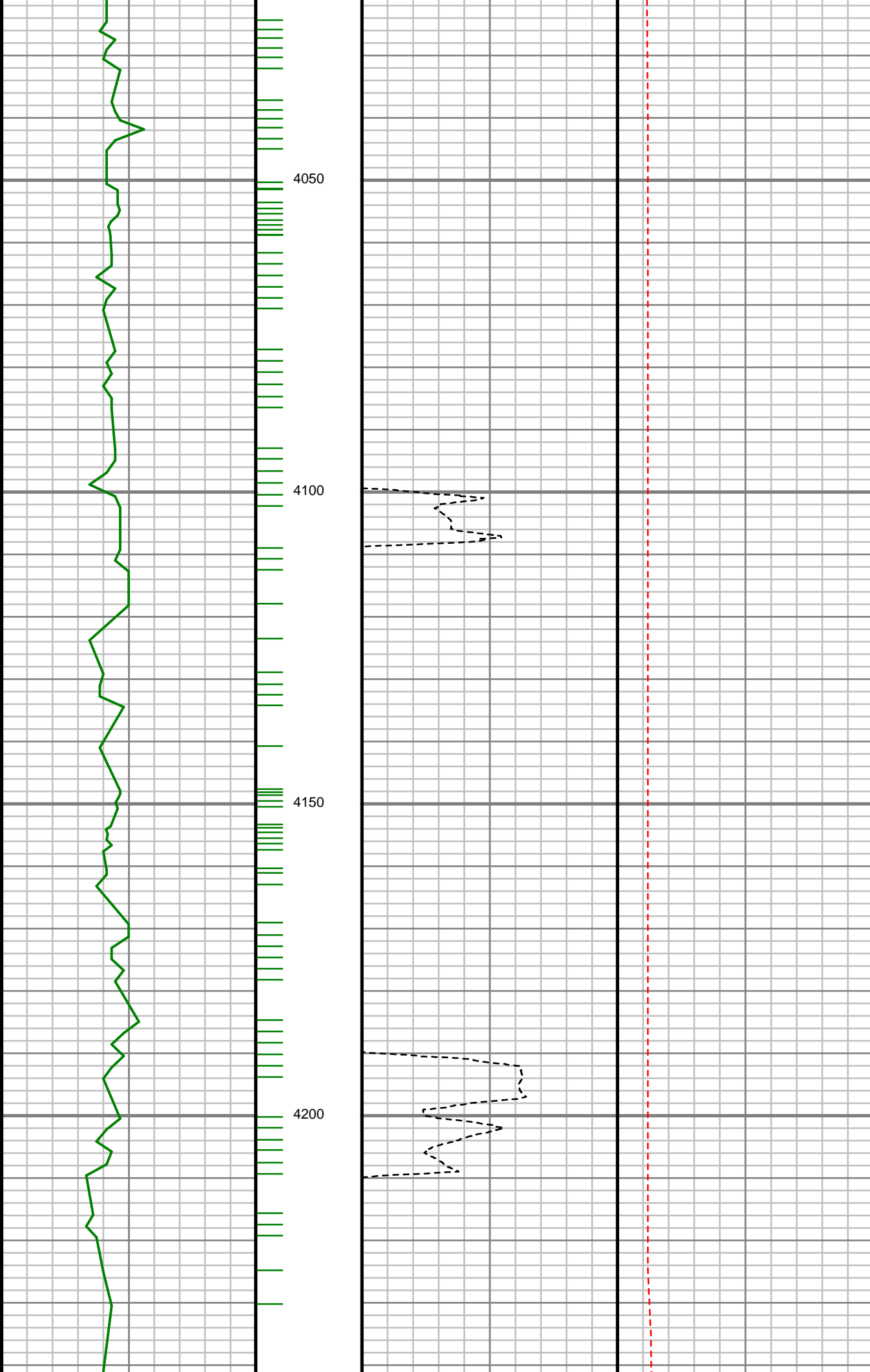
S: 38 MD: 3489.00 ft
Inc: 9.95 deg Az:
240.05 deg TVD:
3477.66 ft

S: 41 MD: 3764.00 ft
Inc: 9.62 deg Az:
245.74 deg TVD:
3749.01 ft



S: 42 MD: 3856.00 ft
Inc: 8.95 deg Az:
246.99 deg TVD:
3839.81 ft

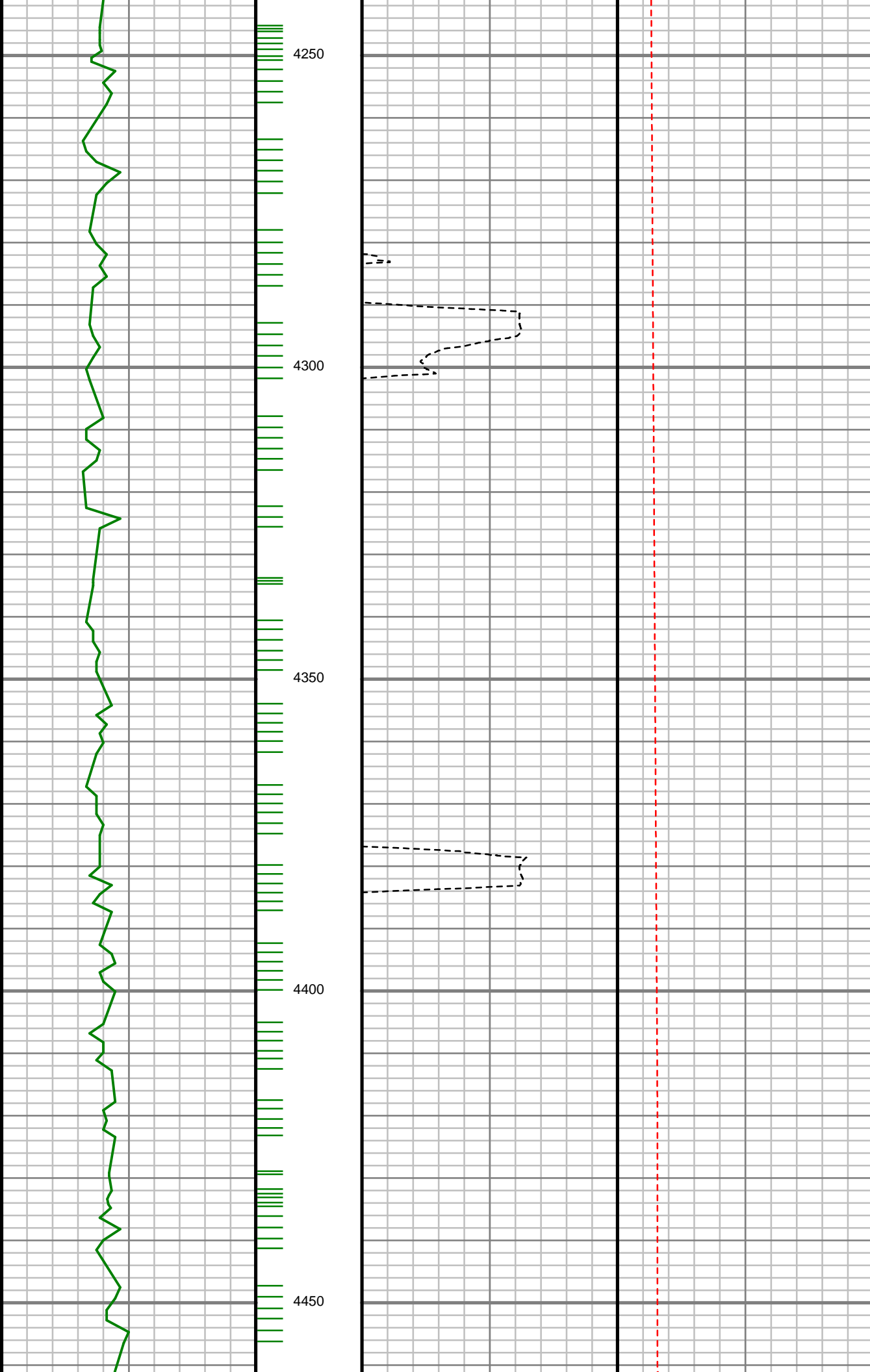
S: 43 MD: 3948.00 ft
Inc: 9.83 deg Az:
243.89 deg TVD:
3930.57 ft



S: 44 MD: 4039.00 ft
Inc: 8.76 deg Az:
239.28 deg TVD:
4020.38 ft

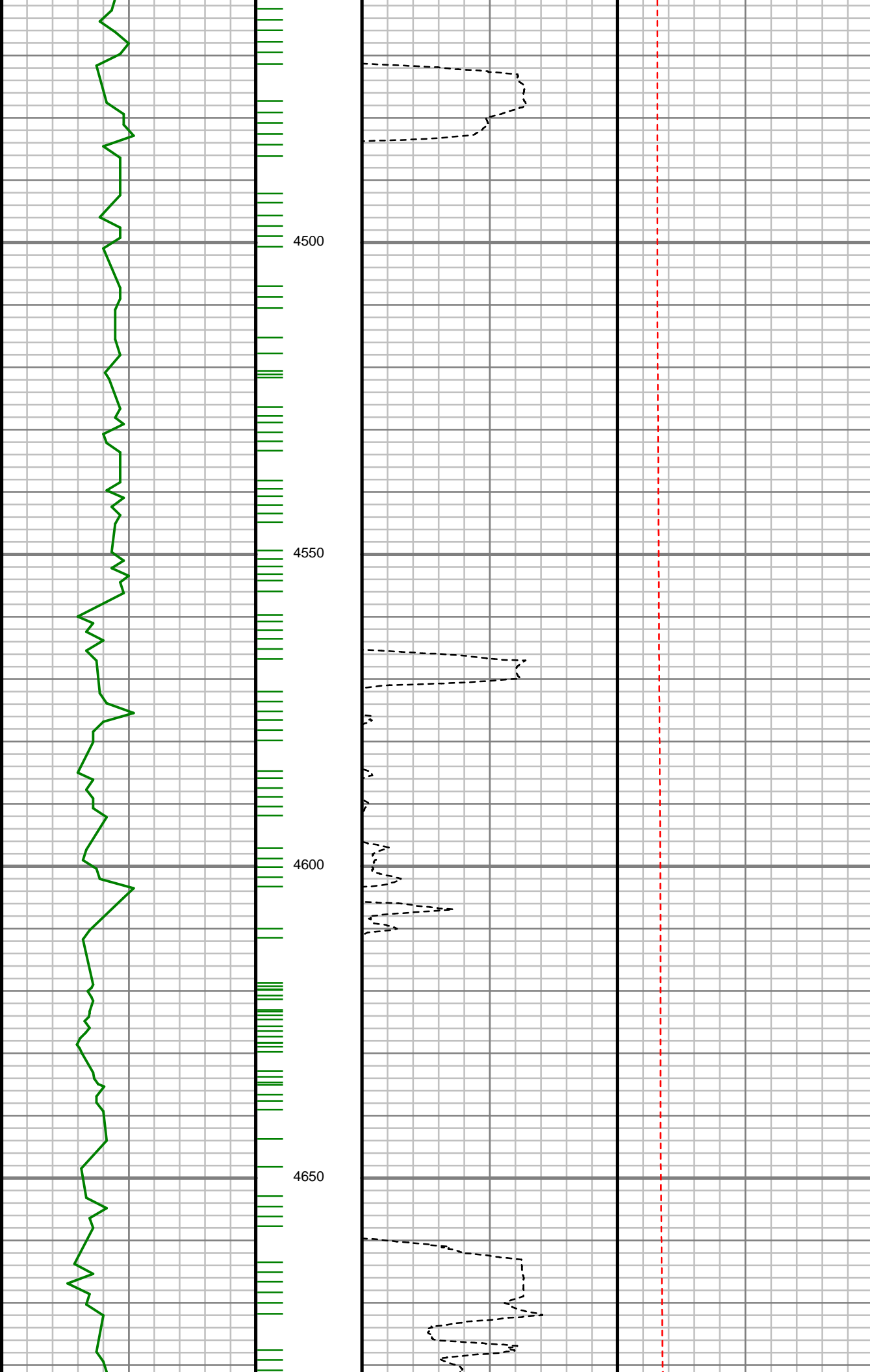
S: 45 MD: 4131.00 ft
Inc: 8.83 deg Az:
238.42 deg TVD:
4111.30 ft

S: 46 MD: 4223.00 ft
Inc: 9.74 deg Az:
232.93 deg TVD:
4202.09 ft



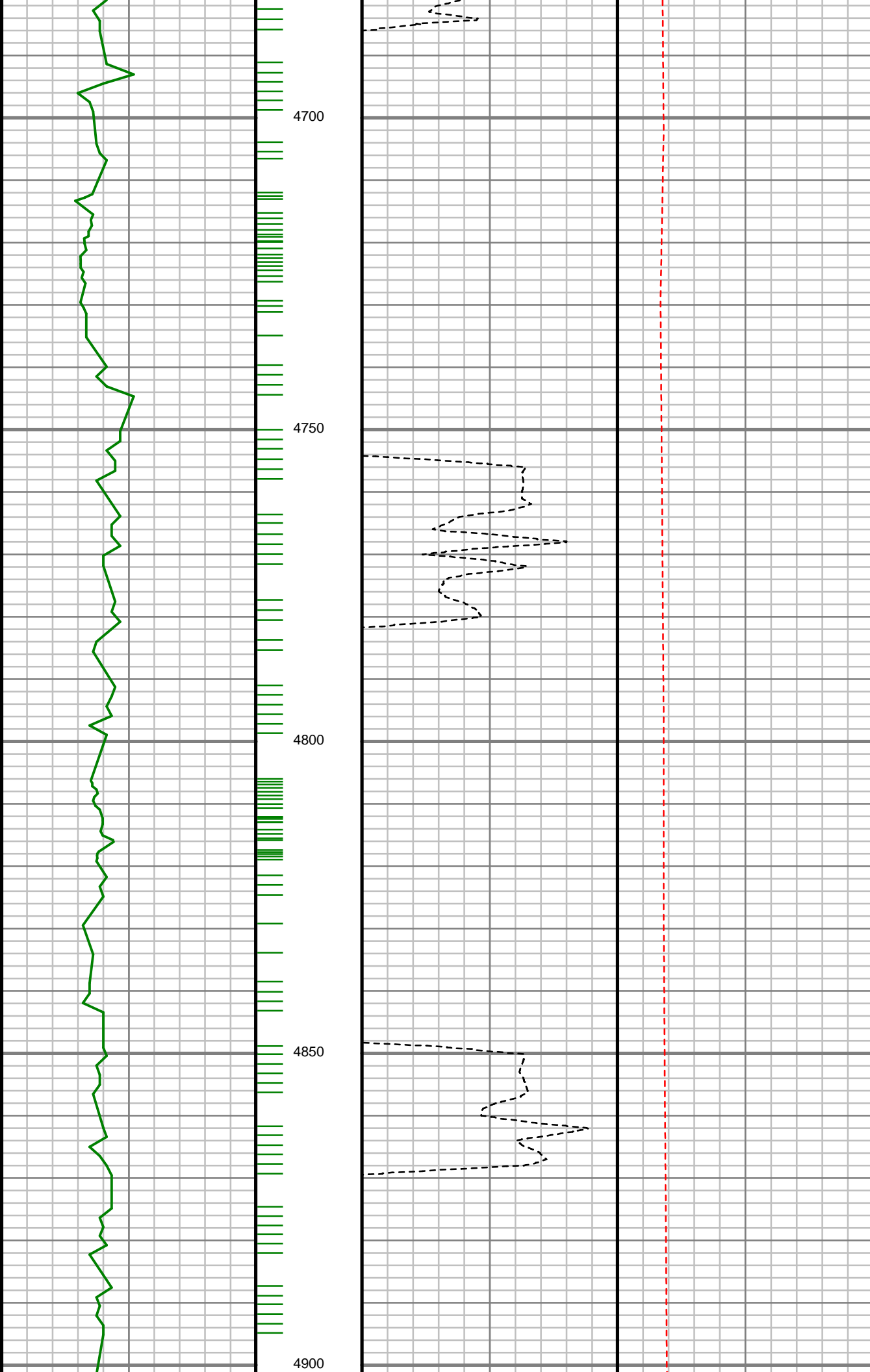
S: 47 MD: 4317.00 ft
Inc: 10.62 deg Az:
235.74 deg TVD:
4294.61 ft

S: 48 MD: 4411.00 ft
Inc: 10.28 deg Az:
234.96 deg TVD:
4387.06 ft



S: 49 MD: 4506.00 ft
Inc: 9.90 deg Az:
243.14 deg TVD:
4480.59 ft

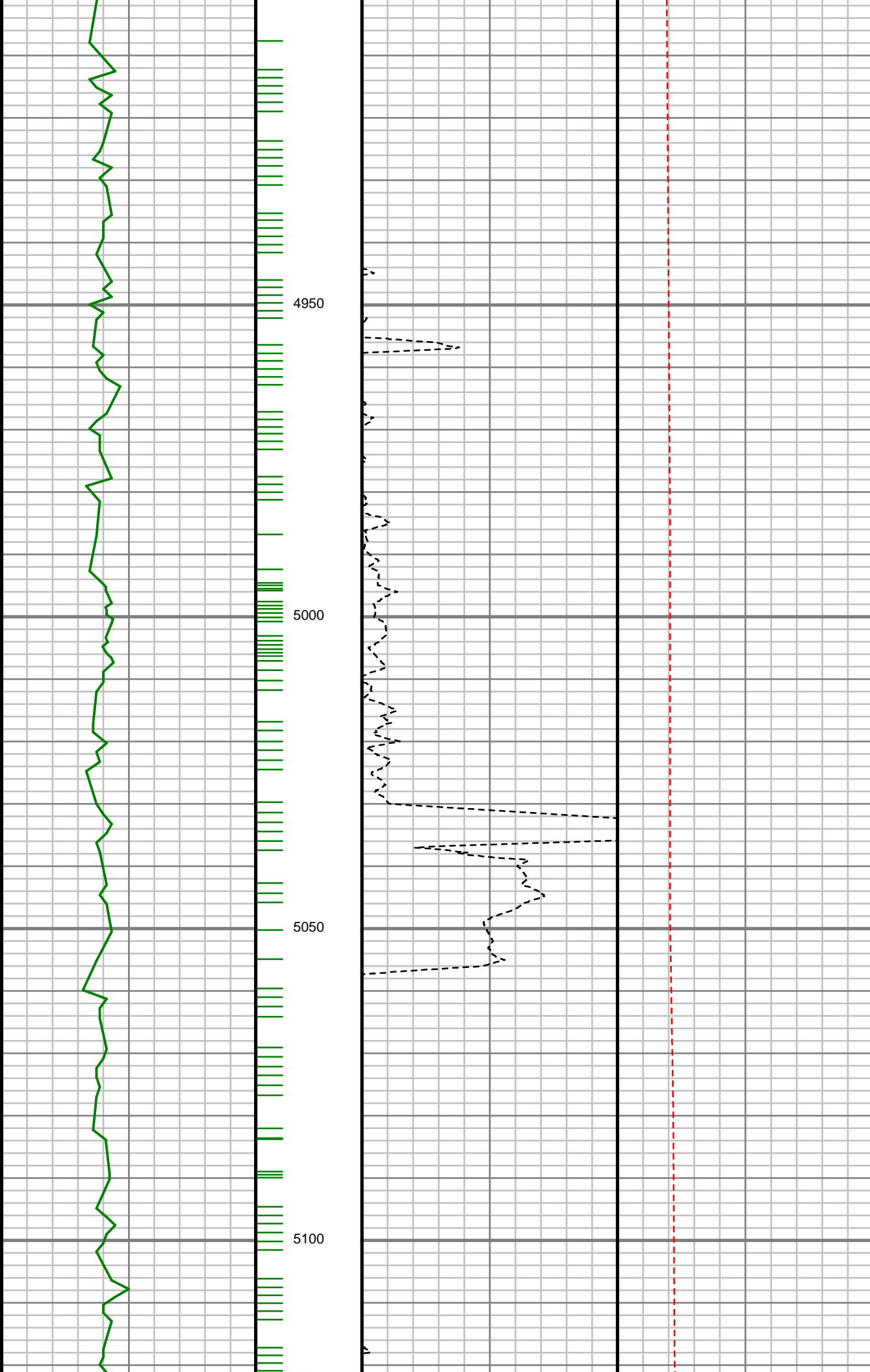
S: 50 MD: 4600.00 ft
Inc: 9.41 deg Az:
247.05 deg TVD:
4573.26 ft



S: 51 MD: 4694.00 ft
Inc: 9.25 deg Az:
246.94 deg TVD:
4666.02 ft

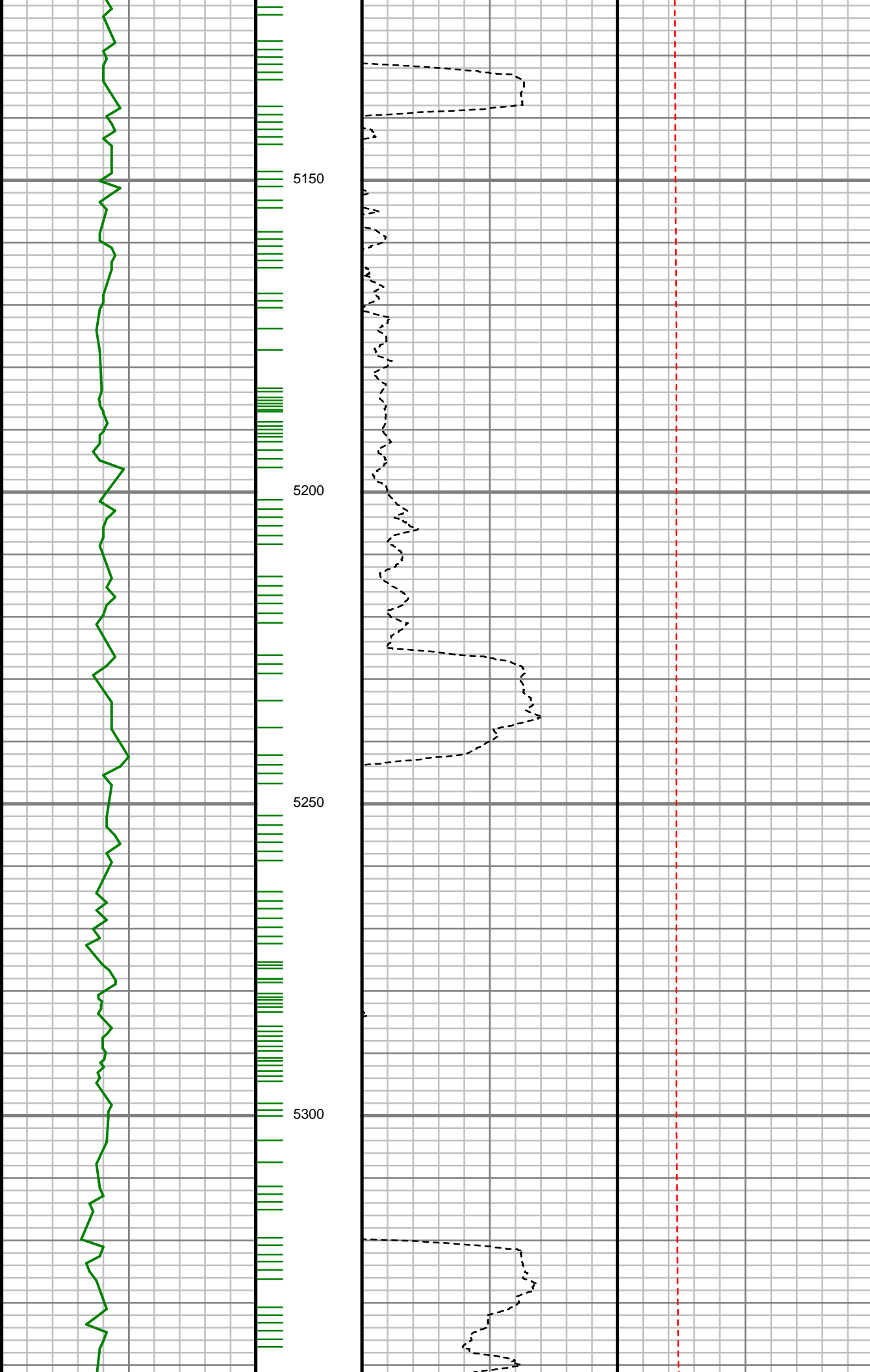
S: 52 MD: 4789.00 ft
Inc: 9.49 deg Az:
238.90 deg TVD:
4759.75 ft

S: 53 MD: 4883.00 ft
Inc: 10.21 deg Az:
238.18 deg TVD:
4852.37 ft



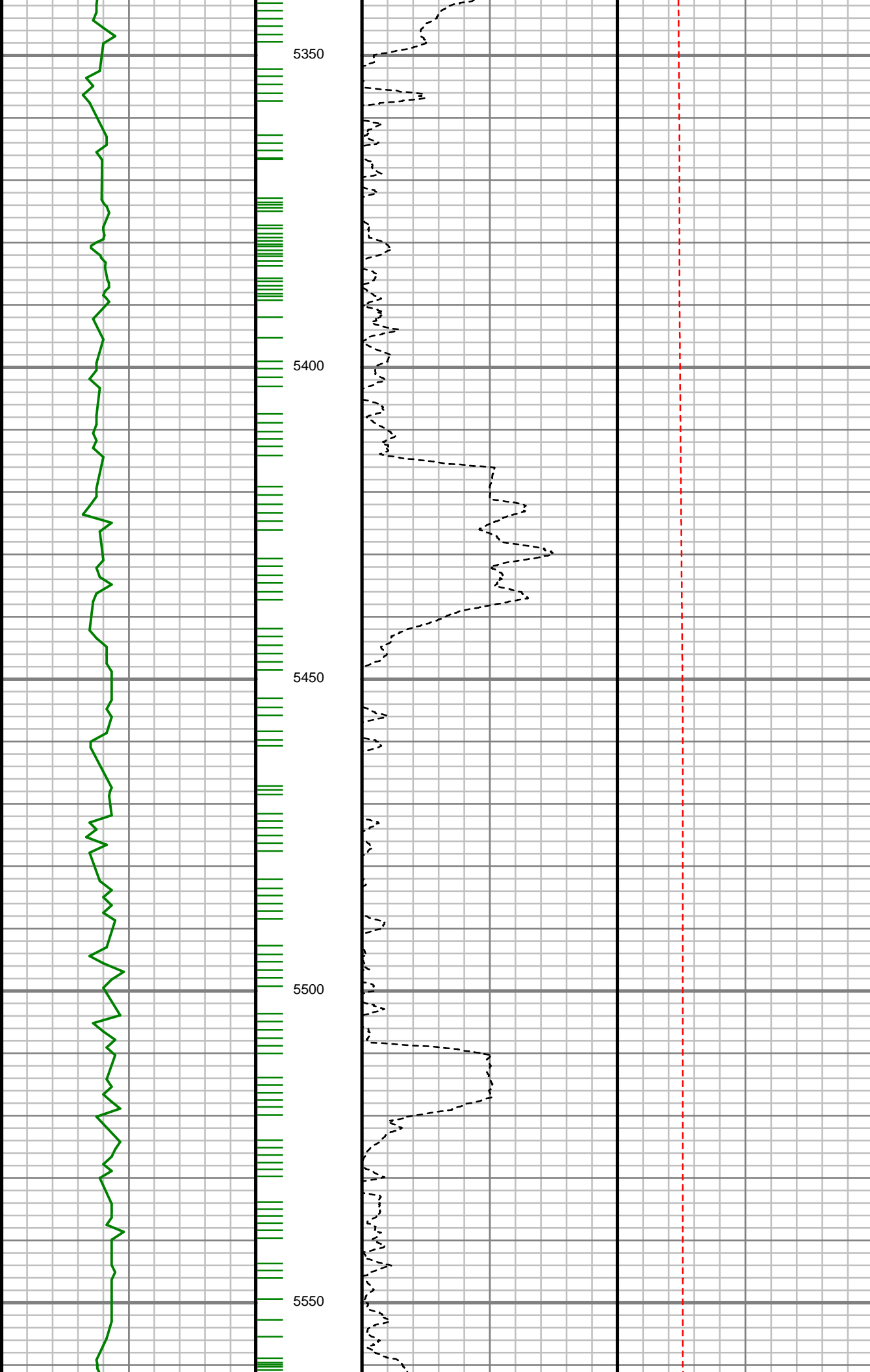
S: 54 MD: 4977.00 ft
Inc: 9.50 deg Az:
234.54 deg TVD:
4944.98 ft

S: 55 MD: 5071.00 ft
Inc: 10.91 deg Az:
234.01 deg TVD:
5037.49 ft



S: 56 MD: 5166.00 ft
Inc: 9.84 deg Az:
230.33 deg TVD:
5130.93 ft

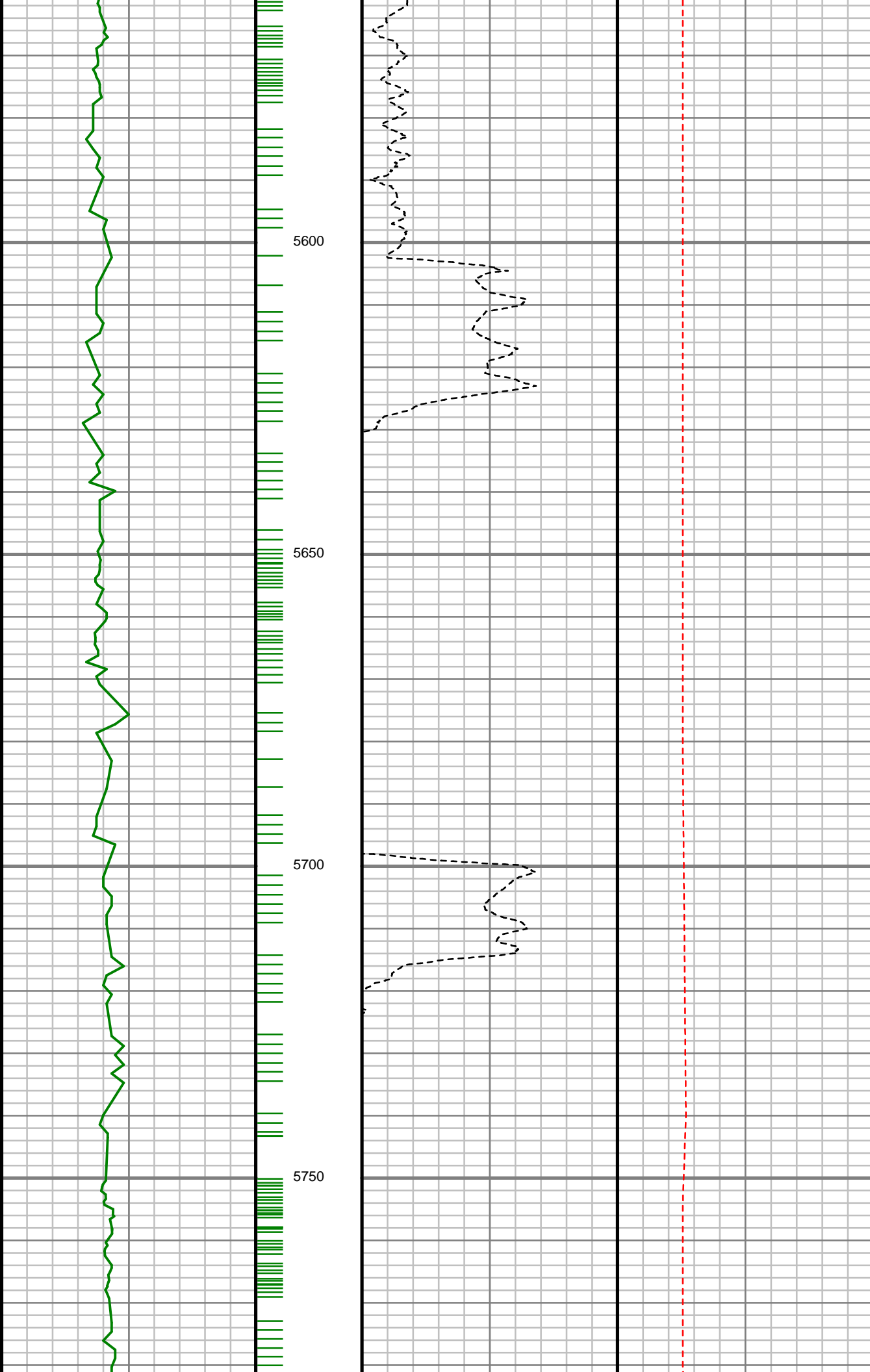
S: 57 MD: 5260.00 ft
Inc: 9.87 deg Az:
234.12 deg TVD:
5223.55 ft



S: 58 MD: 5355.00 ft
Inc: 10.31 deg Az:
239.82 deg TVD:
5317.08 ft

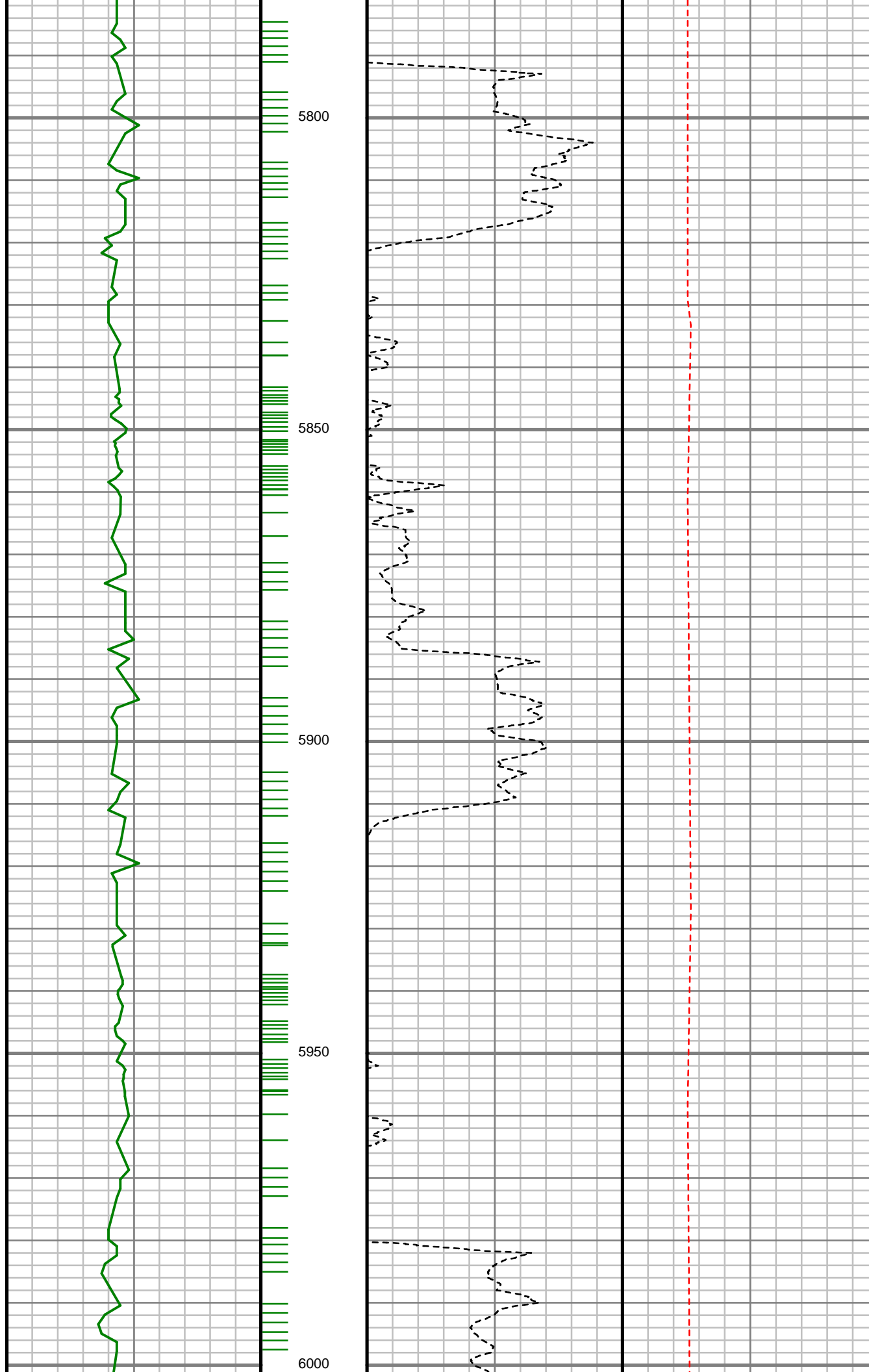
S: 59 MD: 5449.00 ft
Inc: 10.19 deg Az:
241.00 deg TVD:
5409.58 ft

S: 60 MD: 5543.00 ft
Inc: 9.02 deg Az:
237.16 deg TVD:
5502.27 ft



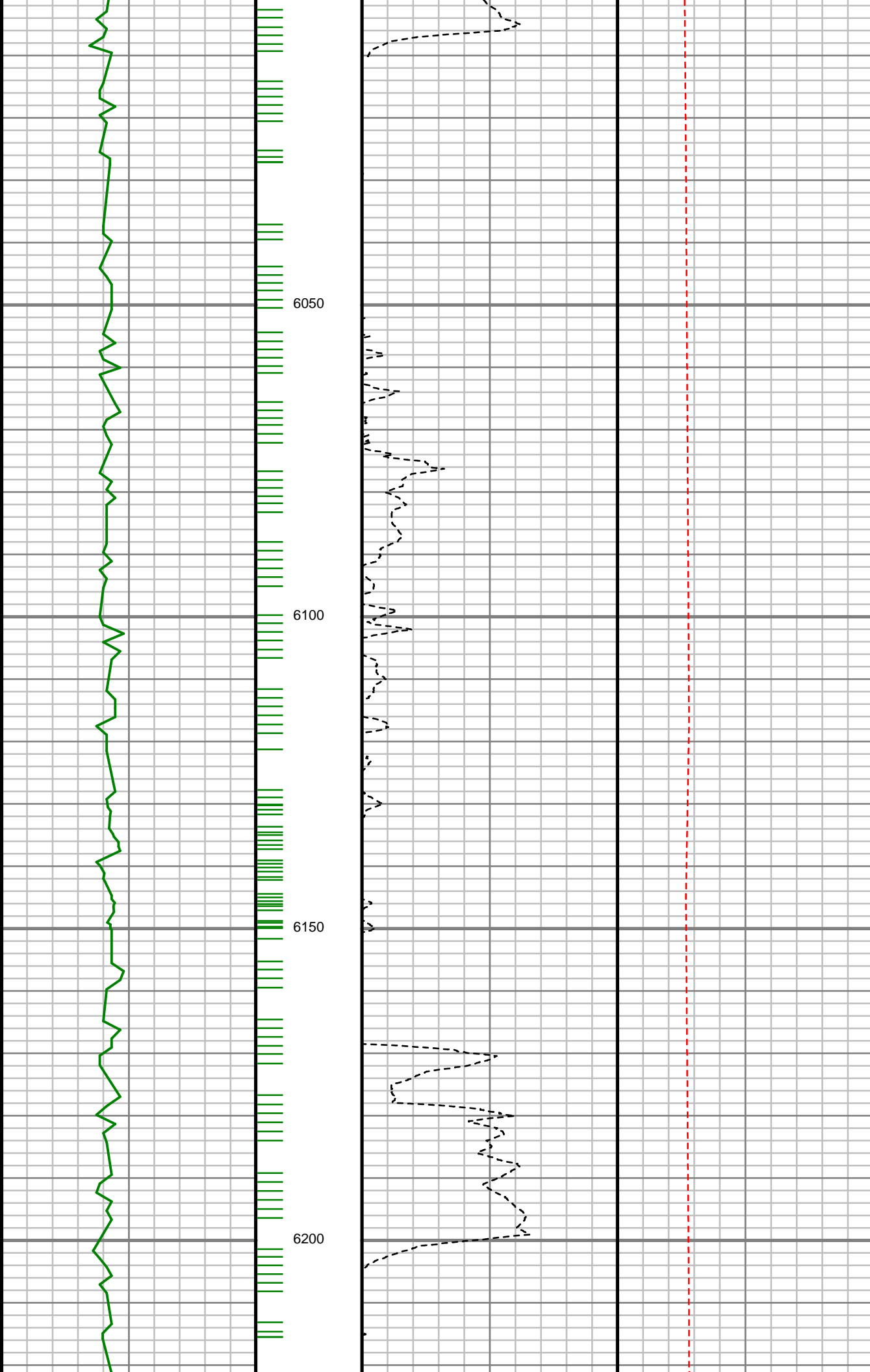
S: 61 MD: 5638.00 ft
Inc: 9.89 deg Az:
240.40 deg TVD:
5595.98 ft

S: 62 MD: 5732.00 ft
Inc: 10.24 deg Az:
239.72 deg TVD:
5688.53 ft



S: 63 MD: 5826.00 ft
Inc: 9.94 deg Az:
236.90 deg TVD:
5781.07 ft

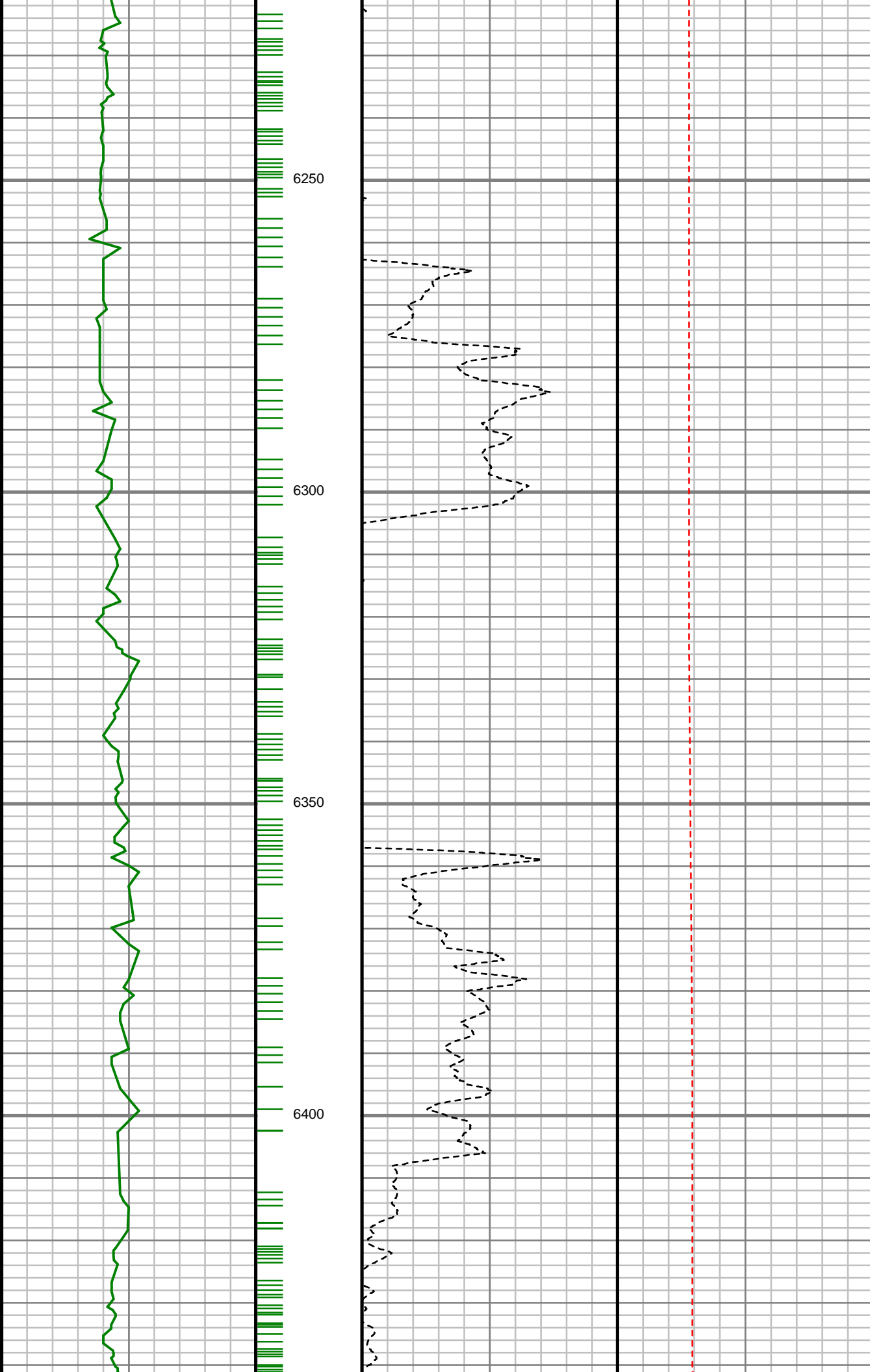
S: 64 MD: 5921.00 ft
Inc: 9.82 deg Az:
226.84 deg TVD:
5874.67 ft



S: 65 MD: 6015.00 ft
Inc: 10.21 deg Az:
236.68 deg TVD:
5967.25 ft

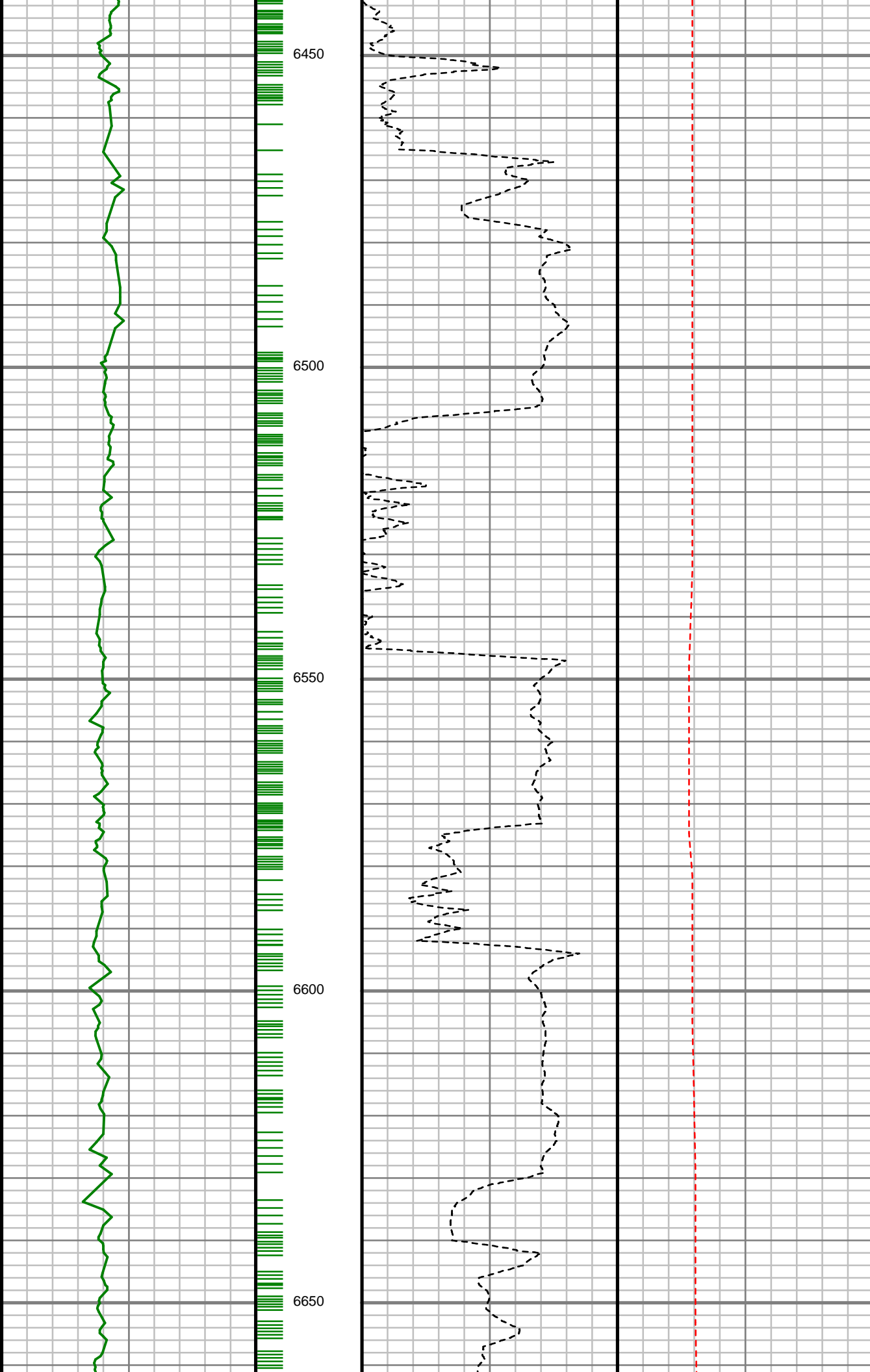
S: 66 MD: 6109.00 ft
Inc: 8.08 deg Az:
235.85 deg TVD:
6060.05 ft

S: 67 MD: 6203.00 ft
Inc: 8.63 deg Az:
229.27 deg TVD:
6153.05 ft



S: 68 MD: 6298.00 ft
Inc: 8.74 deg Az:
225.96 deg TVD:
6246.96 ft

S: 69 MD: 6392.00 ft
Inc: 7.84 deg Az:
231.08 deg TVD:
6339.98 ft

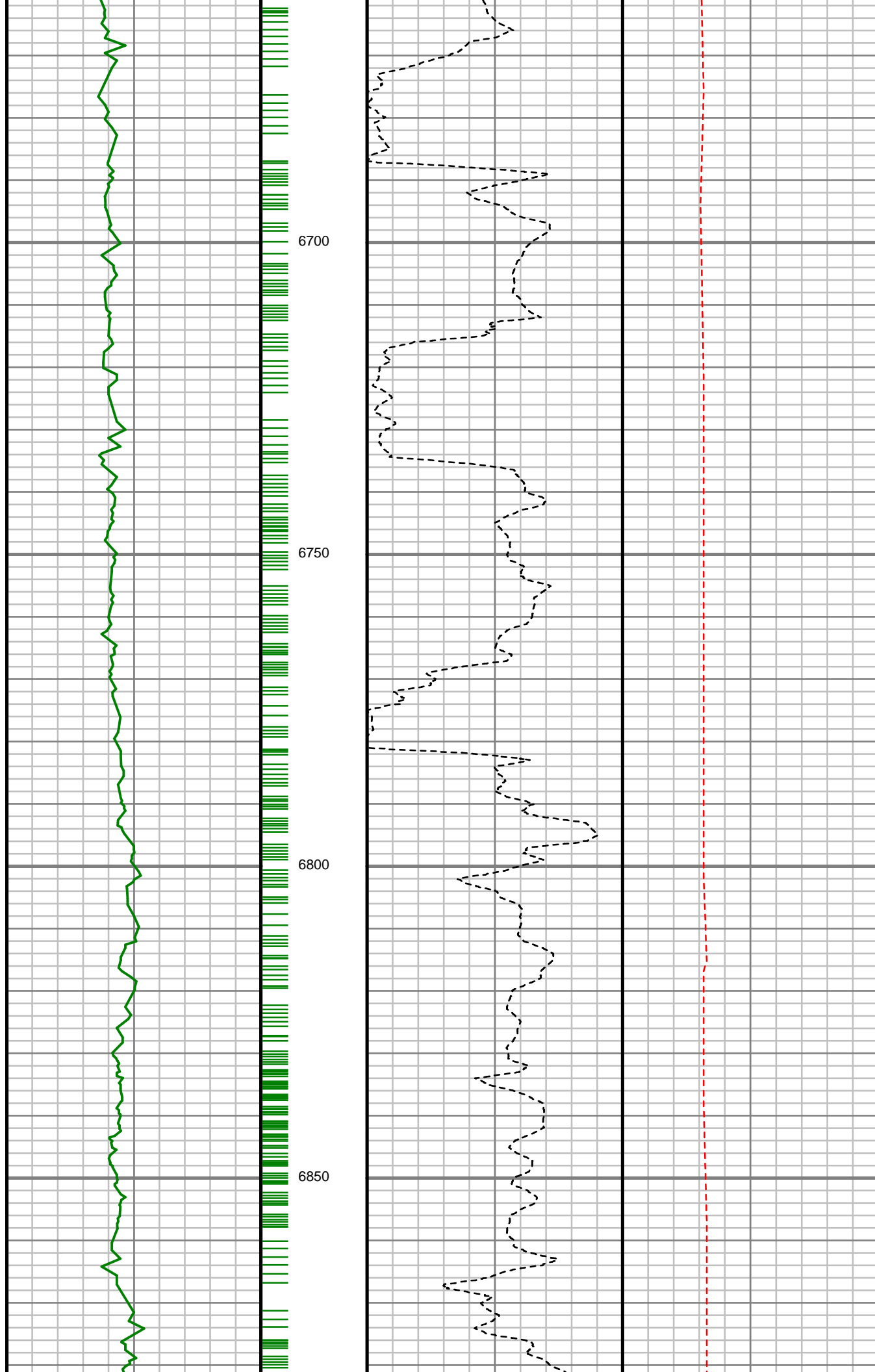


S: 70 MD: 6486.00 ft
Inc: 10.01 deg Az:
230.71 deg TVD:
6432.83 ft

S: 71 MD: 6533.00 ft
Inc: 11.59 deg Az:
234.08 deg TVD:
6479.00 ft

S: 72 MD: 6581.00 ft
Inc: 15.54 deg Az:
236.99 deg TVD:
6525.65 ft

S: 73 MD: 6628.00 ft
Inc: 21.41 deg Az:
241.51 deg TVD:
6570.21 ft



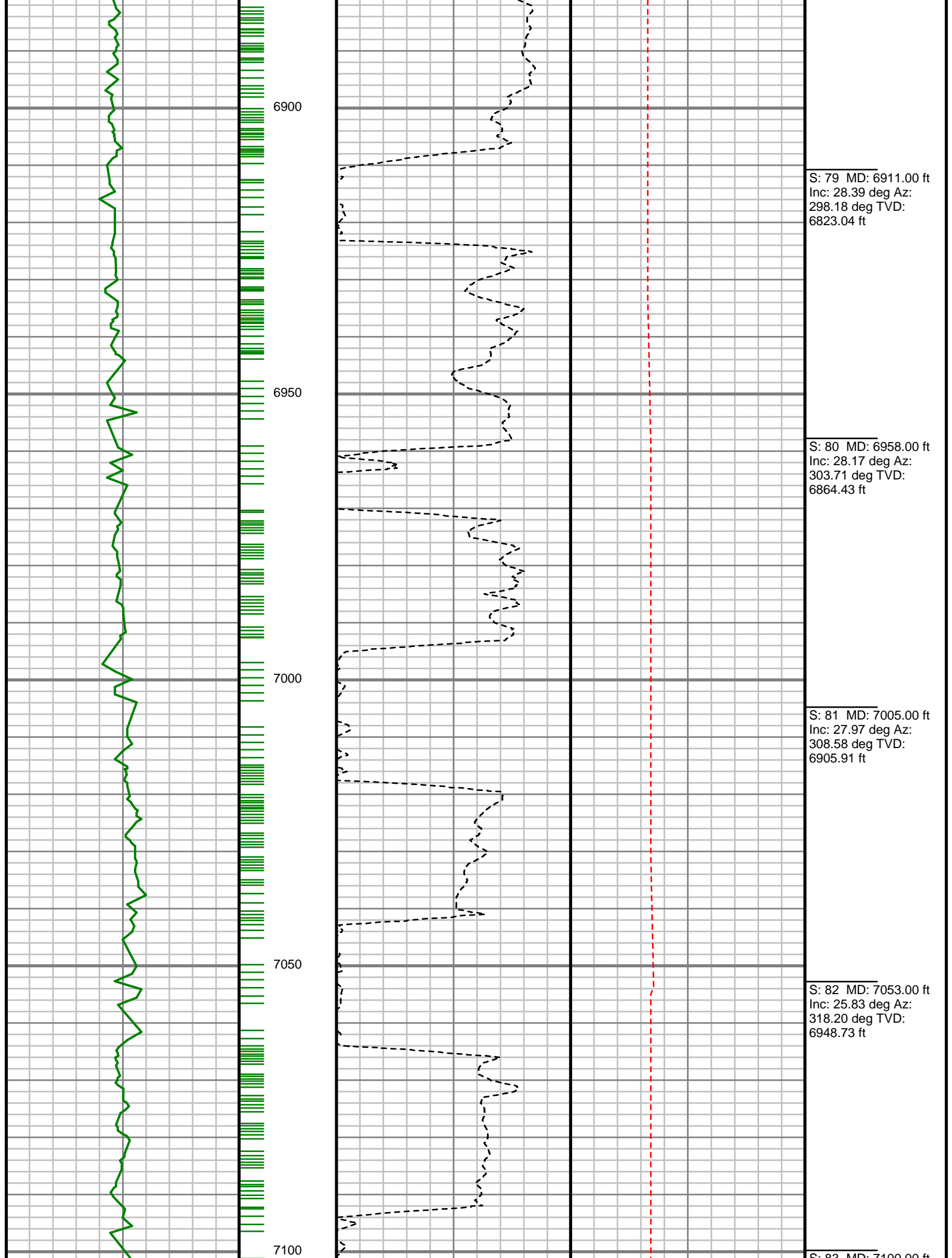
S: 74 MD: 6675.00 ft
Inc: 25.68 deg Az:
249.69 deg TVD:
6613.30 ft

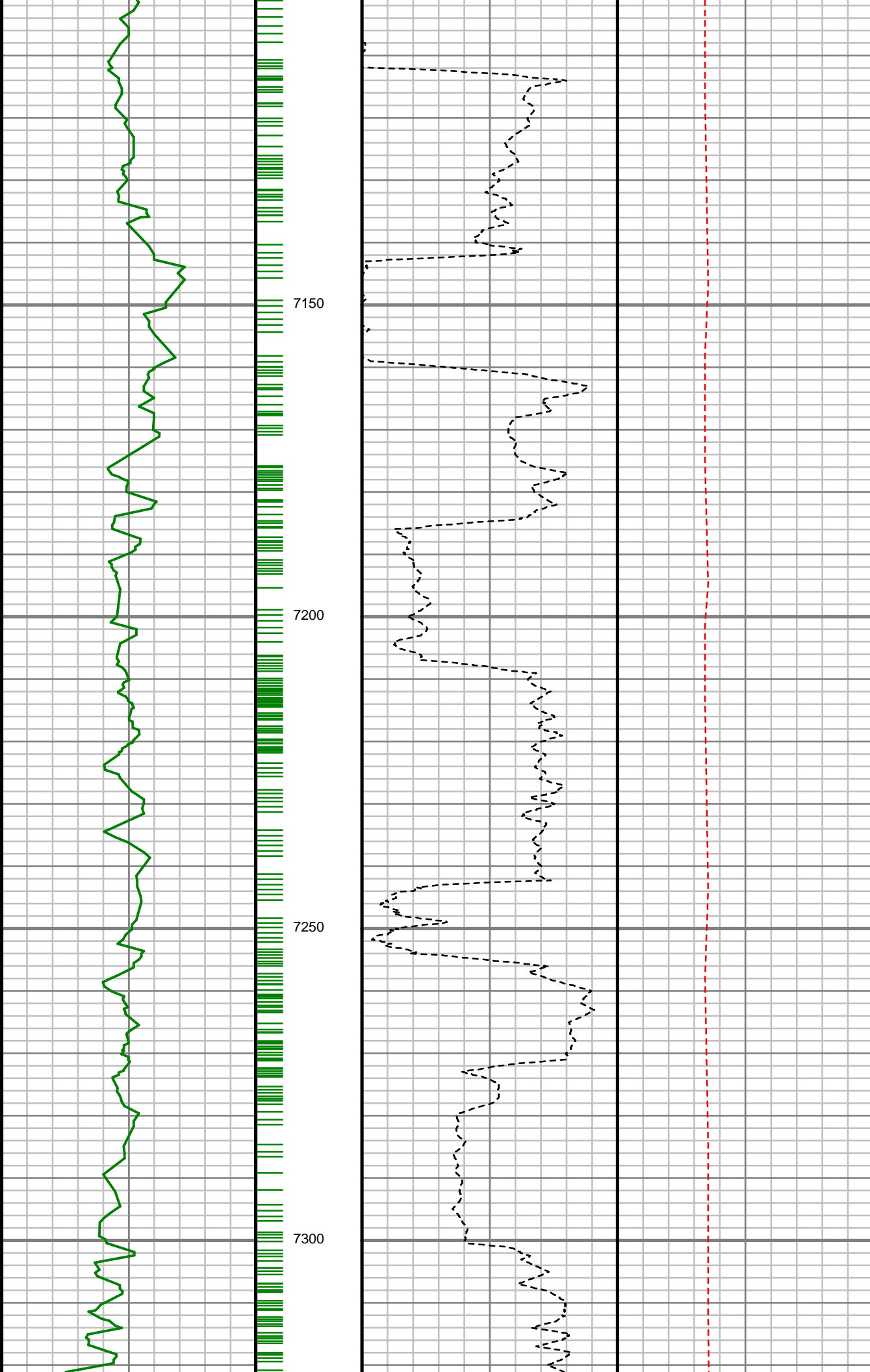
S: 75 MD: 6722.00 ft
Inc: 26.66 deg Az:
258.17 deg TVD:
6655.50 ft

S: 76 MD: 6769.00 ft
Inc: 27.09 deg Az:
266.09 deg TVD:
6697.43 ft

S: 77 MD: 6816.00 ft
Inc: 27.56 deg Az:
273.40 deg TVD:
6739.20 ft

S: 78 MD: 6864.00 ft
Inc: 28.34 deg Az:
287.61 deg TVD:
6781.65 ft





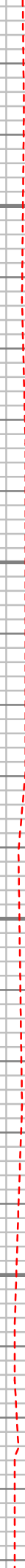
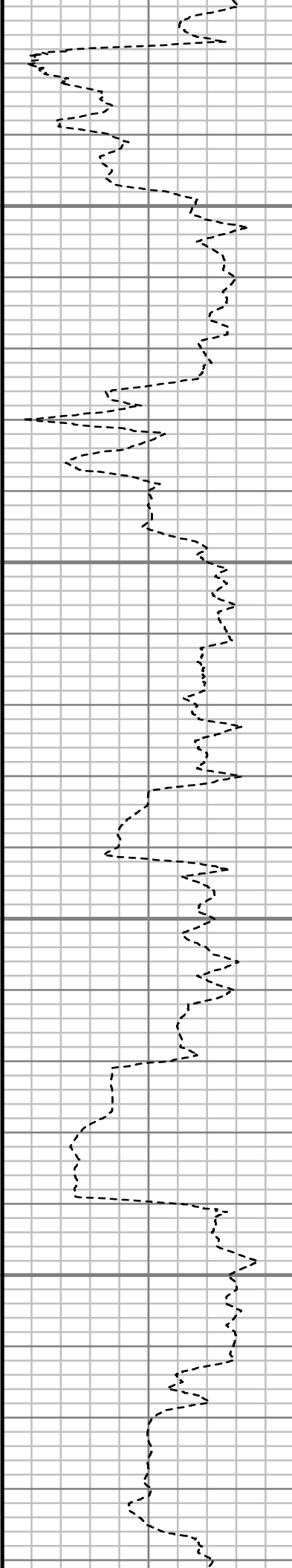
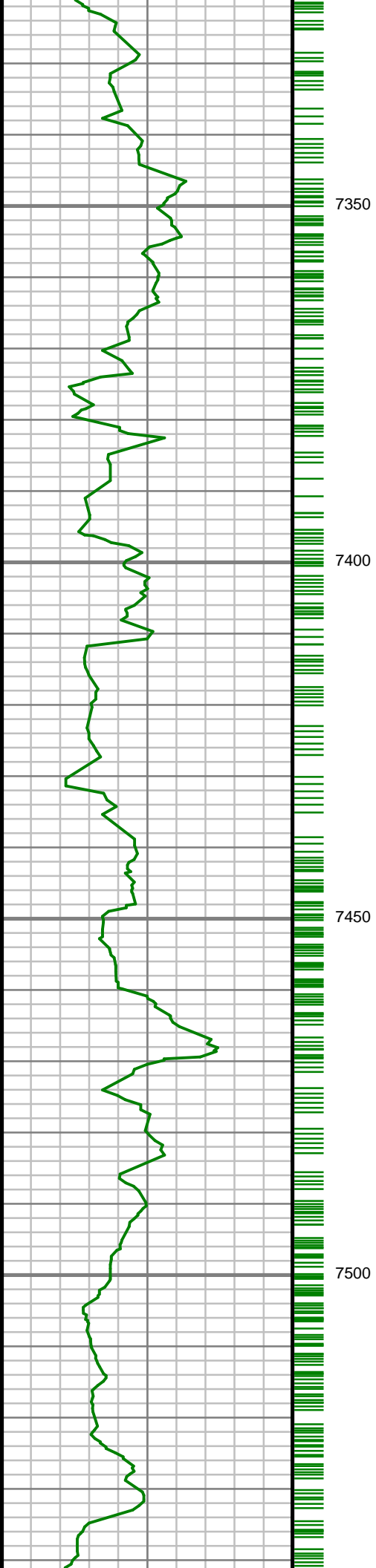
S: 83 MD: 7100.00 ft
Inc: 27.34 deg Az:
329.38 deg TVD:
6990.79 ft

S: 84 MD: 7147.00 ft
Inc: 32.46 deg Az:
332.32 deg TVD:
7031.52 ft

S: 85 MD: 7194.00 ft
Inc: 36.28 deg Az:
328.89 deg TVD:
7070.31 ft

S: 86 MD: 7241.00 ft
Inc: 39.74 deg Az:
330.03 deg TVD:
7107.34 ft

S: 87 MD: 7288.00 ft
Inc: 42.38 deg Az:
329.49 deg TVD:
7142.77 ft



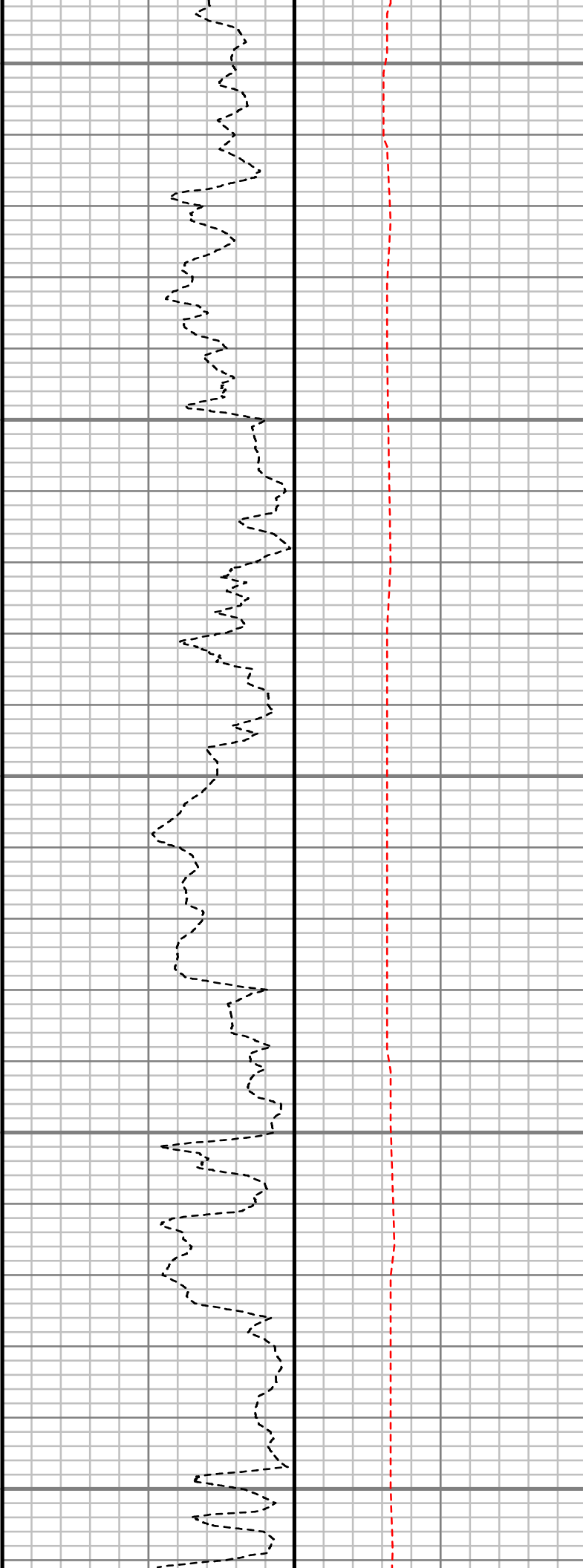
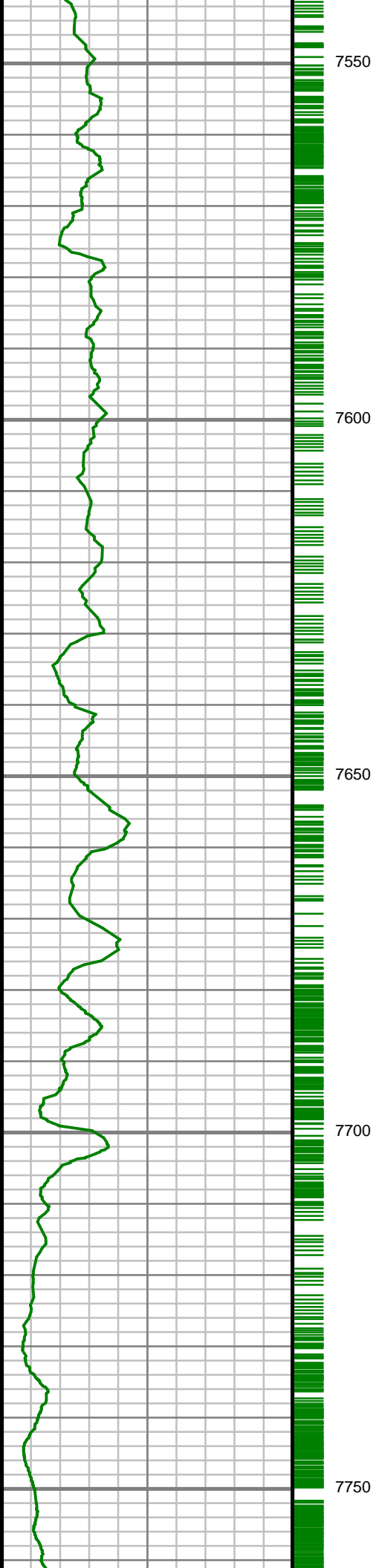
S: 88 MD: 7335.00 ft
Inc: 45.82 deg Az:
328.88 deg TVD:
7176.52 ft

S: 89 MD: 7382.00 ft
Inc: 50.82 deg Az:
331.04 deg TVD:
7207.77 ft

S: 90 MD: 7430.00 ft
Inc: 56.70 deg Az:
333.88 deg TVD:
7236.14 ft

S: 91 MD: 7477.00 ft
Inc: 62.08 deg Az:
335.42 deg TVD:
7260.06 ft

S: 92 MD: 7524.00 ft
Inc: 66.69 deg Az:
338.68 deg TVD:
7280.38 ft



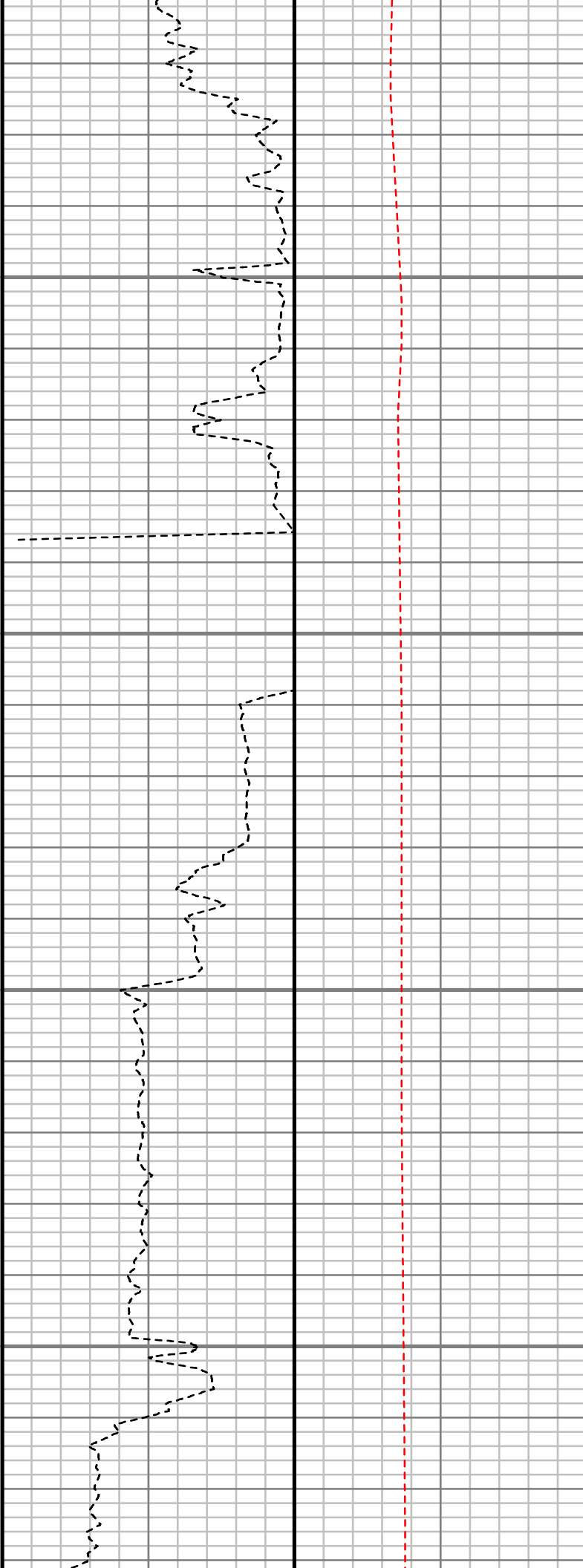
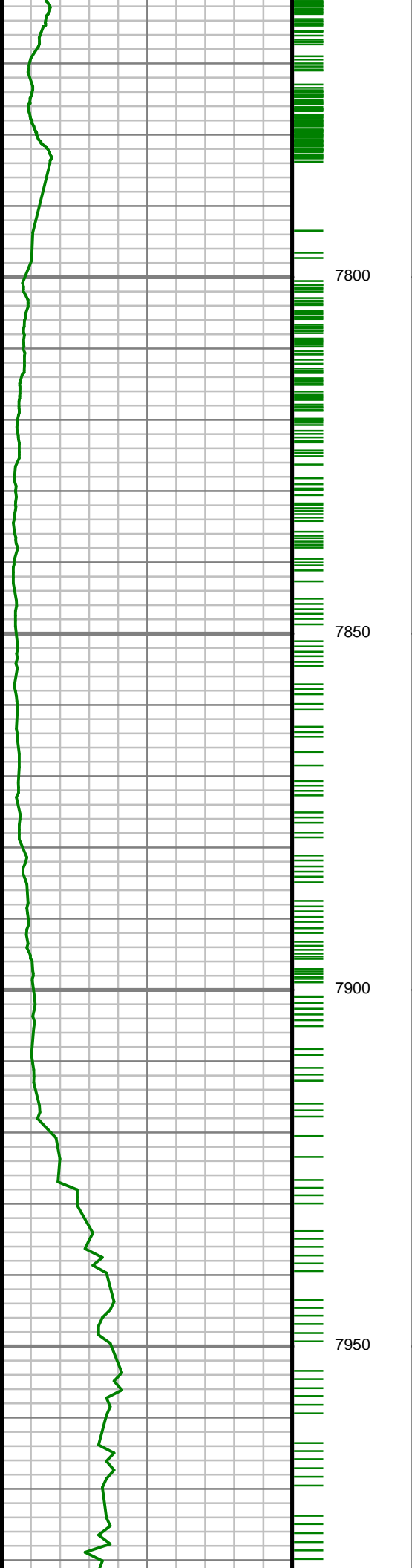
S: 93 MD: 7571.00 ft
Inc: 68.67 deg Az:
344.79 deg TVD:
7298.24 ft

S: 94 MD: 7618.00 ft
Inc: 69.80 deg Az:
348.90 deg TVD:
7314.91 ft

S: 95 MD: 7665.00 ft
Inc: 71.65 deg Az:
352.11 deg TVD:
7330.43 ft

S: 96 MD: 7713.00 ft
Inc: 77.65 deg Az:
352.80 deg TVD:
7343.13 ft

S: 97 MD: 7760.00 ft

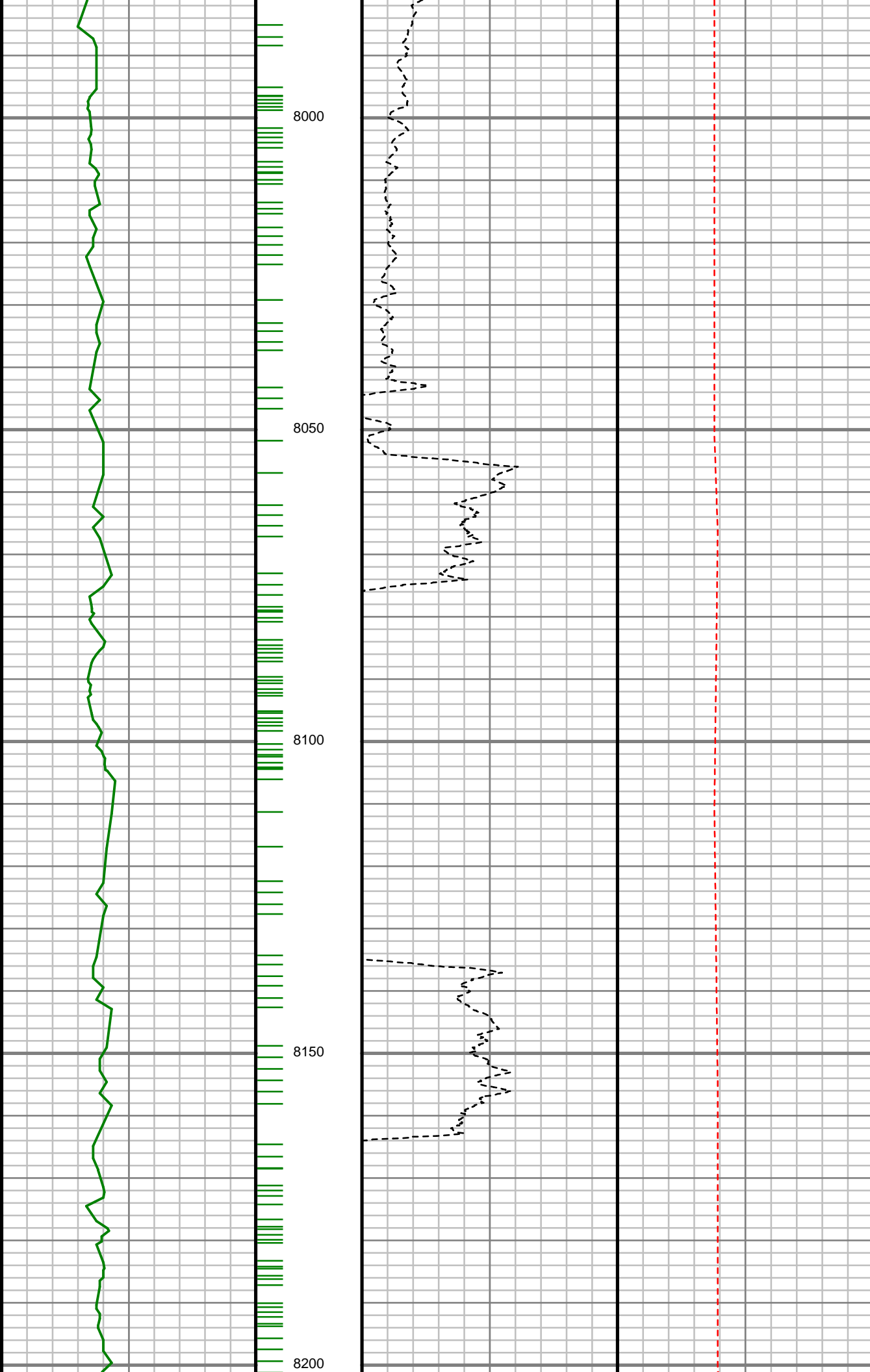


S: 97 MD: 7780.00 ft
Inc: 81.34 deg Az:
353.06 deg TVD:
7351.70 ft

S: 98 MD: 7773.00 ft
Inc: 82.42 deg Az:
353.22 deg TVD:
7353.53 ft

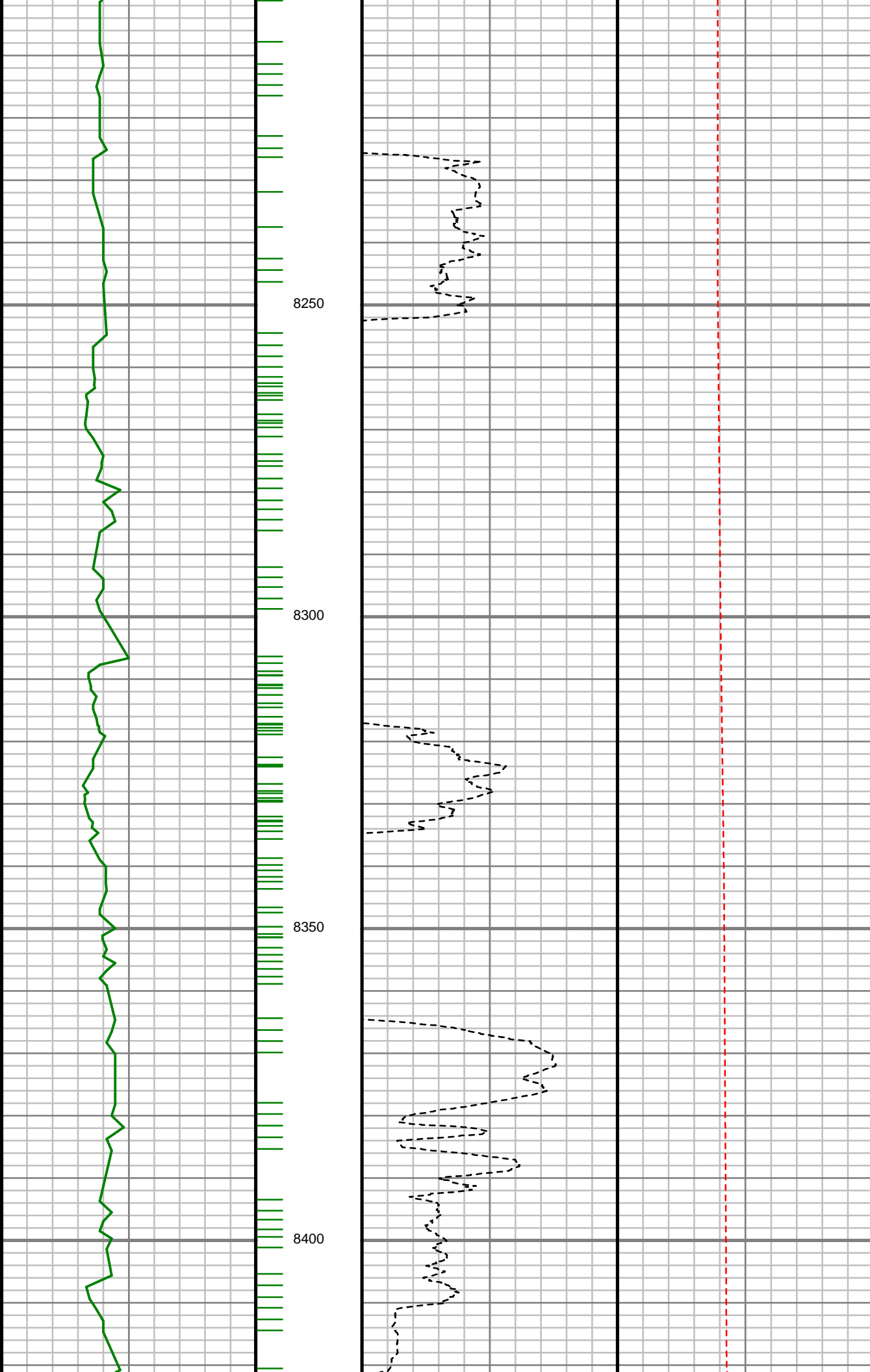
S: 99 MD: 7881.00 ft
Inc: 89.13 deg Az:
357.12 deg TVD:
7361.49 ft

S: 100 MD: 7973.00 ft
Inc: 88.79 deg Az:
357.12 deg TVD:
7361.49 ft



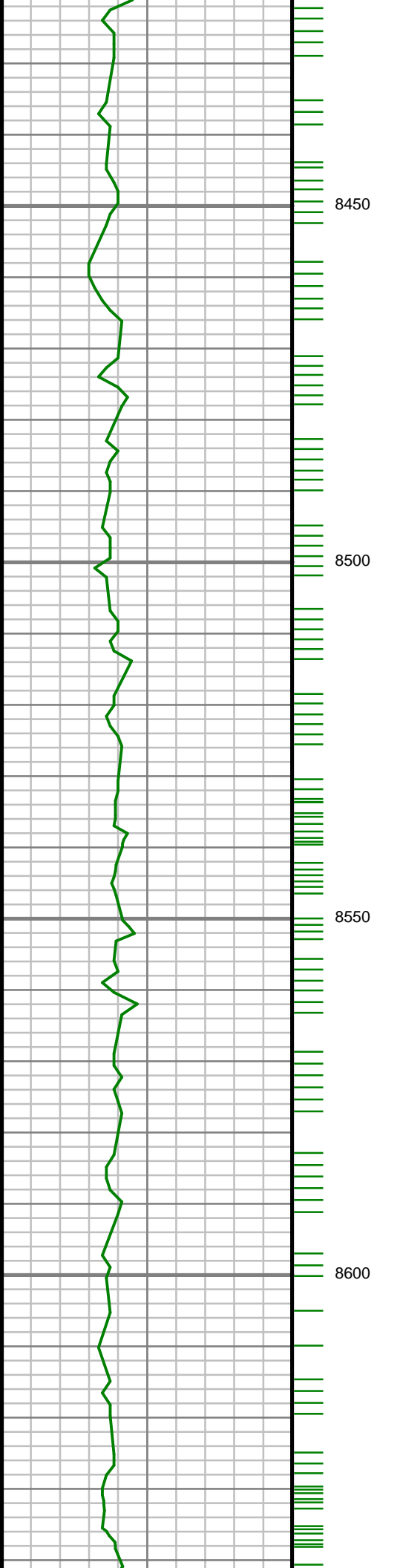
S: 101 MD: 8064.00 ft
Inc: 89.16 deg Az:
357.23 deg TVD:
7364.78 ft

S: 102 MD: 8156.00 ft
Inc: 89.50 deg Az:
358.89 deg TVD:
7365.86 ft



S: 103 MD: 8247.00 ft
Inc: 89.43 deg Az: 1.12
deg TVD: 7366.71 ft

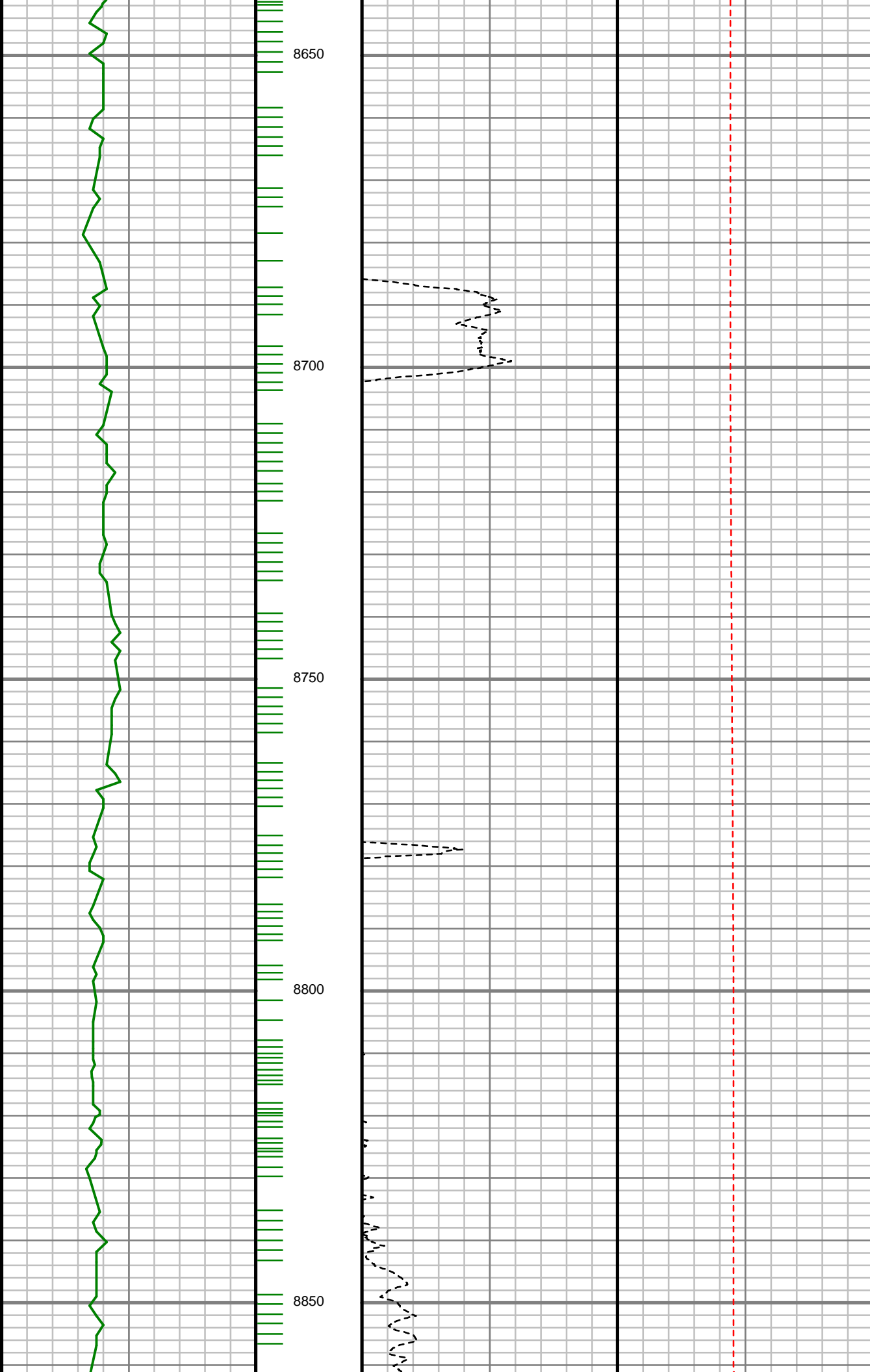
S: 104 MD: 8339.00 ft
Inc: 89.60 deg Az: 2.96
deg TVD: 7367.49 ft



S: 105 MD: 8431.00 ft
Inc: 90.44 deg Az: 2.49
deg TVD: 7367.47 ft

S: 106 MD: 8522.00 ft
Inc: 90.94 deg Az: 1.83
deg TVD: 7366.37 ft

S: 107 MD: 8614.00 ft
Inc: 89.83 deg Az: 0.97
deg TVD: 7365.75 ft



8650

8700

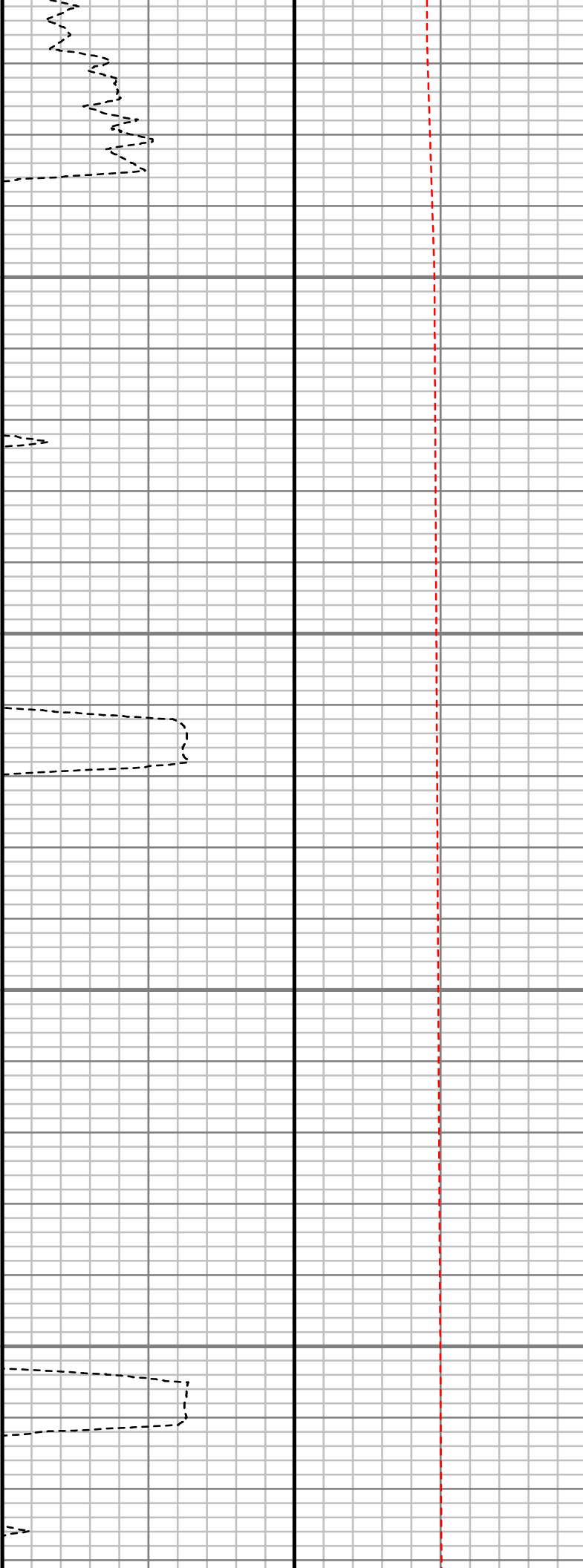
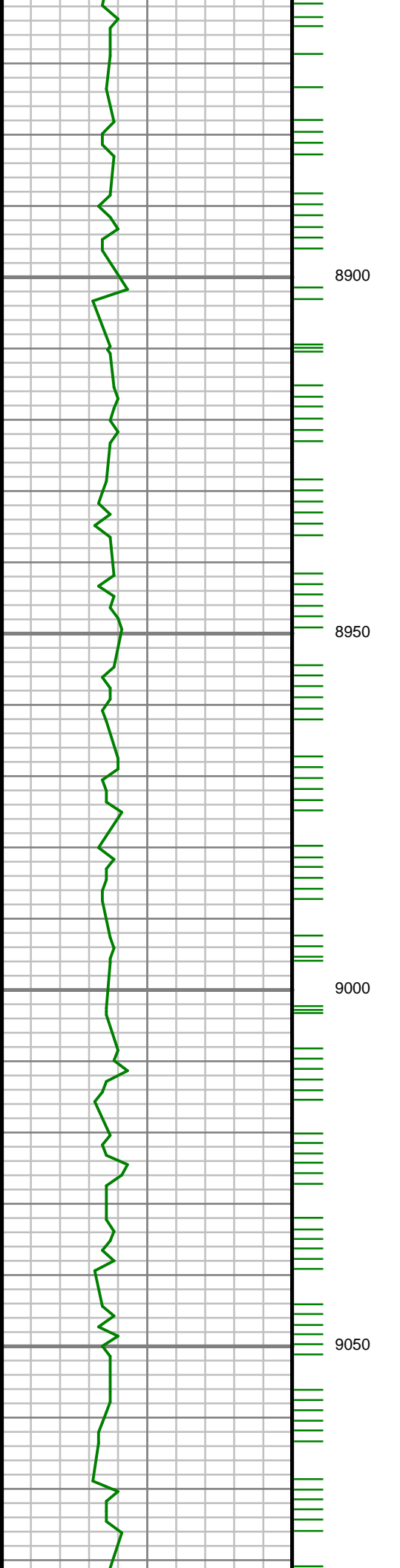
8750

8800

8850

S: 108 MD: 8705.00 ft
Inc: 89.16 deg Az: 1.53
deg TVD: 7366.55 ft

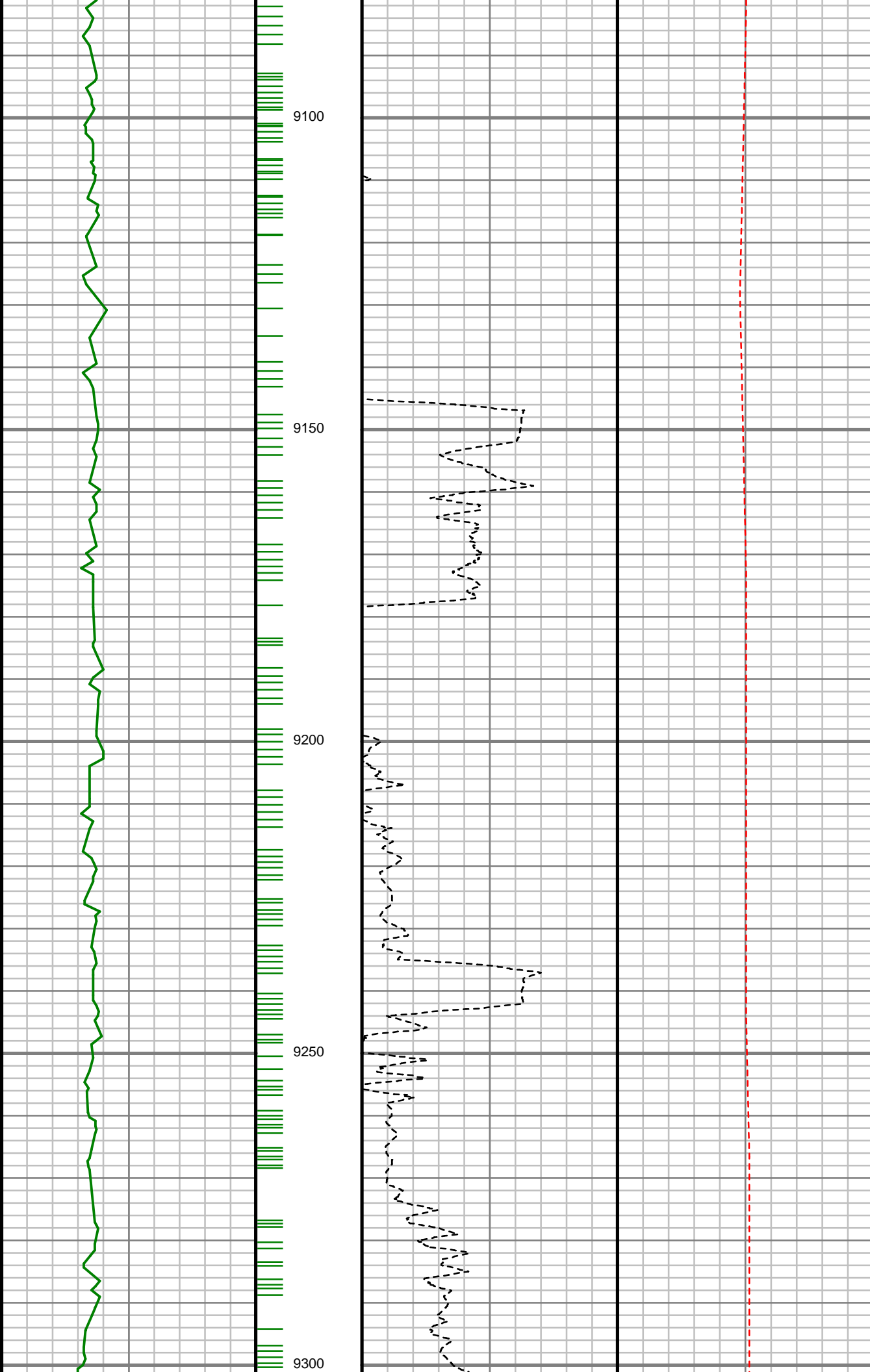
S: 109 MD: 8797.00 ft
Inc: 89.66 deg Az: 1.25
deg TVD: 7367.50 ft



S: 110 MD: 8889.00 ft
Inc: 89.80 deg Az: 2.09
deg TVD: 7367.93 ft

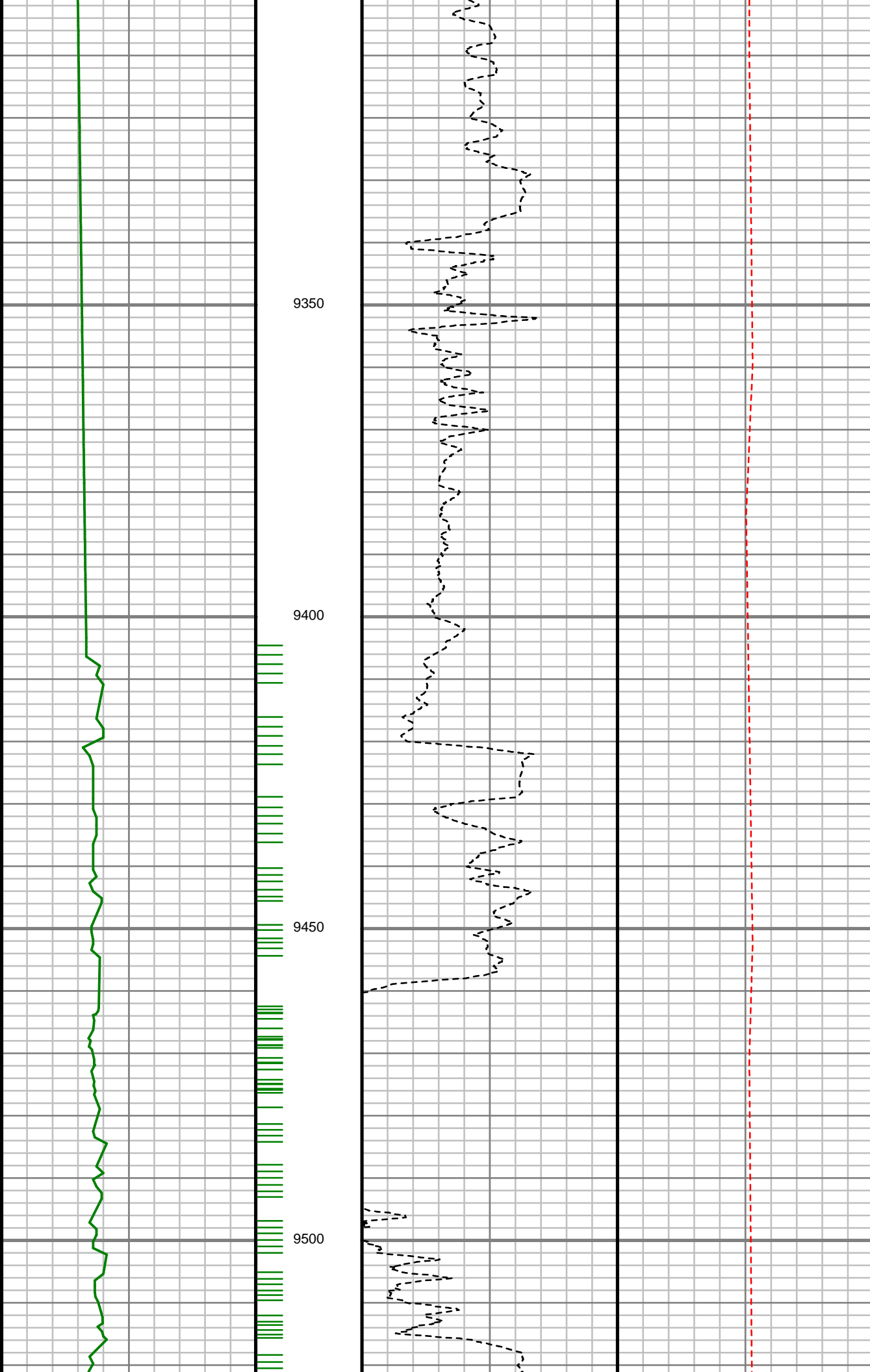
S: 111 MD: 8980.00 ft
Inc: 90.30 deg Az: 1.56
deg TVD: 7367.85 ft

S: 112 MD: 9072.00 ft
Inc: 90.37 deg Az: 0.75
deg TVD: 7367.31 ft



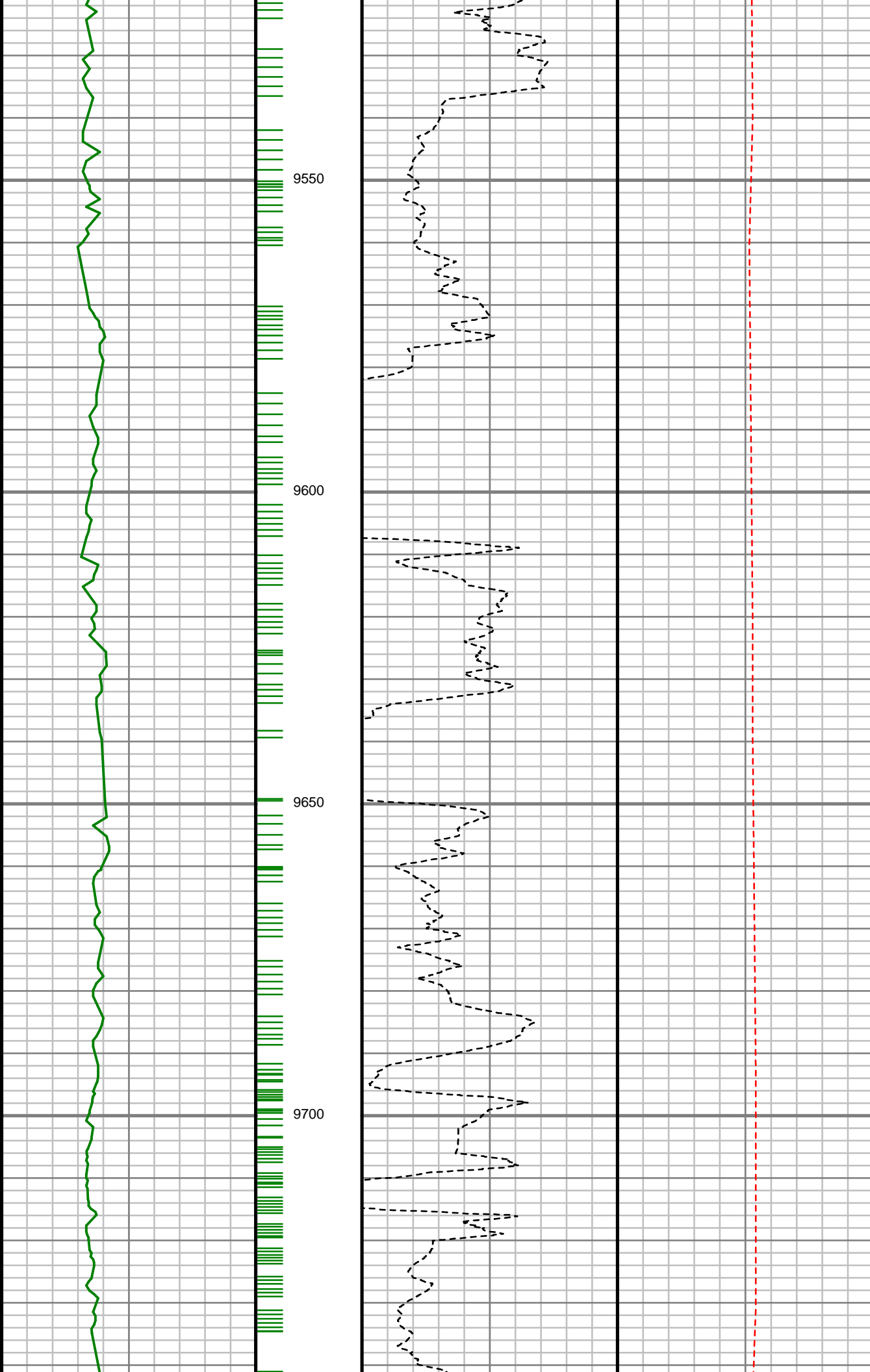
S: 113 MD: 9164.00 ft
Inc: 90.17 deg Az: 1.76
deg TVD: 7366.88 ft

S: 114 MD: 9255.00 ft
Inc: 90.74 deg Az: 1.90
deg TVD: 7366.16 ft



S: 115 MD: 9347.00 ft
Inc: 90.07 deg Az: 1.06
deg TVD: 7365.51 ft

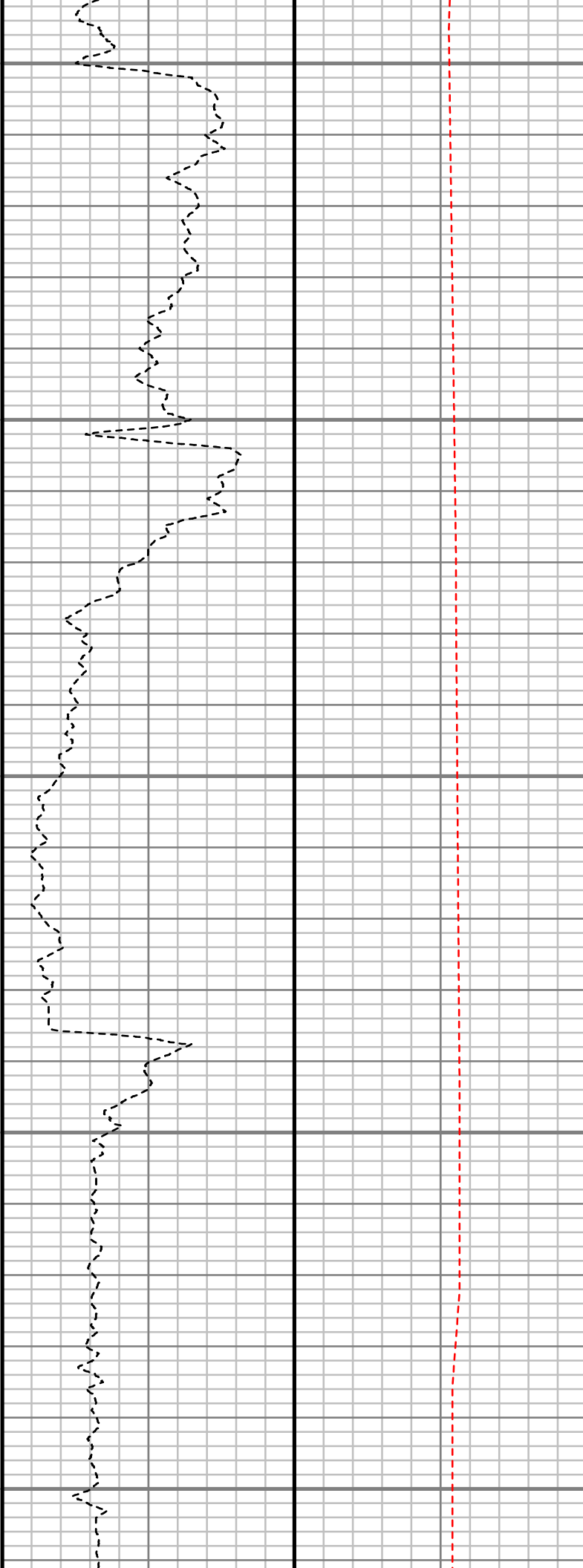
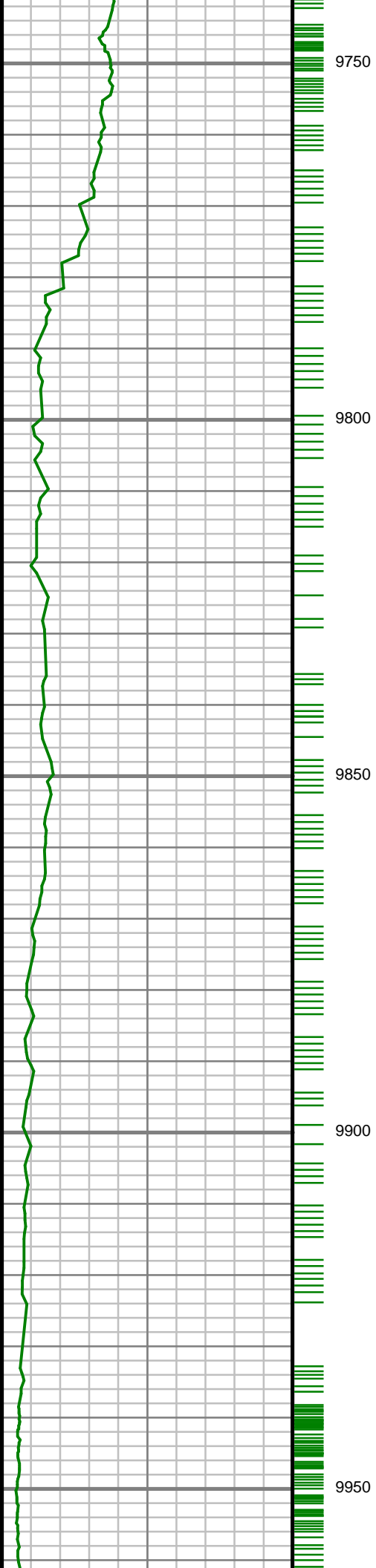
S: 116 MD: 9439.00 ft
Inc: 90.77 deg Az: 2.04
deg TVD: 7364.84 ft



S: 117 MD: 9533.00 ft
Inc: 88.56 deg Az: 1.65
deg TVD: 7365.39 ft

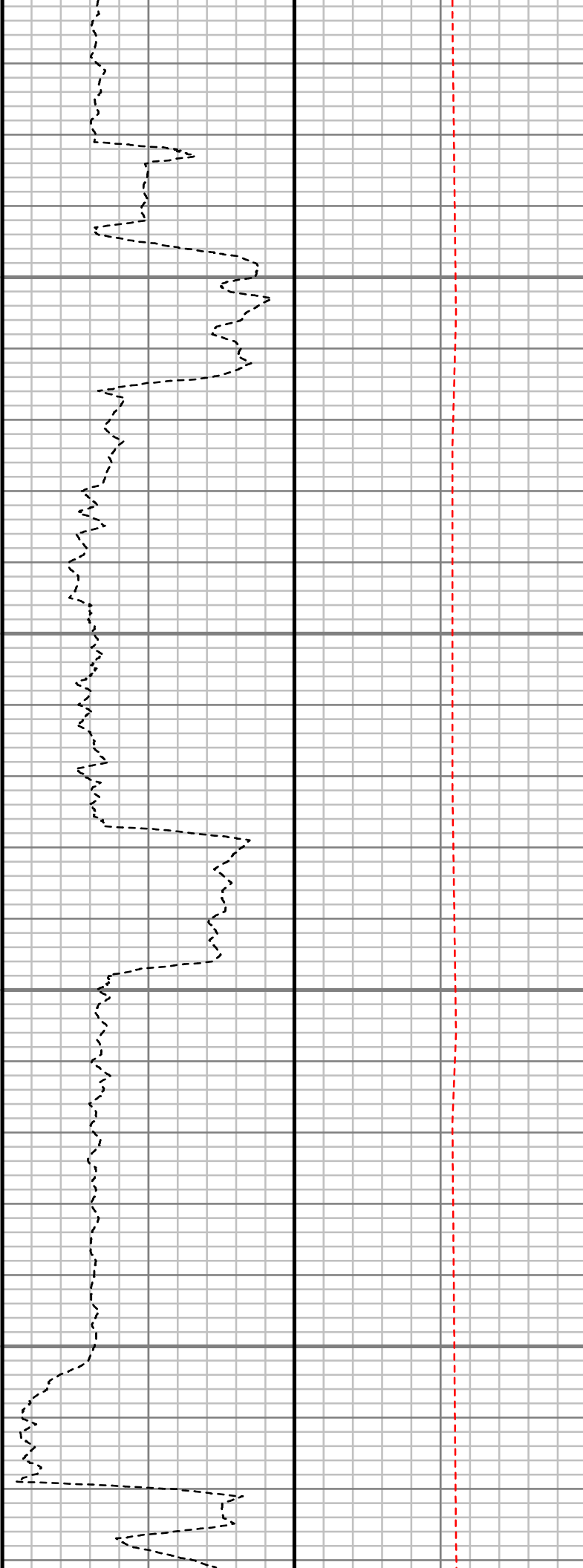
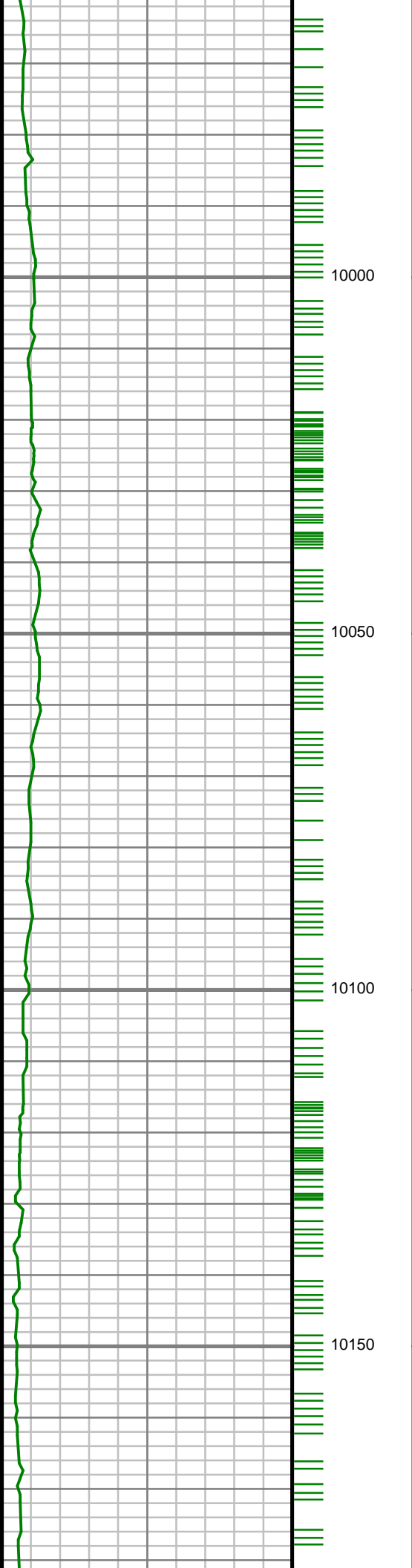
S: 118 MD: 9627.00 ft
Inc: 90.70 deg Az: 2.65
deg TVD: 7366.00 ft

S: 119 MD: 9722.00 ft
Inc: 91.11 deg Az: 1.76
deg TVD: 7364.50 ft



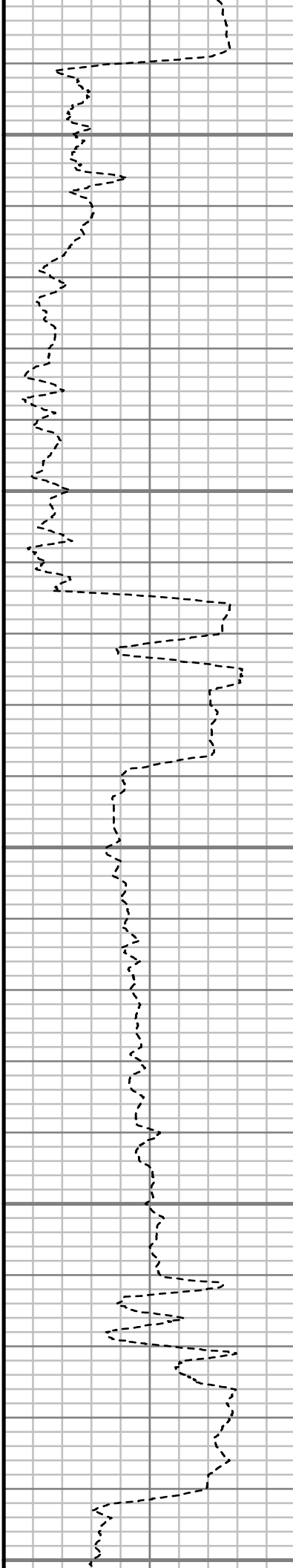
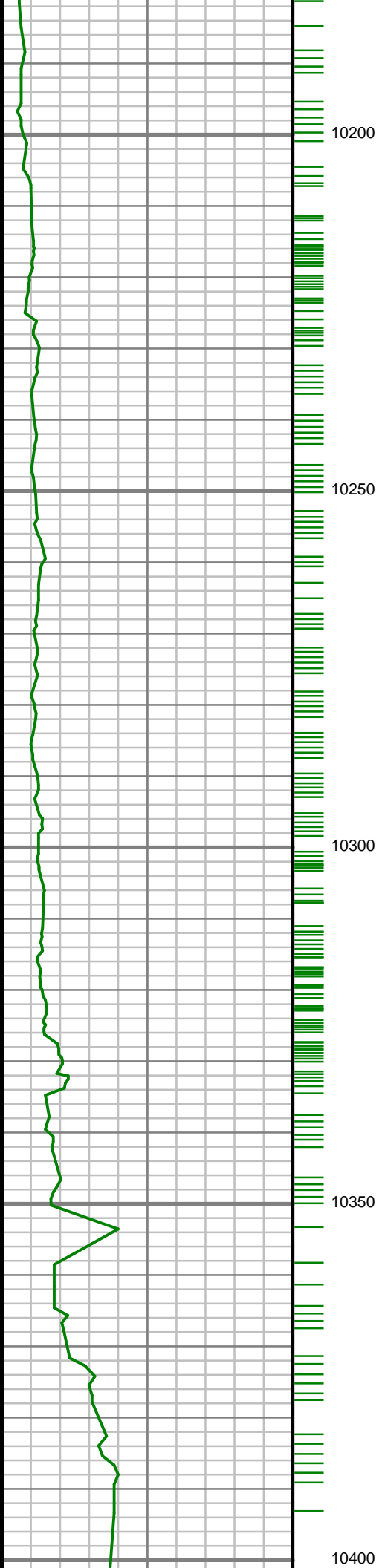
S: 120 MD: 9816.00 ft
Inc: 89.20 deg Az: 1.03
deg TVD: 7364.25 ft

S: 121 MD: 9910.00 ft
Inc: 90.84 deg Az: 1.34
deg TVD: 7364.22 ft



S: 122 MD: 10005.00 ft
Inc: 90.81 deg Az: 1.45
deg TVD: 7362.86 ft

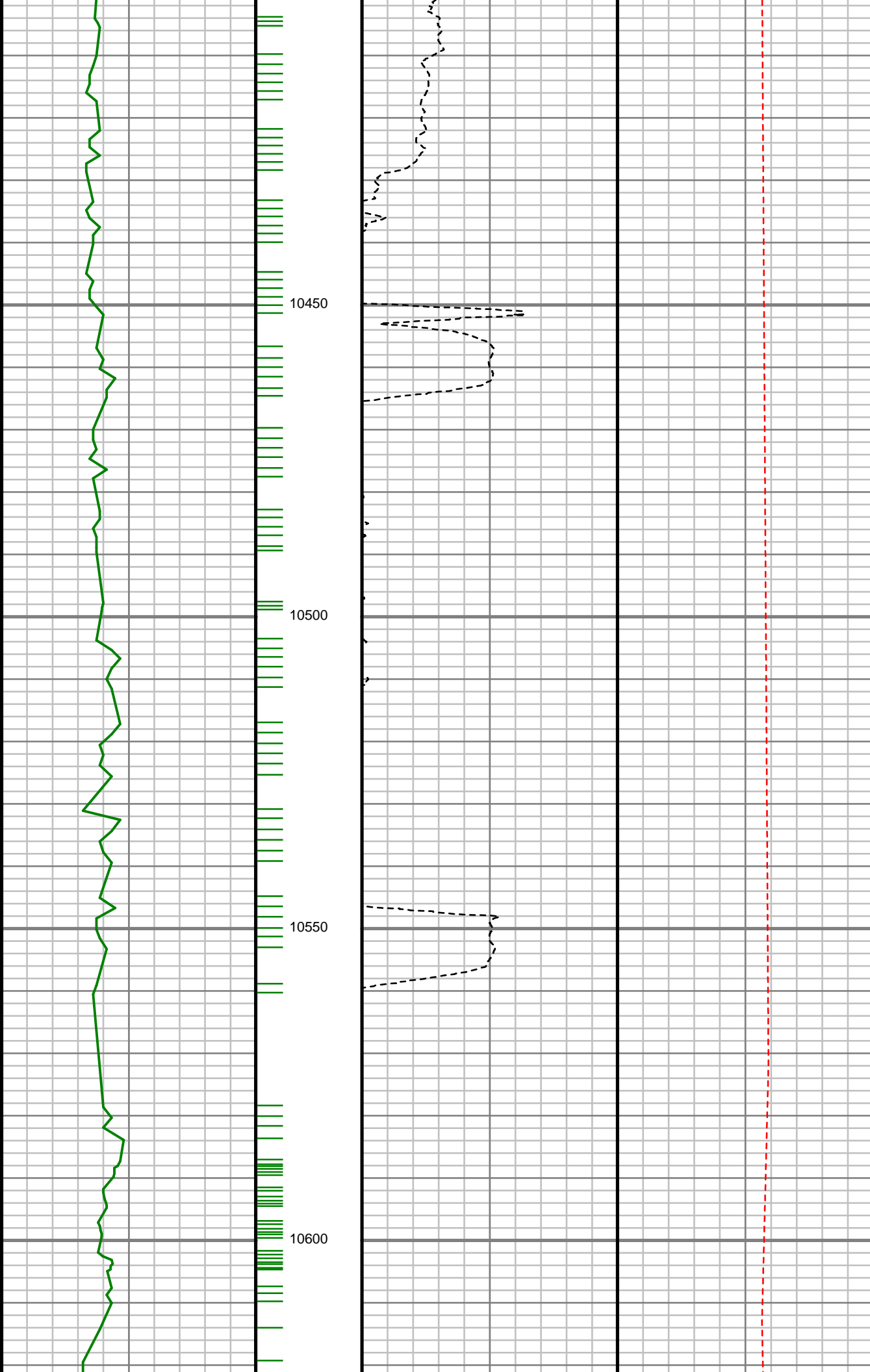
S: 123 MD: 10099.00 ft
Inc: 88.32 deg Az: 0.02
deg TVD: 7363.58 ft



S: 124 MD: 10194.00 ft
Inc: 89.16 deg Az: 0.79
deg TVD: 7365.66 ft

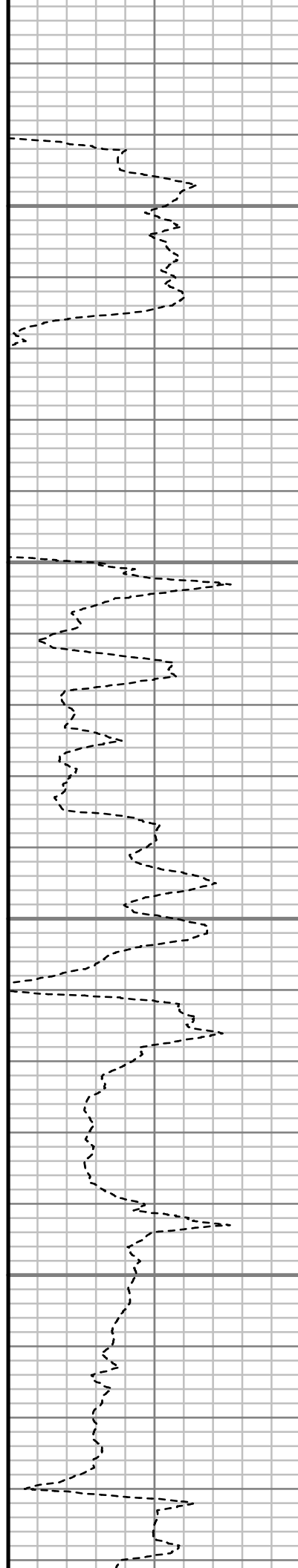
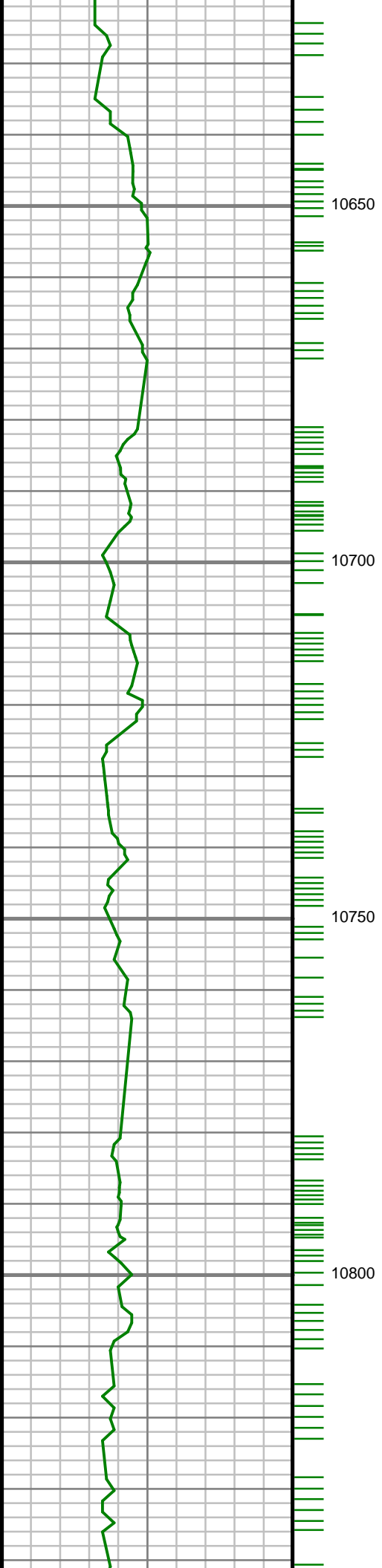
S: 125 MD: 10288.00 ft
Inc: 88.89 deg Az: 0.32
deg TVD: 7367.25 ft

S: 126 MD: 10382.00 ft
Inc: 87.99 deg Az: 0.41
deg TVD: 7369.81 ft



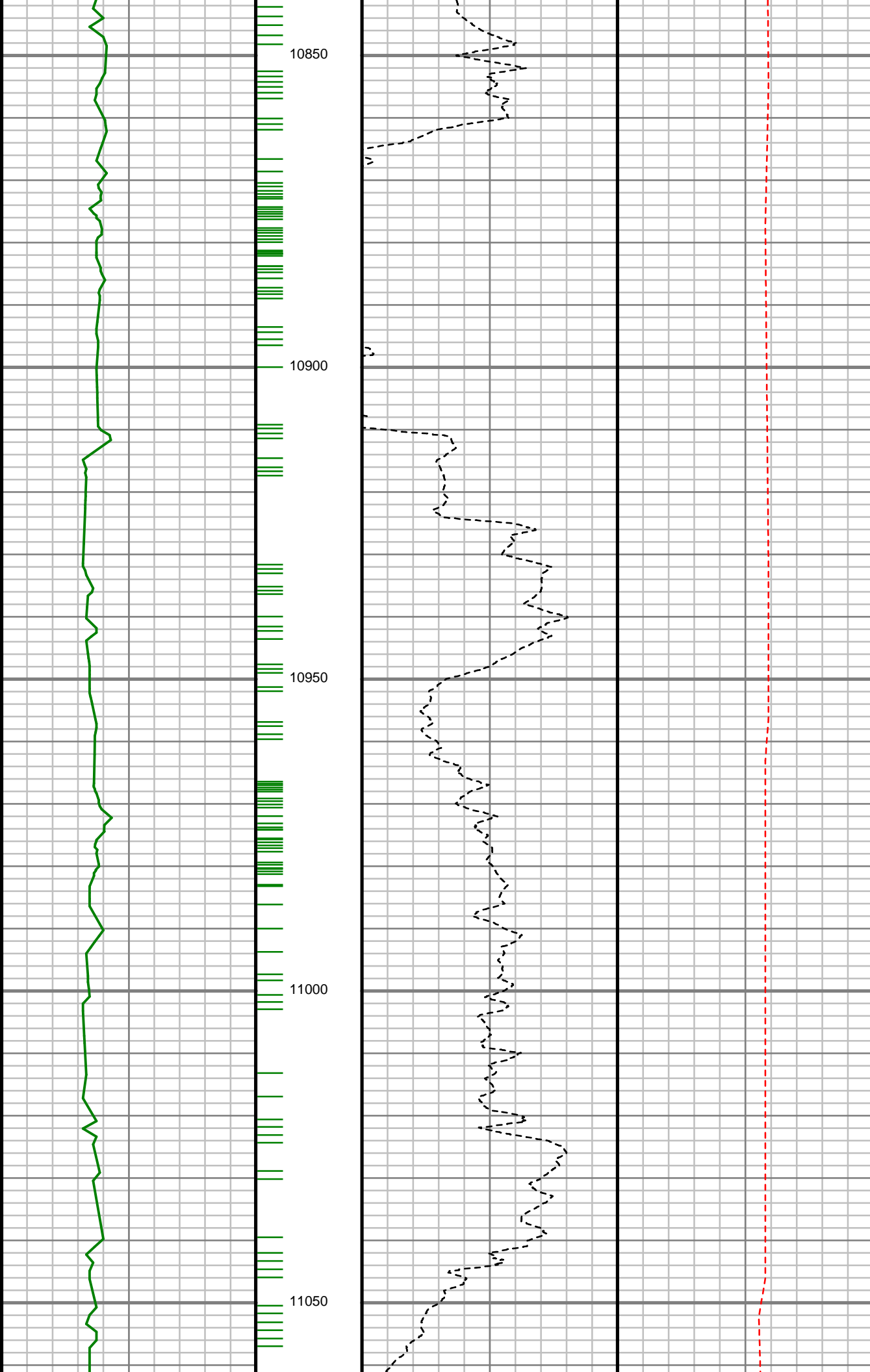
S: 127 MD: 10477.00 ft
Inc: 87.65 deg Az:
359.55 deg TVD:
7373.42 ft

S: 128 MD: 10571.00 ft
Inc: 87.69 deg Az:
359.82 deg TVD:
7377.24 ft



S: 129 MD: 10665.00 ft
Inc: 89.73 deg Az:
358.99 deg TVD:
7379.36 ft

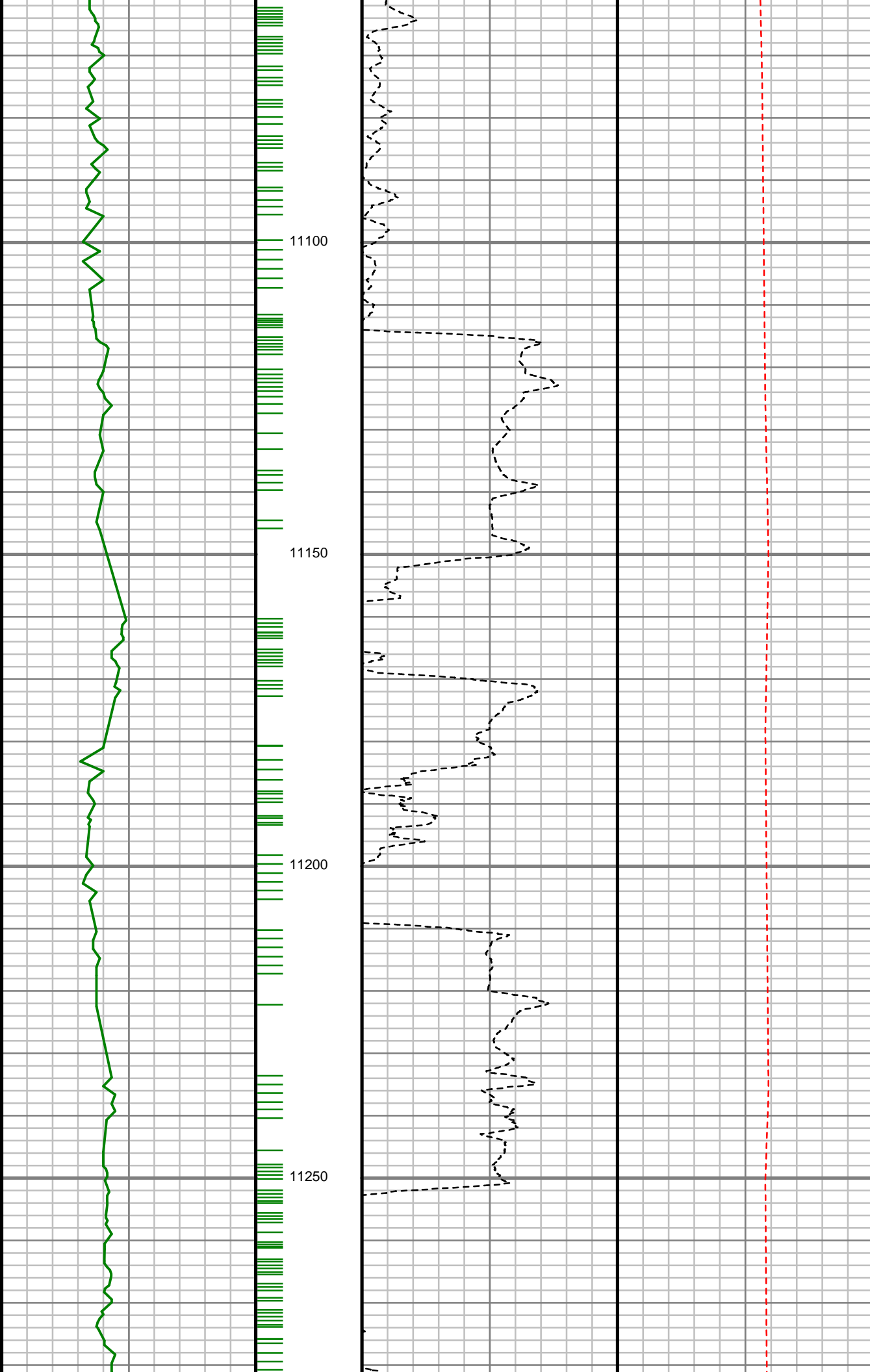
S: 130 MD: 10760.00 ft
Inc: 91.24 deg Az:
359.85 deg TVD:
7378.55 ft



S: 131 MD: 10854.00 ft
Inc: 91.64 deg Az:
359.75 deg TVD:
7376.18 ft

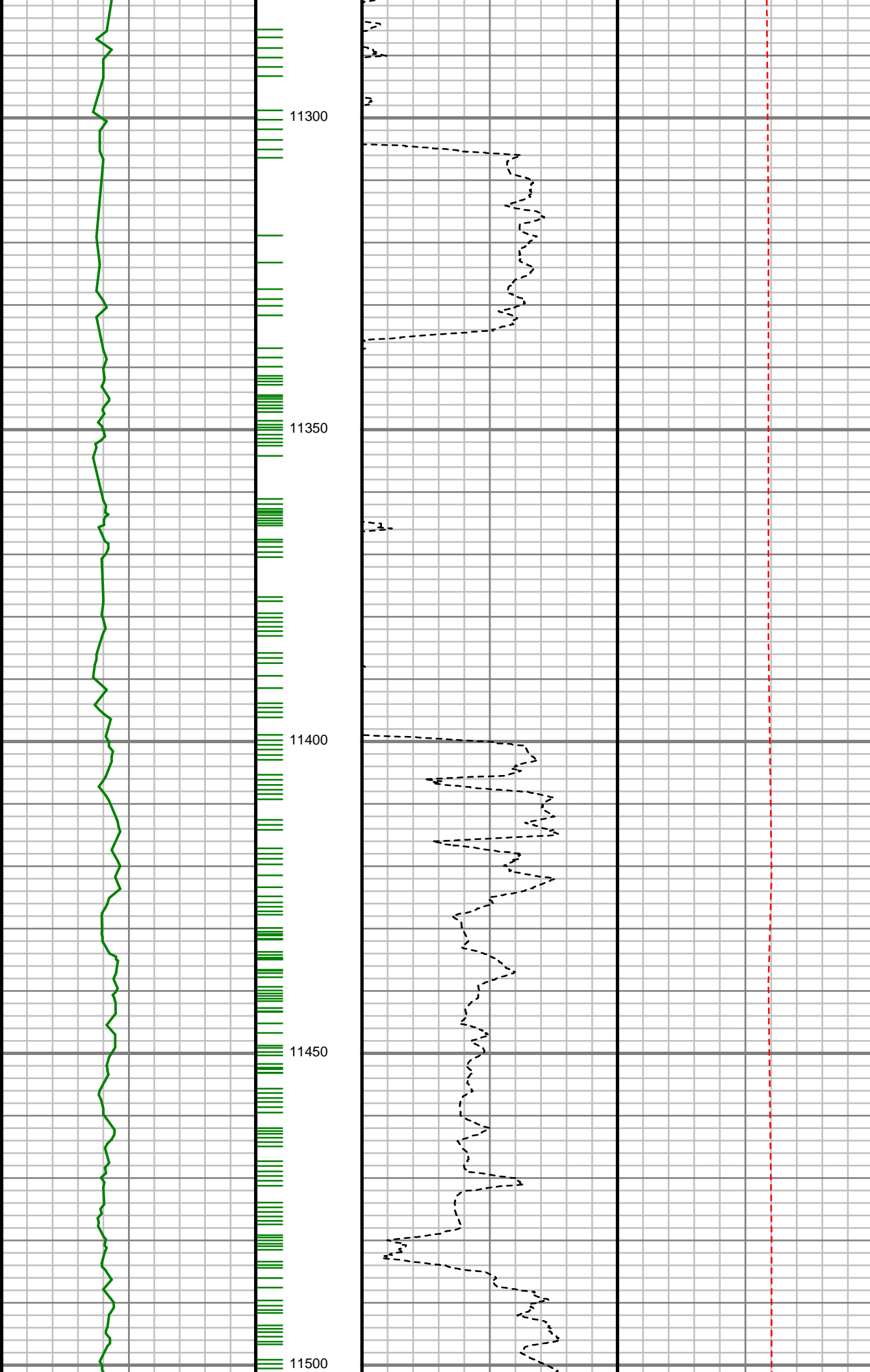
S: 132 MD: 10948.00 ft
Inc: 90.37 deg Az:
359.32 deg TVD:
7374.53 ft

S: 133 MD: 11042.00 ft
Inc: 85.88 deg Az:
357.69 deg TVD:
7377.61 ft



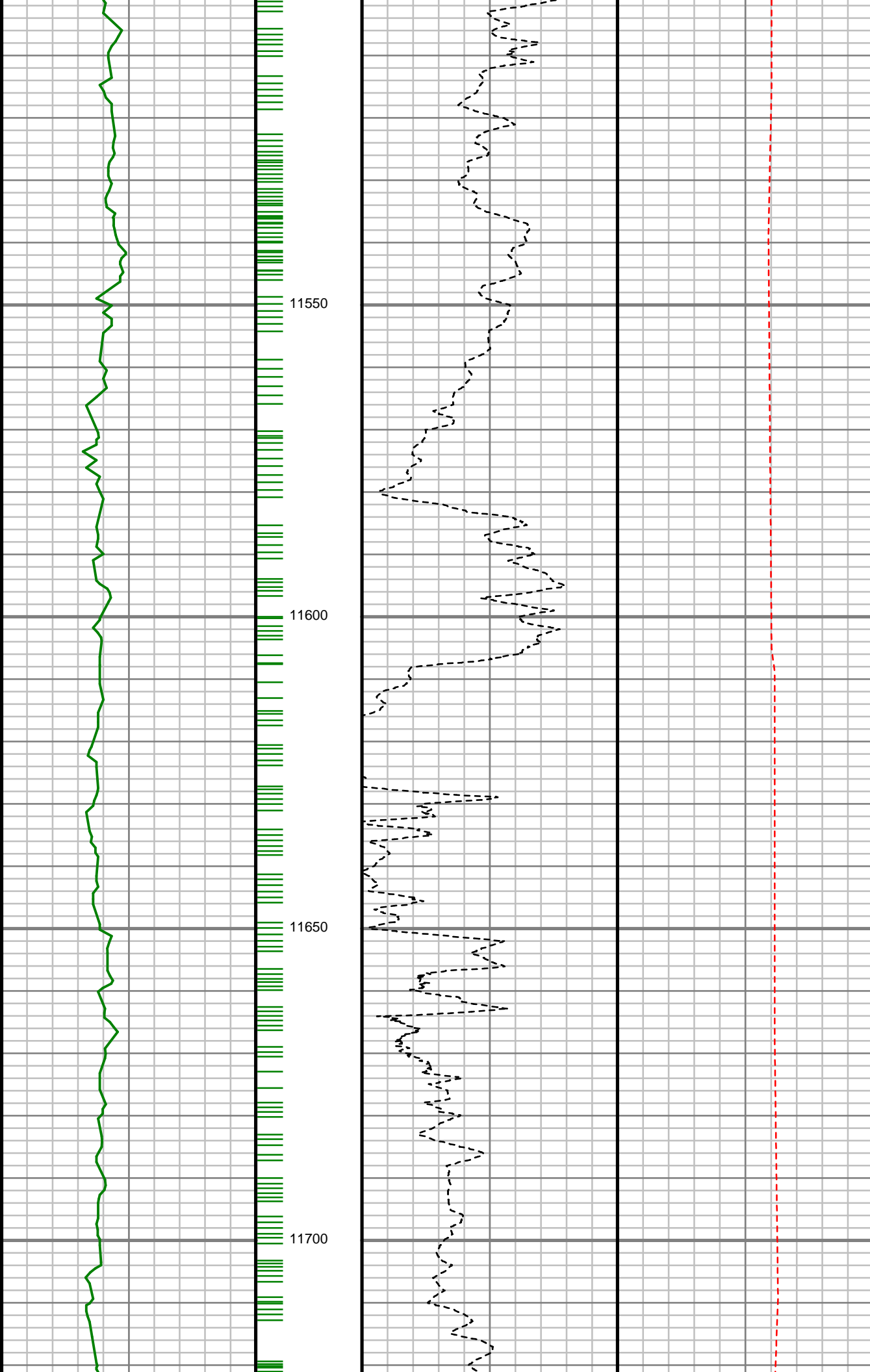
S: 134 MD: 11137.00 ft
Inc: 88.05 deg Az:
357.18 deg TVD:
7382.63 ft

S: 135 MD: 11231.00 ft
Inc: 89.56 deg Az:
356.81 deg TVD:
7384.58 ft



S: 136 MD: 11325.00 ft
Inc: 90.23 deg Az:
358.65 deg TVD:
7384.75 ft

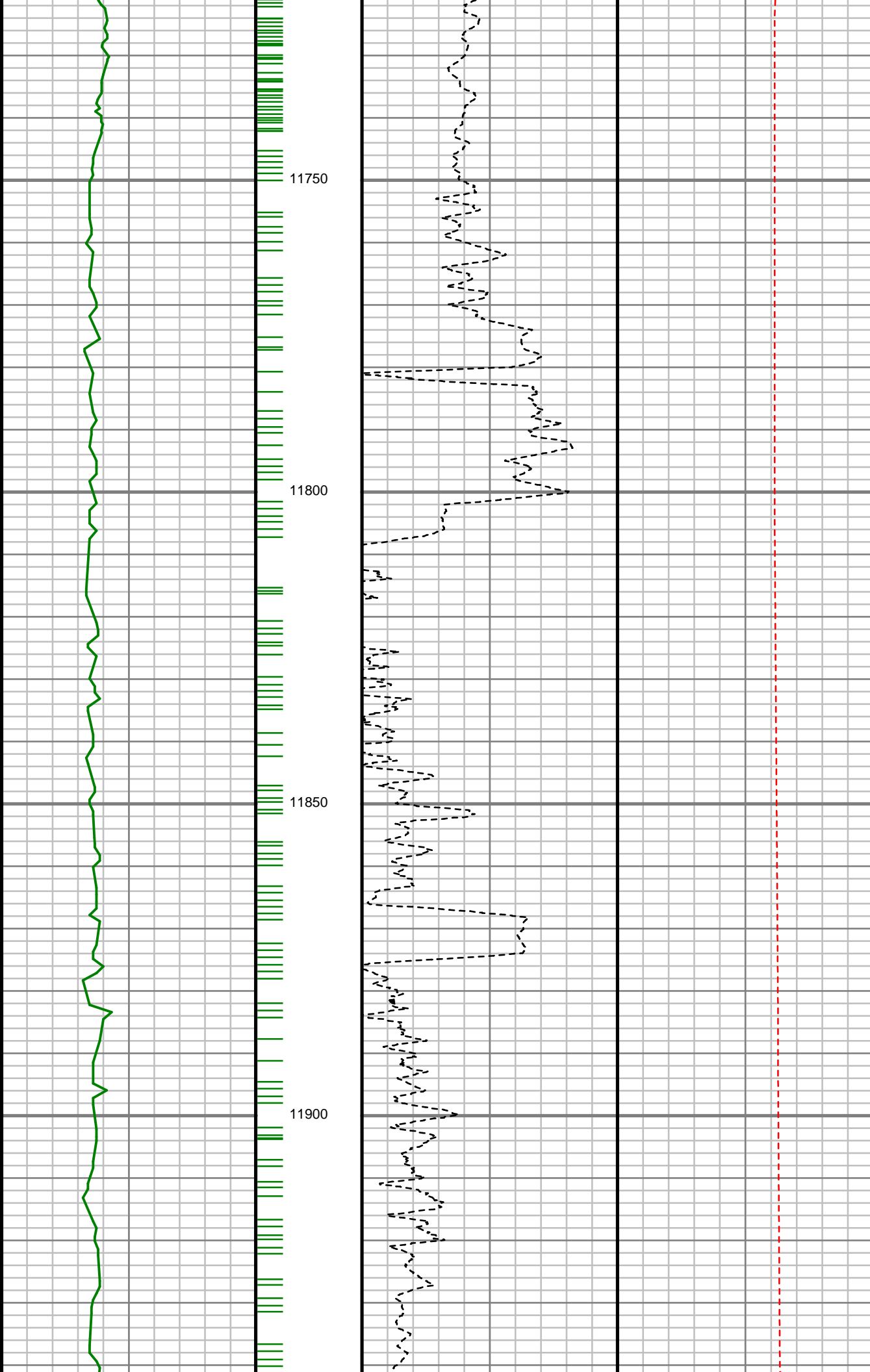
S: 137 MD: 11420.00 ft
Inc: 91.78 deg Az:
359.88 deg TVD:
7383.08 ft



S: 138 MD: 11514.00 ft
Inc: 91.31 deg Az: 1.33
deg TVD: 7380.55 ft

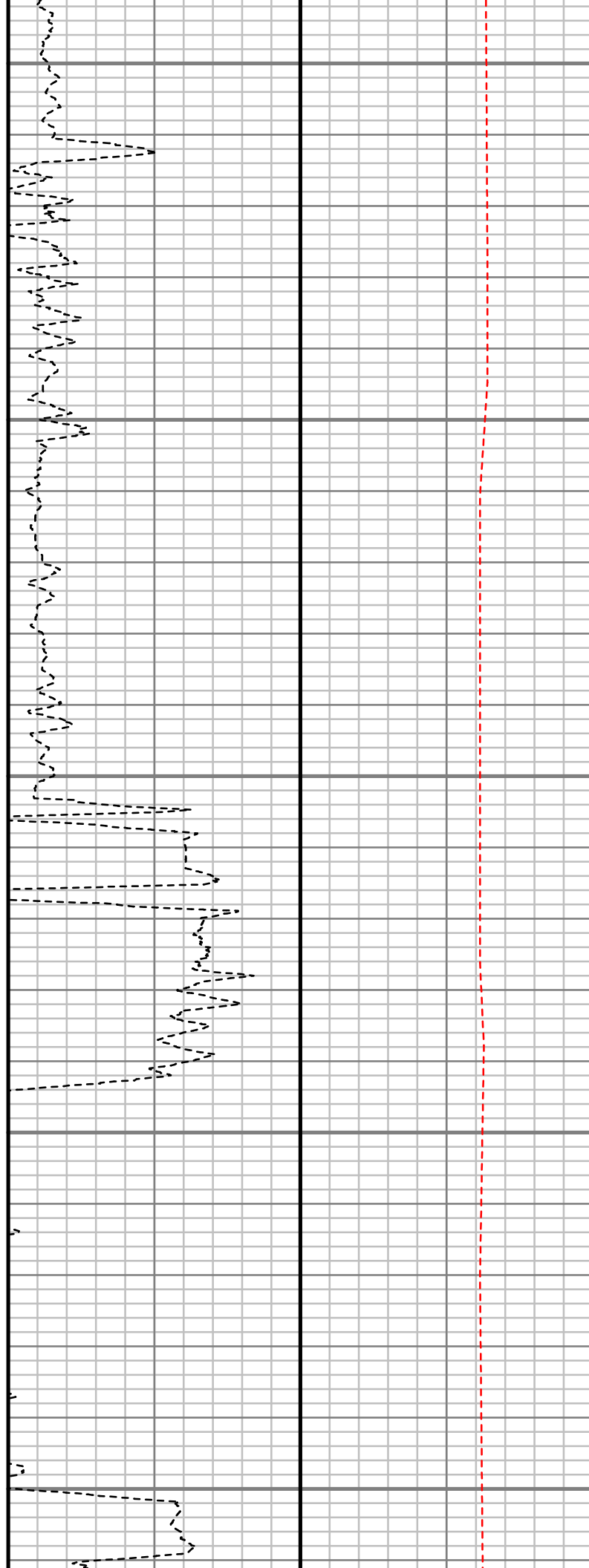
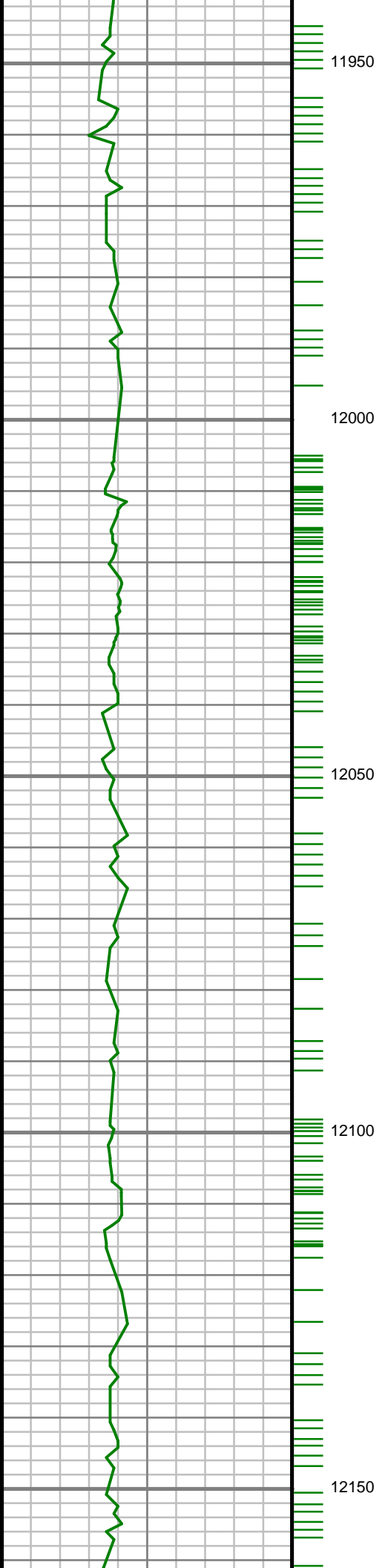
S: 139 MD: 11608.00 ft
Inc: 90.34 deg Az: 1.95
deg TVD: 7379.20 ft

S: 140 MD: 11702.00 ft
Inc: 90.40 deg Az: 1.24
deg TVD: 7378.60 ft



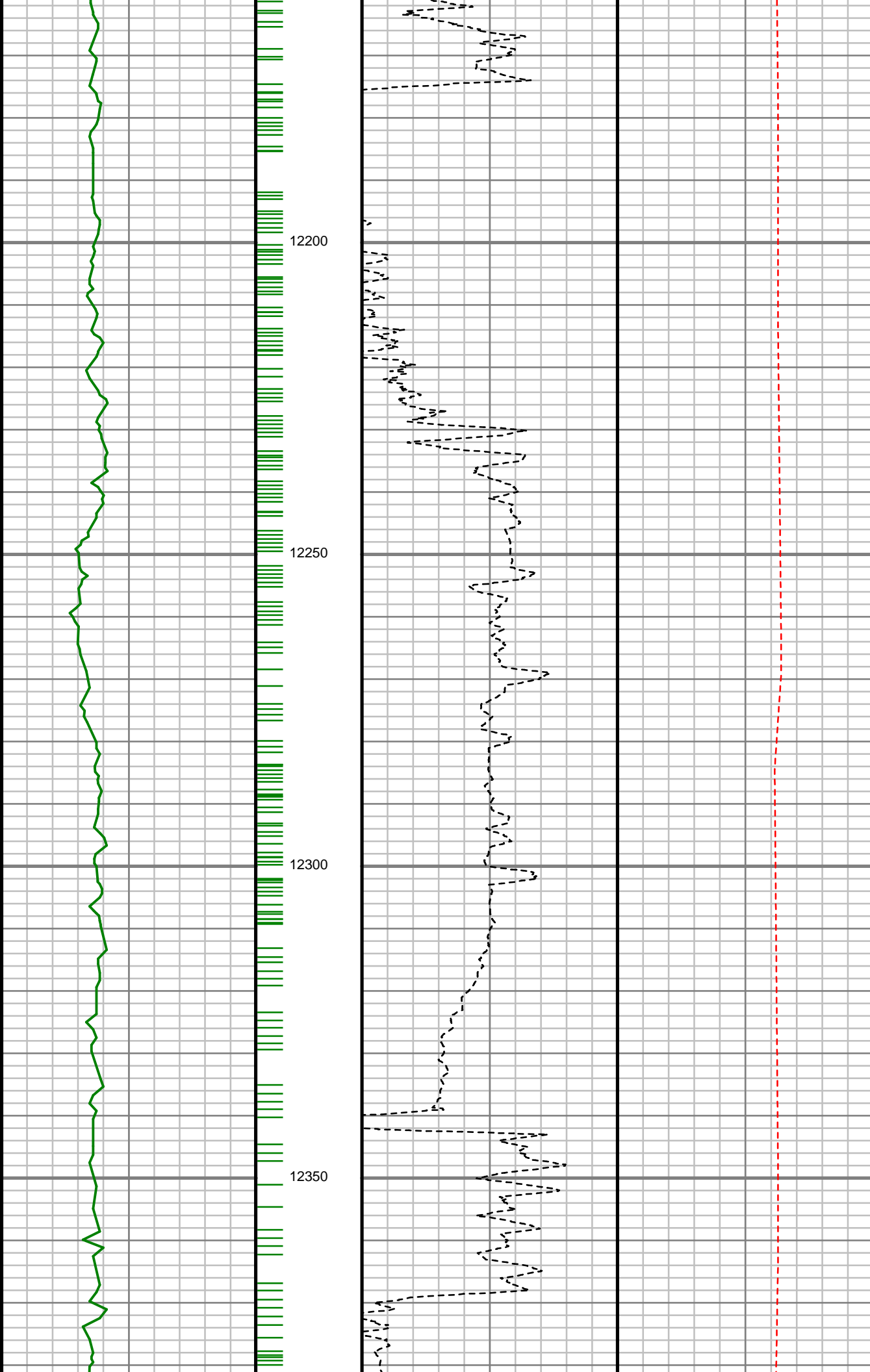
S: 141 MD: 11797.00 ft
Inc: 90.37 deg Az: 2.51
deg TVD: 7377.96 ft

S: 142 MD: 11891.00 ft
Inc: 90.10 deg Az: 2.11
deg TVD: 7377.57 ft



S: 143 MD: 11986.00 ft
Inc: 89.83 deg Az: 0.38
deg TVD: 7377.63 ft

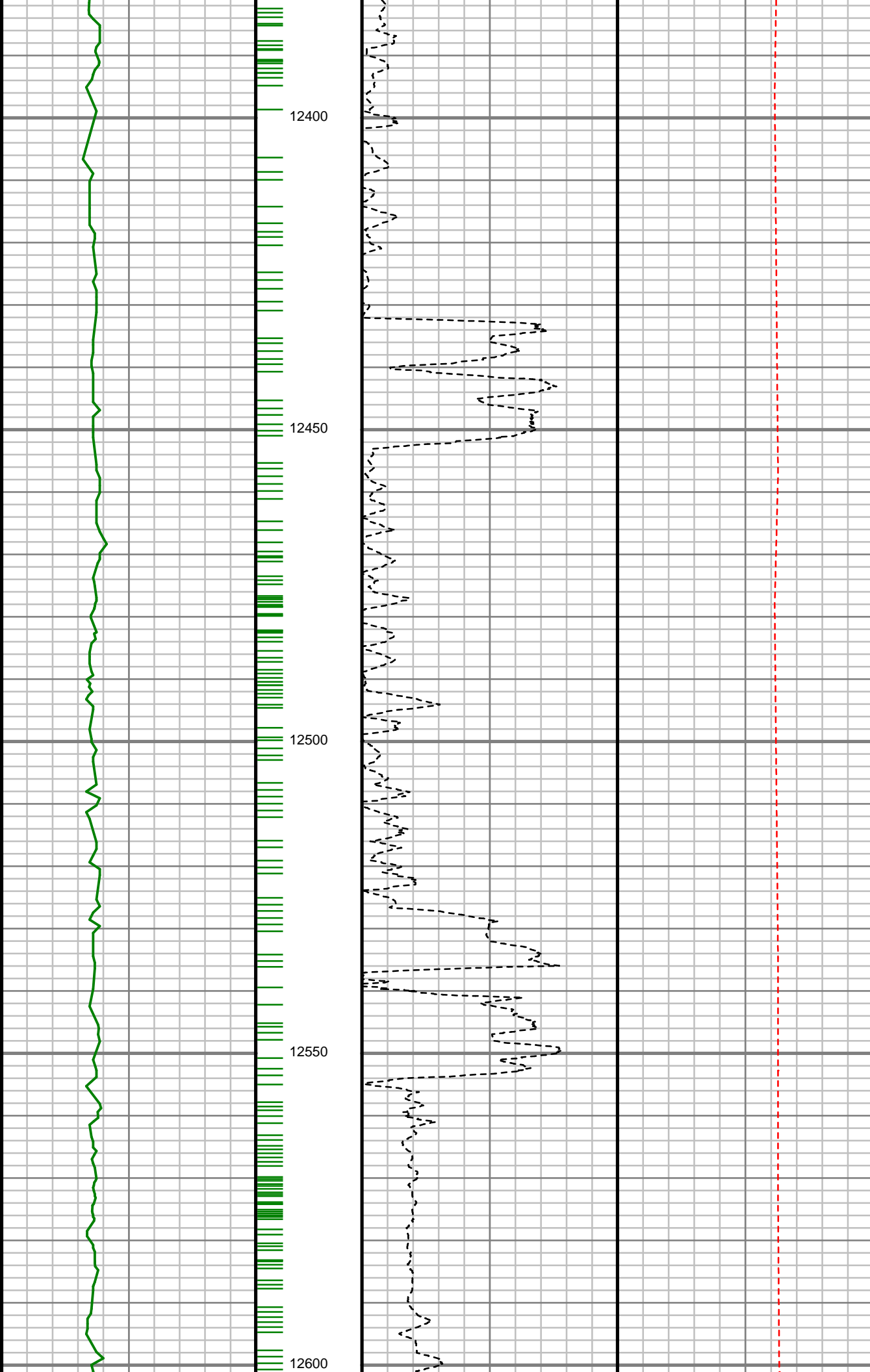
S: 144 MD: 12080.00 ft
Inc: 91.21 deg Az: 1.85
deg TVD: 7376.77 ft



S: 145 MD: 12174.00 ft
Inc: 90.87 deg Az: 2.36
deg TVD: 7375.07 ft

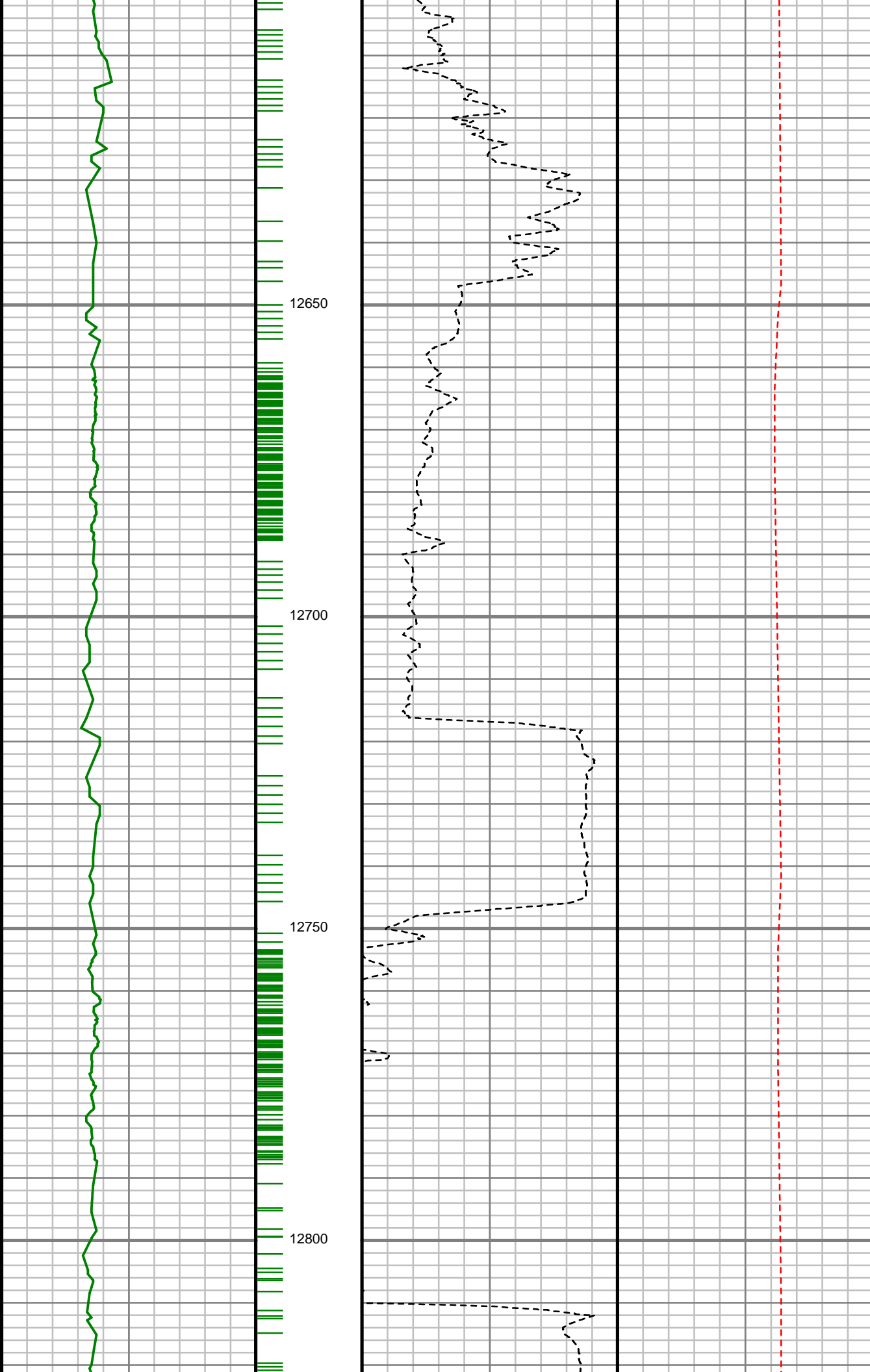
S: 146 MD: 12269.00 ft
Inc: 87.85 deg Az:
359.70 deg TVD:
7376.12 ft

S: 147 MD: 12363.00 ft
Inc: 88.59 deg Az:
359.06 deg TVD:
7379.04 ft



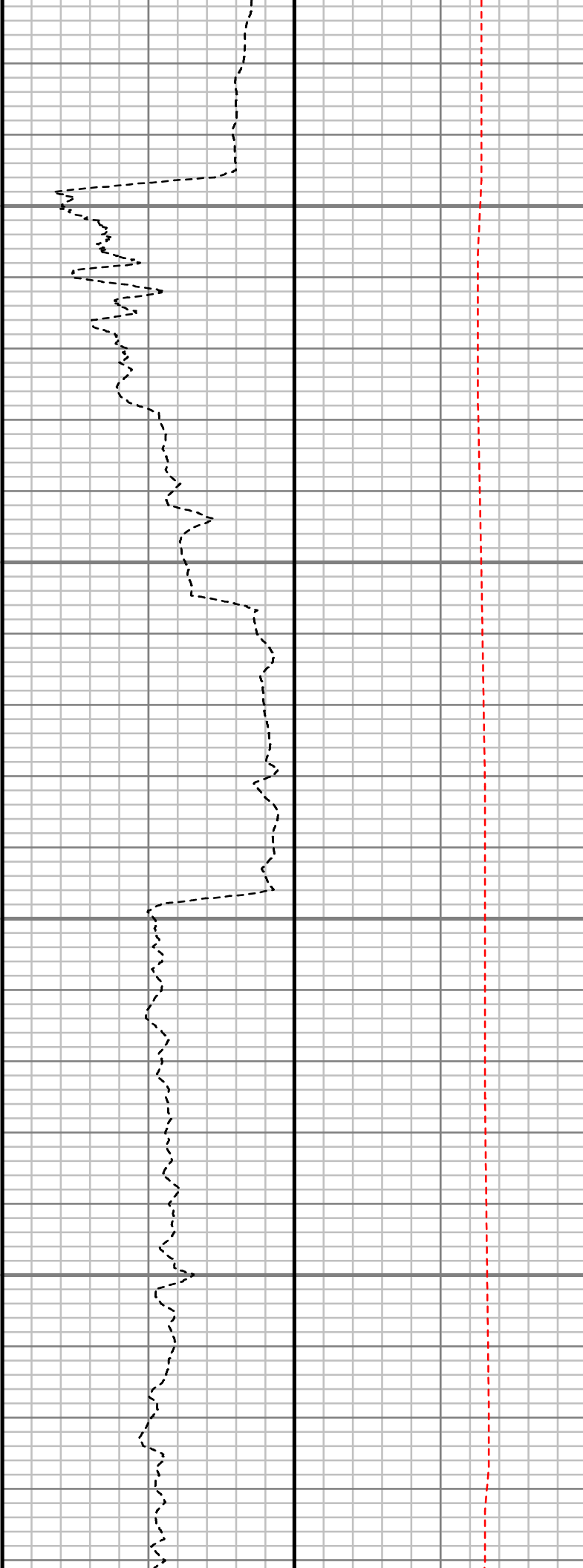
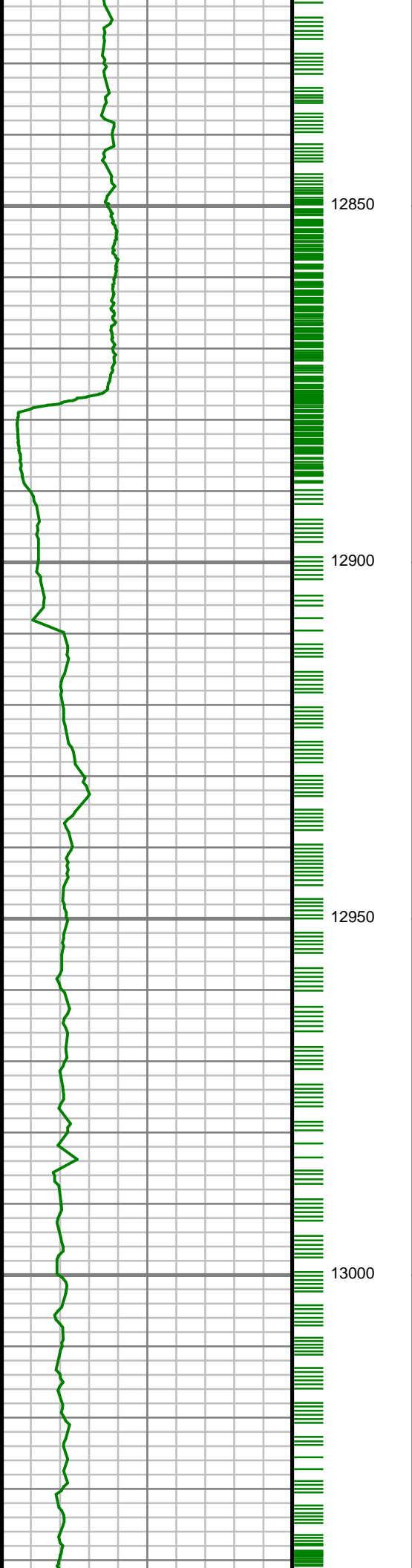
S: 148 MD: 12457.00 ft
Inc: 89.73 deg Az:
358.22 deg TVD:
7380.42 ft

S: 149 MD: 12552.00 ft
Inc: 90.27 deg Az:
357.14 deg TVD:
7380.42 ft



S: 150 MD: 12646.00 ft
Inc: 89.06 deg Az:
357.50 deg TVD:
7380.97 ft

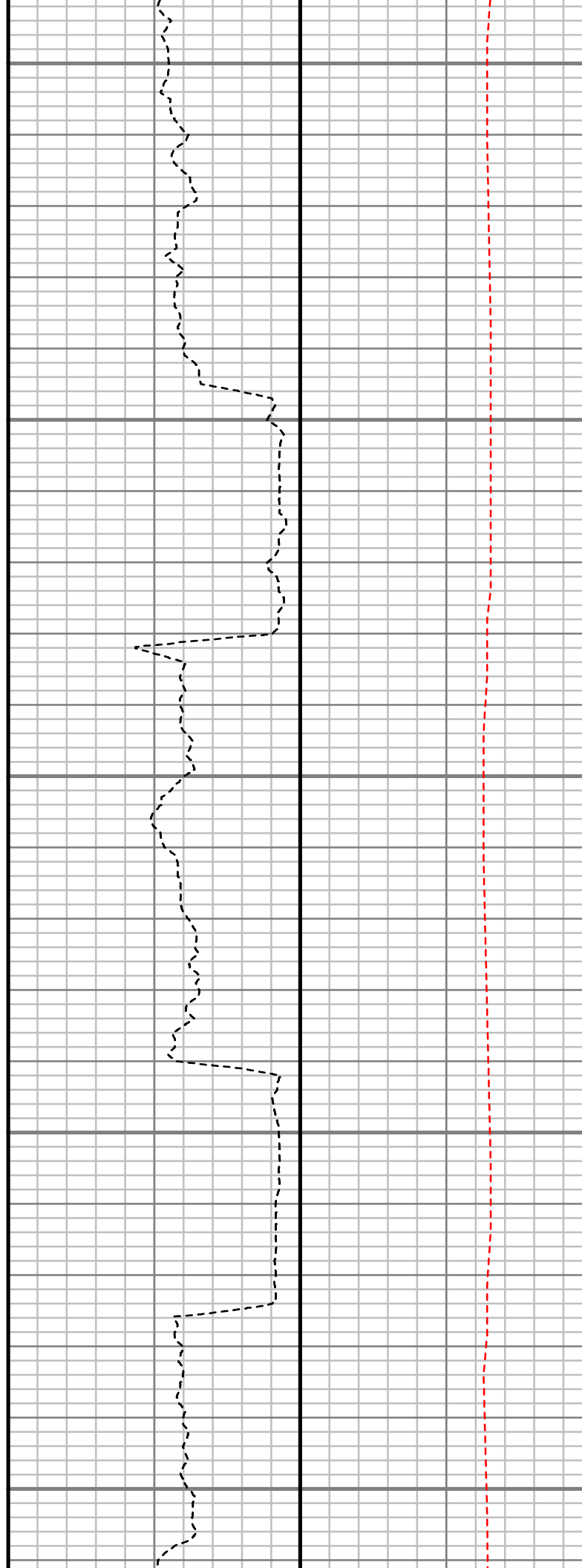
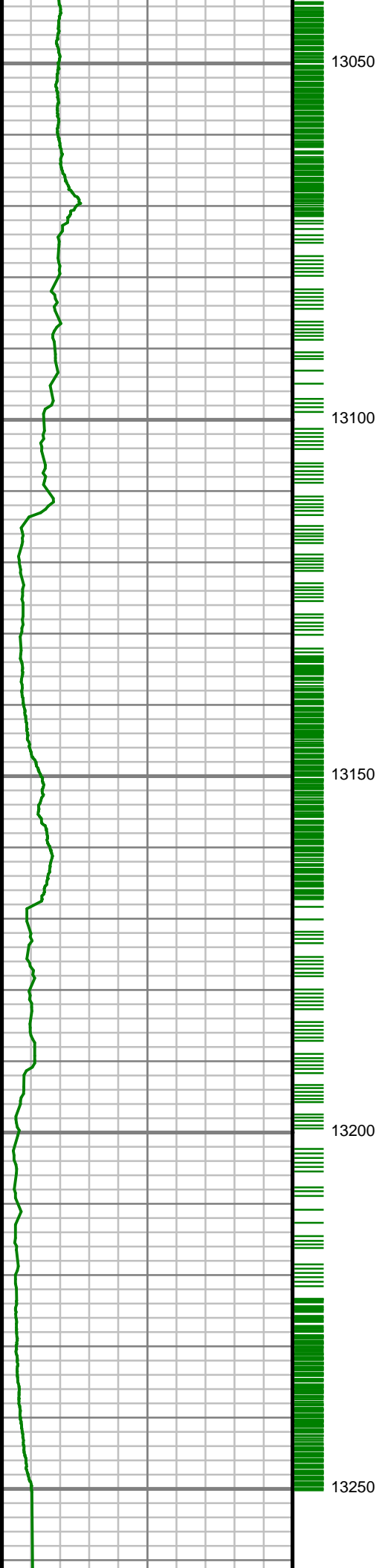
S: 151 MD: 12741.00 ft
Inc: 90.34 deg Az:
357.81 deg TVD:
7381.47 ft



S: 152 MD: 12835.00 ft
Inc: 90.77 deg Az:
359.12 deg TVD:
7380.56 ft

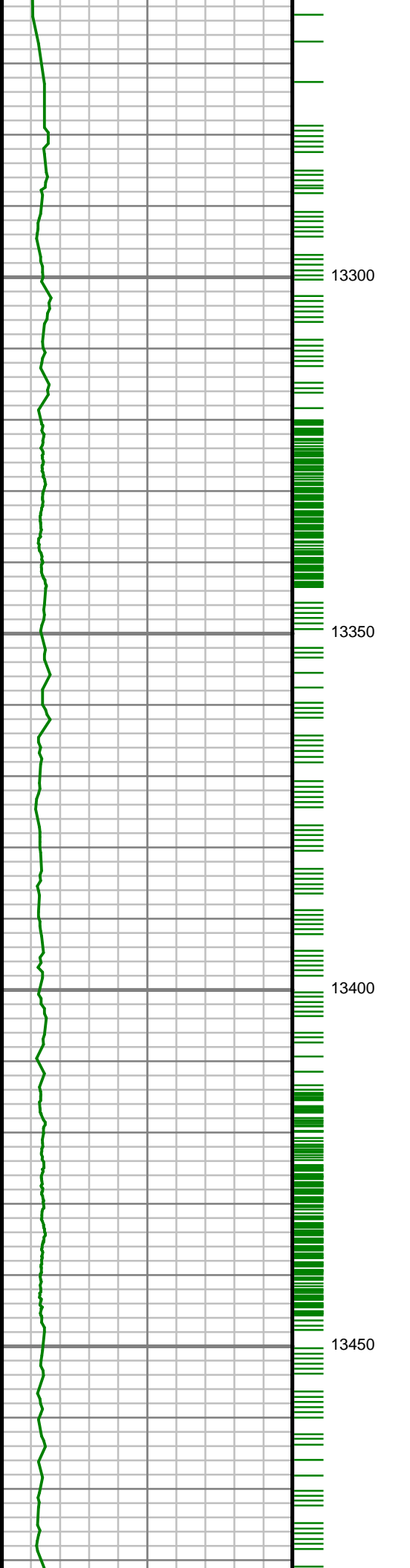
S: 153 MD: 12930.00 ft
Inc: 90.13 deg Az: 1.03
deg TVD: 7379.81 ft

S: 154 MD: 13024.00 ft
Inc: 86.91 deg Az:
356.57 deg TVD:
7382.23 ft



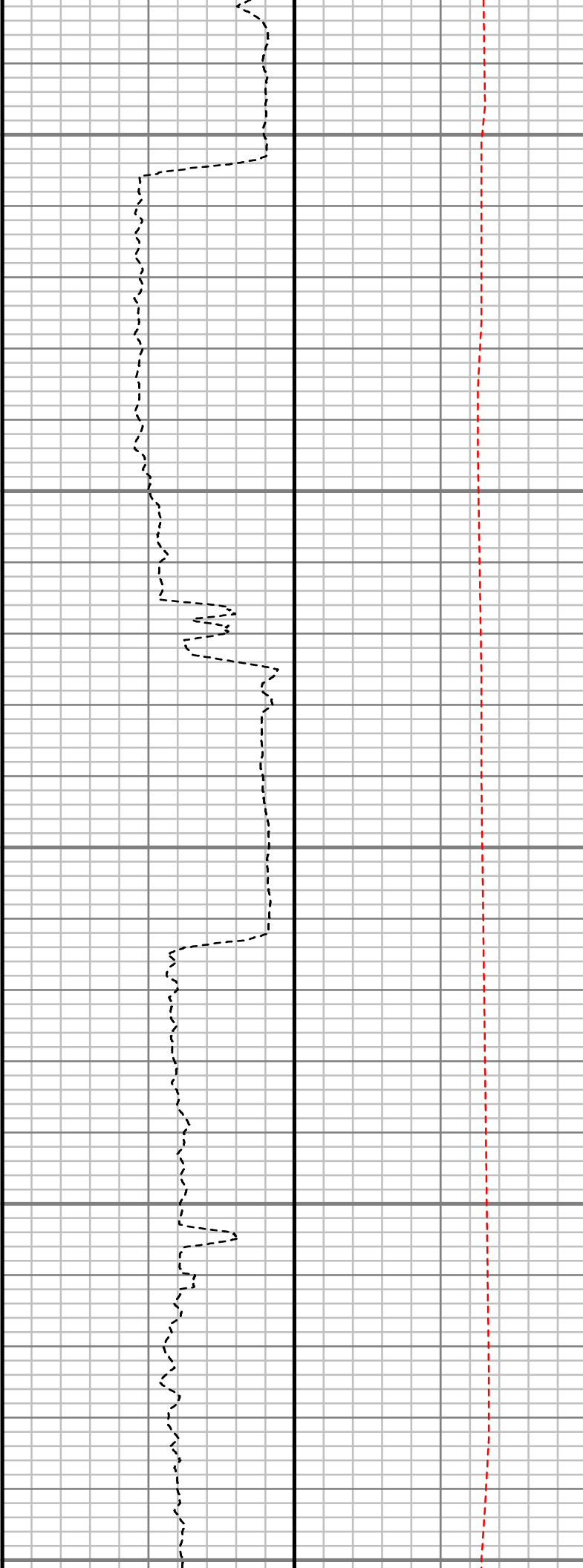
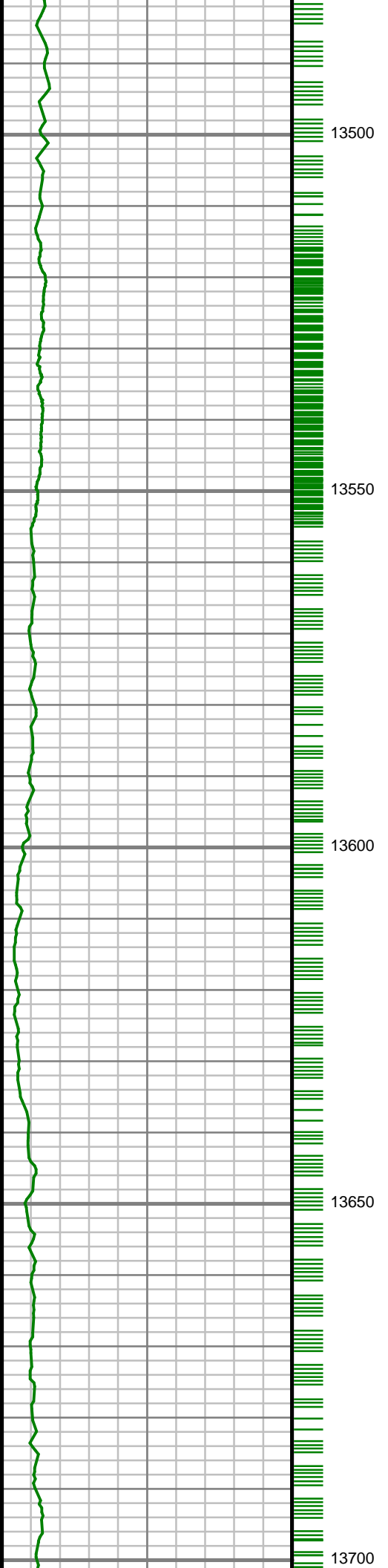
S: 155 MD: 13118.00 ft
Inc: 91.74 deg Az:
358.76 deg TVD:
7383.34 ft

S: 156 MD: 13213.00 ft
Inc: 91.58 deg Az:
359.65 deg TVD:
7380.58 ft



S: 157 MD: 13307.00 ft
Inc: 90.84 deg Az: 0.26
deg TVD: 7378.60 ft

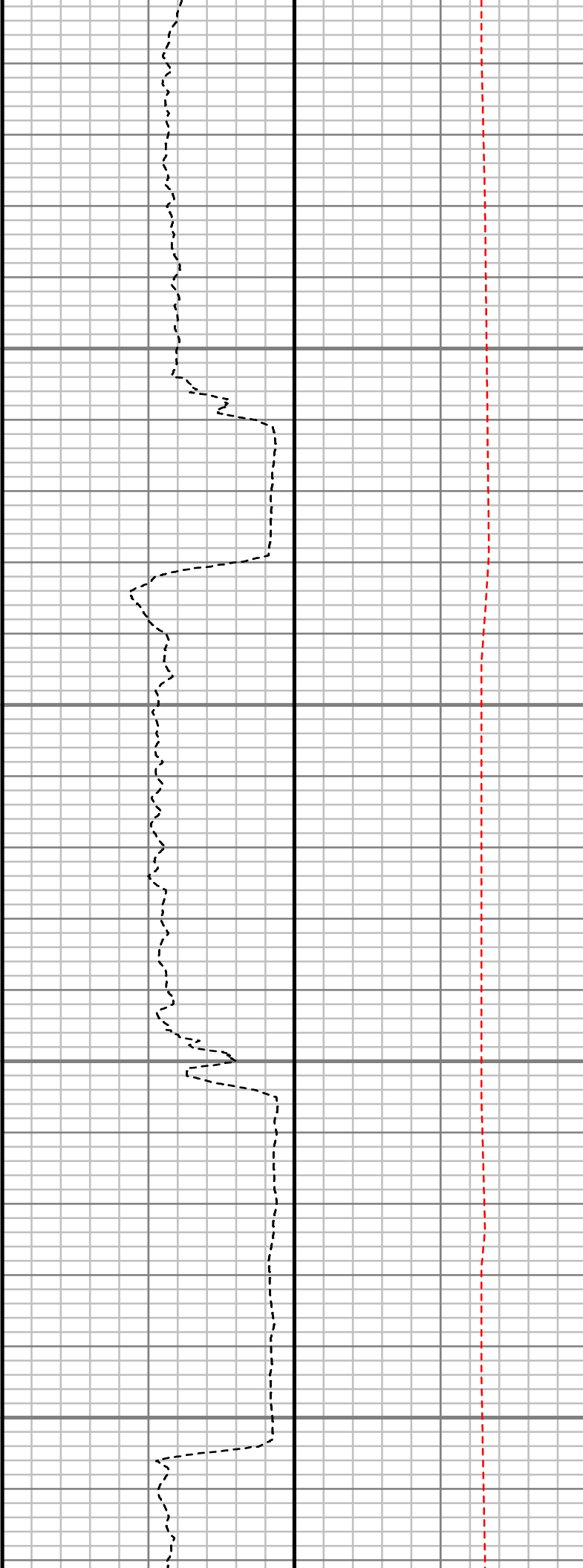
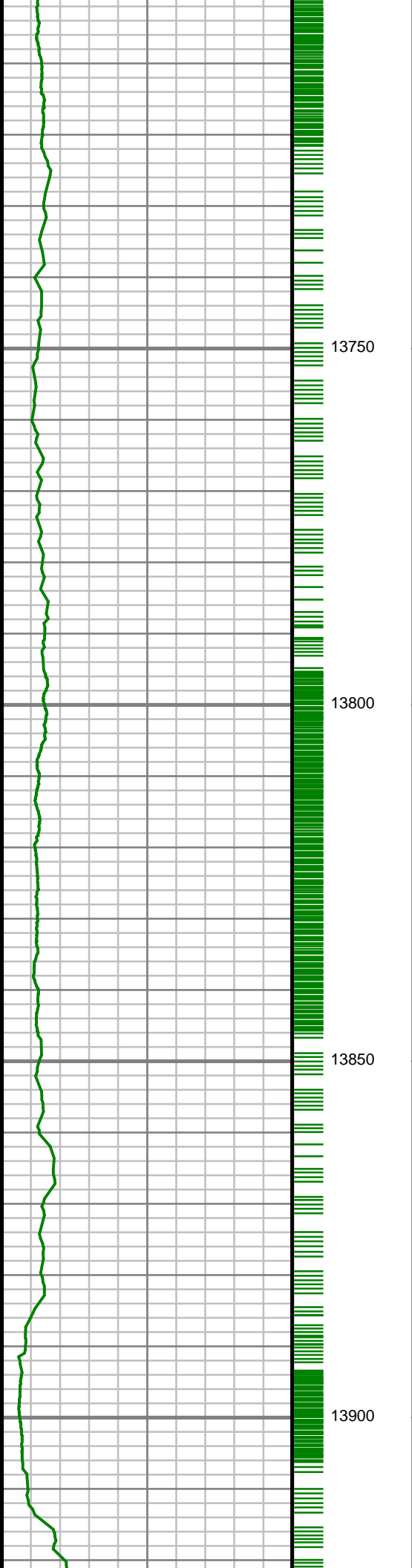
S: 158 MD: 13401.00 ft
Inc: 91.48 deg Az: 2.06
deg TVD: 7376.70 ft



S: 159 MD: 13496.00 ft
Inc: 91.34 deg Az: 2.64
deg TVD: 7374.37 ft

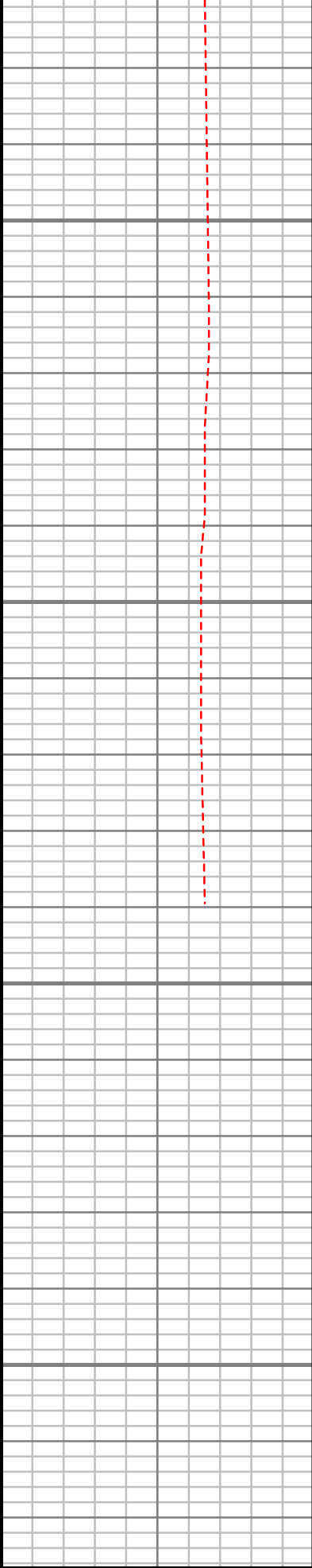
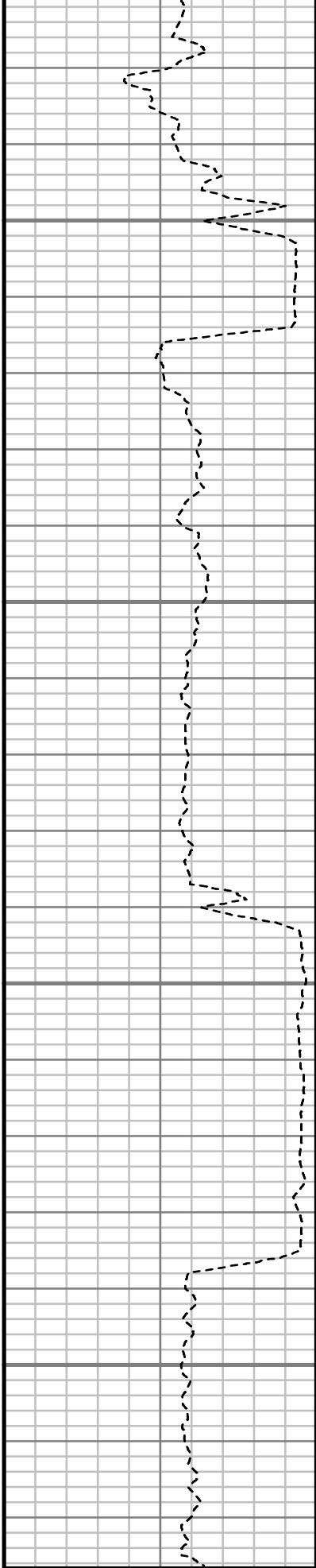
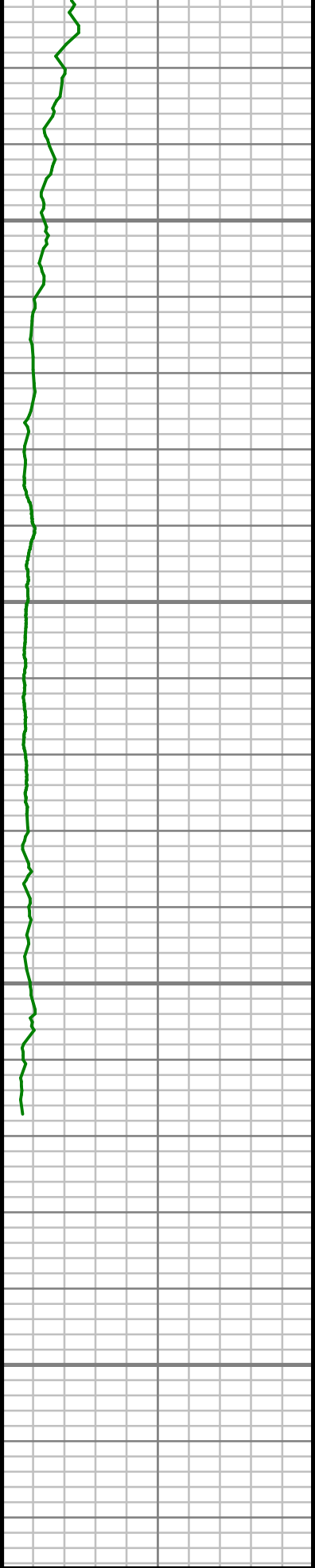
S: 160 MD: 13590.00 ft
Inc: 89.09 deg Az: 2.38
deg TVD: 7374.01 ft

S: 161 MD: 13684.00 ft
Inc: 89.70 deg Az: 2.31
deg TVD: 7375.00 ft



S: 162 MD: 13779.00 ft
Inc: 90.64 deg Az: 3.06
deg TVD: 7374.72 ft

S: 163 MD: 13873.00 ft
Inc: 88.25 deg Az: 2.30
deg TVD: 7375.63 ft



S: 164 MD: 13967.00 ft
Inc: 89.36 deg Az: 0.49
deg TVD: 7377.59 ft

Gamma Ray (GR)
0 Unit = aapi 150

MEASURED D
1:240 (ft)

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

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

Comments

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DEPTH

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Survey Report

Customer Name:	ANADARKO PETROLEUM CORP.						
Site Name:	PARAGON 16-6HZ						
Well Name:	PARAGON 24C-31HZ						
Survey:	PARAGON 24C-31HZ						
Survey Date:	1/23/2014						
Magnetic Declination:	8.23 deg						
North Reference:	True North						
Calculation Method:	Minimum Curvature						
Section (VS) Ref:	0.00N (ft), 0.00E (ft), 0.00Azim (deg)						
MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00
125.00	0.50	226.26	125.00	-0.30	-0.30	-0.32	0.50
225.00	0.35	197.38	225.00	-0.89	-0.89	-0.72	0.26
325.00	0.26	158.33	324.99	-1.40	-1.40	-0.73	0.22
425.00	0.36	136.85	424.99	-1.84	-1.84	-0.43	0.15
525.00	0.25	123.08	524.99	-2.19	-2.19	-0.03	0.13
625.00	0.22	134.04	624.99	-2.44	-2.44	0.29	0.05
725.00	0.28	132.52	724.99	-2.74	-2.74	0.61	0.06

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
825.00	0.50	20.46	824.99	-2.49	-2.49	0.94	0.66
925.00	0.42	349.82	924.99	-1.72	-1.72	1.03	0.26
1017.00	0.52	352.23	1016.98	-0.98	-0.98	0.91	0.11
1181.00	0.26	2.62	1180.98	0.13	0.13	0.83	0.17
1272.00	0.36	4.15	1271.98	0.62	0.62	0.86	0.12
1364.00	0.17	339.15	1363.98	1.03	1.03	0.83	0.24
1456.00	0.24	306.22	1455.98	1.27	1.27	0.63	0.15
1547.00	0.32	312.78	1546.97	1.56	1.56	0.29	0.09
1566.00	0.34	319.85	1565.97	1.64	1.64	0.21	0.25
1658.00	0.13	335.46	1657.97	1.95	1.95	-0.01	0.23
1750.00	0.23	12.58	1749.97	2.22	2.22	-0.02	0.16
1841.00	0.23	3.94	1840.97	2.57	2.57	0.03	0.04
1932.00	0.24	336.29	1931.97	2.92	2.92	-0.03	0.12
2024.00	0.14	342.30	2023.97	3.21	3.21	-0.14	0.11
2115.00	0.07	350.06	2114.97	3.37	3.37	-0.18	0.08
2207.00	0.14	332.86	2206.97	3.52	3.52	-0.24	0.08
2298.00	0.21	34.28	2297.97	3.76	3.76	-0.20	0.21
2390.00	0.33	34.17	2389.97	4.12	4.12	0.05	0.13
2482.00	0.39	27.48	2481.97	4.62	4.62	0.34	0.08
2574.00	1.32	228.97	2573.96	4.20	4.20	-0.31	1.84

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
2665.00	3.94	236.49	2664.86	1.79	1.79	-3.71	2.89
2757.00	6.29	242.93	2756.49	-2.25	-2.25	-10.83	2.63
2848.00	7.52	243.95	2846.82	-7.13	-7.13	-20.62	1.36
2940.00	8.09	242.29	2937.97	-12.79	-12.79	-31.77	0.66
3031.00	8.79	239.63	3027.98	-19.28	-19.28	-43.44	0.87
3123.00	11.15	241.99	3118.59	-27.01	-27.01	-57.35	2.60
3215.00	11.94	242.82	3208.73	-35.53	-35.53	-73.67	0.88
3306.00	11.46	242.65	3297.84	-43.99	-43.99	-90.07	0.53
3398.00	10.66	241.85	3388.13	-52.20	-52.20	-105.69	0.89
3489.00	9.95	240.05	3477.66	-60.10	-60.10	-119.92	0.85
3581.00	8.92	238.04	3568.41	-67.84	-67.84	-132.87	1.18
3673.00	9.33	236.90	3659.25	-75.69	-75.69	-145.17	0.48
3764.00	9.62	245.74	3749.01	-82.84	-82.84	-158.28	1.63
3856.00	8.95	246.99	3839.81	-88.80	-88.80	-171.87	0.76
3948.00	9.83	243.89	3930.57	-95.05	-95.05	-185.51	1.10
4039.00	8.76	239.28	4020.38	-102.01	-102.01	-198.44	1.43
4131.00	8.83	238.42	4111.30	-109.29	-109.29	-210.48	0.16
4223.00	9.74	232.93	4202.09	-117.68	-117.68	-222.71	1.38
4317.00	10.62	235.74	4294.61	-127.34	-127.34	-236.21	1.08

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
4411.00	10.28	234.96	4387.06	-137.03	-137.03	-250.23	0.39
4506.00	9.90	243.14	4480.59	-145.59	-145.59	-264.46	1.56
4600.00	9.41	247.05	4573.26	-152.24	-152.24	-278.74	0.87
4694.00	9.25	246.94	4666.02	-158.20	-158.20	-292.77	0.17
4789.00	9.49	238.90	4759.75	-165.23	-165.23	-306.51	1.40
4883.00	10.21	238.18	4852.37	-173.63	-173.63	-320.22	0.77
4977.00	9.50	234.54	4944.98	-182.52	-182.52	-333.62	1.00
5071.00	10.91	234.01	5037.49	-192.26	-192.26	-347.14	1.50
5166.00	9.84	230.33	5130.93	-202.72	-202.72	-360.66	1.33
5260.00	9.87	234.12	5223.55	-212.57	-212.57	-373.37	0.69
5355.00	10.31	239.82	5317.08	-221.61	-221.61	-387.31	1.15
5449.00	10.19	241.00	5409.58	-229.87	-229.87	-401.85	0.26
5543.00	9.02	237.16	5502.27	-237.90	-237.90	-415.31	1.42
5638.00	9.89	240.40	5595.98	-245.96	-245.96	-428.66	1.08
5732.00	10.24	239.72	5688.53	-254.17	-254.17	-442.90	0.39
5826.00	9.94	236.90	5781.07	-262.81	-262.81	-456.92	0.61
5921.00	9.82	226.84	5874.67	-272.83	-272.83	-469.70	1.82
6015.00	10.21	236.68	5967.25	-282.89	-282.89	-482.50	1.87
6109.00	8.08	235.85	6060.05	-291.18	-291.18	-494.93	2.27
6203.00	8.63	229.27	6153.05	-299.49	-299.49	-505.75	1.17

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
6298.00	8.74	225.96	6246.96	-309.16	-309.16	-516.34	0.54
6392.00	7.84	231.08	6339.98	-318.16	-318.16	-526.47	1.24
6486.00	10.01	230.71	6432.83	-327.36	-327.36	-537.78	2.30
6533.00	11.59	234.08	6479.00	-332.72	-332.72	-544.77	3.63
6581.00	15.54	236.99	6525.65	-339.06	-339.06	-554.07	8.35
6628.00	21.41	241.51	6570.21	-346.59	-346.59	-566.90	12.83
6675.00	25.68	249.69	6613.30	-354.22	-354.22	-584.00	11.42
6722.00	26.66	258.17	6655.50	-359.91	-359.91	-603.88	8.22
6769.00	27.09	266.09	6697.43	-362.81	-362.81	-624.89	7.66
6816.00	27.56	273.40	6739.20	-362.89	-362.89	-646.42	7.20
6864.00	28.34	287.61	6781.65	-358.78	-358.78	-668.39	13.94
6911.00	28.39	298.18	6823.04	-350.13	-350.13	-688.89	10.67
6958.00	28.17	303.71	6864.43	-338.69	-338.69	-707.97	5.60
7005.00	27.97	308.58	6905.91	-325.66	-325.66	-725.81	4.89
7053.00	25.83	318.20	6948.73	-310.84	-310.84	-741.59	10.09
7100.00	27.34	329.38	6990.79	-293.90	-293.90	-753.93	11.10
7147.00	32.46	332.32	7031.52	-273.43	-273.43	-765.29	11.32
7194.00	36.28	328.89	7070.31	-250.34	-250.34	-778.34	9.12
7241.00	39.74	330.03	7107.34	-225.42	-225.42	-793.03	7.52

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
7288.00	42.38	329.49	7142.77	-198.75	-198.75	-808.58	5.66
7335.00	45.82	328.88	7176.52	-170.67	-170.67	-825.34	7.36
7382.00	50.82	331.04	7207.77	-140.28	-140.28	-842.88	11.18
7430.00	56.70	333.88	7236.14	-105.96	-105.96	-860.74	13.16
7477.00	62.08	335.42	7260.06	-69.41	-69.41	-878.04	11.78
7524.00	66.69	338.68	7280.38	-30.39	-30.39	-894.54	11.63
7571.00	68.67	344.79	7298.24	10.87	10.87	-908.14	12.74
7618.00	69.80	348.90	7314.91	53.66	53.66	-918.13	8.53
7665.00	71.65	352.11	7330.43	97.41	97.41	-925.44	7.56
7713.00	77.65	352.80	7343.13	143.27	143.27	-931.51	12.57
7760.00	81.34	353.06	7351.70	189.13	189.13	-937.20	7.87
7773.00	82.42	353.22	7353.53	201.90	201.90	-938.74	8.43
7881.00	89.13	357.12	7361.49	309.15	309.15	-947.79	7.18
7973.00	88.79	357.12	7363.16	401.01	401.01	-952.42	0.36
8064.00	89.16	357.23	7364.78	491.89	491.89	-956.90	0.42
8156.00	89.50	358.89	7365.86	583.83	583.83	-960.03	1.84
8247.00	89.43	1.12	7366.71	674.82	674.82	-960.02	2.45
8339.00	89.60	2.96	7367.49	766.75	766.75	-956.75	2.01
8431.00	90.44	2.49	7367.47	858.65	858.65	-952.38	1.04
8522.00	90.94	1.83	7366.37	949.57	949.57	-948.95	0.91

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
8614.00	89.83	0.97	7365.75	1041.54	1041.54	-946.70	1.53
8705.00	89.16	1.53	7366.55	1132.52	1132.52	-944.71	0.96
8797.00	89.66	1.25	7367.50	1224.48	1224.48	-942.47	0.63
8889.00	89.80	2.09	7367.93	1316.44	1316.44	-939.79	0.93
8980.00	90.30	1.56	7367.85	1407.40	1407.40	-936.89	0.80
9072.00	90.37	0.75	7367.31	1499.37	1499.37	-935.02	0.88
9164.00	90.17	1.76	7366.88	1591.35	1591.35	-933.00	1.12
9255.00	90.74	1.90	7366.16	1682.30	1682.30	-930.09	0.65
9347.00	90.07	1.06	7365.51	1774.27	1774.27	-927.71	1.17
9439.00	90.77	2.04	7364.84	1866.23	1866.23	-925.23	1.31
9533.00	88.56	1.65	7365.39	1960.17	1960.17	-922.20	2.39
9627.00	90.70	2.65	7366.00	2054.10	2054.10	-918.67	2.52
9722.00	91.11	1.76	7364.50	2149.01	2149.01	-915.01	1.03
9816.00	89.20	1.03	7364.25	2242.98	2242.98	-912.73	2.18
9910.00	90.84	1.34	7364.22	2336.96	2336.96	-910.78	1.78
10005.00	90.81	1.45	7362.86	2431.92	2431.92	-908.48	0.12
10099.00	88.32	0.02	7363.58	2525.90	2525.90	-907.28	3.05
10194.00	89.16	0.79	7365.66	2620.87	2620.87	-906.62	1.20
10288.00	88.89	0.32	7367.25	2714.85	2714.85	-905.71	0.57

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft
10382.00	87.99	0.41	7369.81	2808.82	2808.82	-905.11	0.97
10477.00	87.65	359.55	7373.42	2903.75	2903.75	-905.14	0.97
10571.00	87.69	359.82	7377.24	2997.67	2997.67	-905.65	0.29
10665.00	89.73	358.99	7379.36	3091.63	3091.63	-906.62	2.35
10760.00	91.24	359.85	7378.55	3186.62	3186.62	-907.58	1.82
10854.00	91.64	359.75	7376.18	3280.59	3280.59	-907.91	0.44
10948.00	90.37	359.32	7374.53	3374.57	3374.57	-908.67	1.43
11042.00	85.88	357.69	7377.61	3468.46	3468.46	-911.12	5.08
11137.00	88.05	357.18	7382.63	3563.23	3563.23	-915.36	2.35
11231.00	89.56	356.81	7384.58	3657.07	3657.07	-920.29	1.65
11325.00	90.23	358.65	7384.75	3751.00	3751.00	-924.01	2.08
11420.00	91.78	359.88	7383.08	3845.97	3845.97	-925.24	2.08
11514.00	91.31	1.33	7380.55	3939.93	3939.93	-924.25	1.62
11608.00	90.34	1.95	7379.20	4033.88	4033.88	-921.56	1.23
11702.00	90.40	1.24	7378.60	4127.84	4127.84	-918.95	0.76
11797.00	90.37	2.51	7377.96	4222.78	4222.78	-915.83	1.34
11891.00	90.10	2.11	7377.57	4316.71	4316.71	-912.05	0.52
11986.00	89.83	0.38	7377.63	4411.68	4411.68	-909.98	1.84
12080.00	91.21	1.85	7376.77	4505.65	4505.65	-908.16	2.14
12174.00	90.87	2.36	7375.07	4599.57	4599.57	-904.70	0.65

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	7100ft
12269.00	87.85	359.70	7376.12	4694.53	4694.53	-902.99	4.24
12363.00	88.59	359.06	7379.04	4788.48	4788.48	-904.00	1.04
12457.00	89.73	358.22	7380.42	4882.44	4882.44	-906.23	1.51
12552.00	90.27	357.14	7380.42	4977.36	4977.36	-910.08	1.27
12646.00	89.06	357.50	7380.97	5071.26	5071.26	-914.48	1.34
12741.00	90.34	357.81	7381.47	5166.17	5166.17	-918.36	1.38
12835.00	90.77	359.12	7380.56	5260.13	5260.13	-920.88	1.47
12930.00	90.13	1.03	7379.81	5355.12	5355.12	-920.75	2.12
13024.00	86.91	356.57	7382.23	5449.04	5449.04	-922.71	5.85
13118.00	91.74	358.76	7383.34	5542.92	5542.92	-926.54	5.64
13213.00	91.58	359.65	7380.58	5637.87	5637.87	-927.85	0.95
13307.00	90.84	0.26	7378.60	5731.85	5731.85	-927.92	1.02
13401.00	91.48	2.06	7376.70	5825.80	5825.80	-926.02	2.03
13496.00	91.34	2.64	7374.37	5920.69	5920.69	-922.12	0.63
13590.00	89.09	2.38	7374.01	6014.60	6014.60	-918.00	2.41
13684.00	89.70	2.31	7375.00	6108.51	6108.51	-914.16	0.65
13779.00	90.64	3.06	7374.72	6203.41	6203.41	-909.70	1.27
13873.00	88.25	2.30	7375.63	6297.29	6297.29	-905.31	2.66
13967.00	89.36	0.49	7377.59	6391.24	6391.24	-903.02	2.26

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft

5" = 100' FEET MD