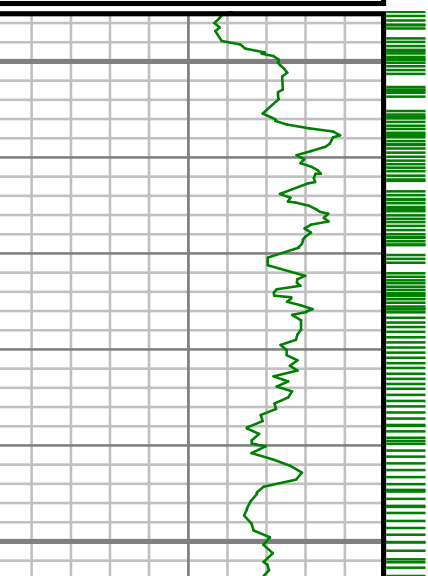
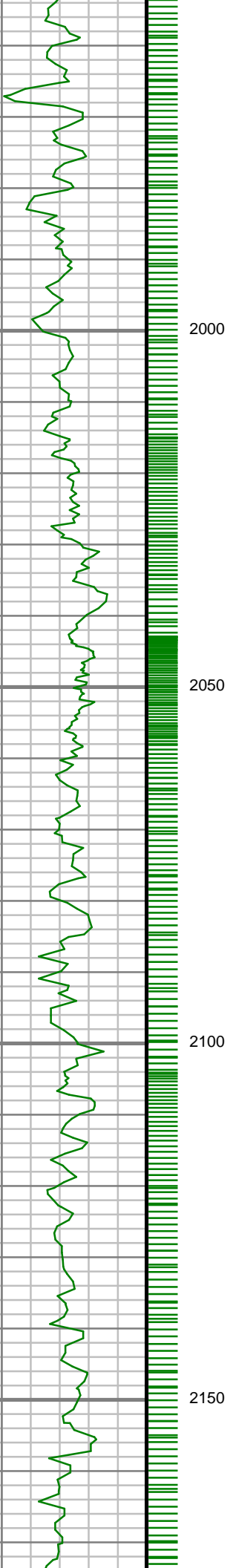


[illegible]

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 HILGERS 33N2-22HZ WATTENBERG FIELD WELD COUNTY, COLORADO API # 05123433090000							
Gamma Ray (GR) Unit = aapi		MEASURED DEPTH 1:240 (ft)	Rate of Penetration (ROP) Unit = ft/hr		Tool Temperature (TEMP) Unit = °F		Comments
0	150		1000	0	0	300	
		1900 <					

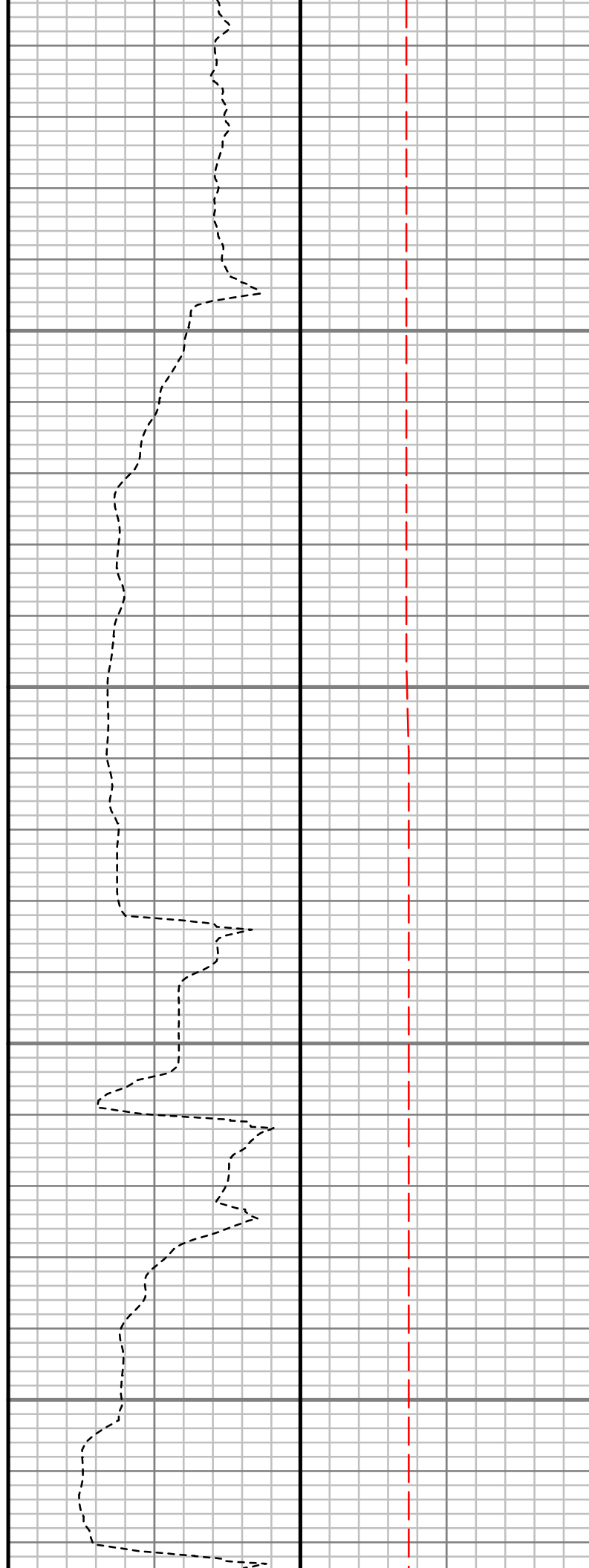


2000

2050

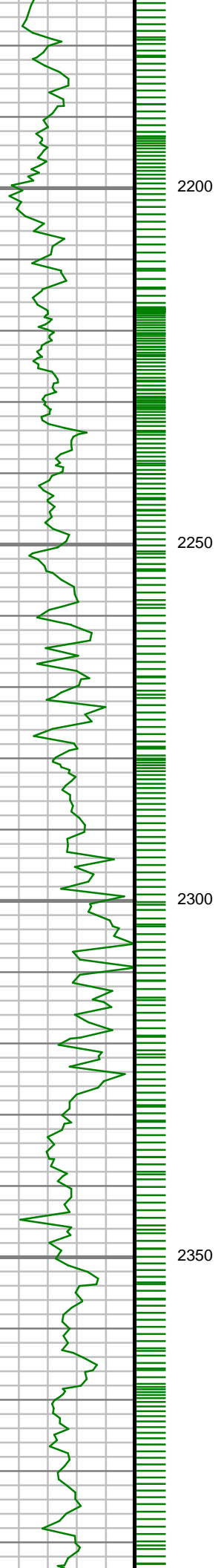
2100

2150



S: 22 MD: 2017.00 ft
Inc: 17.76 deg Az:
76.45 deg TVD:
1965.28 ft

S: 23 MD: 2105.00 ft
Inc: 17.43 deg Az:
75.95 deg TVD:
2049.16 ft

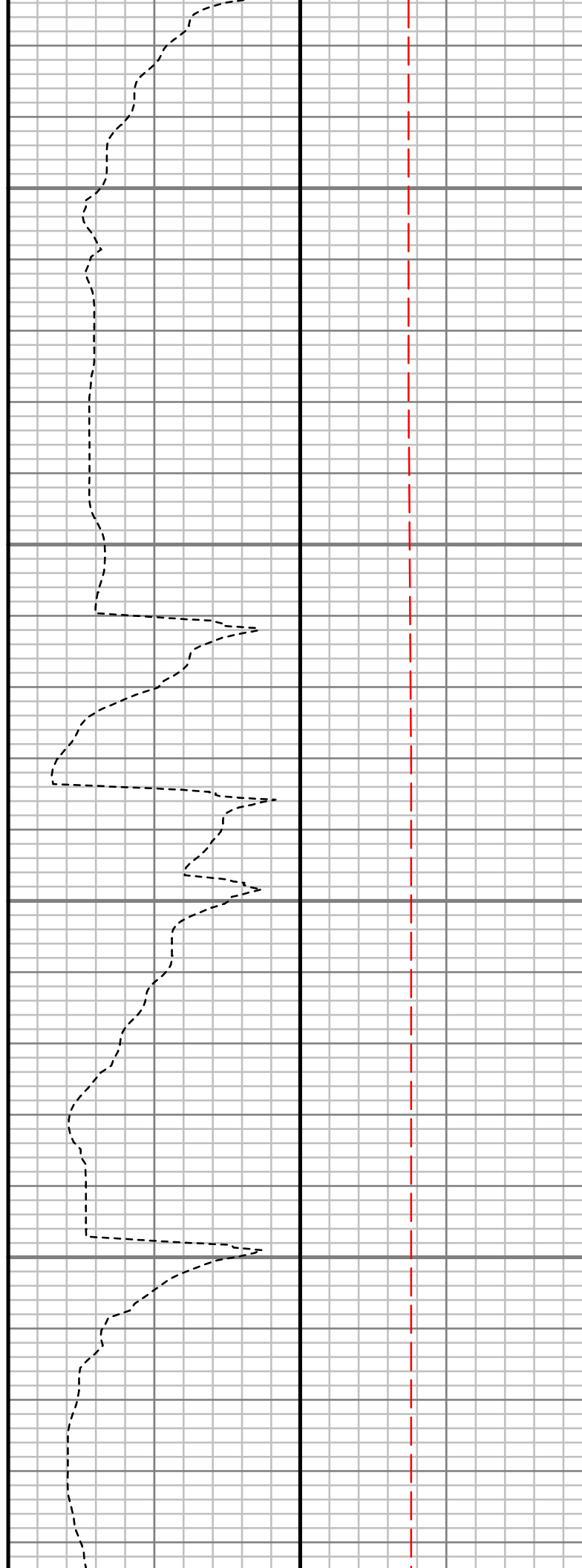


2200

2250

2300

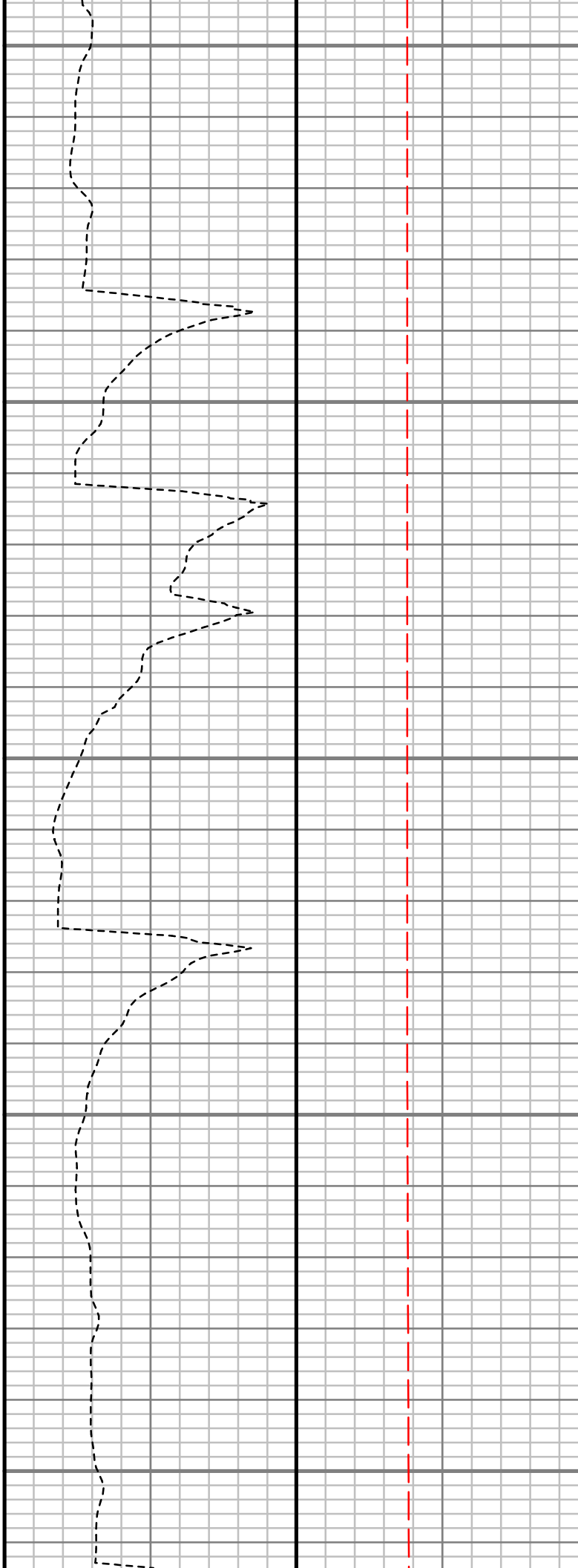
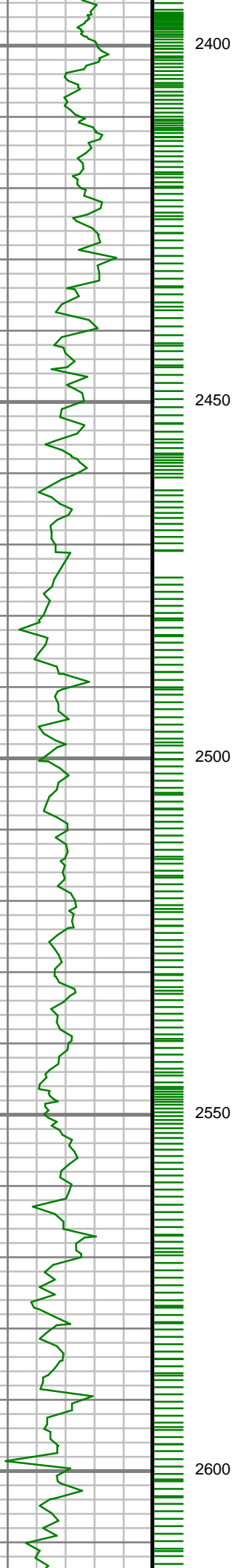
2350



S: 24 MD: 2194.00 ft
Inc: 17.19 deg Az:
78.68 deg TVD:
2134.13 ft

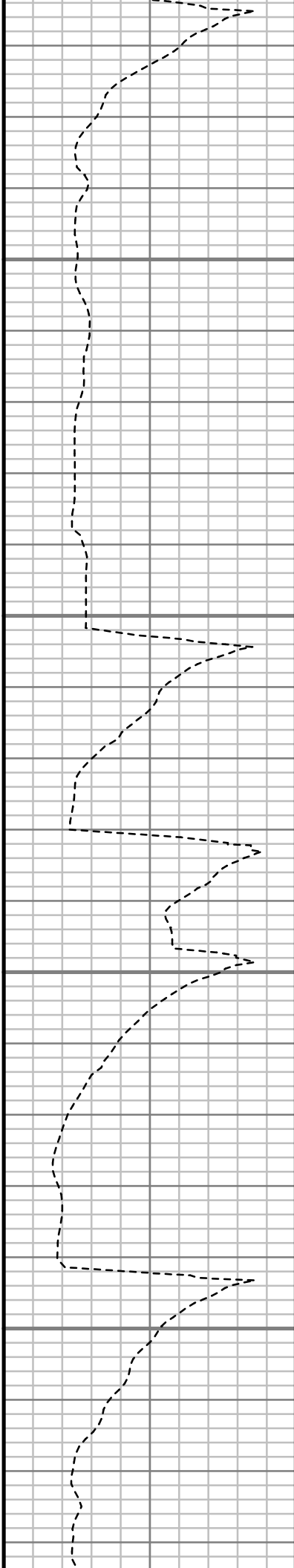
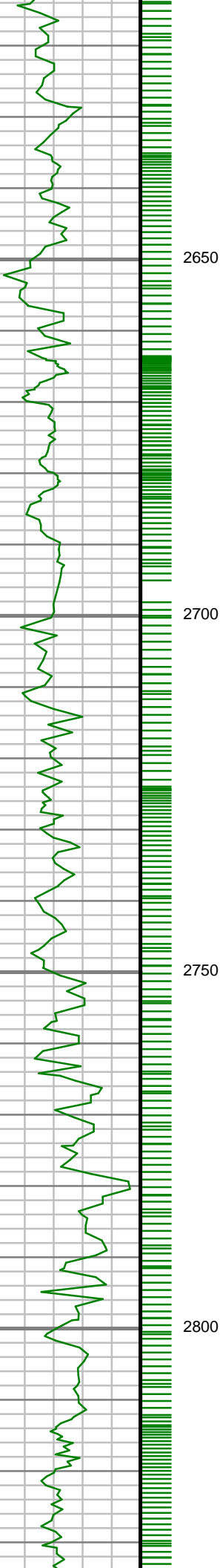
S: 25 MD: 2283.00 ft
Inc: 16.89 deg Az:
78.00 deg TVD:
2219.22 ft

S: 26 MD: 2372.00 ft
Inc: 16.62 deg Az:
80.51 deg TVD:
2304.45 ft



S: 27 MD: 2460.00 ft
Inc: 16.37 deg Az:
79.03 deg TVD:
2388.83 ft

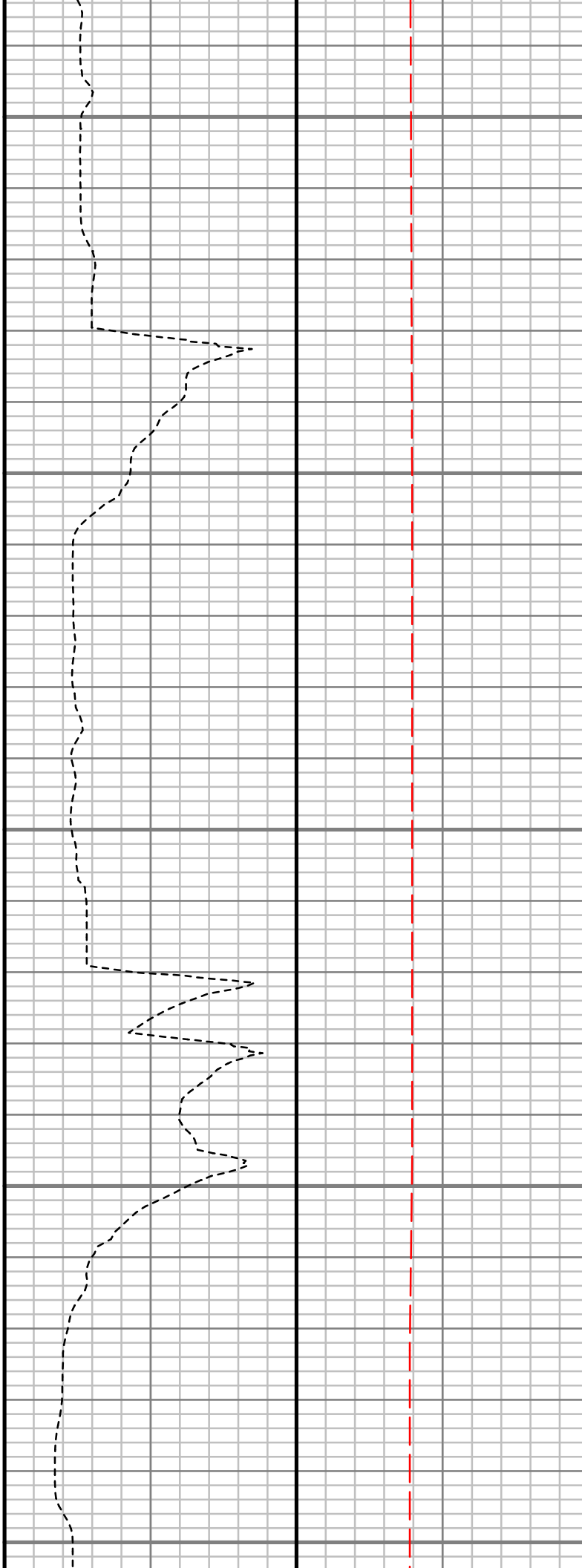
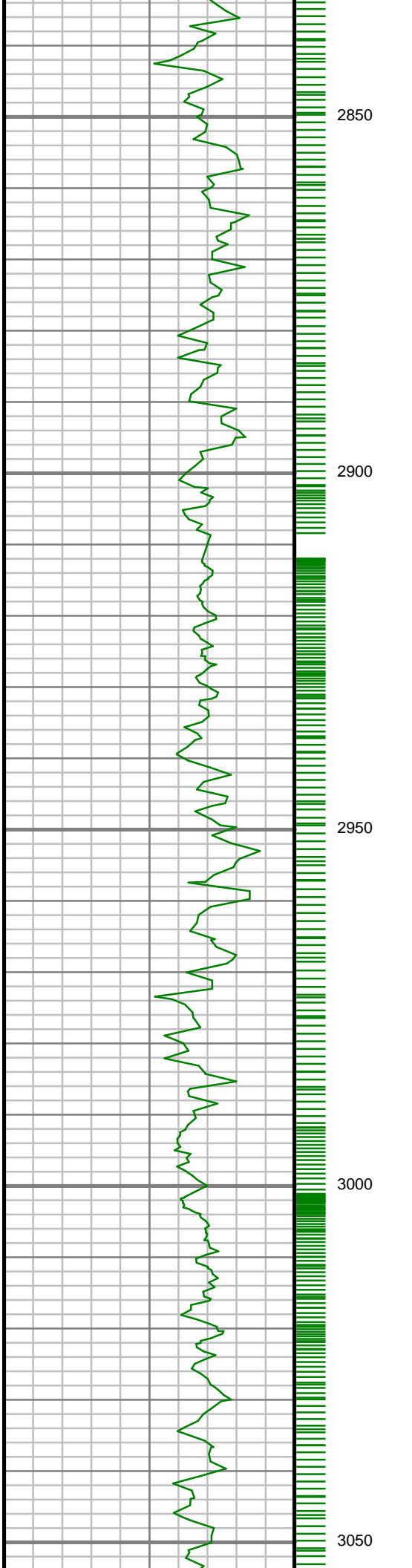
S: 28 MD: 2549.00 ft
Inc: 17.11 deg Az:
80.45 deg TVD:
2474.05 ft



S: 29 MD: 2638.00 ft
Inc: 16.32 deg Az:
79.82 deg TVD:
2559.29 ft

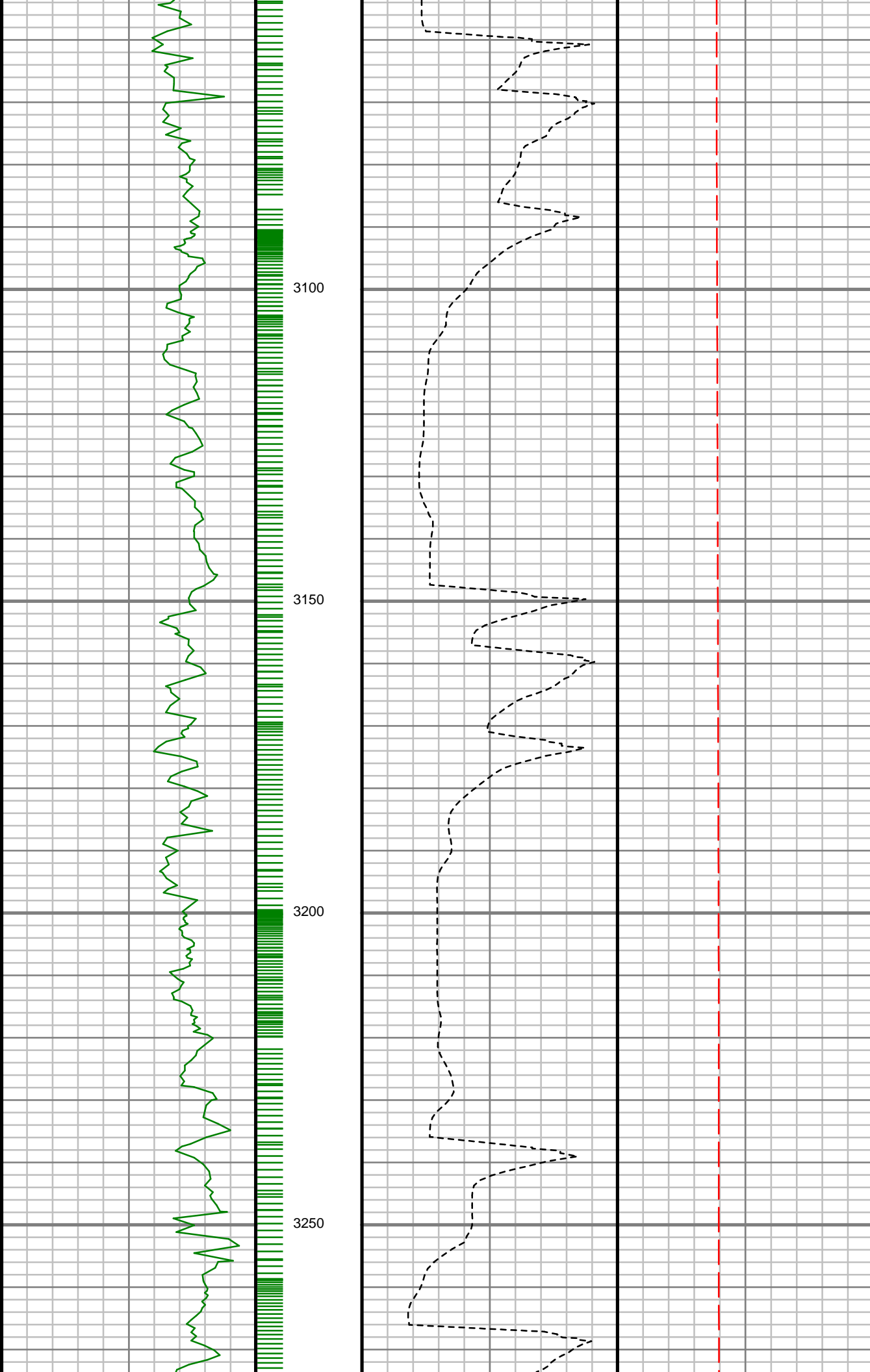
S: 30 MD: 2727.00 ft
Inc: 15.81 deg Az:
80.87 deg TVD:
2644.82 ft

S: 31 MD: 2816.00 ft
Inc: 16.16 deg Az:
83.29 deg TVD:
2730.38 ft



S: 32 MD: 2905.00 ft
Inc: 14.89 deg Az:
82.68 deg TVD:
2816.13 ft

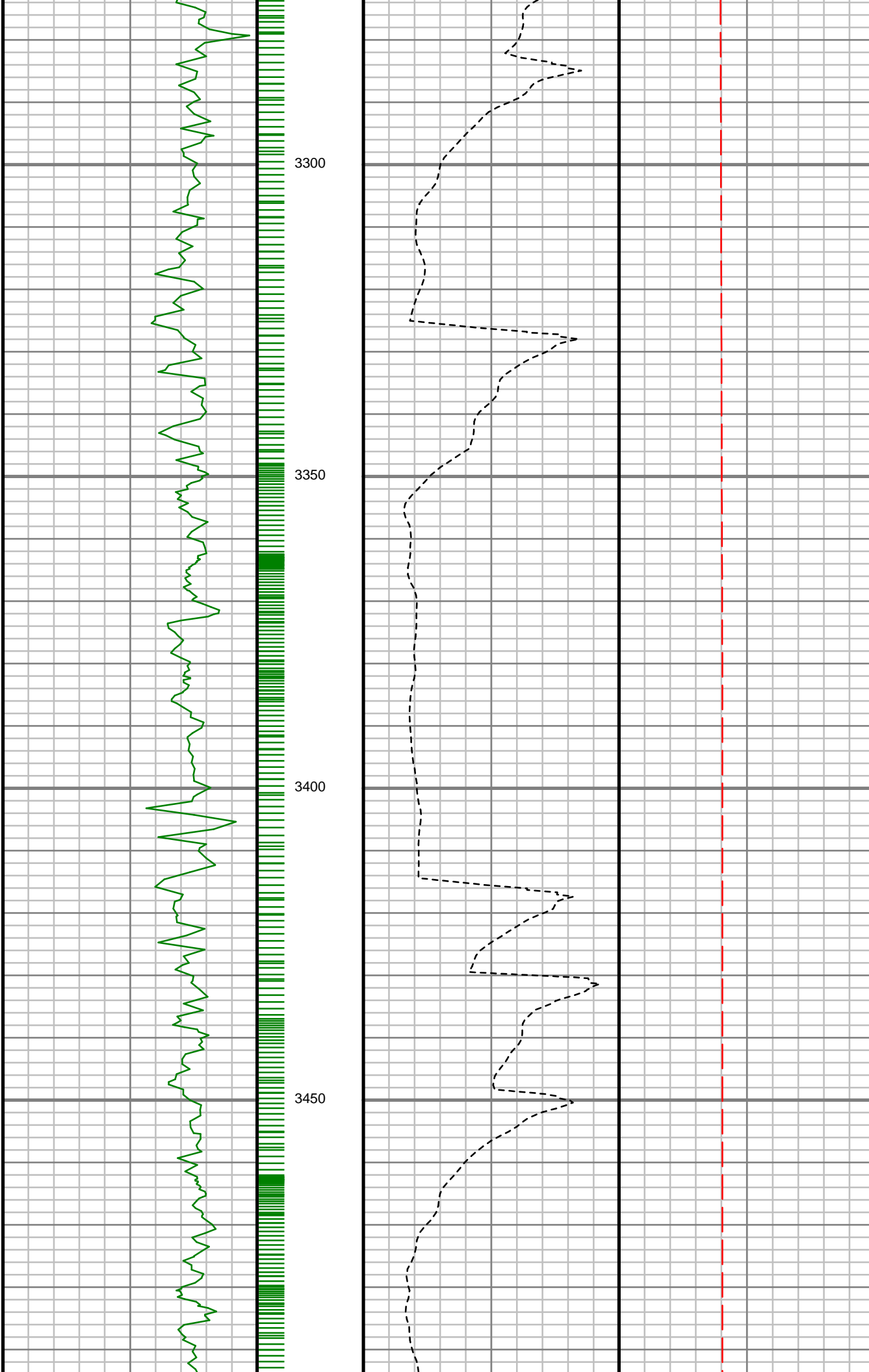
S: 33 MD: 2994.00 ft
Inc: 15.71 deg Az:
81.22 deg TVD:
2901.97 ft



S: 34 MD: 3083.00 ft
Inc: 16.69 deg Az:
81.51 deg TVD:
2987.44 ft

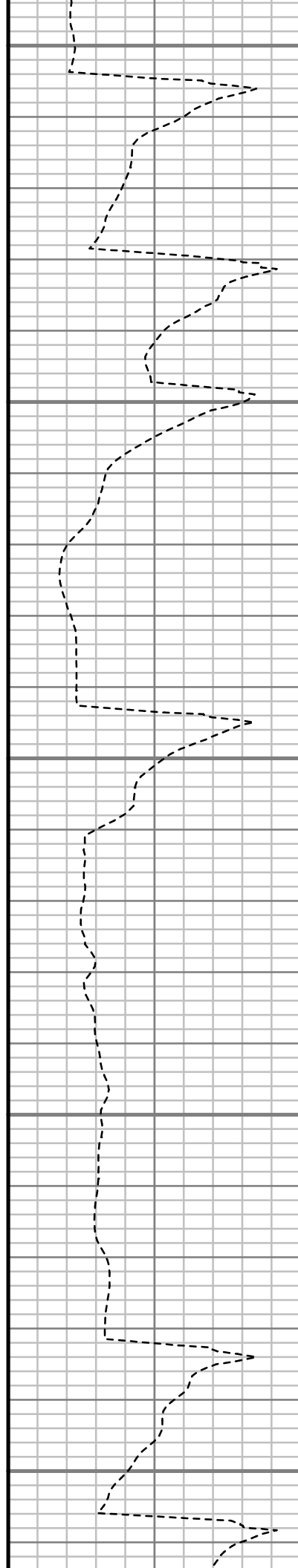
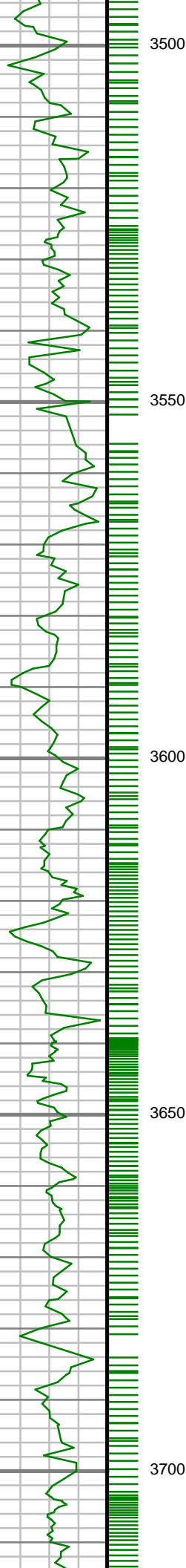
S: 35 MD: 3172.00 ft
Inc: 16.97 deg Az:
81.93 deg TVD:
3072.63 ft

S: 36 MD: 3261.00 ft
Inc: 15.78 deg Az:
80.26 deg TVD:
3158.02 ft



S: 37 MD: 3349.00 ft
Inc: 15.58 deg Az:
81.91 deg TVD:
3242.74 ft

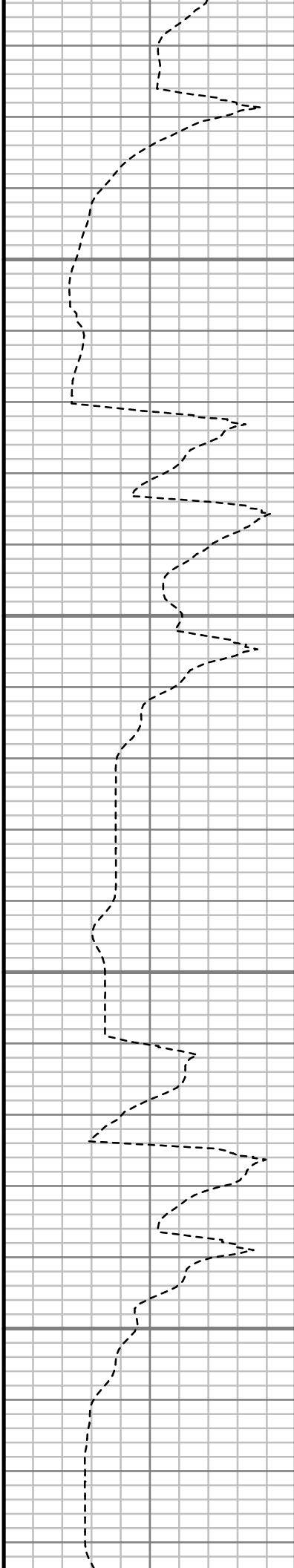
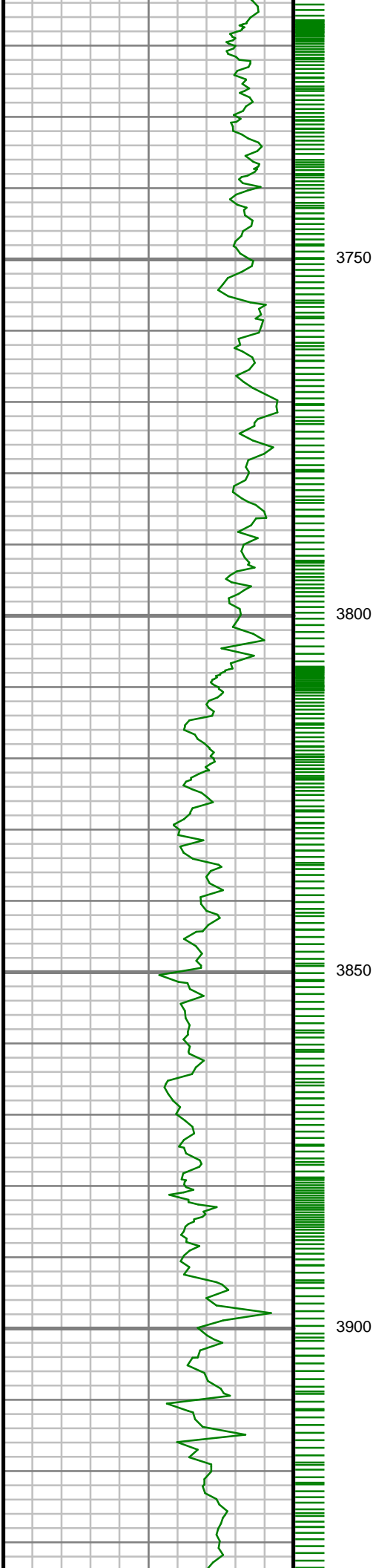
S: 38 MD: 3438.00 ft
Inc: 15.26 deg Az:
79.79 deg TVD:
3328.54 ft



S: 39 MD: 3527.00 ft
Inc: 15.04 deg Az:
78.82 deg TVD:
3414.44 ft

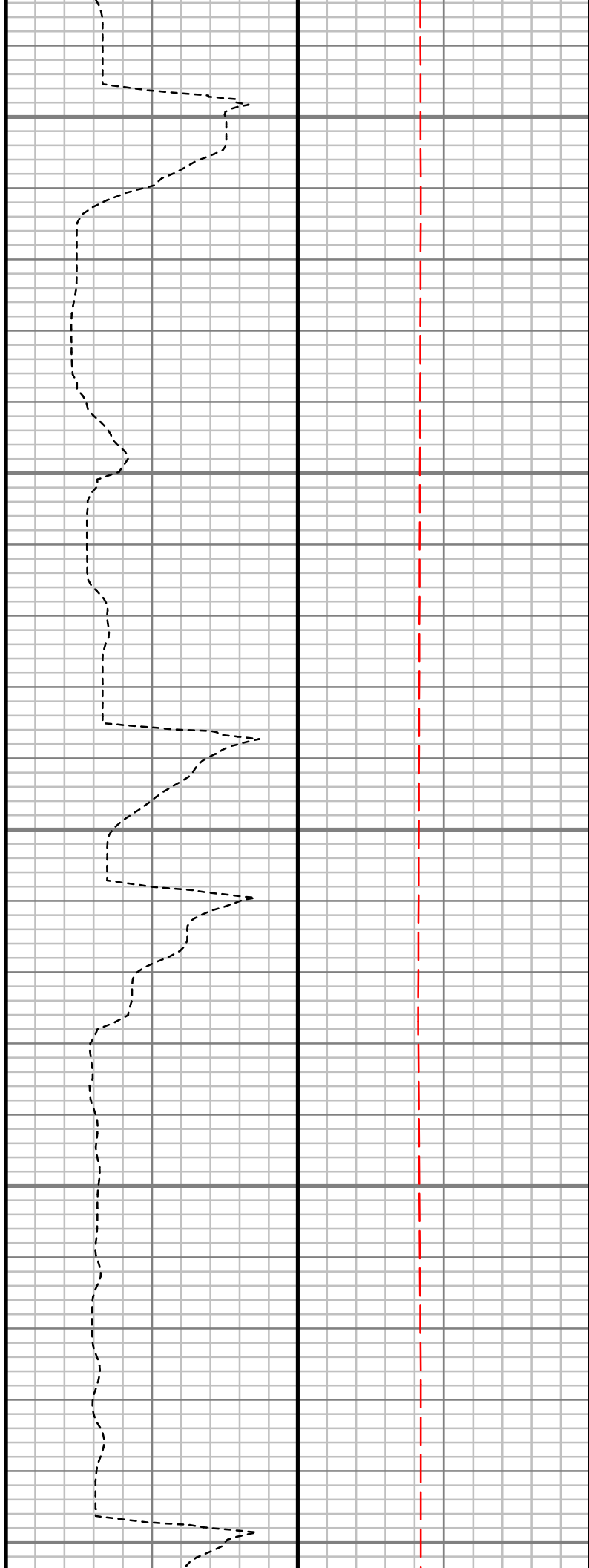
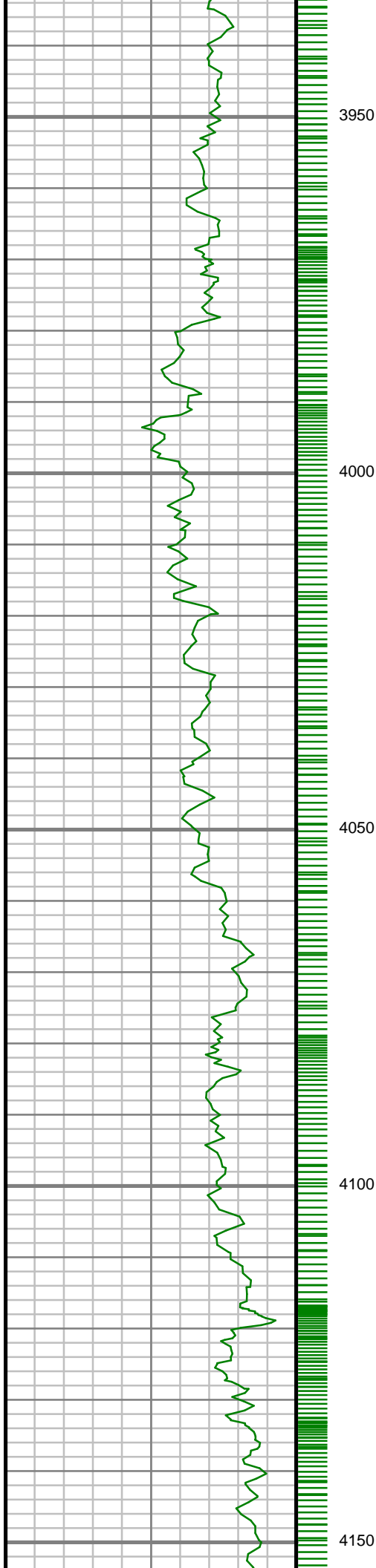
S: 40 MD: 3616.00 ft
Inc: 15.06 deg Az:
77.83 deg TVD:
3500.39 ft

S: 41 MD: 3705.00 ft
Inc: 13.44 deg Az:
76.96 deg TVD:
3586.65 ft



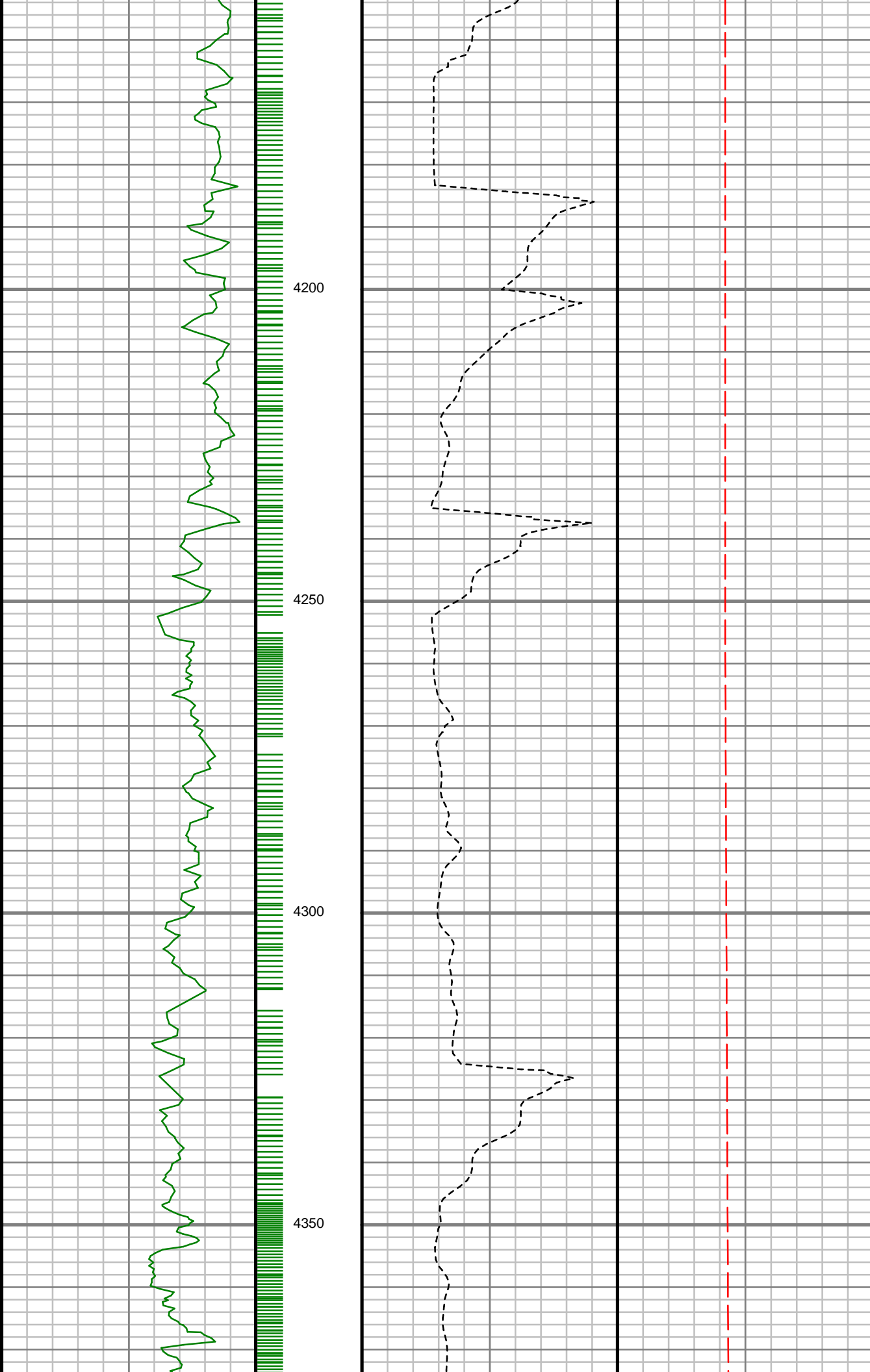
S: 42 MD: 3793.00 ft
Inc: 16.39 deg Az:
77.27 deg TVD:
3671.68 ft

S: 43 MD: 3882.00 ft
Inc: 17.85 deg Az:
77.51 deg TVD:
3756.73 ft



S: 44 MD: 3971.00 ft
Inc: 17.54 deg Az:
74.81 deg TVD:
3841.52 ft

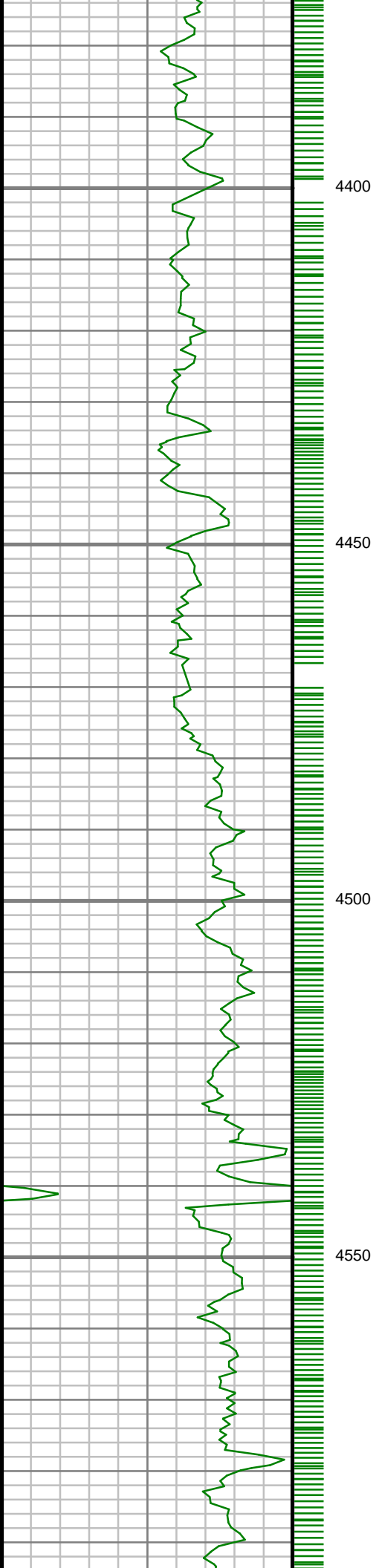
S: 45 MD: 4083.00 ft
Inc: 16.61 deg Az:
72.91 deg TVD:
3948.58 ft



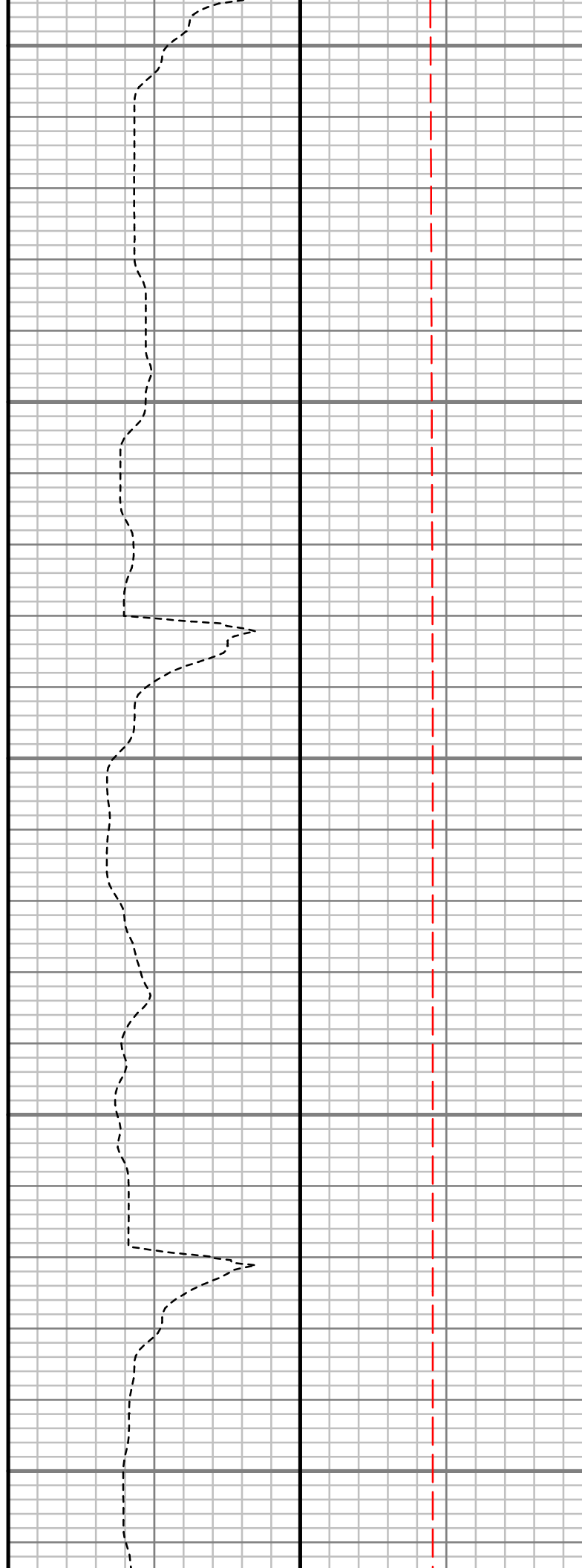
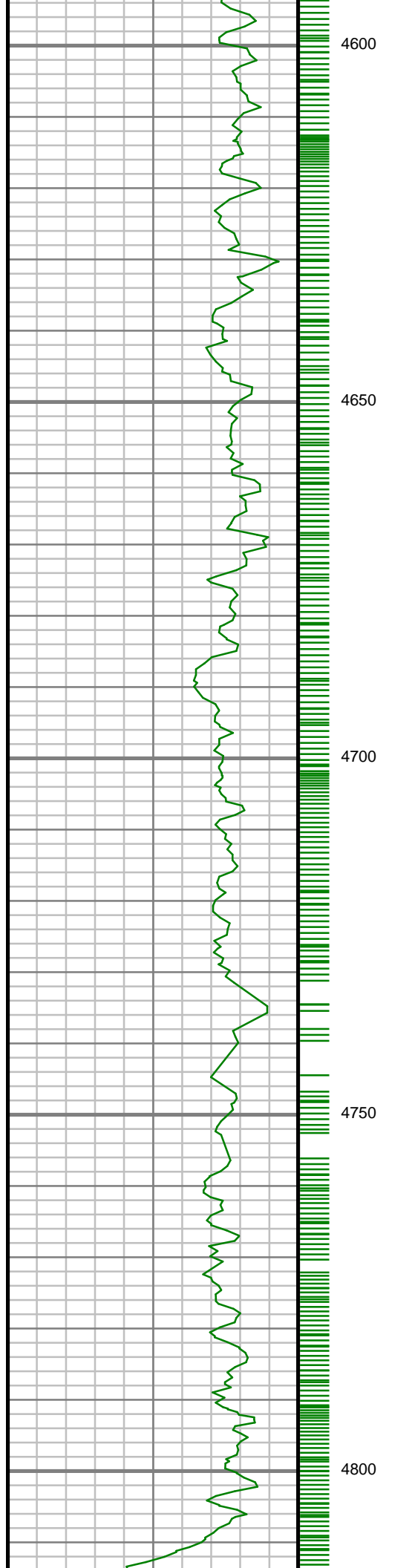
S: 46 MD: 4171.00 ft
Inc: 14.69 deg Az:
71.49 deg TVD:
4033.32 ft

S: 47 MD: 4260.00 ft
Inc: 14.64 deg Az:
77.54 deg TVD:
4119.42 ft

S: 48 MD: 4349.00 ft
Inc: 13.07 deg Az:
75.99 deg TVD:
4205.83 ft



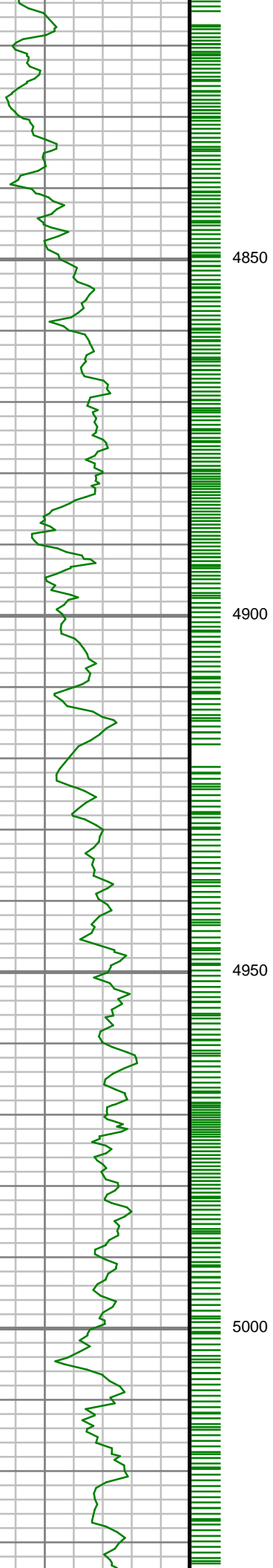
S: 49 MD: 4437.00 ft
Inc: 11.83 deg Az:
74.51 deg TVD:
4291.76 ft



S: 50 MD: 4615.00 ft
Inc: 10.40 deg Az:
71.65 deg TVD:
4466.42 ft

S: 51 MD: 4704.00 ft
Inc: 9.04 deg Az: 68.68
deg TVD: 4554.14 ft

S: 52 MD: 4792.00 ft
Inc: 7.94 deg Az: 65.43
deg TVD: 4641.17 ft

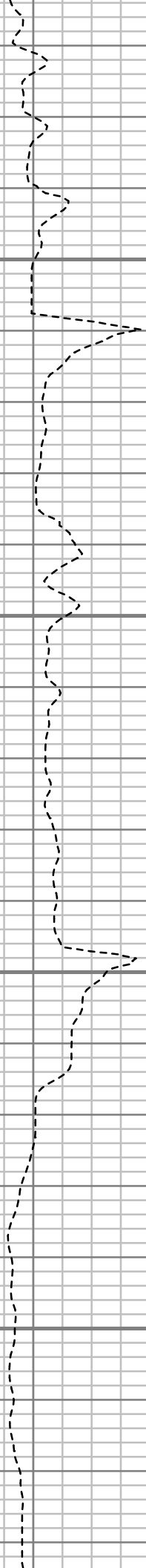


4850

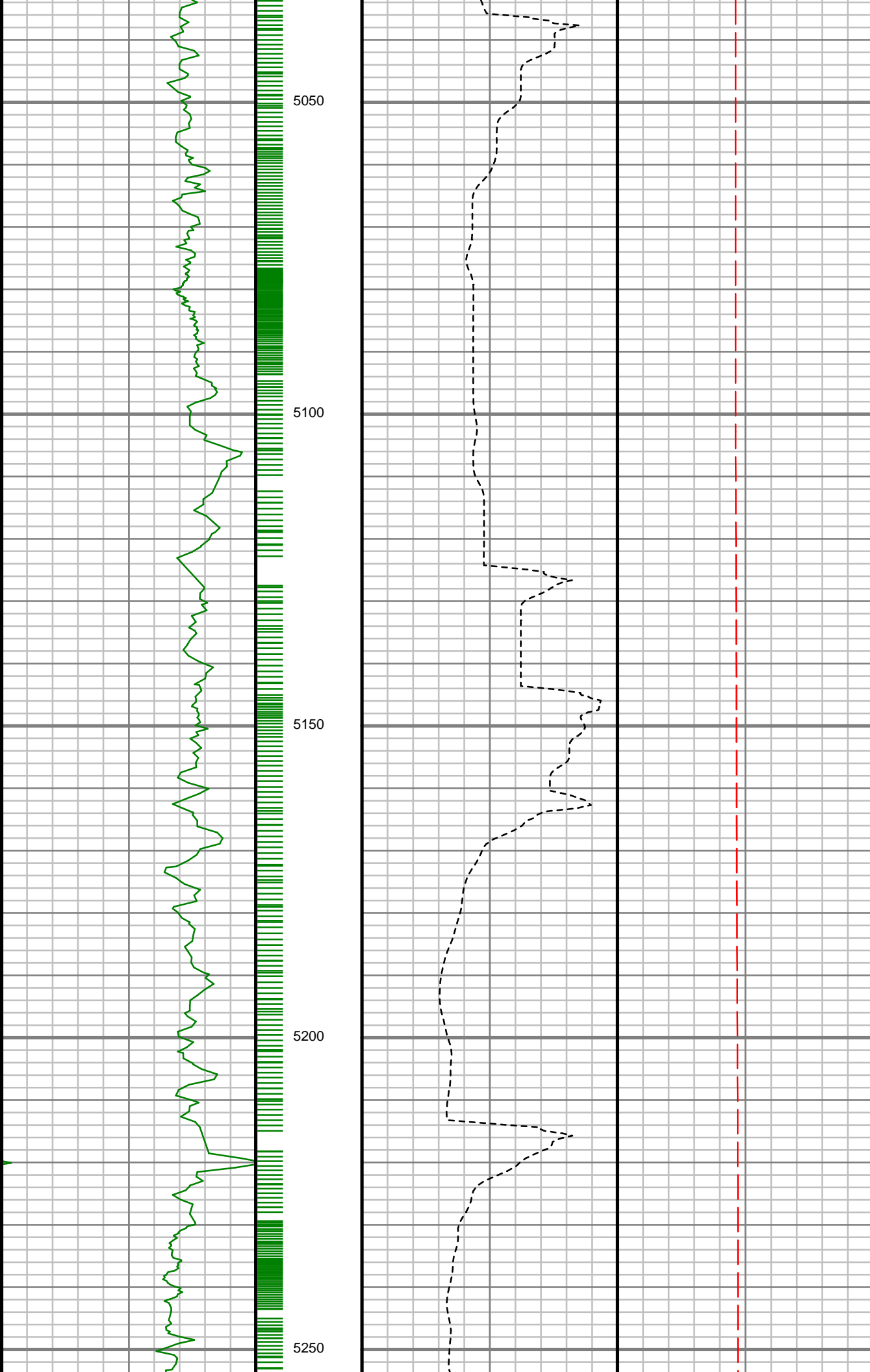
4900

4950

5000

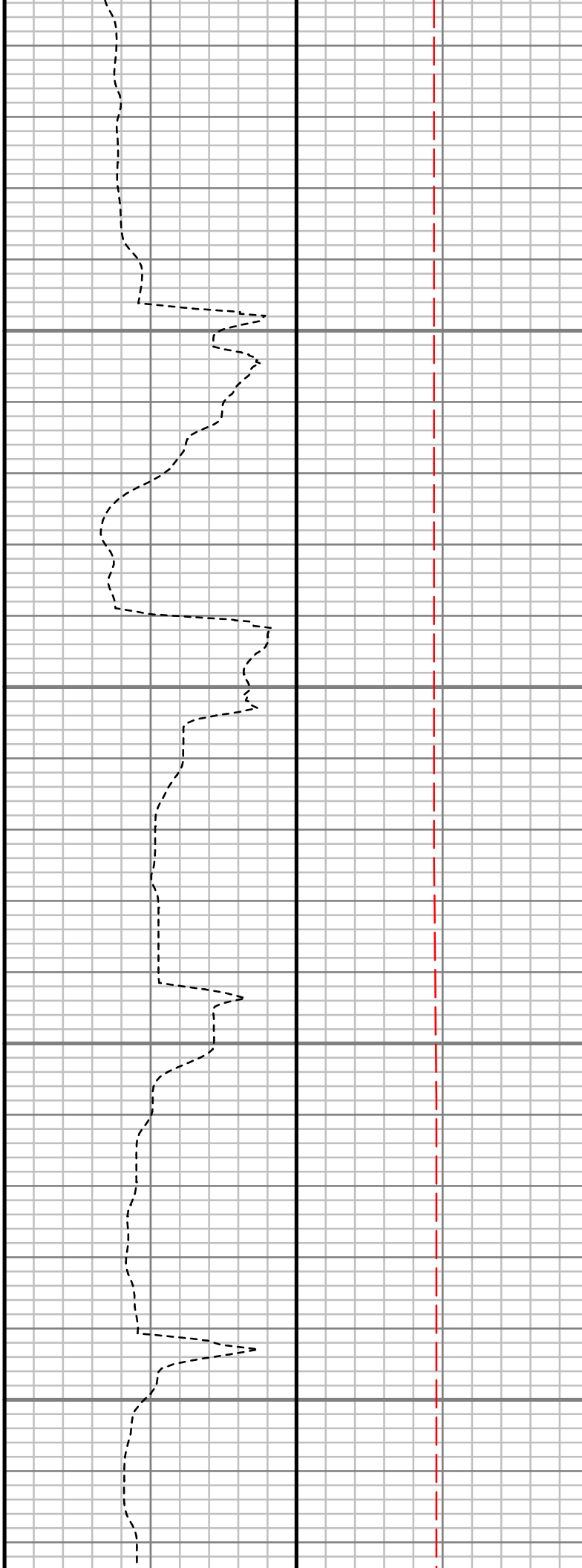
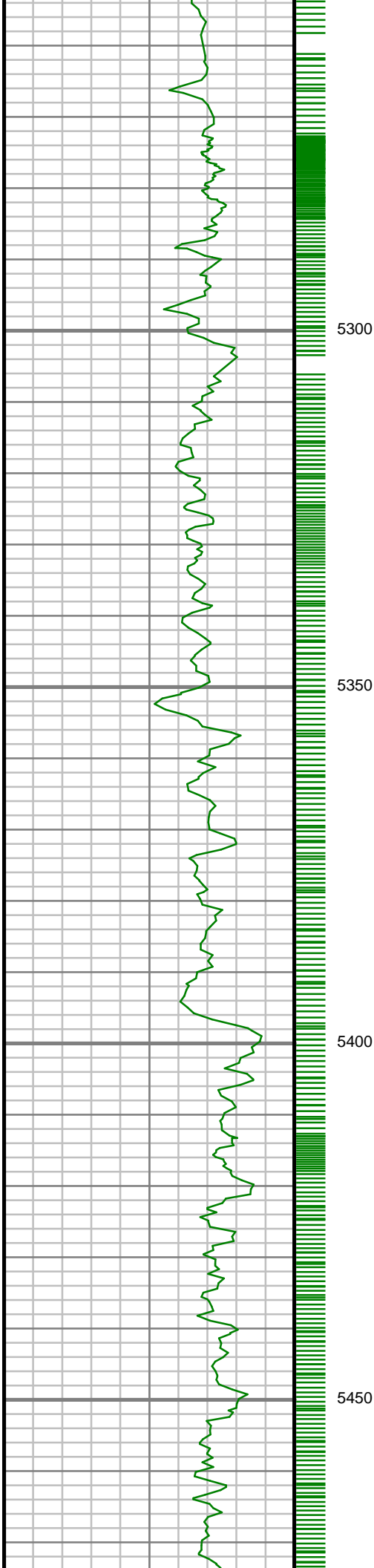


S: 53 MD: 4881.00 ft
Inc: 7.13 deg Az: 62.68
deg TVD: 4729.41 ft



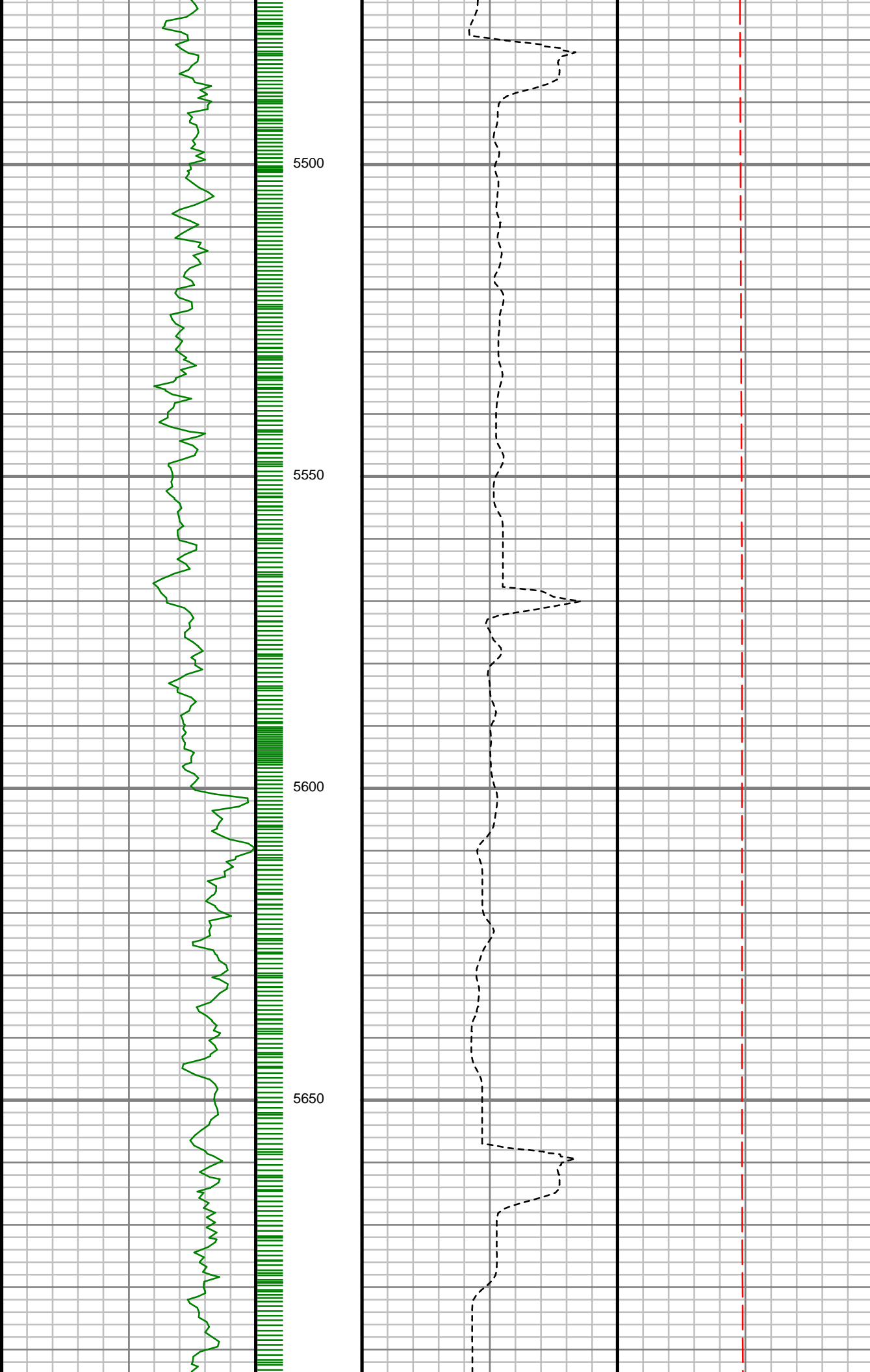
S: 54 MD: 5058.00 ft
Inc: 5.27 deg Az: 59.16
deg TVD: 4905.36 ft

S: 55 MD: 5236.00 ft
Inc: 2.72 deg Az: 80.42
deg TVD: 5082.93 ft



S: 56 MD: 5325.00 ft
Inc: 2.02 deg Az: 72.44
deg TVD: 5171.85 ft

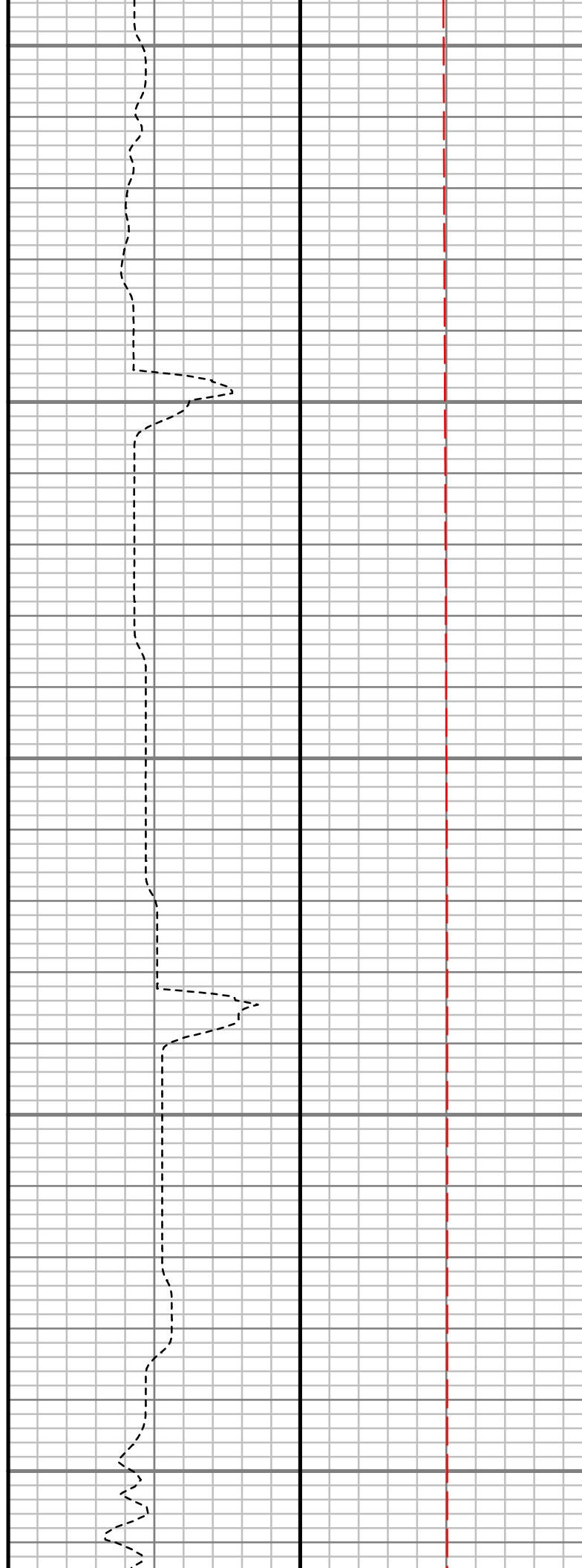
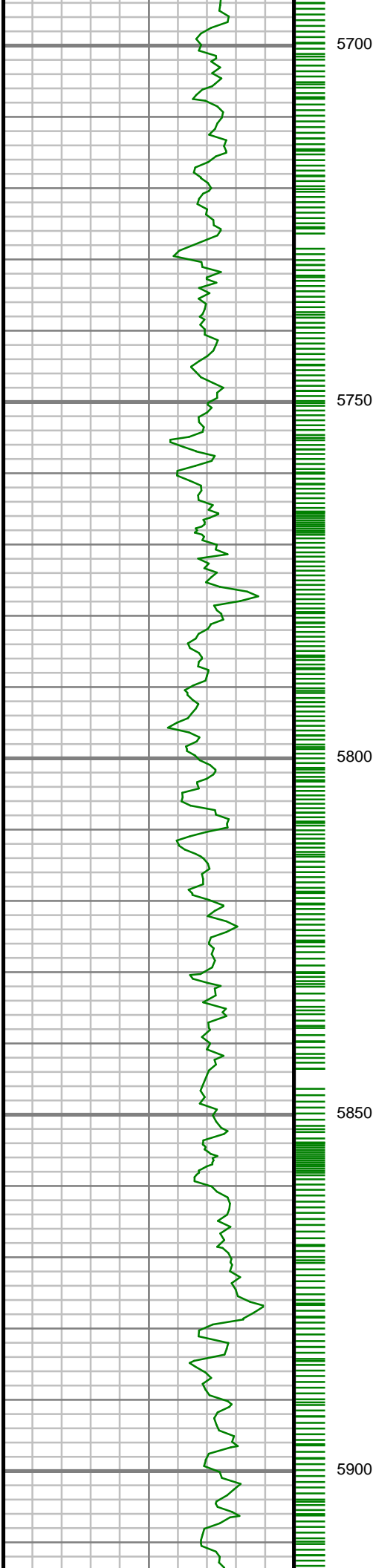
S: 57 MD: 5413.00 ft
Inc: 1.03 deg Az:
134.42 deg TVD:
5259.82 ft



S: 58 MD: 5502.00 ft
Inc: 0.88 deg Az:
159.84 deg TVD:
5348.81 ft

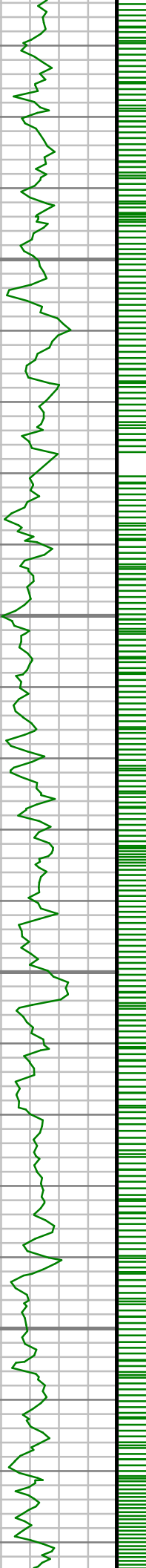
S: 59 MD: 5591.00 ft
Inc: 0.68 deg Az:
167.77 deg TVD:
5437.80 ft

S: 60 MD: 5679.00 ft
Inc: 0.47 deg Az:
198.35 deg TVD:
5525.80 ft



S: 61 MD: 5768.00 ft
Inc: 0.93 deg Az:
196.79 deg TVD:
5614.79 ft

S: 62 MD: 5857.00 ft
Inc: 0.93 deg Az:
184.75 deg TVD:
5703.78 ft

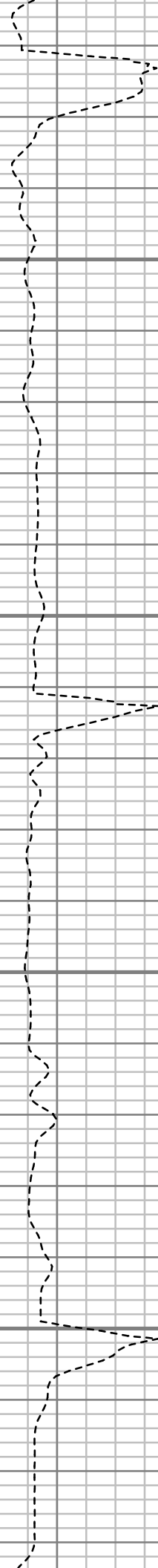


5950

6000

6050

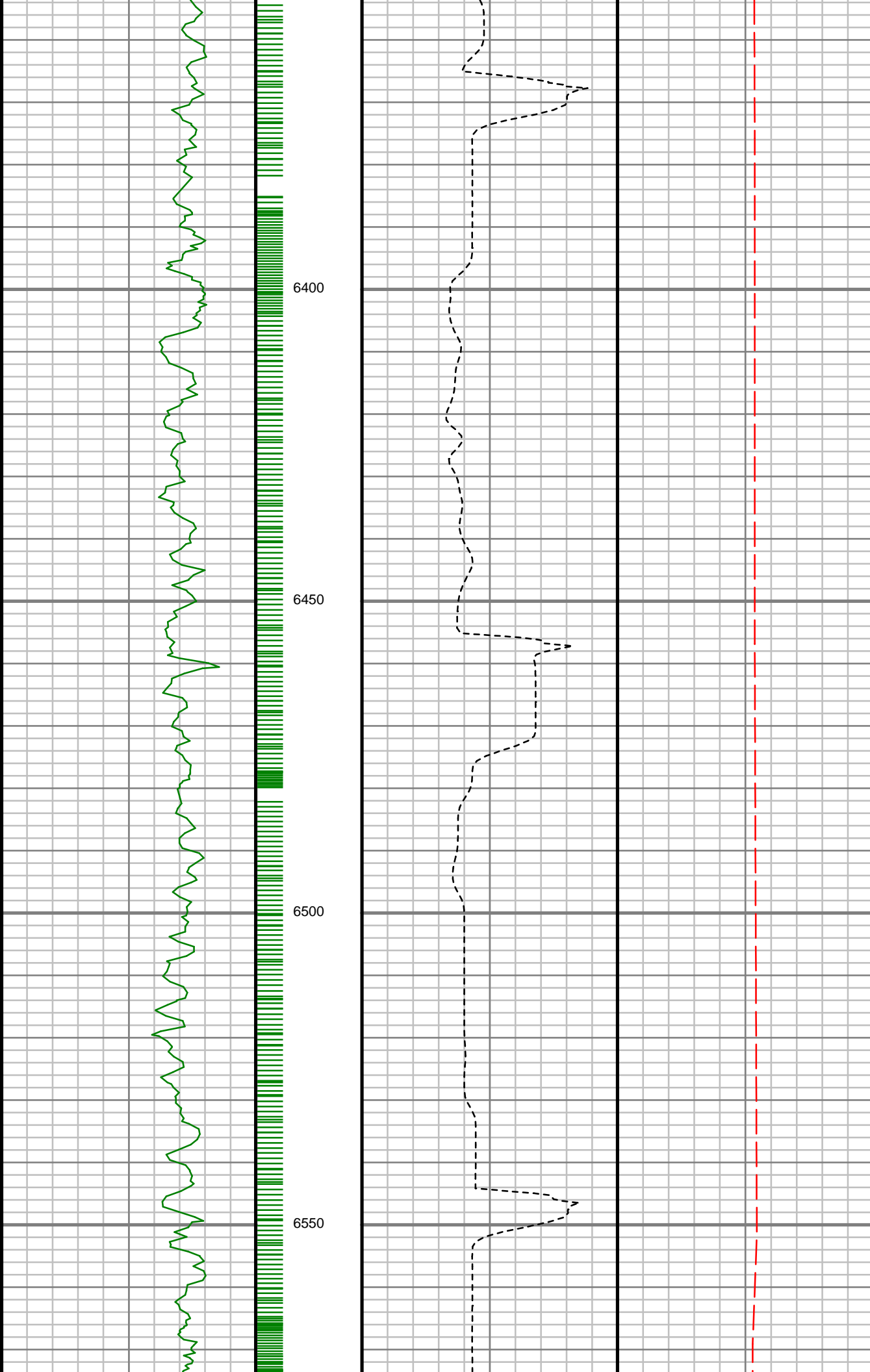
6100



S: 63 MD: 5946.00 ft
Inc: 0.89 deg Az:
176.06 deg TVD:
5792.77 ft

S: 64 MD: 6035.00 ft
Inc: 0.86 deg Az:
172.39 deg TVD:
5881.76 ft

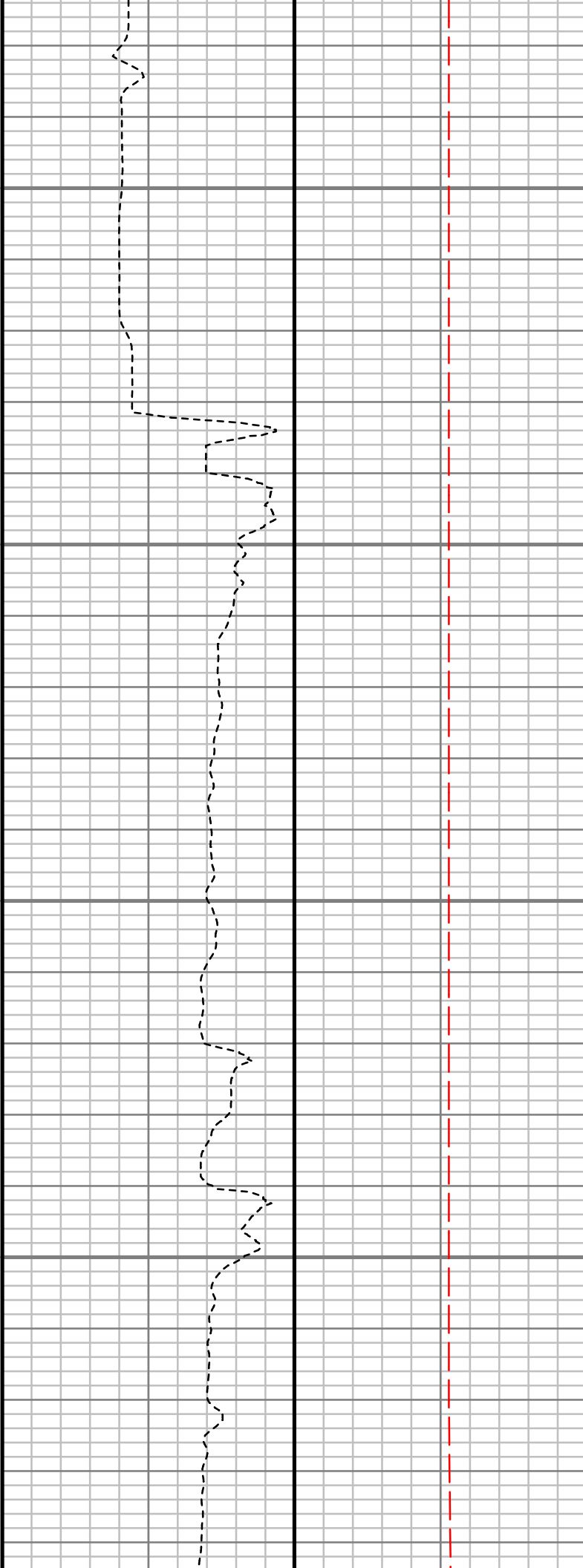
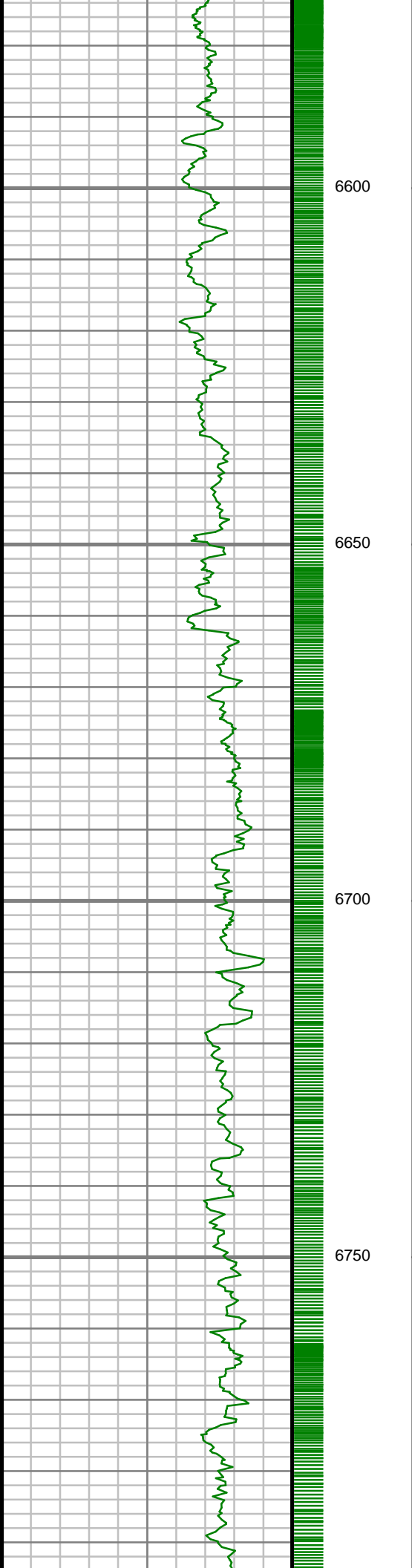
S: 65 MD: 6124.00 ft
Inc: 0.72 deg Az:
192.58 deg TVD:
5970.75 ft



S: 68 MD: 6390.00 ft
Inc: 0.36 deg Az:
202.78 deg TVD:
6236.74 ft

S: 69 MD: 6478.00 ft
Inc: 0.27 deg Az:
175.85 deg TVD:
6324.74 ft

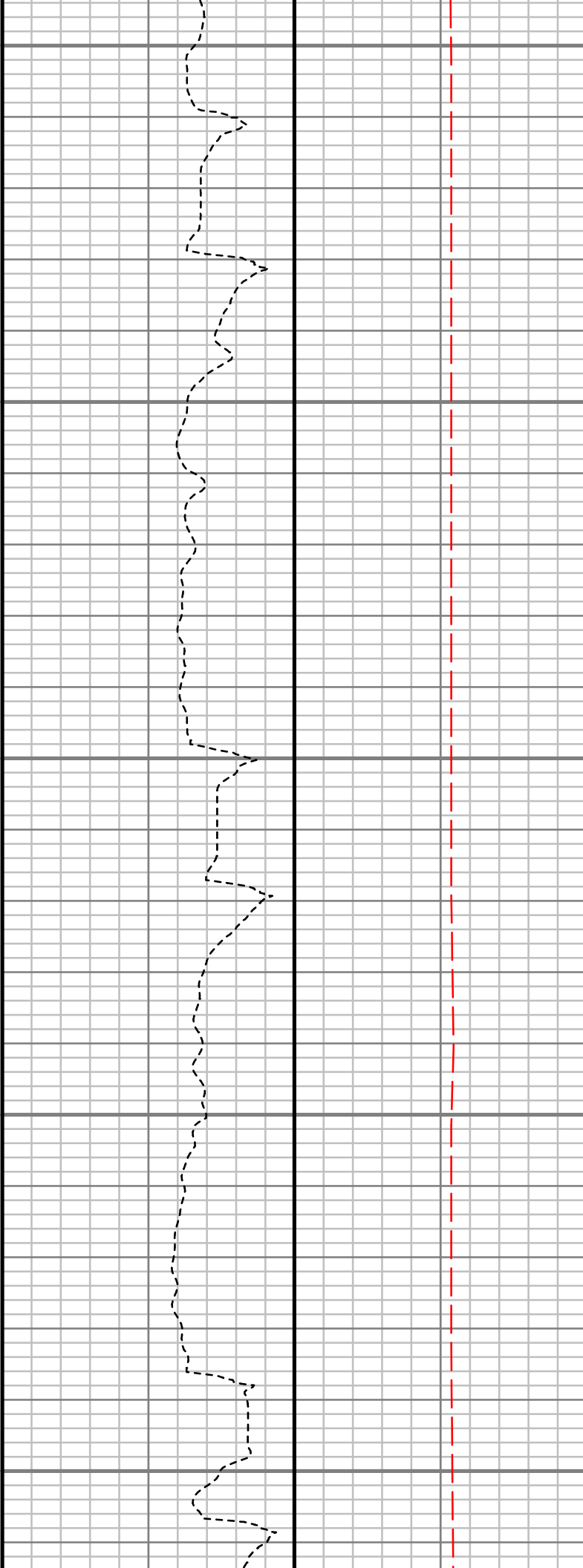
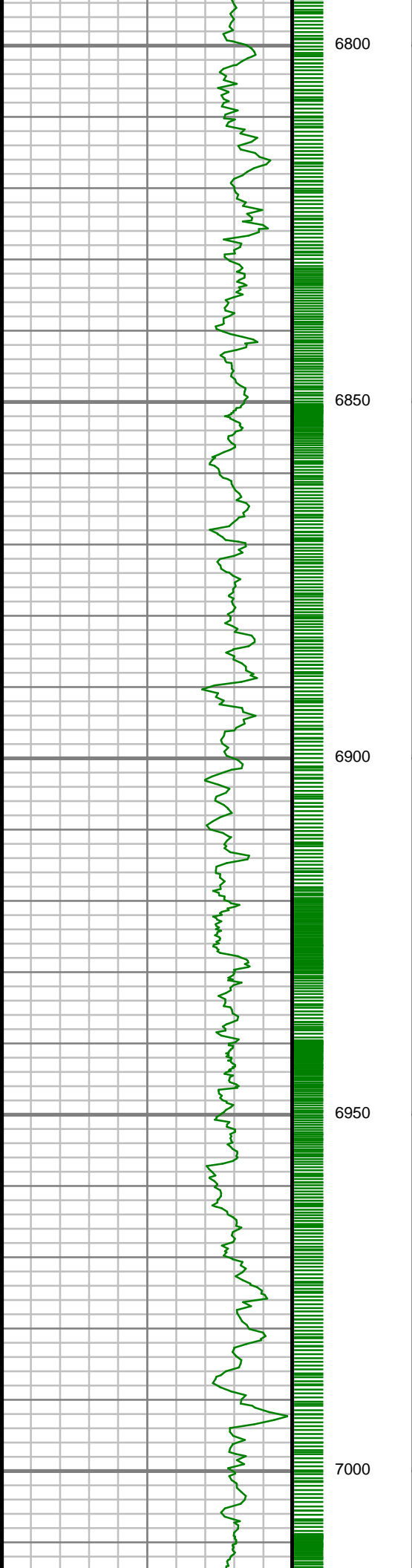
S: 70 MD: 6567.00 ft
Inc: 0.24 deg Az:
214.08 deg TVD:



6413.74 ft

S: 71 MD: 6656.00 ft
Inc: 2.62 deg Az:
278.19 deg TVD:
6502.70 ft

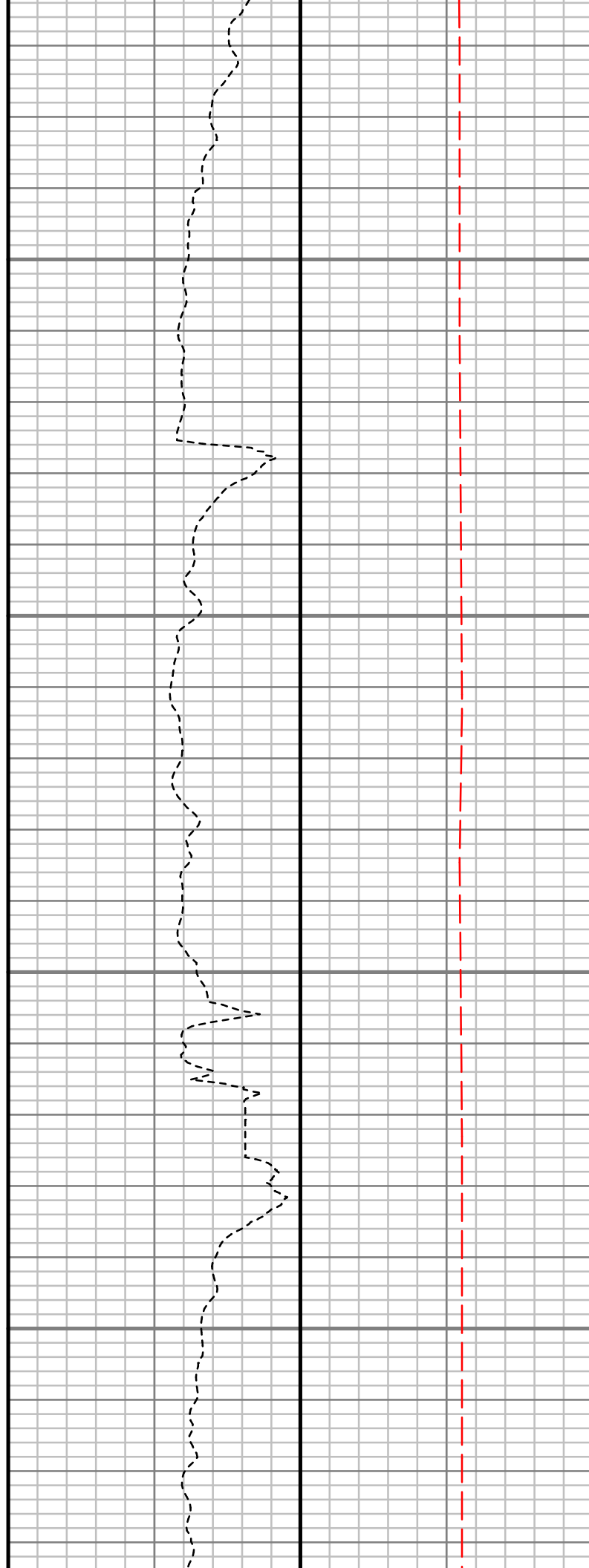
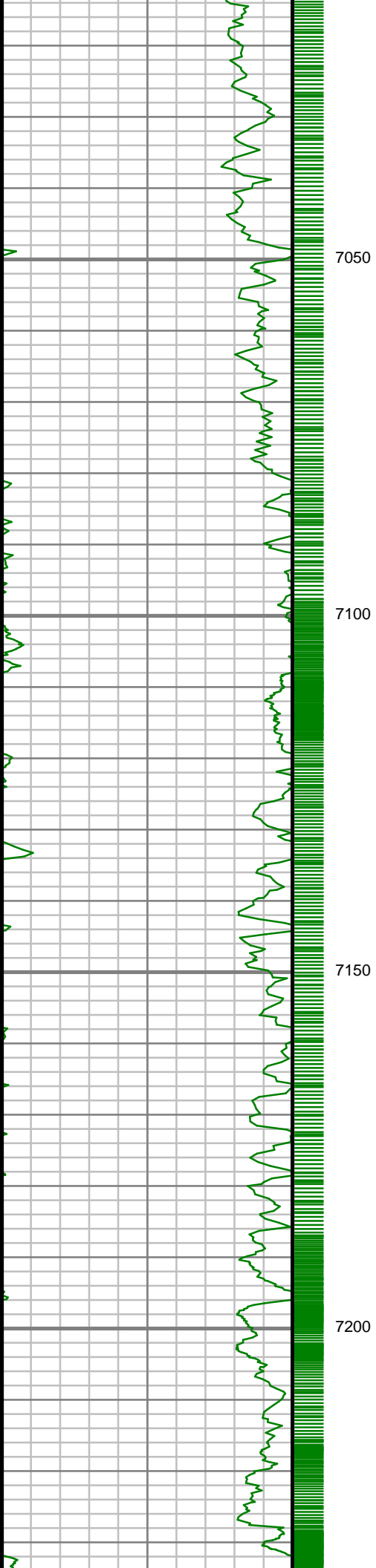
S: 72 MD: 6745.00 ft
Inc: 11.90 deg Az:
283.74 deg TVD:
6590.89 ft



S: 73 MD: 6833.00 ft
Inc: 18.47 deg Az:
289.96 deg TVD:
6675.78 ft

S: 74 MD: 6922.00 ft
Inc: 24.94 deg Az:
283.68 deg TVD:
6758.44 ft

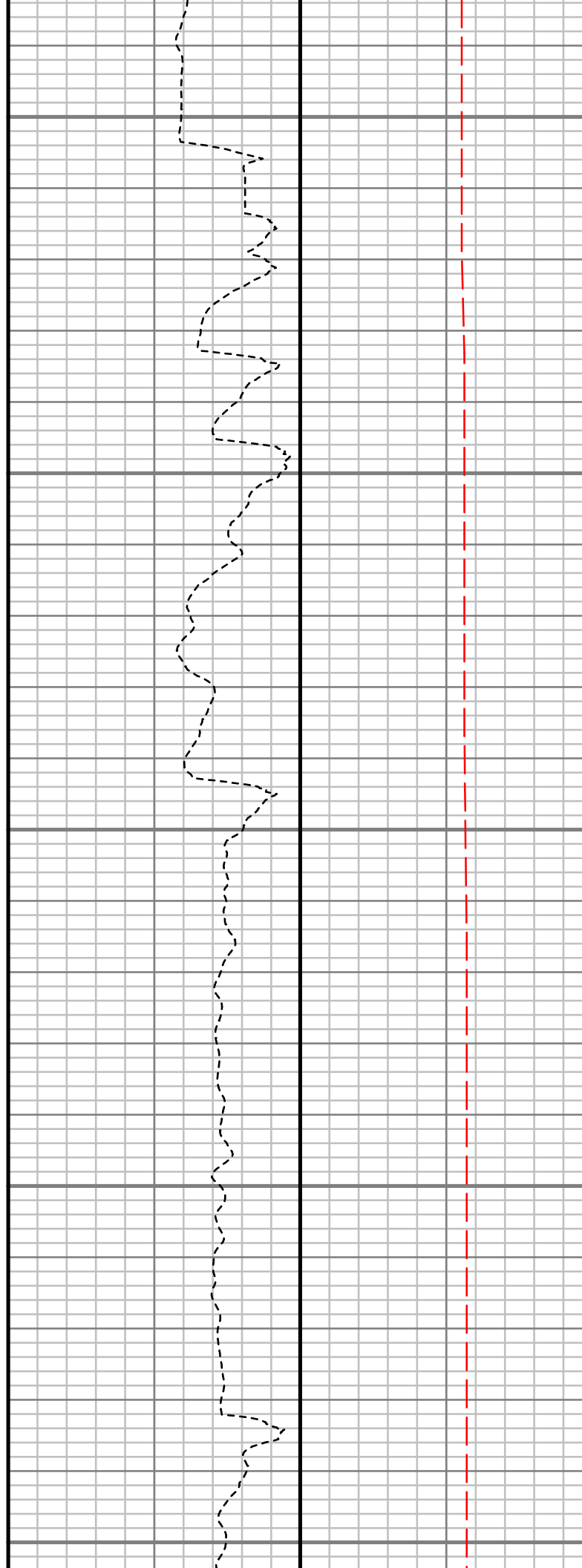
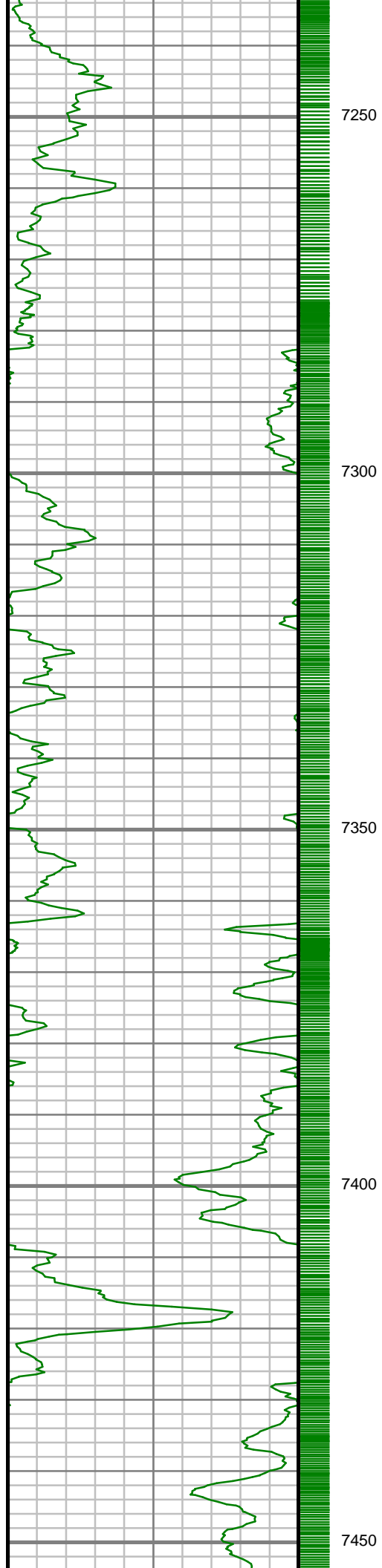
S: 75 MD: 7011.00 ft



Inc: 31.50 deg Az:
275.39 deg TVD:
6836.85 ft

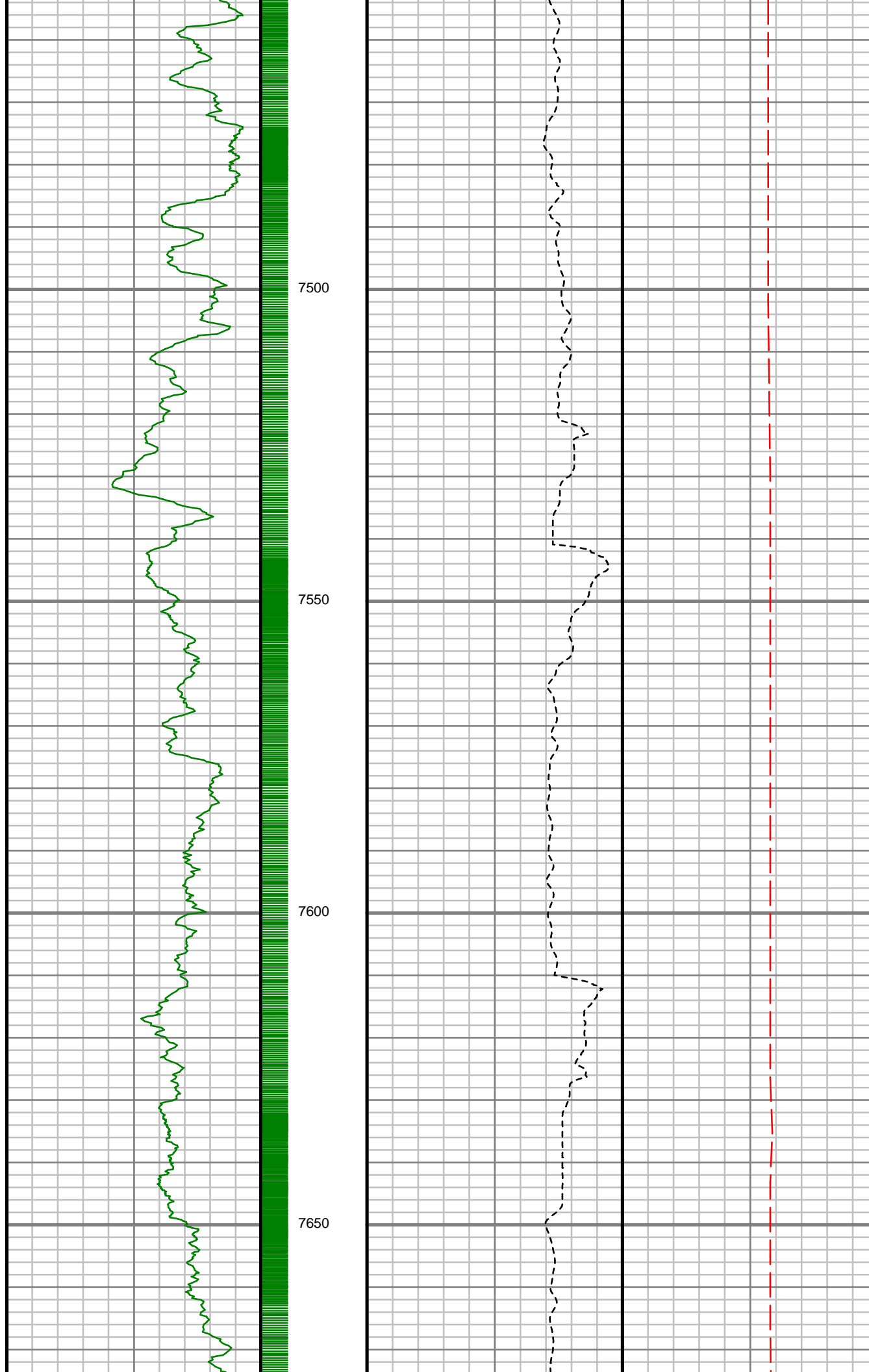
S: 76 MD: 7100.00 ft
Inc: 40.47 deg Az:
269.16 deg TVD:
6908.81 ft

S: 77 MD: 7189.00 ft
Inc: 45.77 deg Az:
264.85 deg TVD:
6973.77 ft



S: 78 MD: 7278.00 ft
Inc: 52.19 deg Az:
269.32 deg TVD:
7032.17 ft

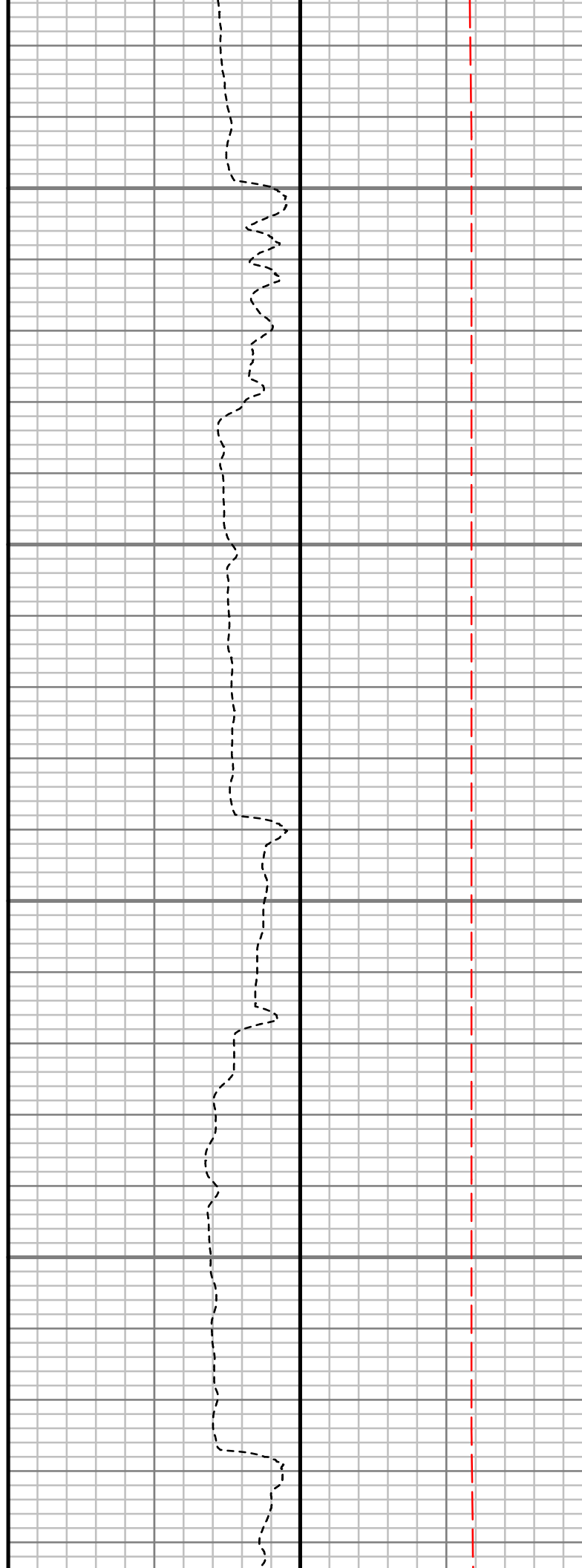
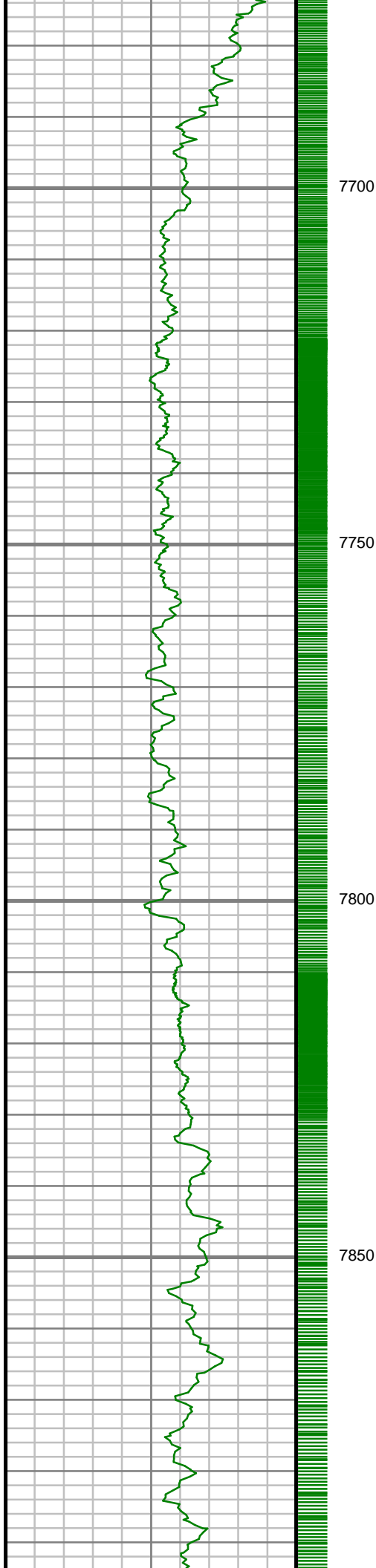
S: 79 MD: 7367.00 ft
Inc: 59.48 deg Az:
273.62 deg TVD:
7082.13 ft



S: 80 MD: 7456.00 ft
Inc: 69.07 deg Az:
267.24 deg TVD:
7120.76 ft

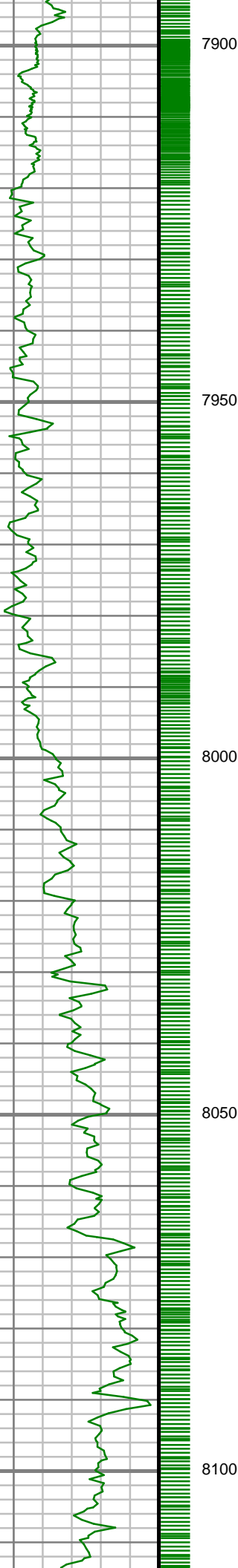
S: 81 MD: 7544.00 ft
Inc: 77.66 deg Az:
262.53 deg TVD:
7145.94 ft

S: 82 MD: 7633.00 ft
Inc: 87.55 deg Az:
259.98 deg TVD:
7157.39 ft



S: 83 MD: 7722.00 ft
Inc: 90.13 deg Az:
261.43 deg TVD:
7159.19 ft

S: 84 MD: 7811.00 ft
Inc: 91.14 deg Az:
265.91 deg TVD:
7158.20 ft



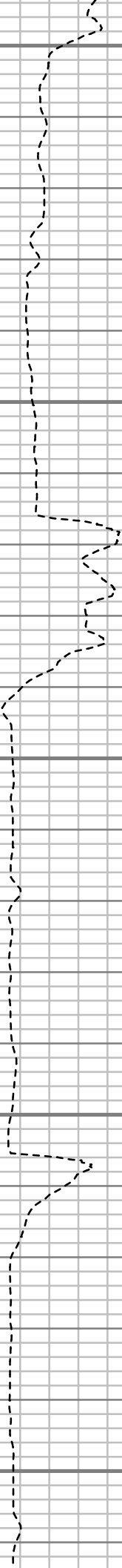
7900

7950

8000

8050

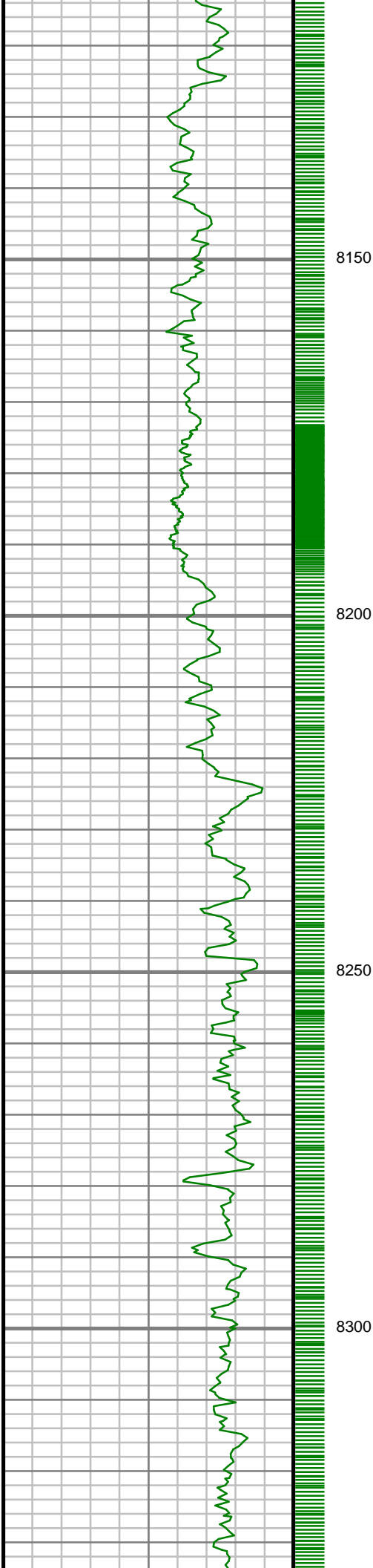
8100



S: 85 MD: 7900.00 ft
Inc: 90.40 deg Az:
268.35 deg TVD:
7157.00 ft

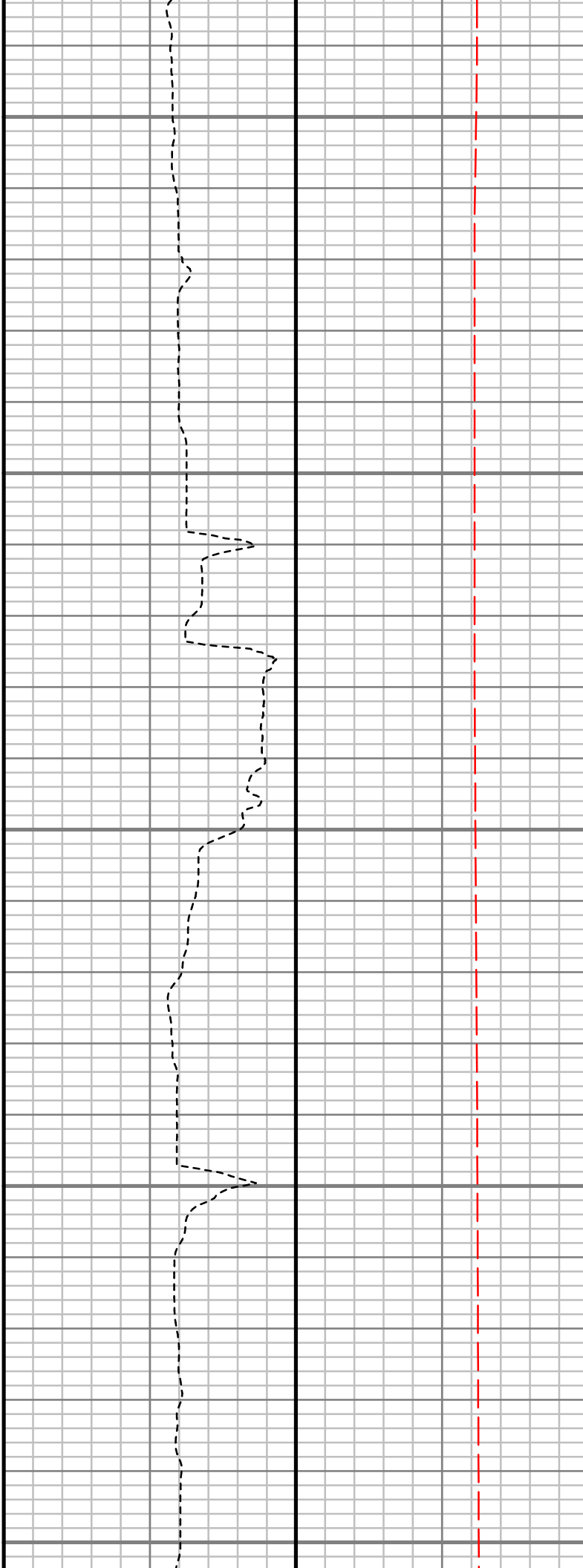
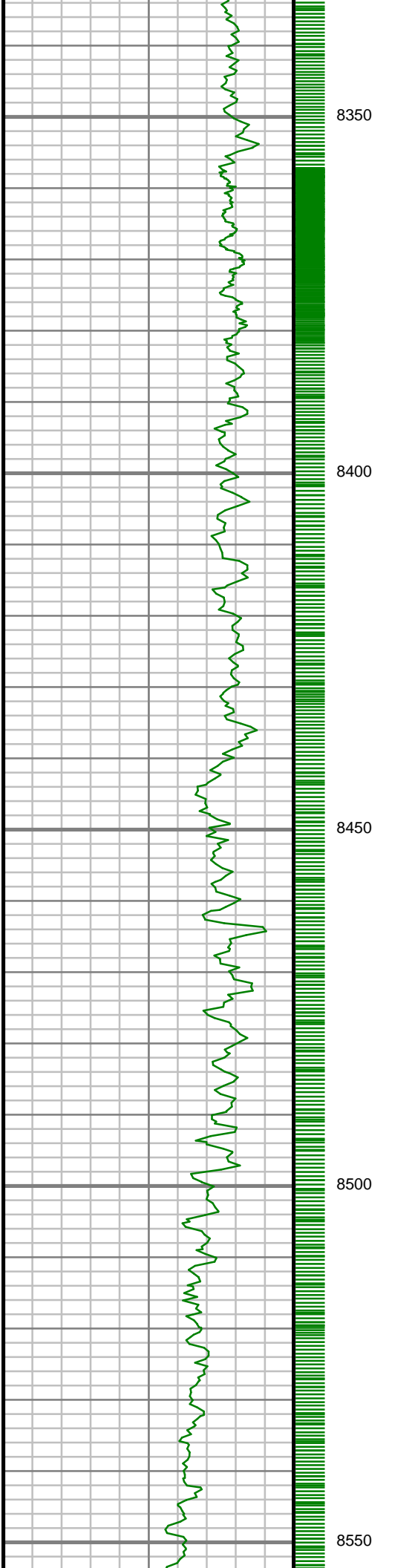
S: 86 MD: 7988.00 ft
Inc: 91.54 deg Az:
270.49 deg TVD:
7155.50 ft

S: 87 MD: 8077.00 ft
Inc: 91.88 deg Az:
269.99 deg TVD:
7152.85 ft



S: 88 MD: 8166.00 ft
Inc: 92.11 deg Az:
269.11 deg TVD:
7149.74 ft

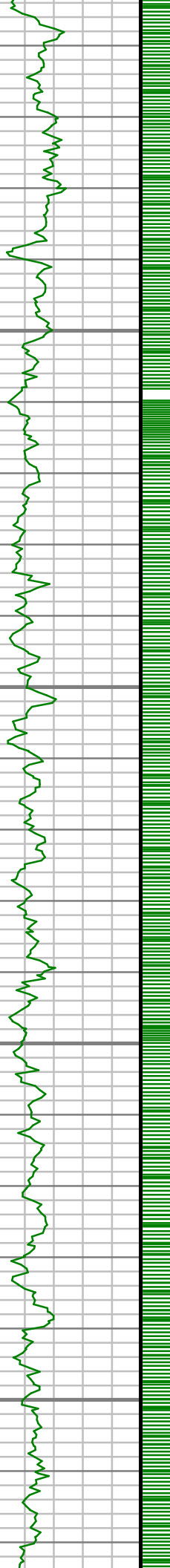
S: 89 MD: 8255.00 ft
Inc: 90.44 deg Az:
269.56 deg TVD:
7147.76 ft



S: 90 MD: 8344.00 ft
Inc: 90.80 deg Az:
269.06 deg TVD:
7146.80 ft

S: 91 MD: 8433.00 ft
Inc: 89.56 deg Az:
270.62 deg TVD:
7146.51 ft

S: 92 MD: 8522.00 ft
Inc: 89.87 deg Az:
272.36 deg TVD:
7146.96 ft

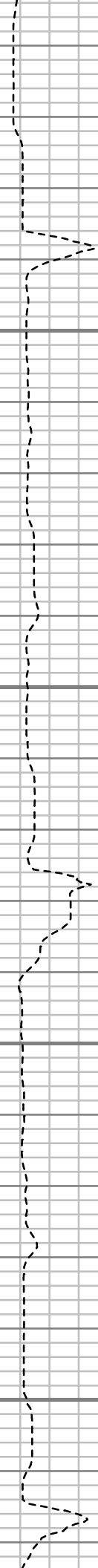


8600

8650

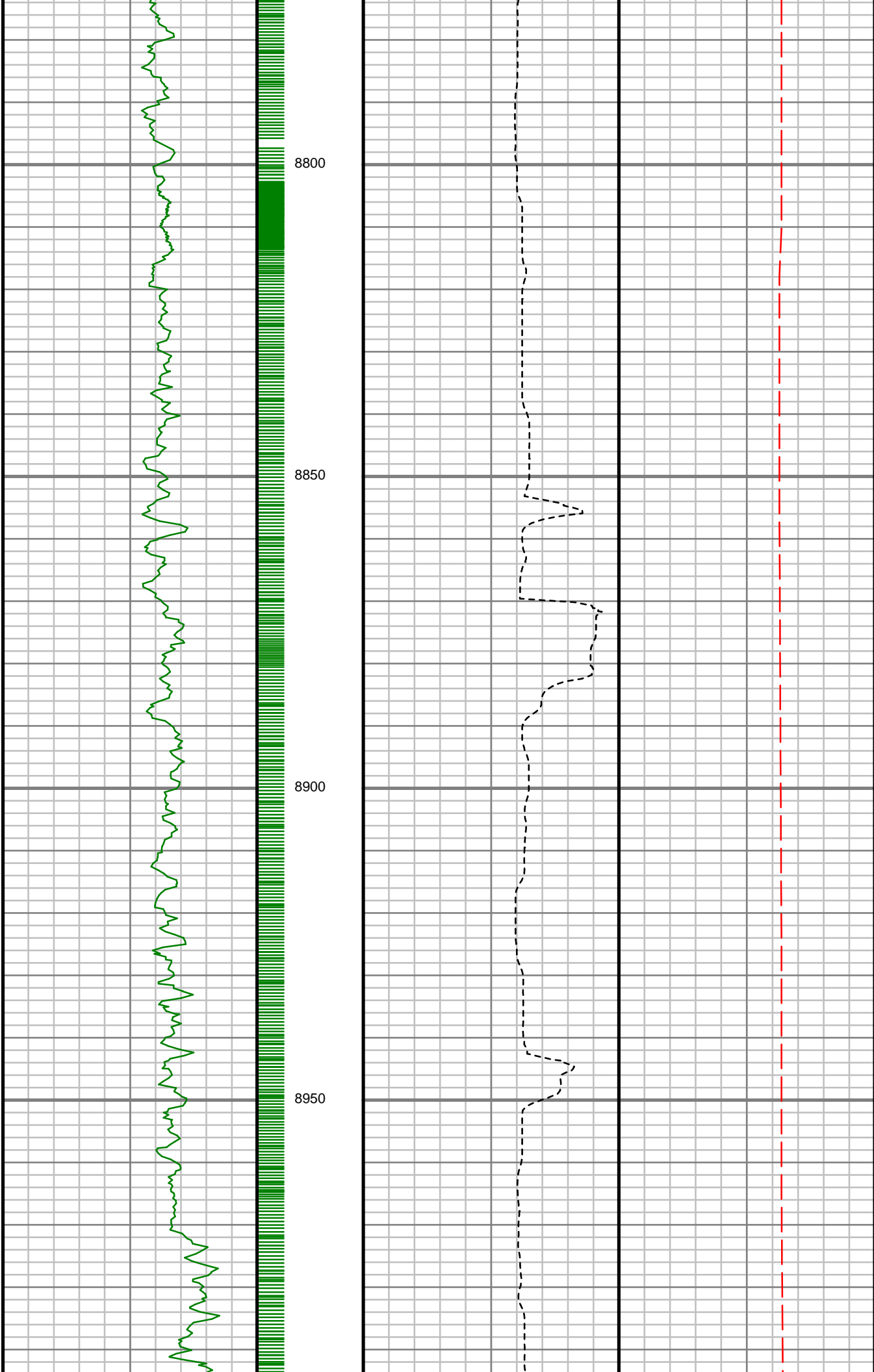
8700

8750



S: 93 MD: 8611.00 ft
Inc: 90.10 deg Az:
271.13 deg TVD:
7146.98 ft

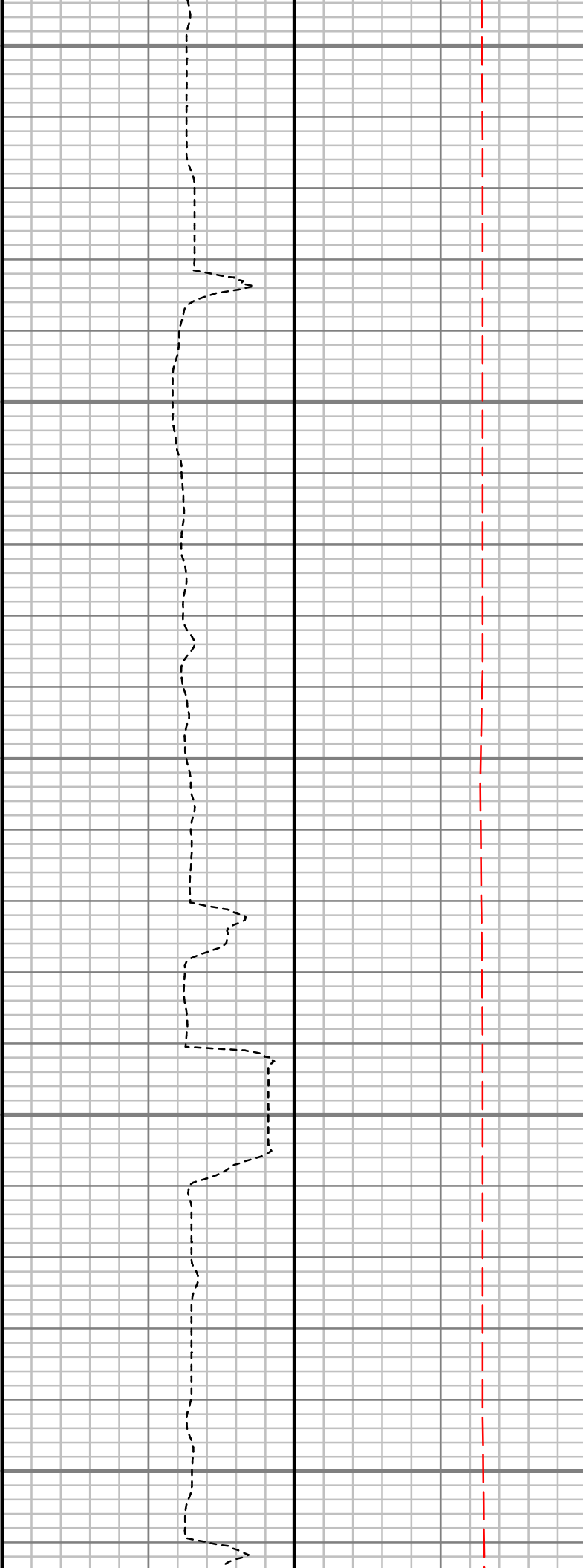
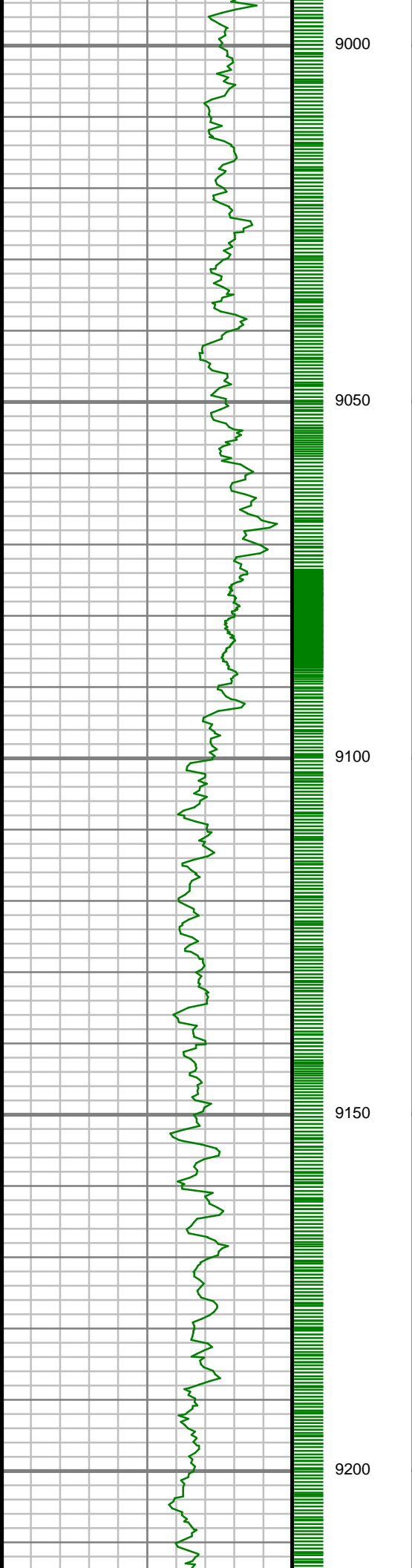
S: 94 MD: 8700.00 ft
Inc: 90.57 deg Az:
270.97 deg TVD:
7146.46 ft



S: 95 MD: 8789.00 ft
Inc: 90.20 deg Az:
270.13 deg TVD:
7145.86 ft

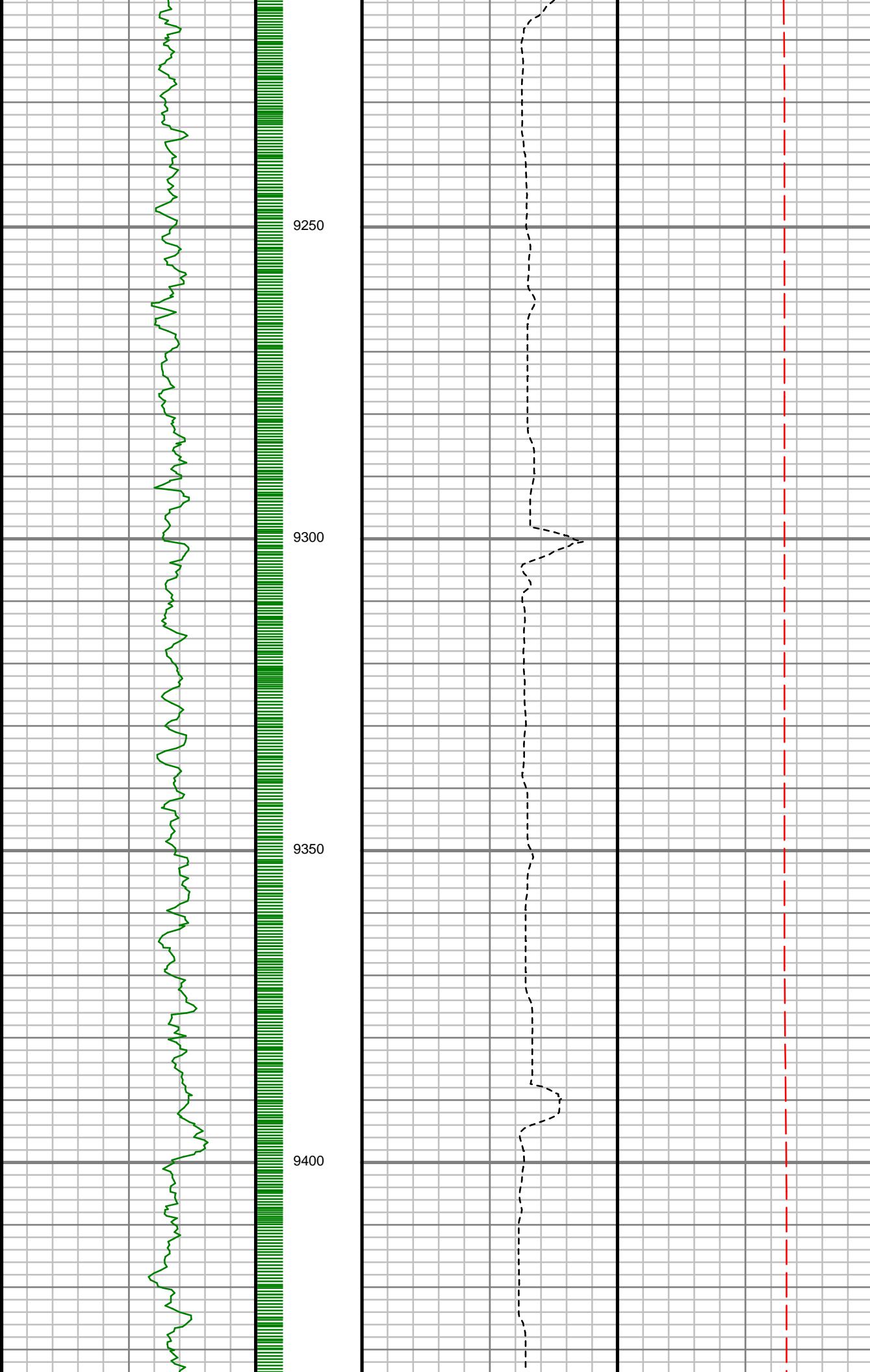
S: 96 MD: 8877.00 ft
Inc: 91.34 deg Az:
271.56 deg TVD:
7144.68 ft

S: 97 MD: 8966.00 ft
Inc: 91.81 deg Az:
271.06 deg TVD:
7142.23 ft



S: 98 MD: 9055.00 ft
Inc: 92.42 deg Az:
271.06 deg TVD:
7138.94 ft

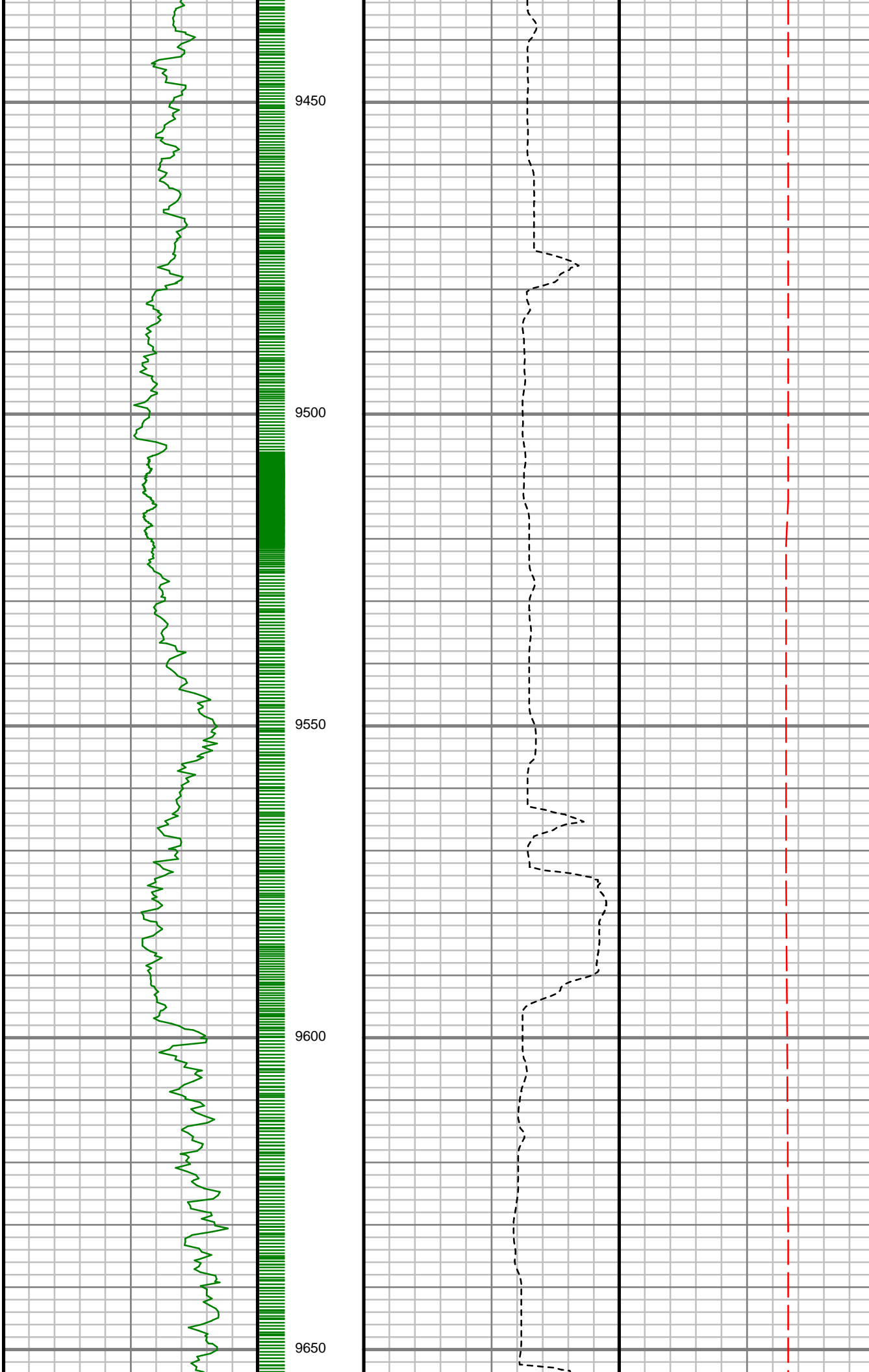
S: 99 MD: 9144.00 ft
Inc: 91.24 deg Az:
270.89 deg TVD:
7136.10 ft



S: 100 MD: 9233.00 ft
Inc: 90.60 deg Az:
270.86 deg TVD:
7134.67 ft

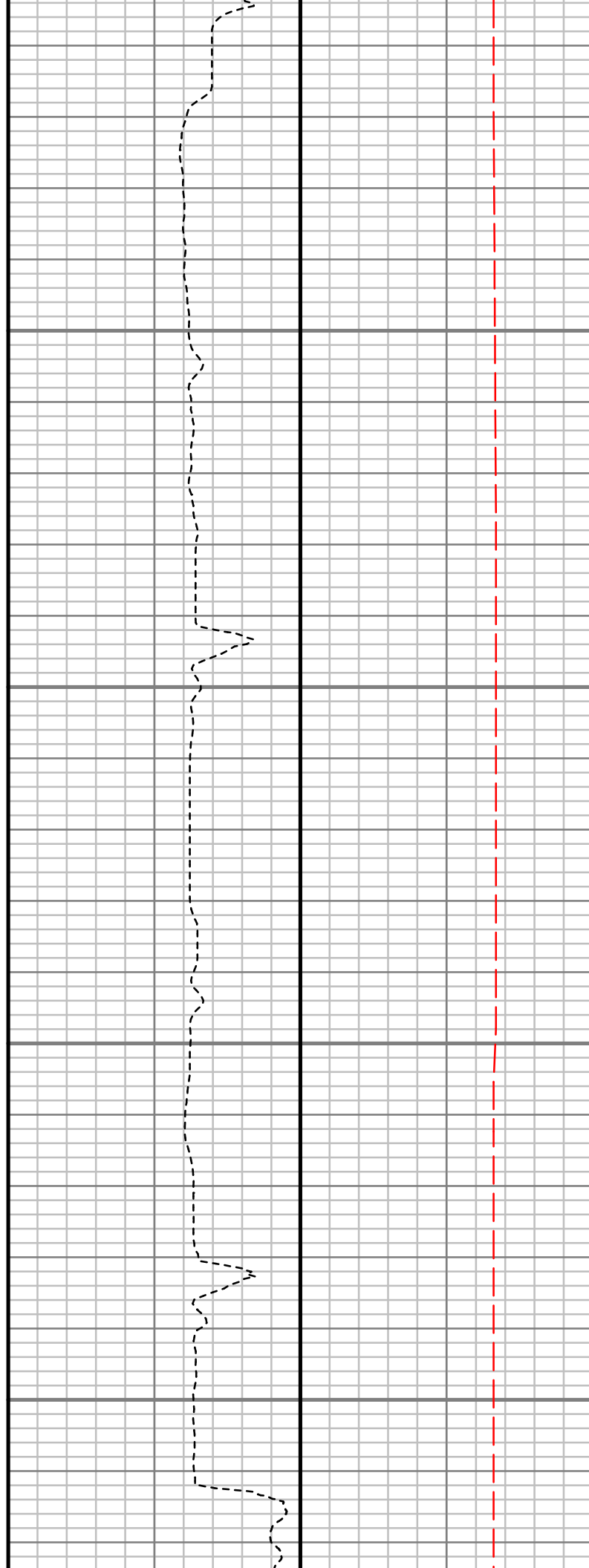
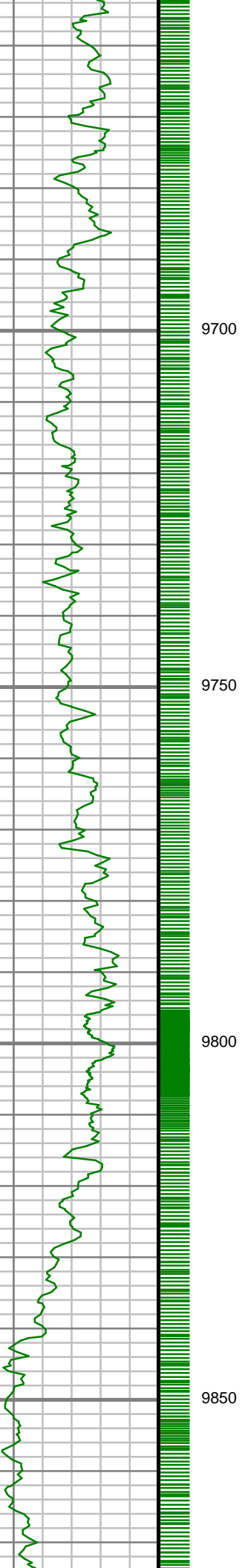
S: 101 MD: 9321.00 ft
Inc: 91.38 deg Az:
271.14 deg TVD:
7133.15 ft

S: 102 MD: 9410.00 ft
Inc: 92.05 deg Az:
270.53 deg TVD:
7130.49 ft



S: 103 MD: 9499.00 ft
Inc: 92.65 deg Az:
270.40 deg TVD:
7126.84 ft

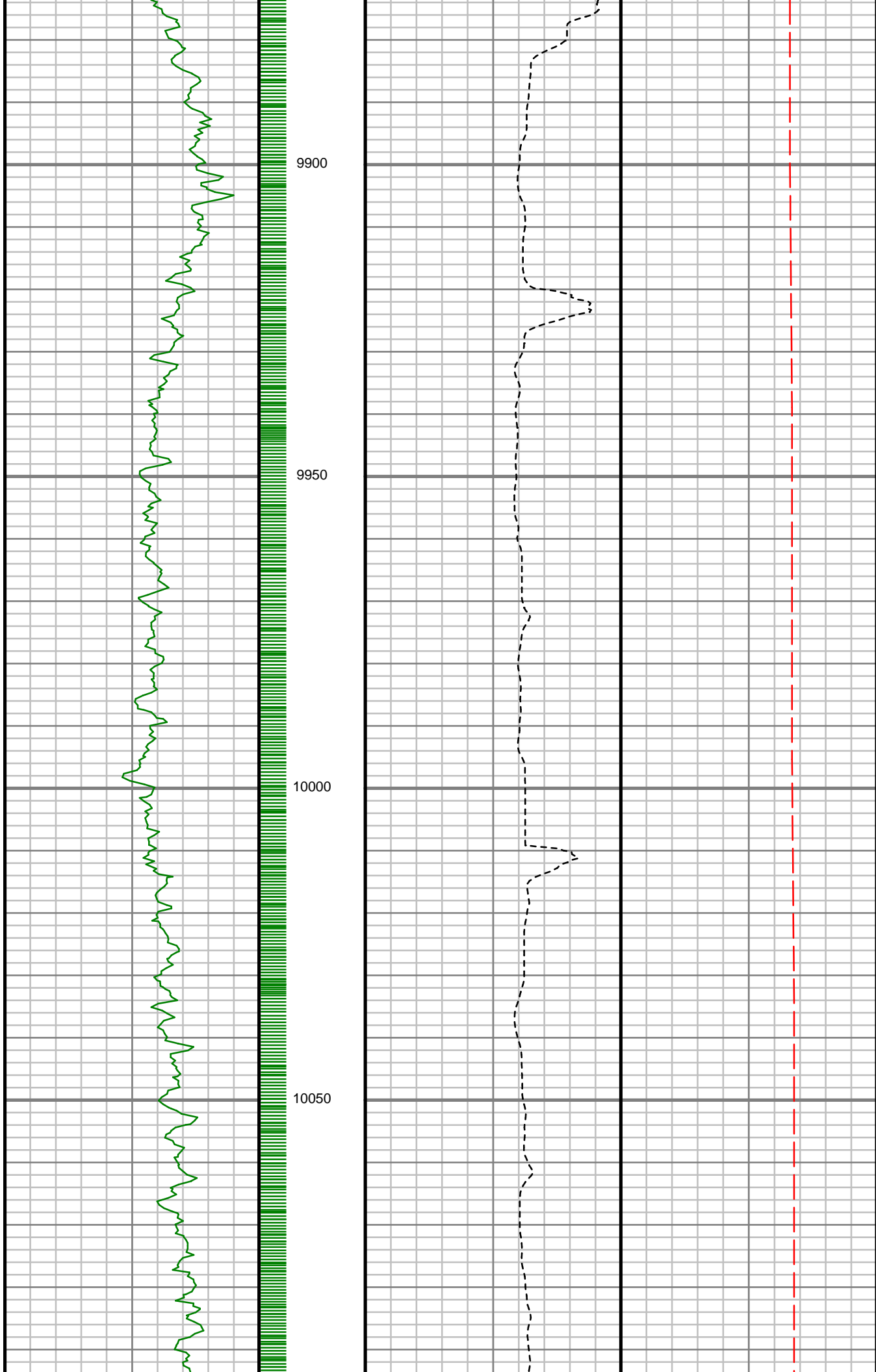
S: 104 MD: 9588.00 ft
Inc: 90.17 deg Az:
270.30 deg TVD:
7124.65 ft



S: 105 MD: 9677.00 ft
Inc: 89.66 deg Az:
270.08 deg TVD:
7124.78 ft

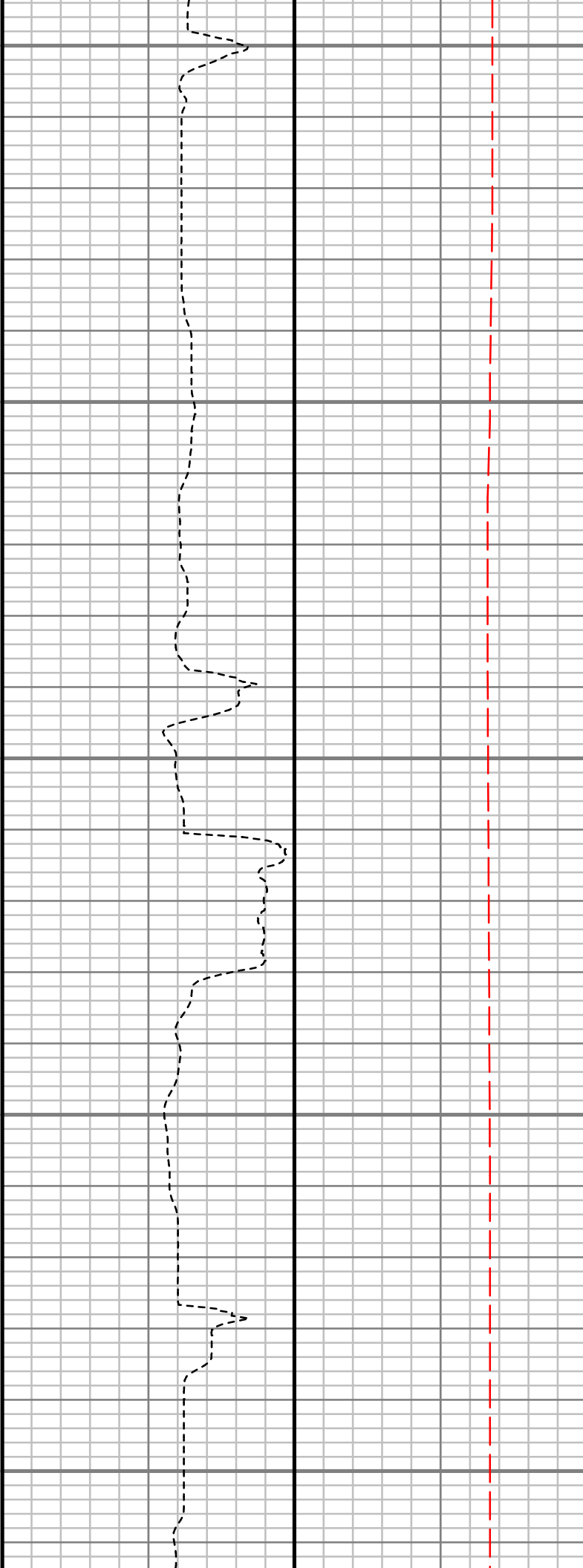
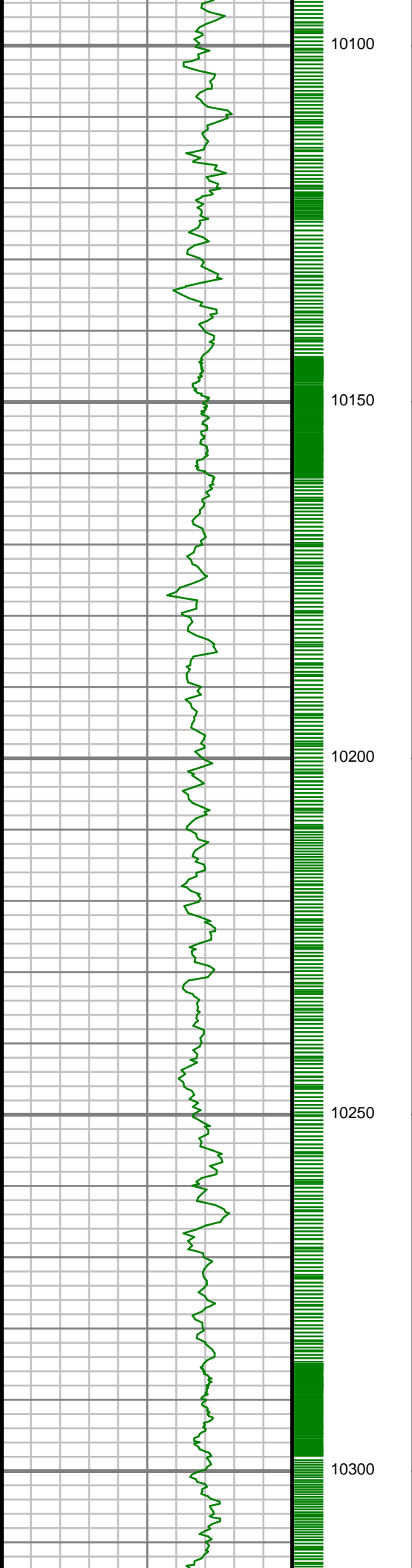
S: 106 MD: 9766.00 ft
Inc: 91.01 deg Az:
270.13 deg TVD:
7124.26 ft

S: 107 MD: 9855.00 ft
Inc: 90.77 deg Az:
269.93 deg TVD:
7122.88 ft



S: 108 MD: 9944.00 ft
Inc: 89.13 deg Az:
270.91 deg TVD:
7122.96 ft

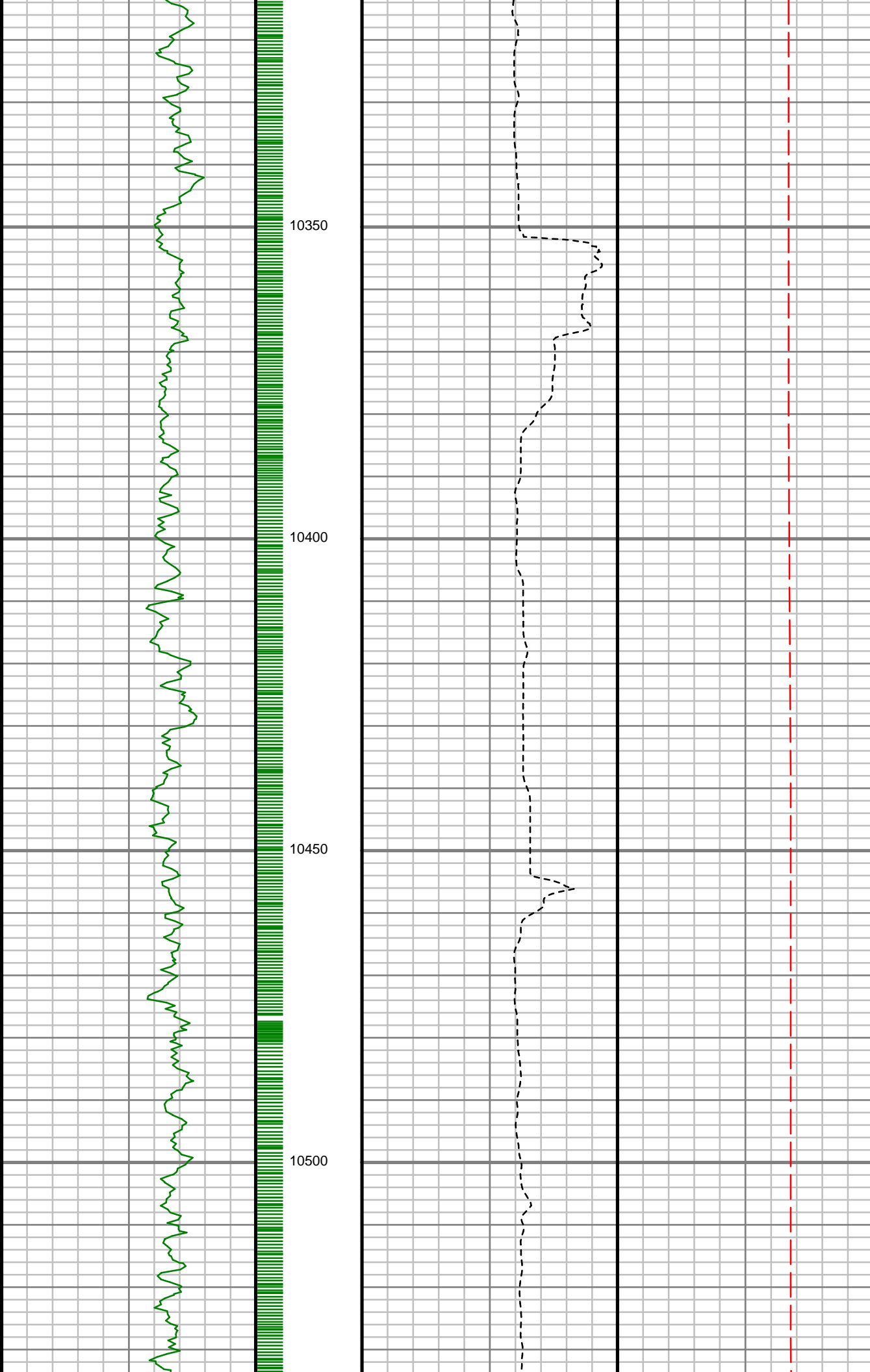
S: 109 MD: 10033.00 ft
Inc: 88.86 deg Az:
270.75 deg TVD:
7124.52 ft



S: 110 MD: 10122.00 ft
Inc: 88.86 deg Az:
270.17 deg TVD:
7126.30 ft

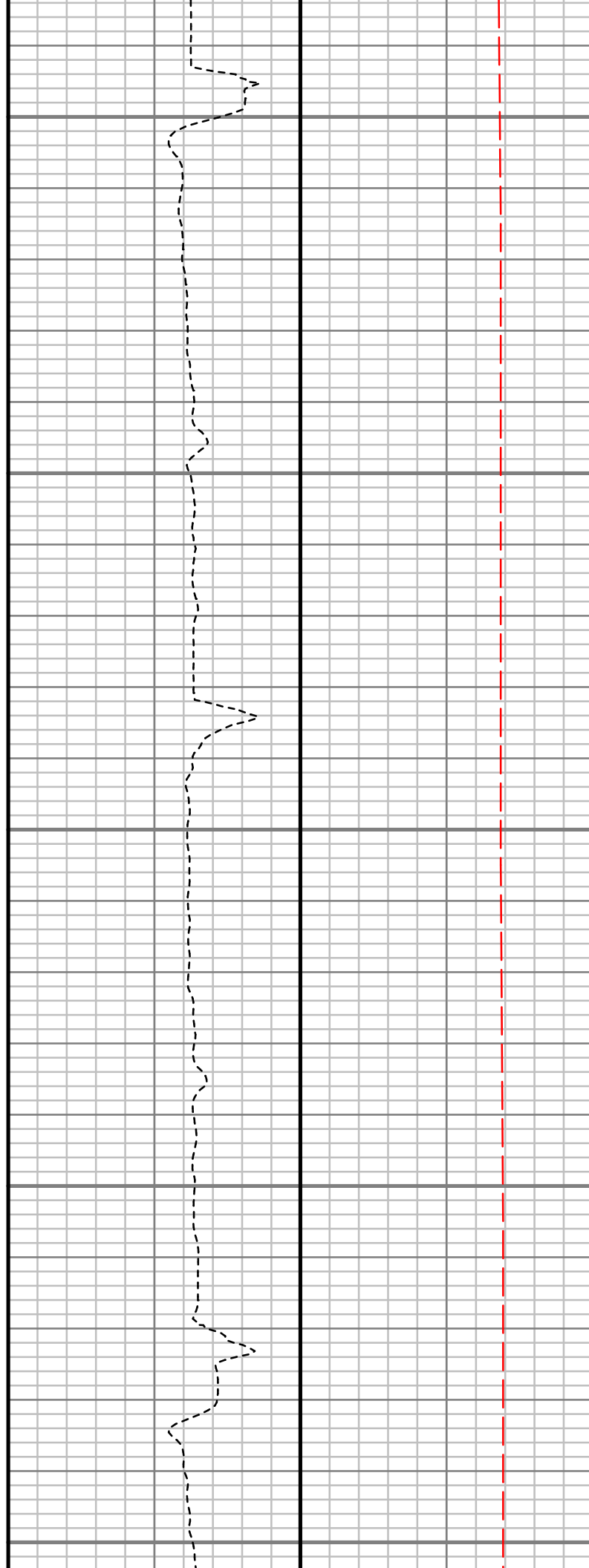
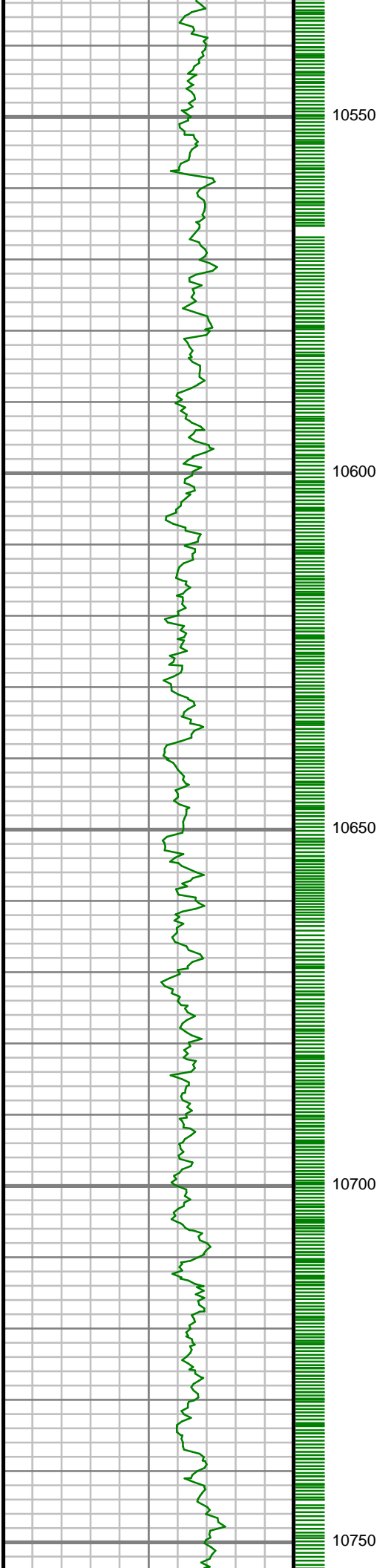
S: 111 MD: 10211.00 ft
Inc: 90.20 deg Az:
270.71 deg TVD:
7127.02 ft

S: 112 MD: 10299.00 ft
Inc: 92.21 deg Az:
271.14 deg TVD:
7125.17 ft



S: 113 MD: 10388.00 ft
Inc: 90.44 deg Az:
271.28 deg TVD:
7123.12 ft

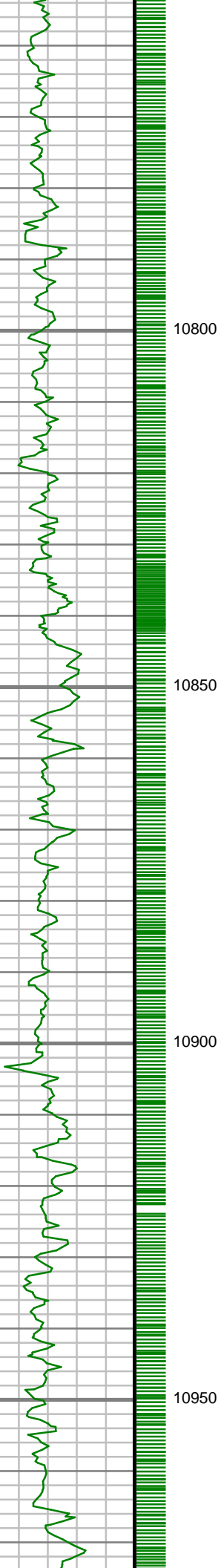
S: 114 MD: 10477.00 ft
Inc: 90.23 deg Az:
271.23 deg TVD:
7122.60 ft



S: 115 MD: 10566.00 ft
Inc: 91.01 deg Az:
271.71 deg TVD:
7121.63 ft

S: 116 MD: 10655.00 ft
Inc: 90.30 deg Az:
271.10 deg TVD:
7120.62 ft

S: 117 MD: 10745.00 ft
Inc: 89.56 deg Az:
270.34 deg TVD:
7120.72 ft



10800

10850

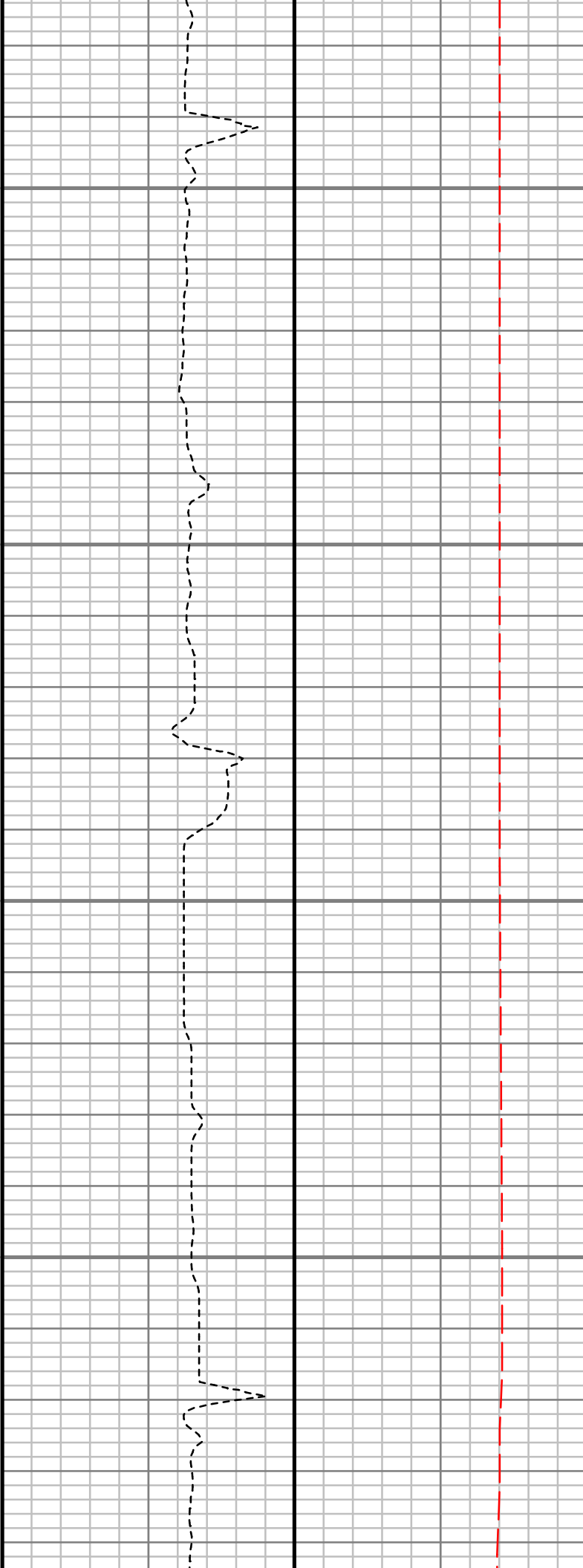
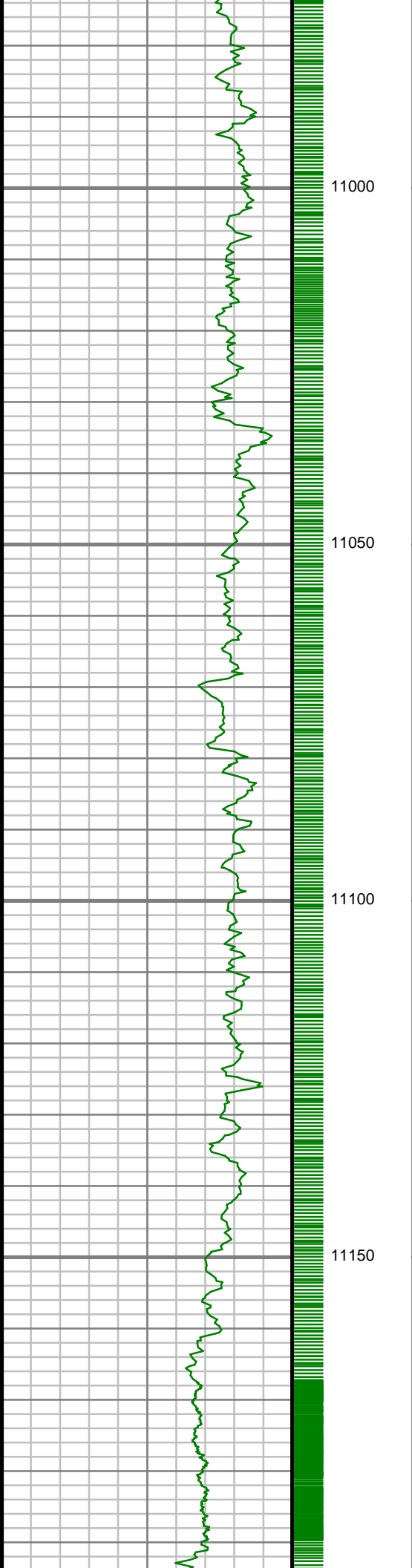
10900

10950



S: 118 MD: 10834.00 ft
Inc: 89.13 deg Az:
269.60 deg TVD:
7121.74 ft

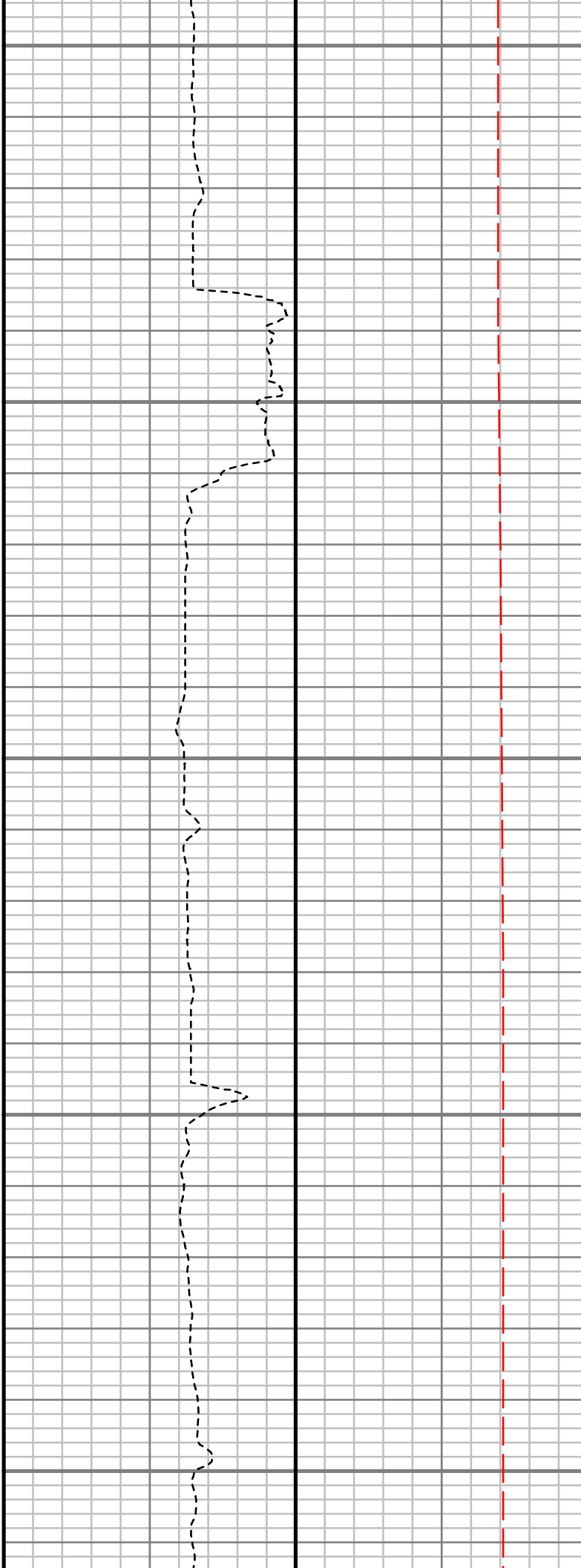
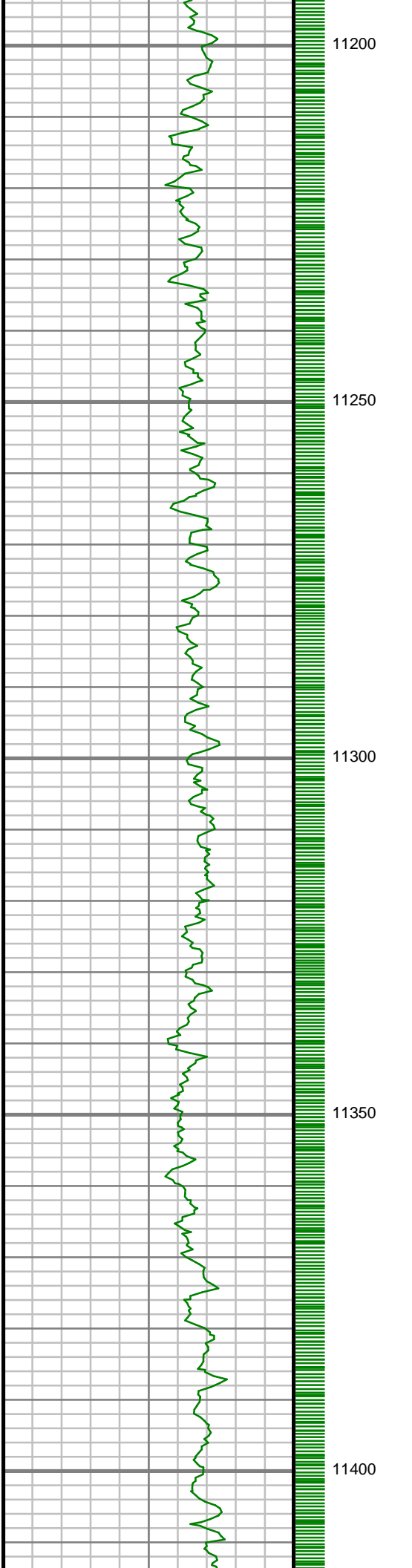
S: 119 MD: 10922.00 ft
Inc: 88.76 deg Az:
268.63 deg TVD:
7123.36 ft



S: 120 MD: 11012.00 ft
Inc: 89.13 deg Az:
267.78 deg TVD:
7125.02 ft

S: 121 MD: 11101.00 ft
Inc: 89.56 deg Az:
267.21 deg TVD:
7126.04 ft

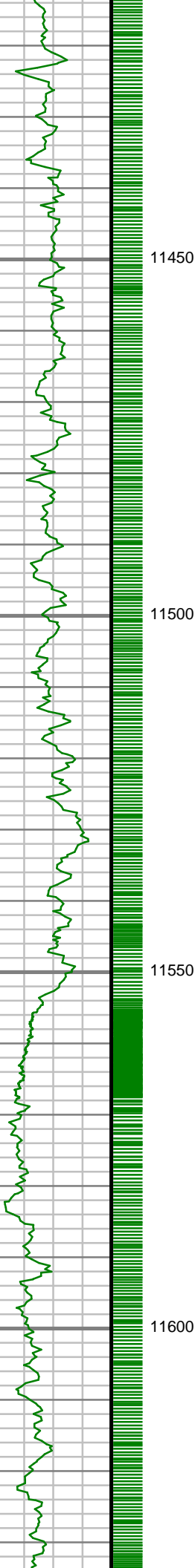
S: 122 MD: 11190.00 ft
Inc: 89.66 deg Az:



Inc: 89.66 deg Az:
267.02 deg TVD:
7126.64 ft

S: 123 MD: 11279.00 ft
Inc: 90.37 deg Az:
270.40 deg TVD:
7126.61 ft

S: 124 MD: 11368.00 ft
Inc: 91.11 deg Az:
270.06 deg TVD:
7125.46 ft



11450

11500

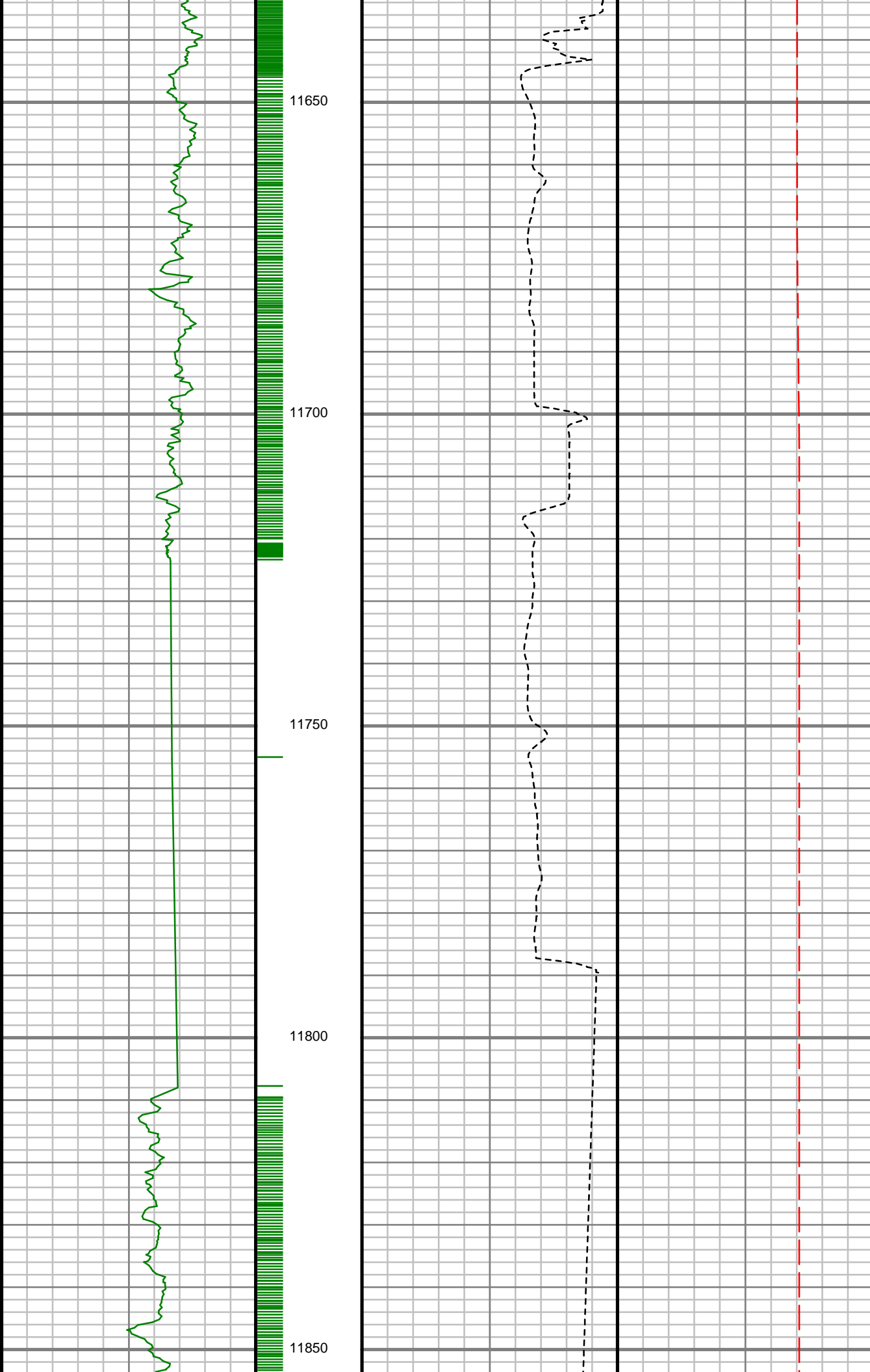
11550

11600



S: 125 MD: 11456.00 ft
Inc: 91.68 deg Az:
269.50 deg TVD:
7123.32 ft

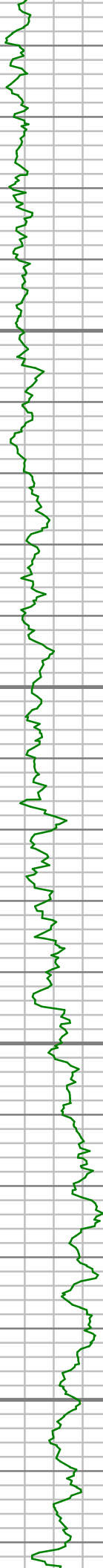
S: 126 MD: 11545.00 ft
Inc: 92.69 deg Az:
269.32 deg TVD:
7119.94 ft



S: 127 MD: 11634.00 ft
Inc: 91.27 deg Az:
268.75 deg TVD:
7116.86 ft

S: 128 MD: 11723.00 ft
Inc: 91.68 deg Az:
269.14 deg TVD:
7114.57 ft

S: 129 MD: 11812.00 ft
Inc: 91.04 deg Az:
271.49 deg TVD:
7112.46 ft

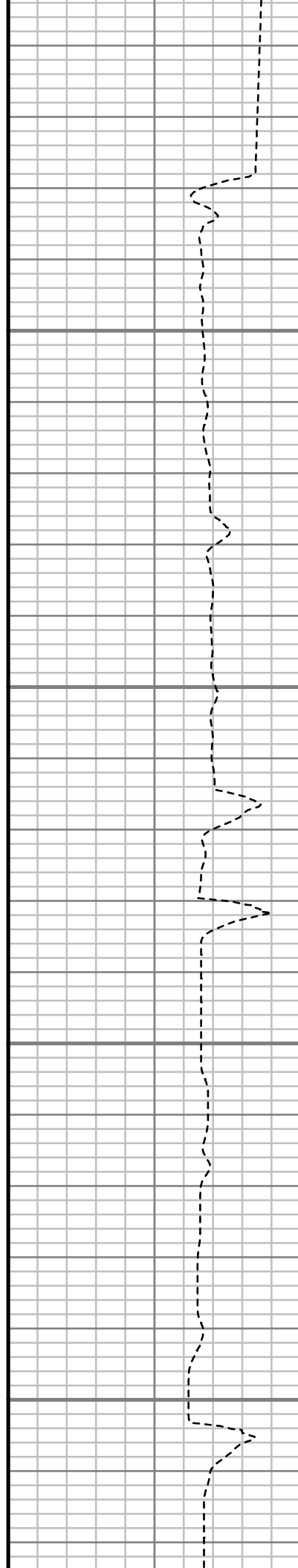


11900

11950

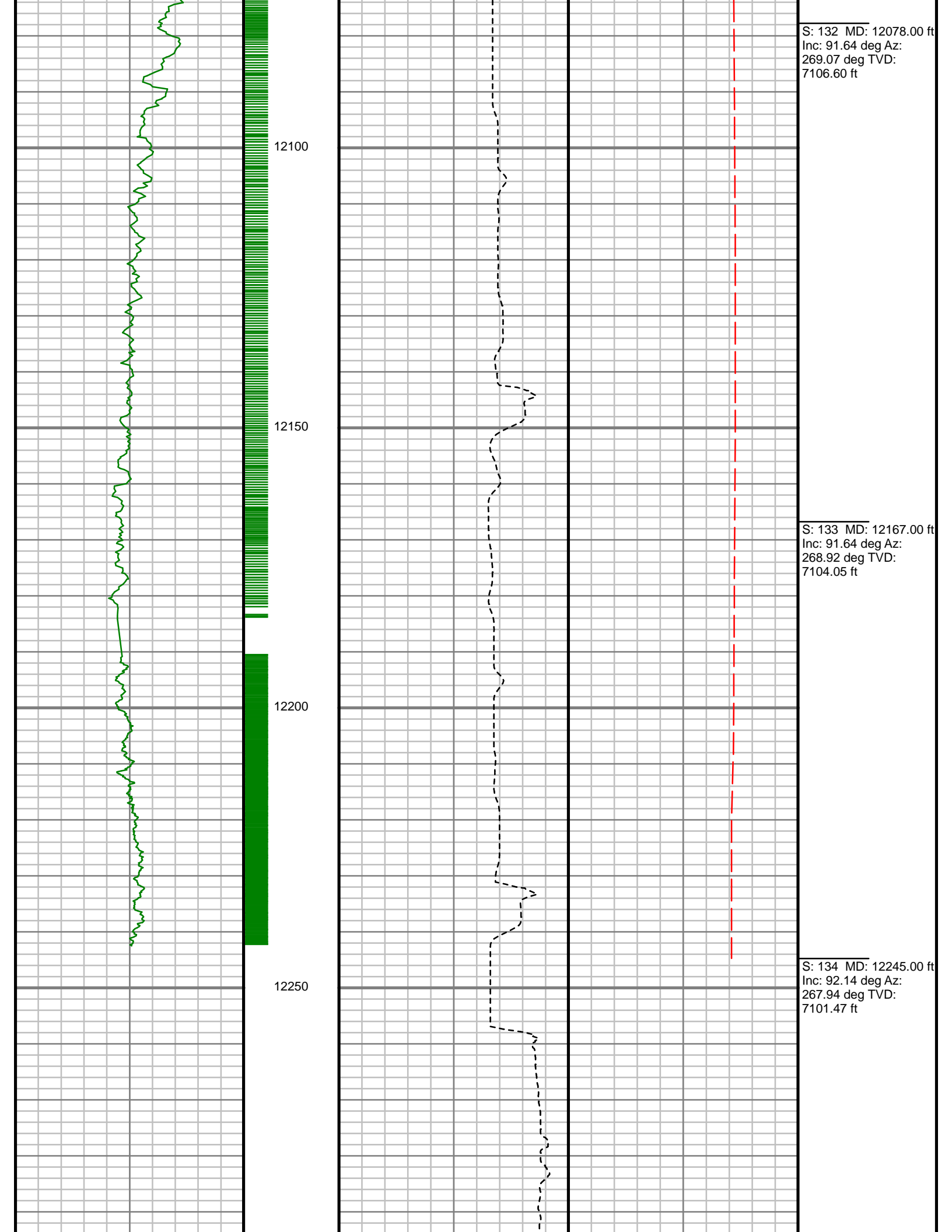
12000

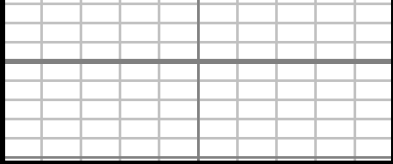
12050



S: 130 MD: 11901.00 ft
Inc: 91.04 deg Az:
270.30 deg TVD:
7110.84 ft

S: 131 MD: 11990.00 ft
Inc: 91.41 deg Az:
269.81 deg TVD:
7108.94 ft

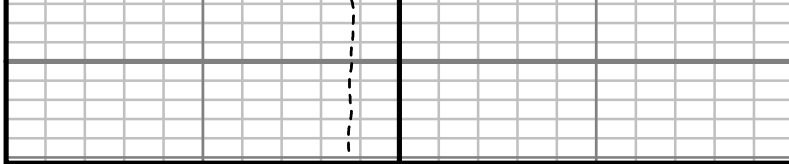




Gamma Ray (GR)		
0	Unit = aapi	150

12300

MEASURED DEPTH
1:240 (ft)



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

Tool Temperature (TEMP)		
0	Unit = °F	300

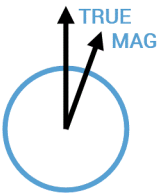
Comments

CUSTOMER ANADARKO E&P ONSHORE LLC
PROJECT US Rockies Wattenberg Planning UTM83
FIELD Wattenberg

WELL INFORMATION
Lat/Long 40.206603° N, 104.981831° W
Northing 14,601,967.84 ft
Easting 1,645,489.54 ft
UWI 05123433090000

MAP INFORMATION
North Reference True North
Grid Correction
System Universal Transverse Mercator (US Survey Feet)
Datum North American Datum 1983 (GRS 1980)
Map Zone Zone 13N (108 W to 102 W)

VERTICAL SECTION REFERENCE
+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 270.25°
Calculation Method Minimum Curvature



GEOMAGNETIC REFERENCE INFORMATION
Local Gravity: 999.046 mG [computed]

MD	MODEL	DATE	DECLINATION	MAG TO TRUE
0-12245 ft	MAGVAR	10 Jul 2017	8.42°	add 8.42°

WELL NOTES
OPERATORS
J. MEYERS, J. WALSH, S. GRAY

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
143.00	0.29	138.84	143.00	-0.24	-0.27	0.24	0.20
230.00	0.97	131.56	229.99	-0.94	-0.93	0.93	0.79
318.00	1.77	102.09	317.97	-2.83	-1.71	2.82	1.18
405.00	2.66	81.53	404.90	-6.14	-1.69	6.13	1.36
494.00	4.28	77.21	493.74	-11.42	-0.65	11.41	1.84
583.00	5.61	81.32	582.41	-18.95	0.74	18.95	1.55
672.00	6.69	76.84	670.89	-28.29	2.58	28.30	1.33
760.00	7.77	80.25	758.19	-39.13	4.75	39.16	1.32
847.00	9.75	83.53	844.17	-52.24	6.58	52.27	2.35
936.00	11.09	85.57	931.70	-68.26	8.09	68.30	1.56
1022.00	12.55	82.72	1015.88	-85.77	9.91	85.81	1.83
1109.00	14.00	81.35	1100.55	-105.54	12.69	105.59	1.71
1198.00	15.23	78.24	1186.67	-127.61	16.70	127.68	1.64
1287.00	15.67	79.57	1272.46	-150.85	21.25	150.95	0.63
1374.00	16.91	78.98	1355.96	-174.81	25.80	174.92	1.44
1460.00	18.21	77.26	1437.95	-200.17	31.15	200.31	1.63
1547.00	18.15	80.57	1520.61	-226.77	36.37	226.93	1.19
1636.00	19.54	83.46	1604.84	-255.22	40.34	255.40	1.88
1724.00	19.53	81.60	1687.78	-284.37	44.16	284.57	0.71

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
1809.00	19.30	77.98	1767.95	-312.15	49.16	312.36	1.44
1836.00	18.90	78.83	1793.46	-320.79	50.94	321.02	1.80
2017.00	17.76	76.45	1965.28	-376.34	63.09	376.62	0.75
2105.00	17.43	75.95	2049.16	-402.15	69.43	402.45	0.41
2194.00	17.19	78.68	2134.13	-427.95	75.25	428.28	0.95
2283.00	16.89	78.00	2219.22	-453.46	80.52	453.82	0.40
2372.00	16.62	80.51	2304.45	-478.64	85.30	479.02	0.87
2460.00	16.37	79.03	2388.83	-503.20	89.74	503.60	0.55
2549.00	17.11	80.45	2474.05	-528.41	94.30	528.83	0.95
2638.00	16.32	79.82	2559.29	-553.61	98.68	554.05	0.92
2727.00	15.81	80.87	2644.82	-577.87	102.82	578.32	0.66
2816.00	16.16	83.29	2730.38	-602.12	106.19	602.59	0.85
2905.00	14.89	82.68	2816.13	-625.75	109.09	626.23	1.43
2994.00	15.71	81.22	2901.97	-648.99	112.39	649.49	1.02
3083.00	16.69	81.51	2987.44	-673.52	116.11	674.04	1.10
3172.00	16.97	81.93	3072.63	-699.00	119.82	699.53	0.34
3261.00	15.78	80.26	3158.02	-723.77	123.70	724.32	1.43
3349.00	15.58	81.91	3242.74	-747.25	127.38	747.81	0.55
3438.00	15.26	79.79	3328.54	-770.59	131.14	771.17	0.73
3527.00	15.04	78.82	3414.44	-793.43	135.46	794.03	0.37

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
3616.00	15.06	77.83	3500.39	-816.04	140.13	816.66	0.29
3705.00	13.44	76.96	3586.65	-837.39	144.90	838.03	1.84
3793.00	16.39	77.27	3671.68	-859.44	149.94	860.10	3.36
3882.00	17.85	77.51	3756.73	-884.98	155.66	885.67	1.65
3971.00	17.54	74.81	3841.52	-911.22	162.13	911.94	0.99
4083.00	16.61	72.91	3948.58	-942.78	171.26	943.53	0.97
4171.00	14.69	71.49	4033.32	-965.35	178.50	966.14	2.23
4260.00	14.64	77.54	4119.42	-987.01	184.51	987.82	1.72
4349.00	13.07	75.99	4205.83	-1007.73	189.37	1008.57	1.81
4437.00	11.83	74.51	4291.76	-1026.06	194.19	1026.92	1.45
4615.00	10.40	71.65	4466.42	-1058.85	204.12	1059.75	0.86
4704.00	9.04	68.68	4554.14	-1072.97	209.19	1073.89	1.63
4792.00	7.94	65.43	4641.17	-1084.91	214.23	1085.86	1.36
4881.00	7.13	62.68	4729.41	-1095.38	219.32	1096.35	1.00
5058.00	5.27	59.16	4905.36	-1112.08	228.53	1113.09	1.07
5236.00	2.72	80.42	5082.93	-1123.25	233.43	1124.28	1.63
5325.00	2.02	72.44	5171.85	-1126.82	234.25	1127.85	0.87
5413.00	1.03	134.42	5259.82	-1128.86	234.17	1129.89	2.03
5502.00	0.88	159.84	5348.81	-1129.67	232.97	1130.70	0.50
5591.00	0.68	167.77	5437.80	-1130.03	231.81	1131.05	0.25

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
5679.00	0.47	198.35	5525.80	-1130.03	230.95	1131.04	0.42
5768.00	0.93	196.79	5614.79	-1129.71	229.91	1130.72	0.51
5857.00	0.93	184.75	5703.78	-1129.45	228.50	1130.45	0.22
5946.00	0.89	176.06	5792.77	-1129.44	227.09	1130.44	0.16
6035.00	0.86	172.39	5881.76	-1129.58	225.75	1130.58	0.08
6124.00	0.72	192.58	5970.75	-1129.55	224.54	1130.54	0.34
6212.00	0.39	170.89	6058.74	-1129.48	223.70	1130.47	0.44
6301.00	0.57	212.47	6147.74	-1129.29	223.03	1130.28	0.43
6390.00	0.36	202.78	6236.74	-1128.95	222.39	1129.93	0.25
6478.00	0.27	175.85	6324.74	-1128.86	221.93	1129.84	0.20
6567.00	0.24	214.08	6413.74	-1128.77	221.56	1129.75	0.19
6656.00	2.62	278.19	6502.70	-1126.65	221.70	1127.63	2.84
6745.00	11.90	283.74	6590.89	-1115.69	224.17	1116.68	10.44
6833.00	18.47	289.96	6675.78	-1093.72	231.09	1094.74	7.68
6922.00	24.94	283.68	6758.44	-1062.16	240.35	1063.22	7.71
7011.00	31.50	275.39	6836.85	-1020.69	246.98	1021.78	8.58
7100.00	40.47	269.16	6908.81	-968.53	248.75	969.63	10.87
7189.00	45.77	264.85	6973.77	-907.85	245.46	908.93	6.81
7278.00	52.19	269.32	7032.17	-840.87	242.18	841.93	8.14
7367.00	59.48	273.62	7082.13	-767.32	244.18	768.40	9.11

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
7456.00	69.07	267.24	7120.76	-687.30	244.60	688.37	12.56
7544.00	77.66	262.53	7145.94	-603.46	237.01	604.50	11.02
7633.00	87.55	259.98	7157.39	-516.41	223.59	517.39	11.47
7722.00	90.13	261.43	7159.19	-428.67	209.22	429.59	3.33
7811.00	91.14	265.91	7158.20	-340.29	199.41	341.16	5.16
7900.00	90.40	268.35	7157.00	-251.43	194.96	252.29	2.87
7988.00	91.54	270.49	7155.50	-163.46	194.07	164.31	2.75
8077.00	91.88	269.99	7152.85	-74.50	194.44	75.35	0.68
8166.00	92.11	269.11	7149.74	14.44	193.74	-13.59	1.02
8255.00	90.44	269.56	7147.76	103.40	192.70	-102.56	1.95
8344.00	90.80	269.06	7146.80	192.38	191.62	-191.55	0.70
8433.00	89.56	270.62	7146.51	281.38	191.37	-280.54	2.24
8522.00	89.87	272.36	7146.96	370.35	193.69	-369.51	1.99
8611.00	90.10	271.13	7146.98	459.32	196.40	-458.47	1.41
8700.00	90.57	270.97	7146.46	548.31	198.03	-547.45	0.56
8789.00	90.20	270.13	7145.86	637.30	198.88	-636.44	1.04
8877.00	91.34	271.56	7144.68	725.29	200.18	-724.42	2.09
8966.00	91.81	271.06	7142.23	814.24	202.22	-813.36	0.78
9055.00	92.42	271.06	7138.94	903.17	203.86	-902.29	0.68
9144.00	91.24	270.89	7136.10	992.11	205.37	-991.23	1.34

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
9233.00	90.60	270.86	7134.67	1081.10	206.73	-1080.20	0.72
9321.00	91.38	271.14	7133.15	1169.07	208.26	-1168.18	0.93
9410.00	92.05	270.53	7130.49	1258.03	209.56	-1257.13	1.02
9499.00	92.65	270.40	7126.84	1346.95	210.28	-1346.05	0.70
9588.00	90.17	270.30	7124.65	1435.92	210.82	-1435.01	2.79
9677.00	89.66	270.08	7124.78	1524.92	211.12	-1524.01	0.62
9766.00	91.01	270.13	7124.26	1613.92	211.28	-1613.01	1.51
9855.00	90.77	269.93	7122.88	1702.90	211.32	-1702.00	0.35
9944.00	89.13	270.91	7122.96	1791.90	211.96	-1790.99	2.15
10033.00	88.86	270.75	7124.52	1880.88	213.25	-1879.97	0.35
10122.00	88.86	270.17	7126.30	1969.86	213.96	-1968.95	0.64
10211.00	90.20	270.71	7127.02	2058.86	214.65	-2057.94	1.62
10299.00	92.21	271.14	7125.17	2146.83	216.07	-2145.90	2.34
10388.00	90.44	271.28	7123.12	2235.79	217.95	-2234.86	2.00
10477.00	90.23	271.23	7122.60	2324.77	219.89	-2323.83	0.23
10566.00	91.01	271.71	7121.63	2413.74	222.18	-2412.80	1.03
10655.00	90.30	271.10	7120.62	2502.72	224.36	-2501.76	1.05
10745.00	89.56	270.34	7120.72	2592.72	225.50	-2591.76	1.18
10834.00	89.13	269.60	7121.74	2681.71	225.45	-2680.75	0.96
10922.00	88.76	268.63	7123.36	2769.67	224.09	-2768.72	1.18

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
11012.00	89.13	267.78	7125.02	2859.60	221.28	-2858.66	1.03
11101.00	89.56	267.21	7126.04	2948.49	217.39	-2947.57	0.80
11190.00	89.66	267.02	7126.64	3037.36	212.91	-3036.46	0.25
11279.00	90.37	270.40	7126.61	3126.31	210.90	-3125.42	3.89
11368.00	91.11	270.06	7125.46	3215.30	211.26	-3214.41	0.91
11456.00	91.68	269.50	7123.32	3303.27	210.93	-3302.38	0.91
11545.00	92.69	269.32	7119.94	3392.20	210.01	-3391.31	1.15
11634.00	91.27	268.75	7116.86	3481.12	208.51	-3480.25	1.71
11723.00	91.68	269.14	7114.57	3570.07	206.88	-3569.20	0.63
11812.00	91.04	271.49	7112.46	3659.04	207.36	-3658.17	2.74
11901.00	91.04	270.30	7110.84	3748.02	208.75	-3747.14	1.34
11990.00	91.41	269.81	7108.94	3836.99	208.83	-3836.12	0.68
12078.00	91.64	269.07	7106.60	3924.95	207.98	-3924.08	0.89
12167.00	91.64	268.92	7104.05	4013.90	206.41	-4013.03	0.17
12245.00	92.14	267.94	7101.47	4091.81	204.27	-4090.96	1.41

5" = 100' MD