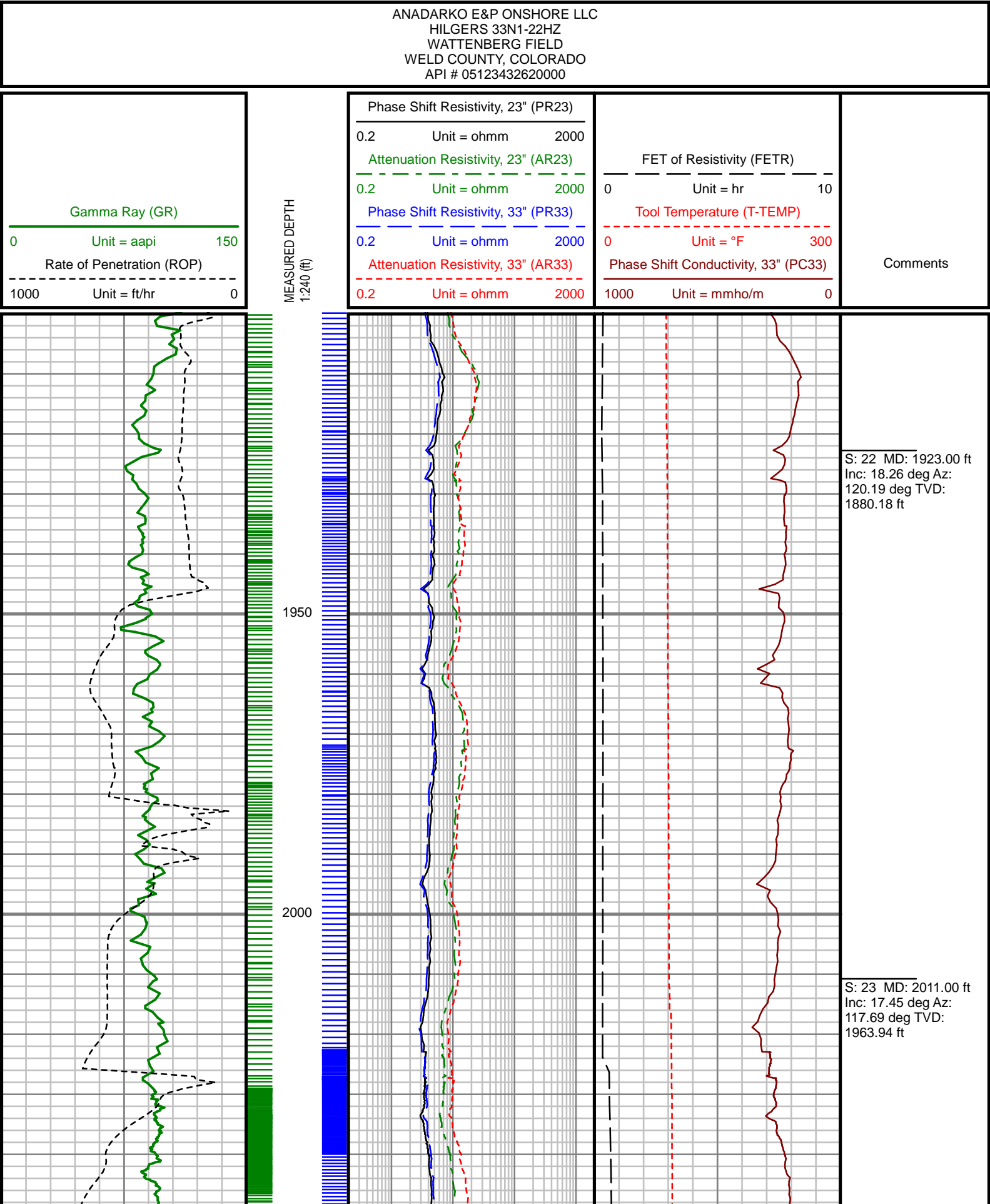
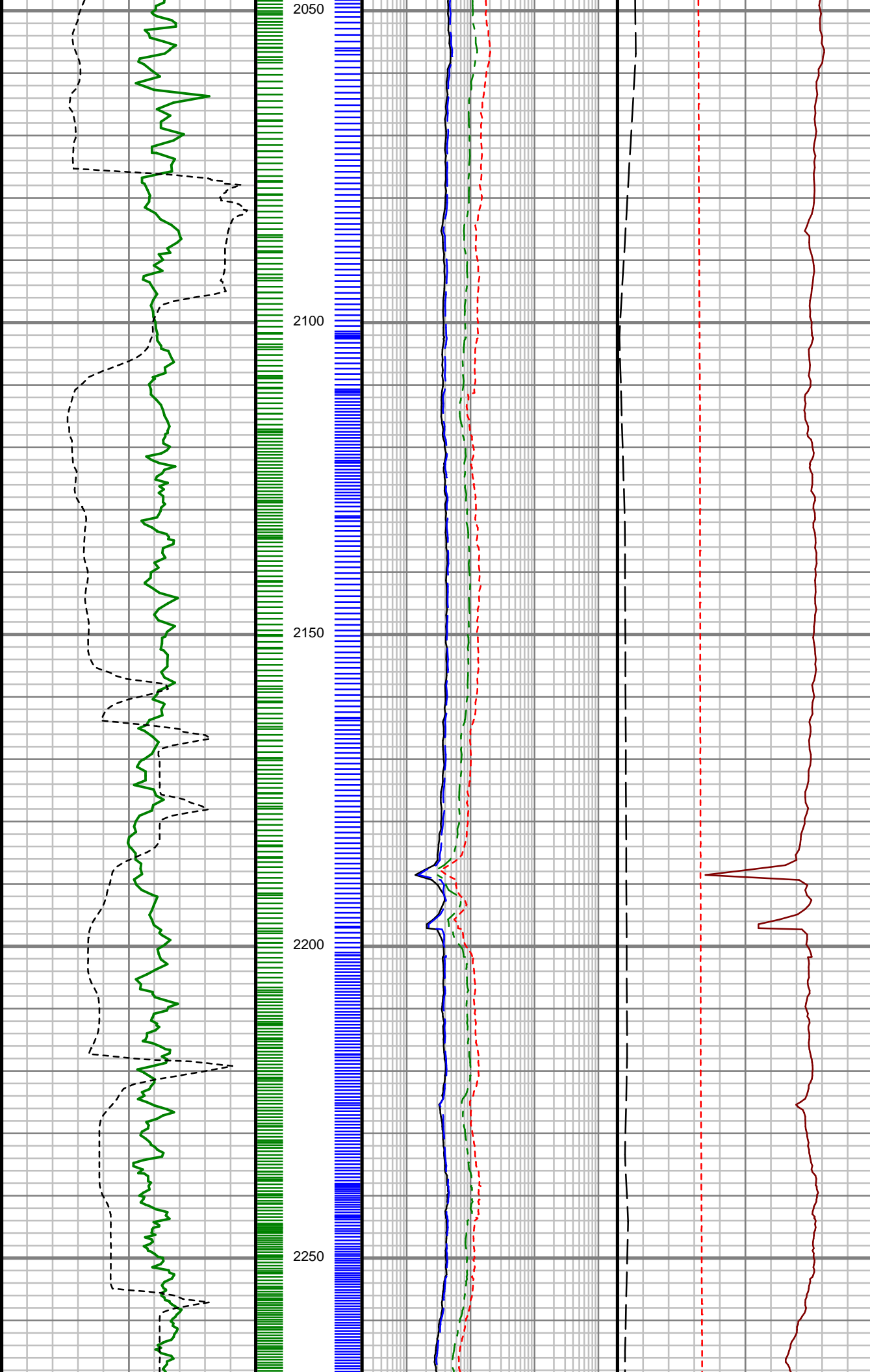


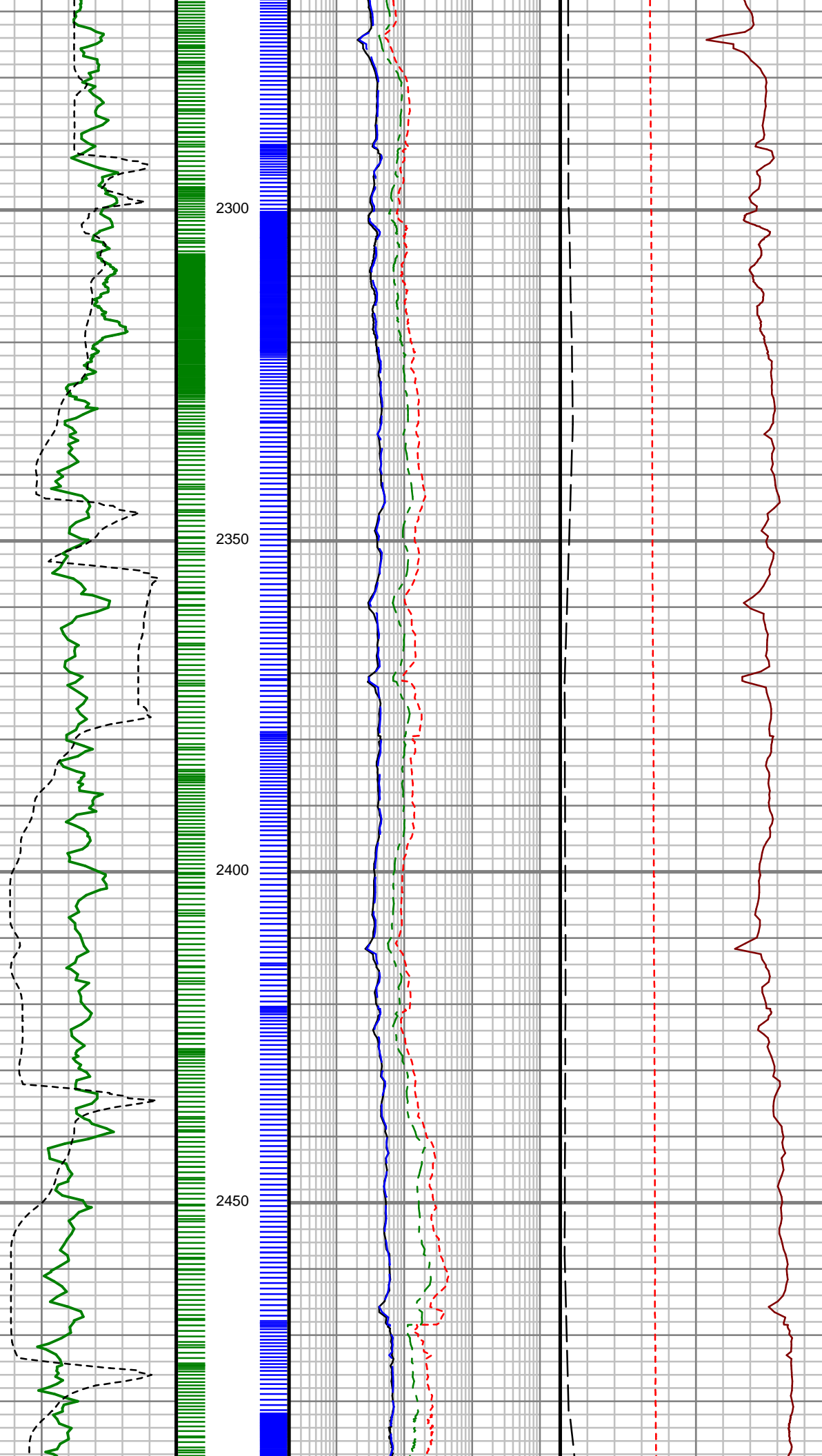
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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: 24 MD: 2099.00 ft
Inc: 19.64 deg Az:
115.23 deg TVD:
2047.36 ft

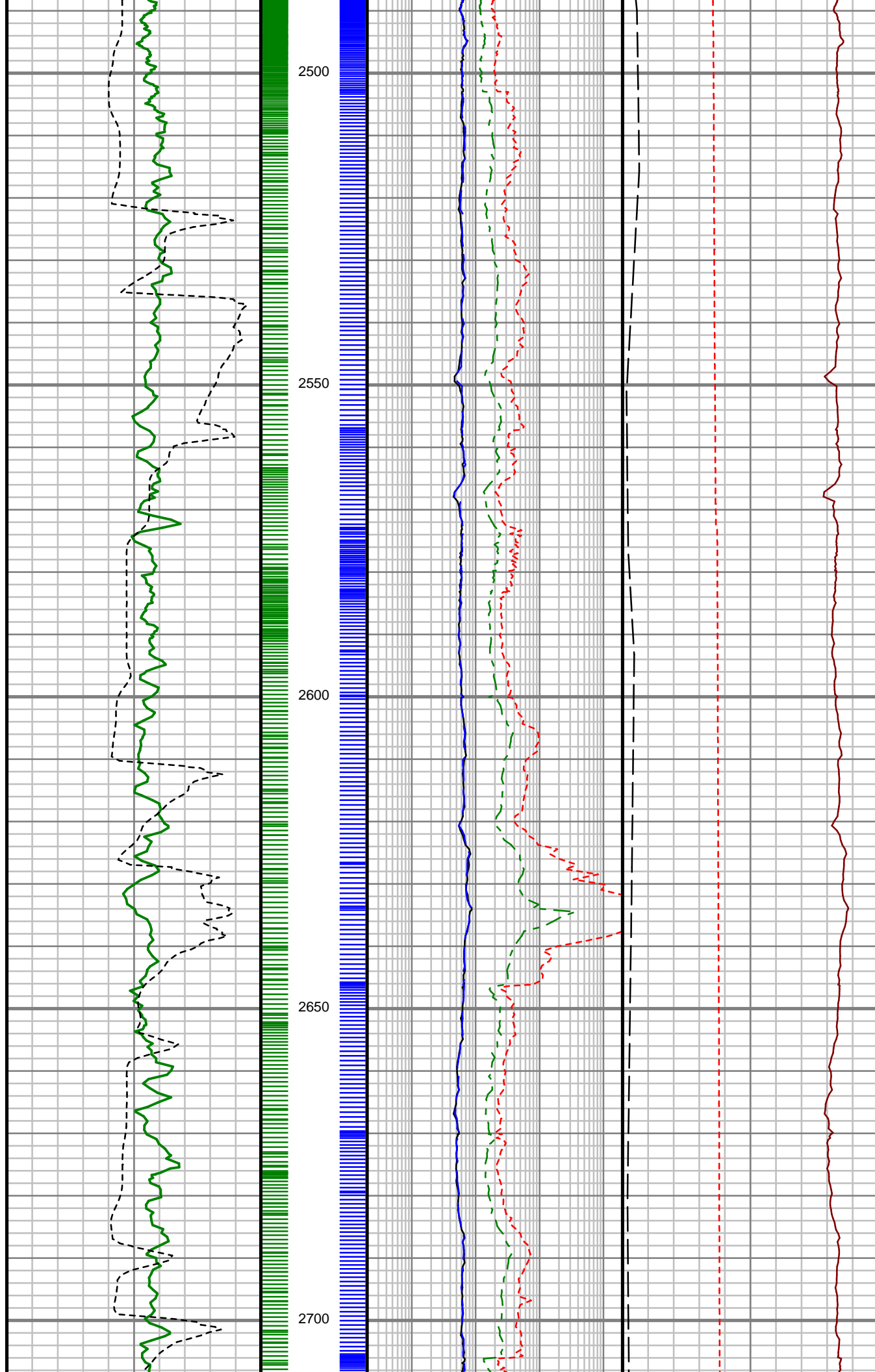
S: 25 MD: 2188.00 ft
Inc: 18.68 deg Az:
113.93 deg TVD:
2131.43 ft



S: 26 MD: 2277.00 ft
Inc: 17.53 deg Az:
111.80 deg TVD:
2216.02 ft

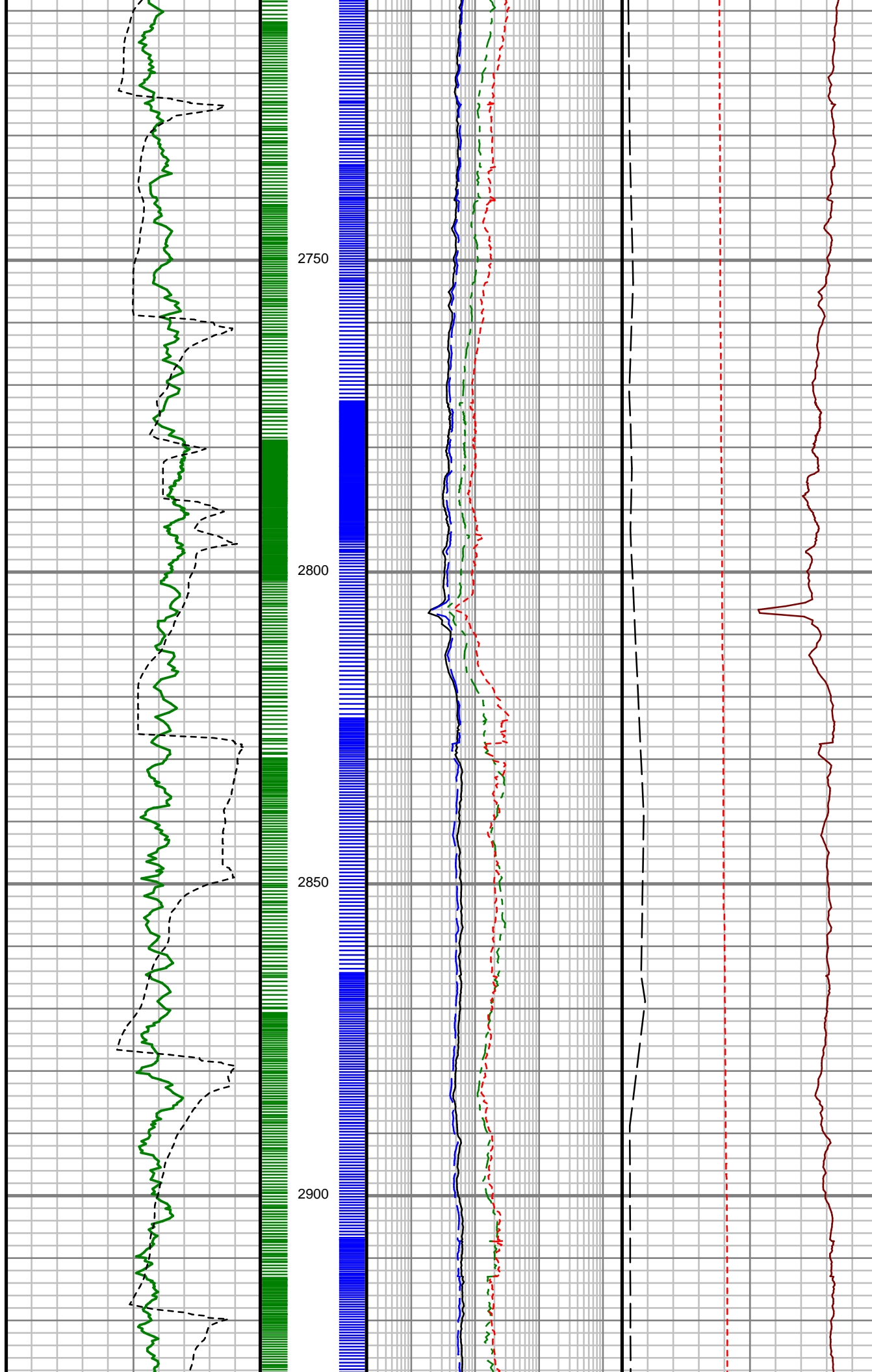
S: 27 MD: 2366.00 ft
Inc: 18.90 deg Az:
110.60 deg TVD:
2300.56 ft

S: 28 MD: 2454.00 ft
Inc: 18.12 deg Az:
110.72 deg TVD:
2384.01 ft



S: 29 MD: 2543.00 ft
Inc: 18.94 deg Az:
114.93 deg TVD:
2468.40 ft

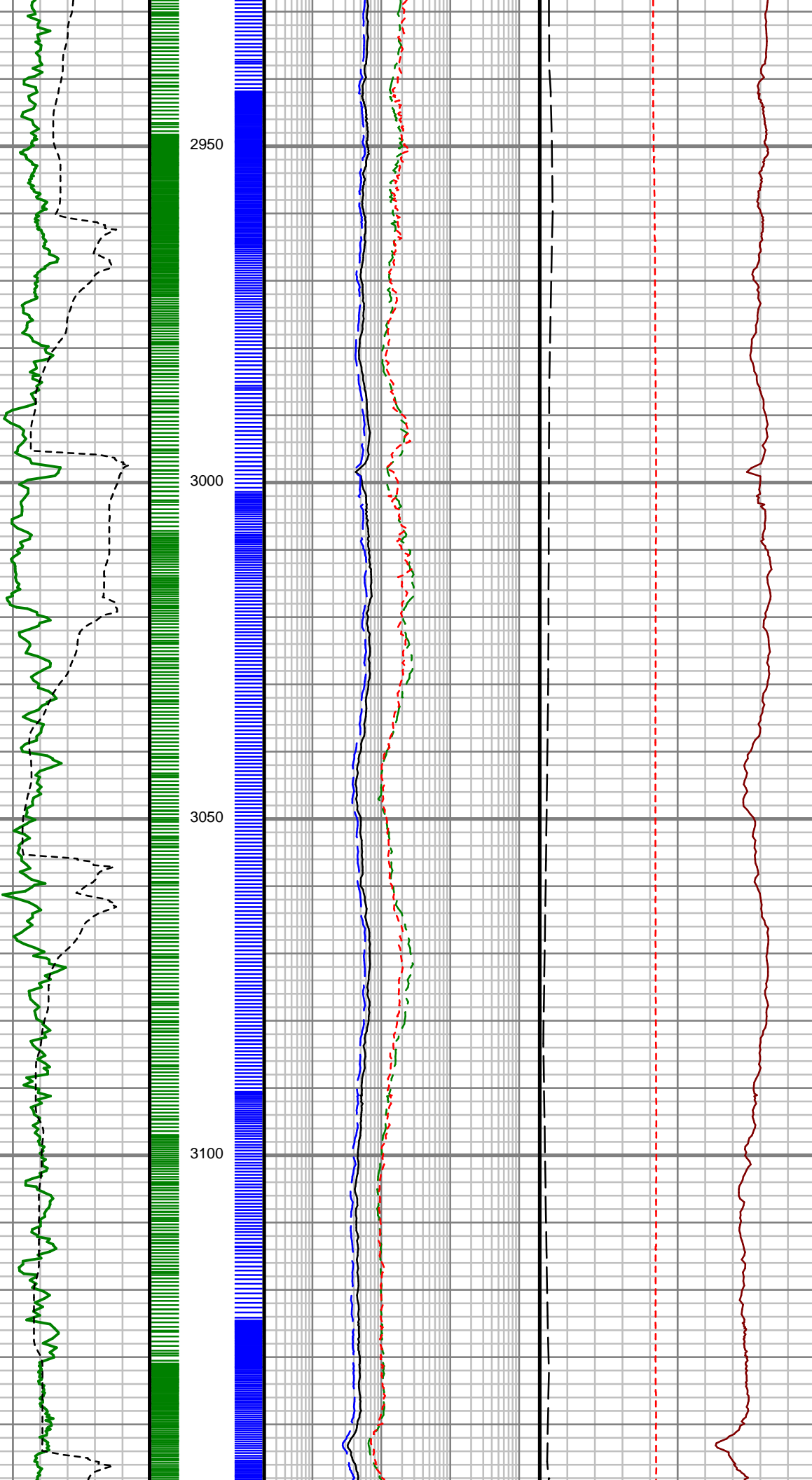
S: 30 MD: 2632.00 ft
Inc: 18.71 deg Az:
115.72 deg TVD:
2552.64 ft



S: 31 MD: 2720.00 ft
Inc: 17.82 deg Az:
116.26 deg TVD:
2636.20 ft

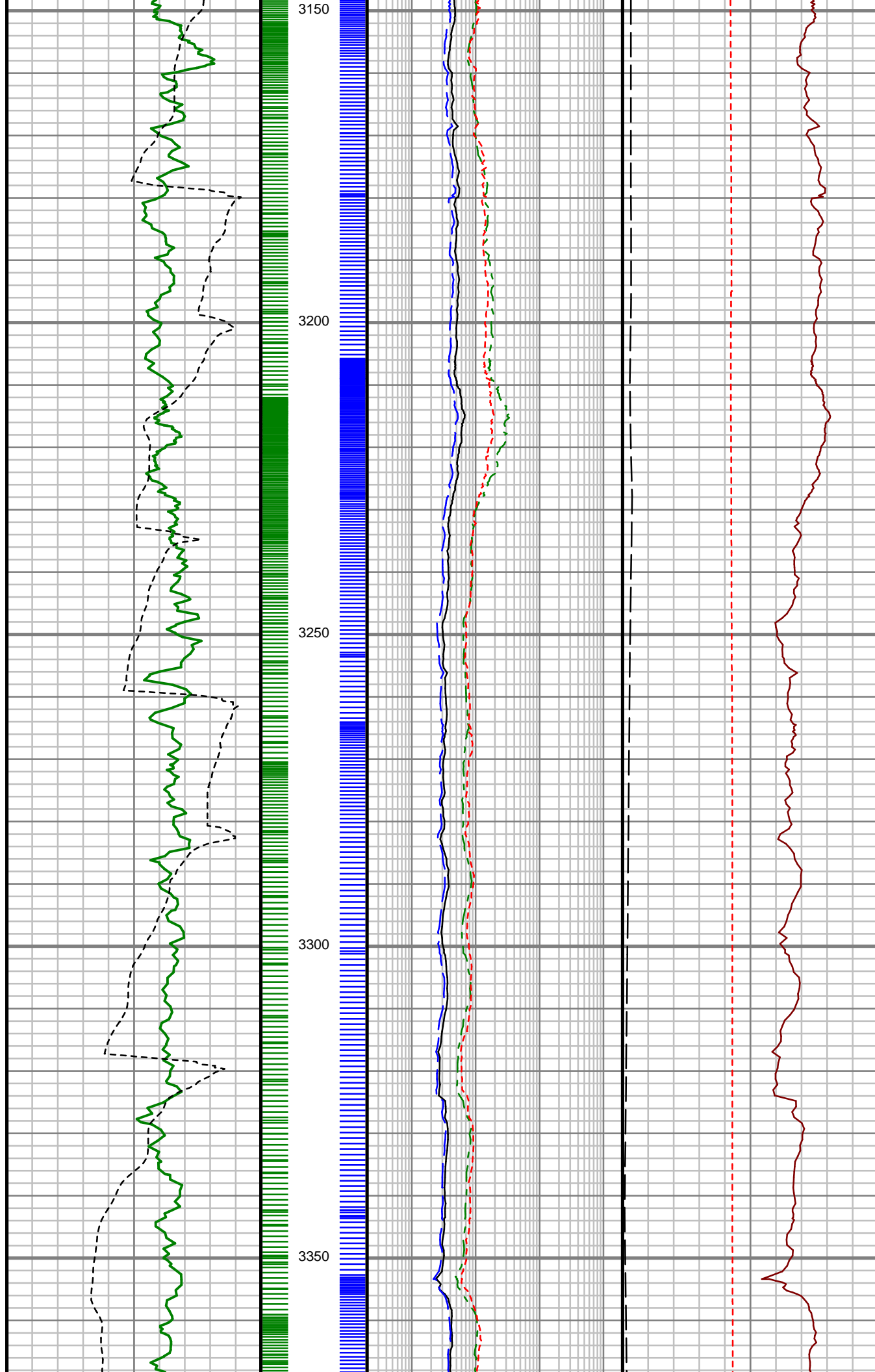
S: 32 MD: 2809.00 ft
Inc: 16.05 deg Az:
115.98 deg TVD:
2721.34 ft

S: 33 MD: 2897.00 ft
Inc: 18.30 deg Az:
114.67 deg TVD:
2805.41 ft



S: 34 MD: 2986.00 ft
Inc: 17.62 deg Az:
114.51 deg TVD:
2890.07 ft

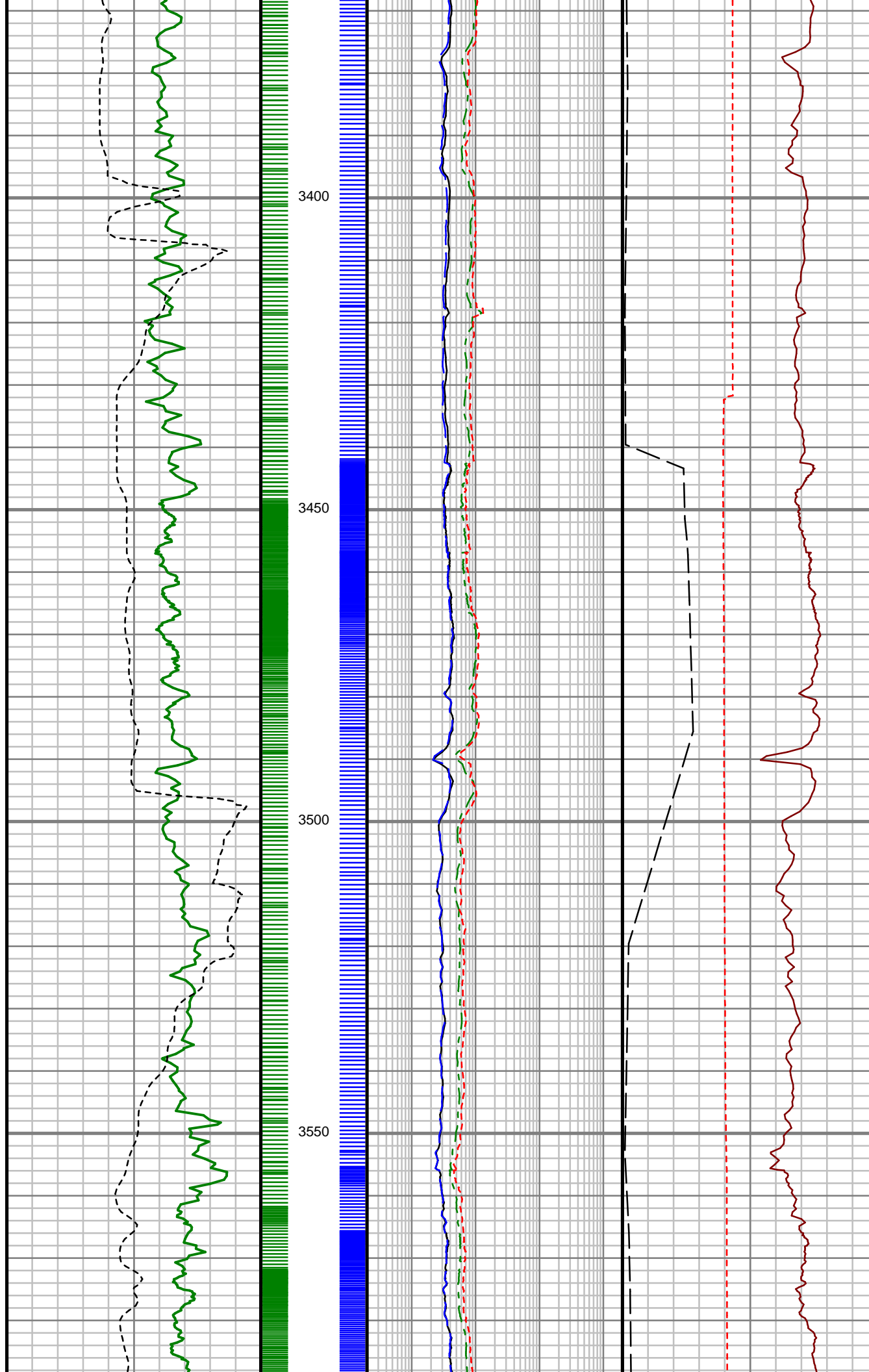
S: 35 MD: 3075.00 ft
Inc: 18.31 deg Az:
111.53 deg TVD:
2974.73 ft



S: 36 MD: 3163.00 ft
Inc: 16.26 deg Az:
110.64 deg TVD:
3058.75 ft

S: 37 MD: 3252.00 ft
Inc: 17.87 deg Az:
107.94 deg TVD:
3143.83 ft

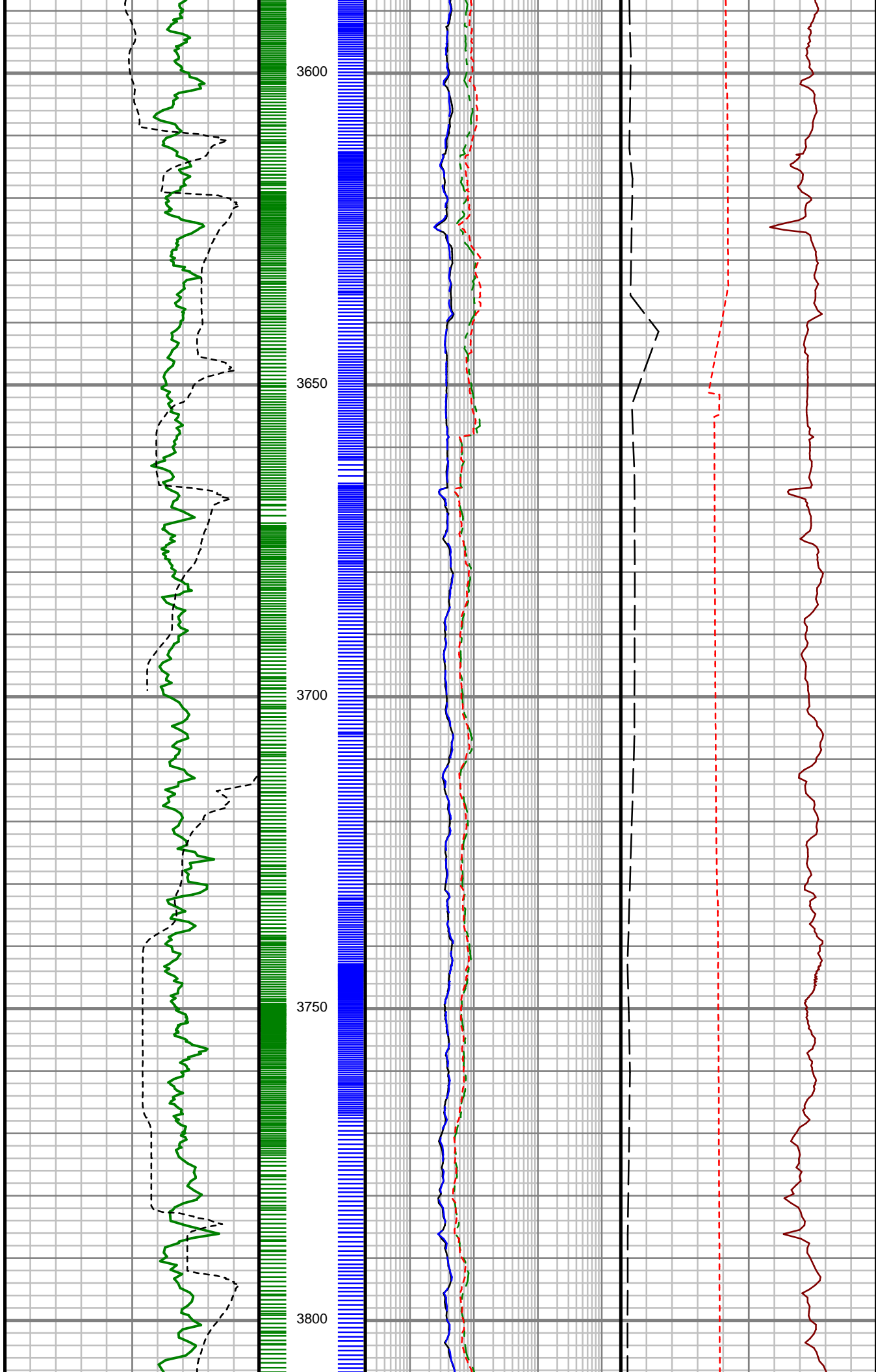
S: 38 MD: 3341.00 ft
Inc: 18.14 deg Az:
106.60 deg TVD:
3228.48 ft



S: 39 MD: 3429.00 ft
Inc: 15.46 deg Az:
106.61 deg TVD:
3312.71 ft

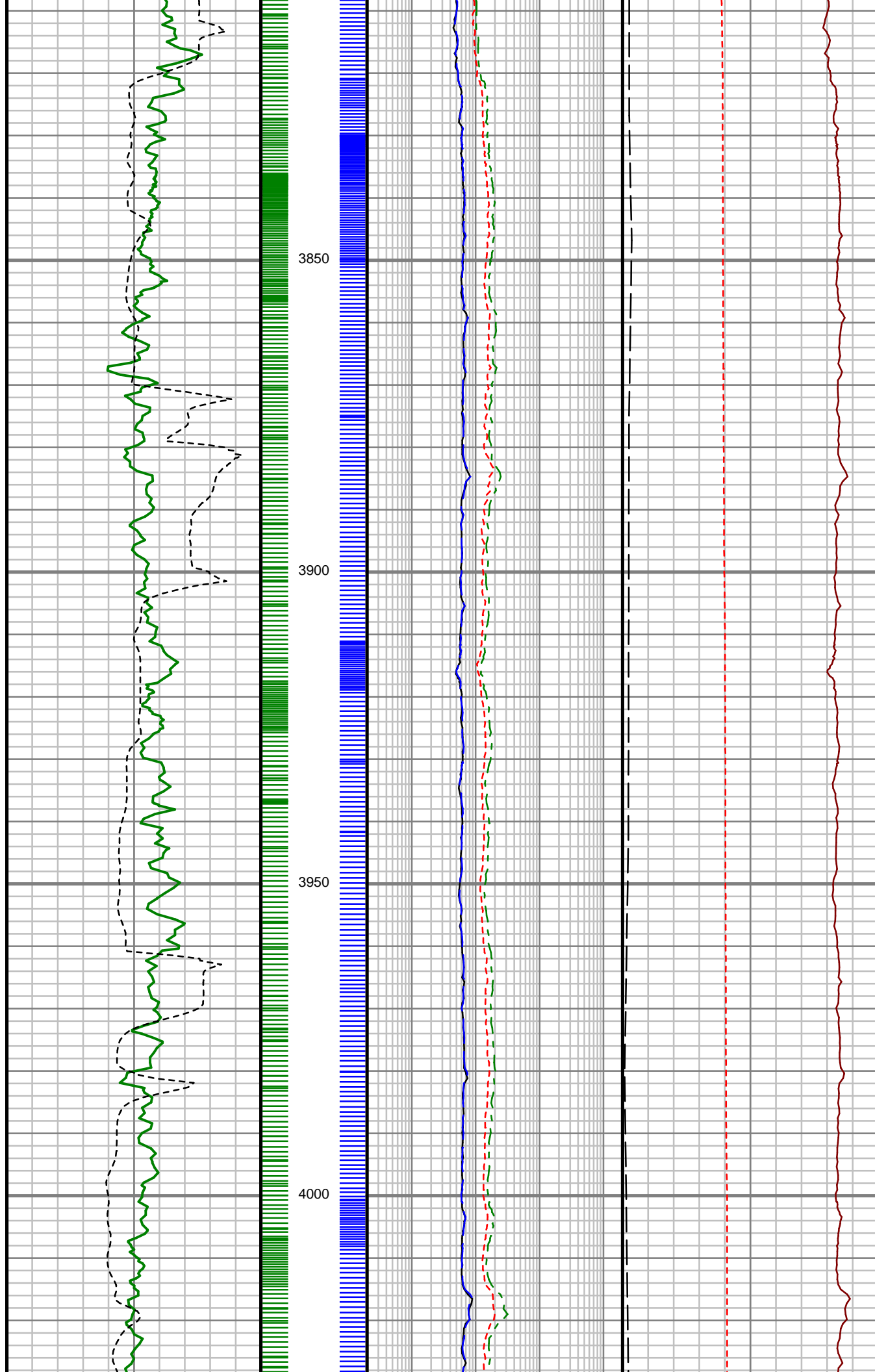
S: 40 MD: 3455.00 ft
Inc: 15.04 deg Az:
105.69 deg TVD:
3337.80 ft

S: 41 MD: 3544.00 ft
Inc: 16.08 deg Az:
108.90 deg TVD:
3423.54 ft



S: 42 MD: 3633.00 ft
Inc: 16.36 deg Az:
110.07 deg TVD:
3508.99 ft

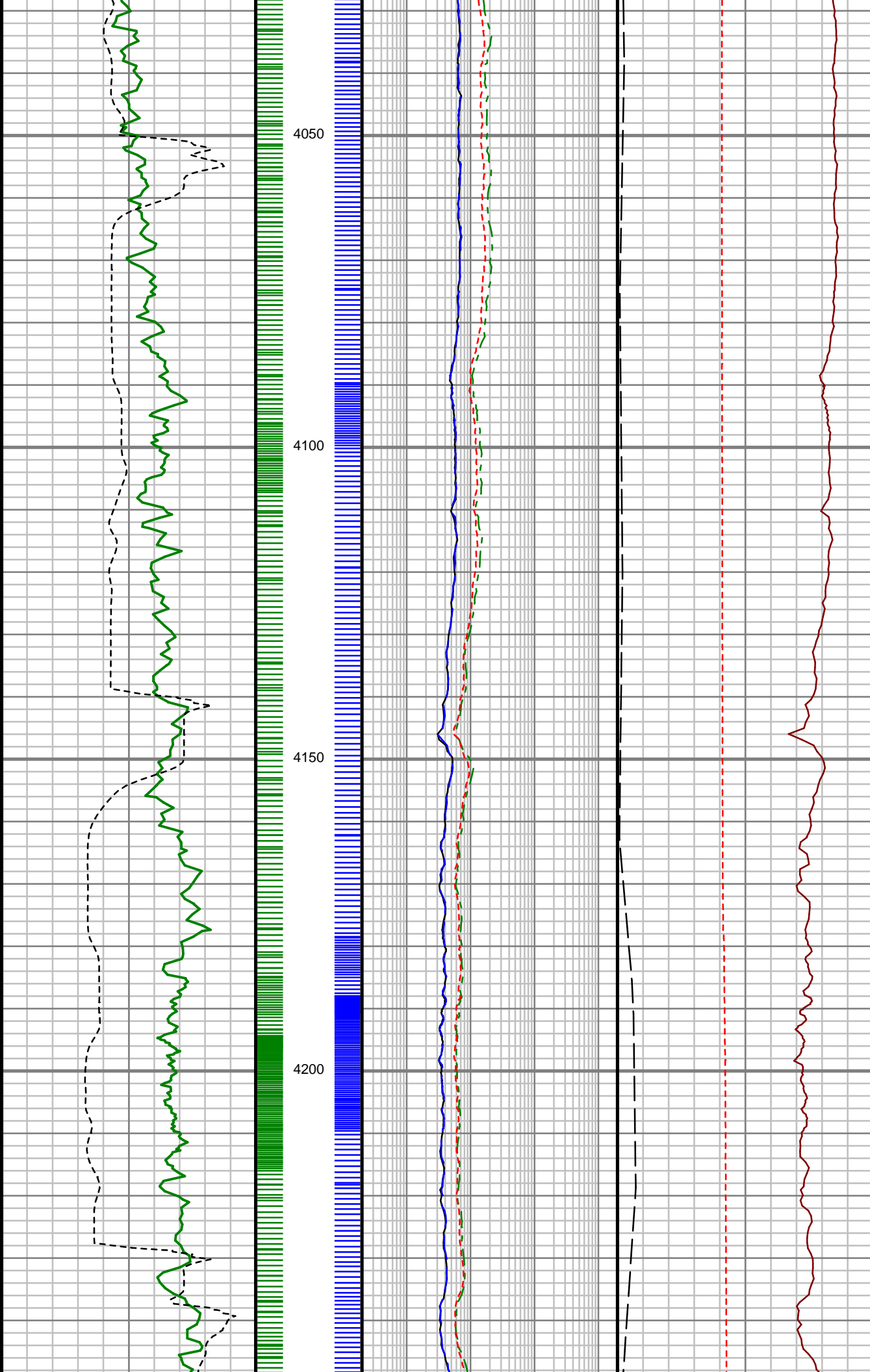
S: 43 MD: 3720.00 ft
Inc: 17.69 deg Az:
114.23 deg TVD:
3592.18 ft



S: 44 MD: 3809.00 ft
Inc: 18.25 deg Az:
115.79 deg TVD:
3676.84 ft

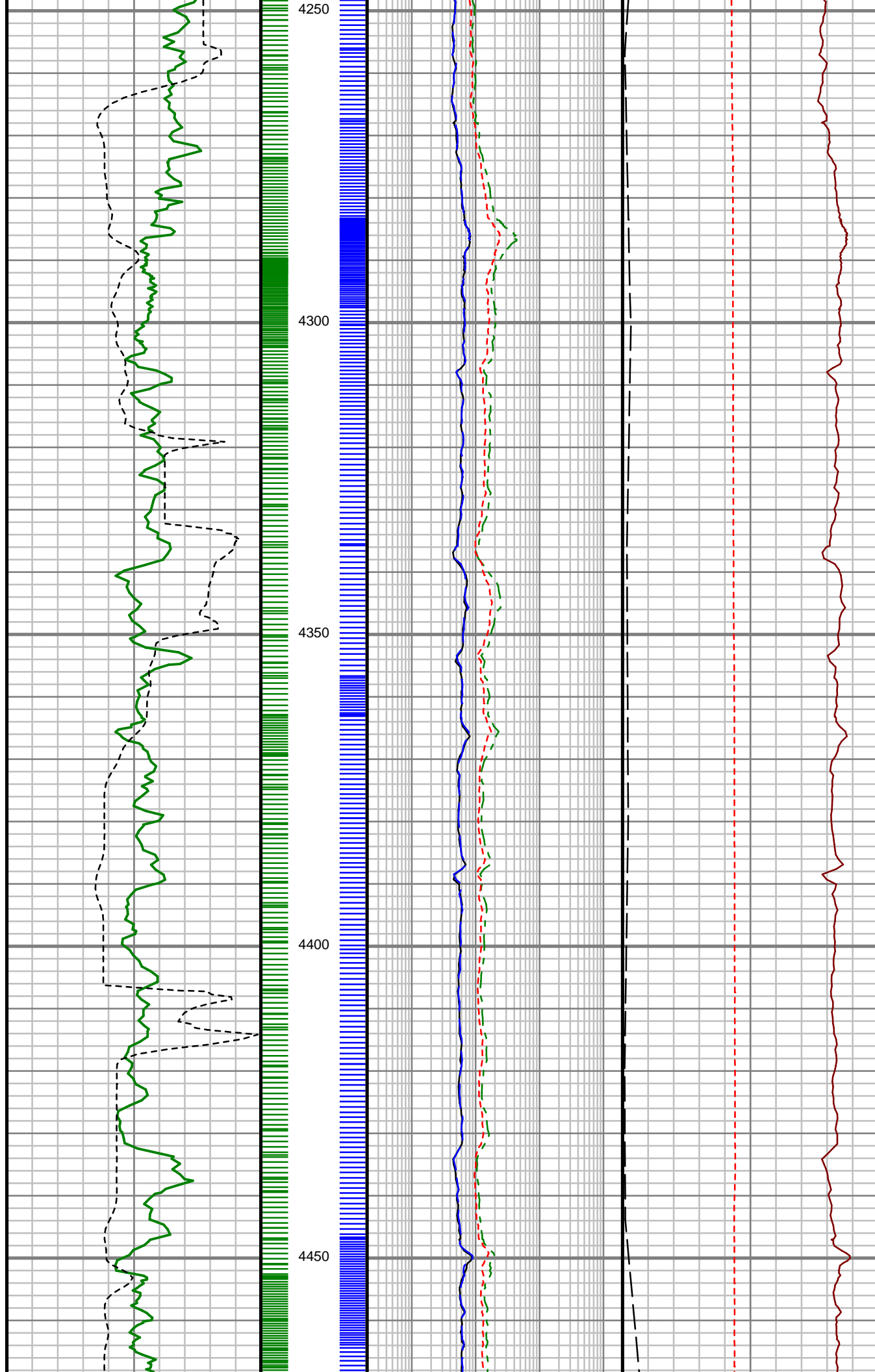
S: 45 MD: 3897.00 ft
Inc: 21.22 deg Az:
116.66 deg TVD:
3759.66 ft

S: 46 MD: 3986.00 ft
Inc: 20.63 deg Az:
117.54 deg TVD:
3842.80 ft



S: 47 MD: 4075.00 ft
Inc: 19.81 deg Az:
118.64 deg TVD:
3926.31 ft

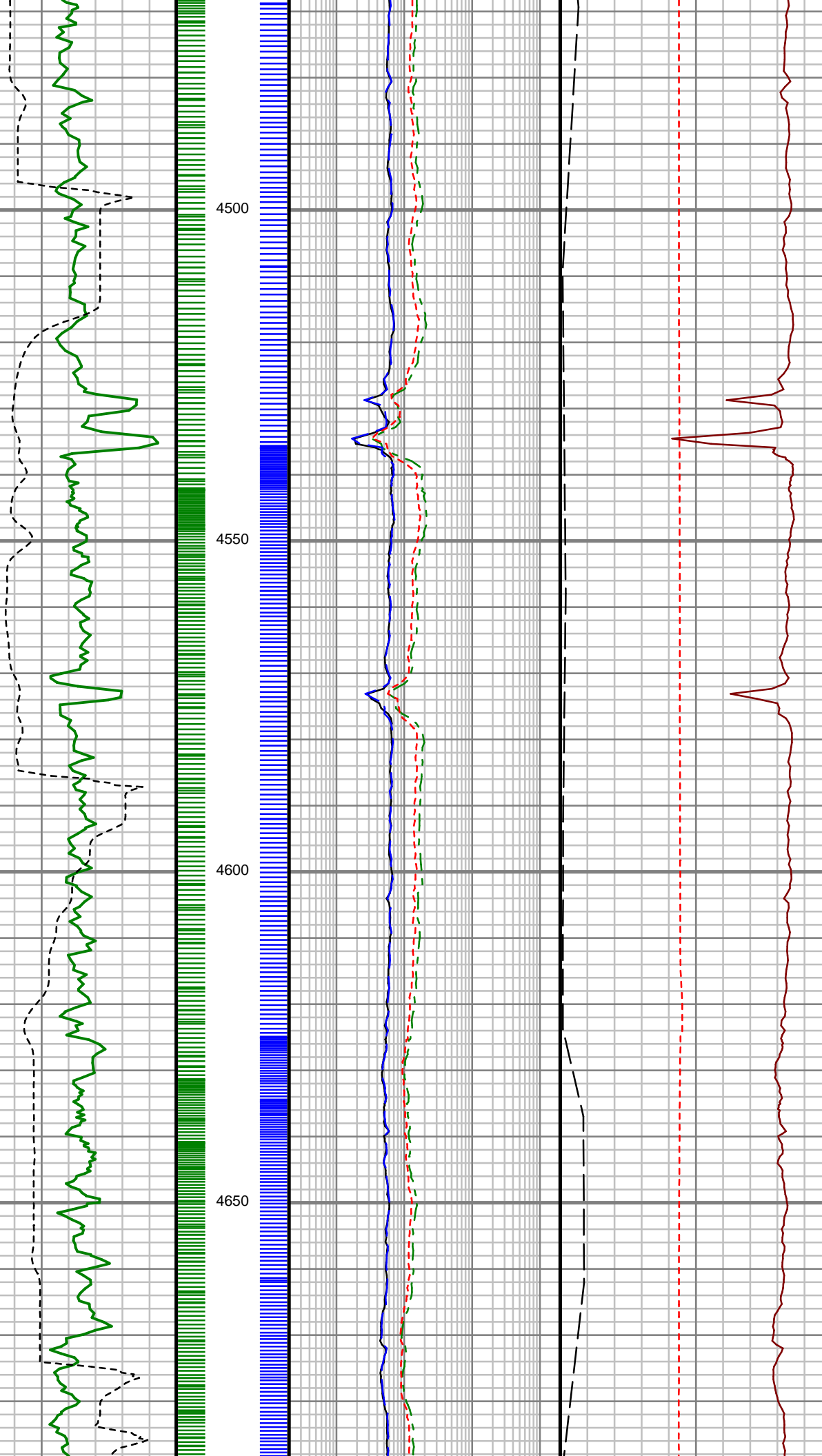
S: 48 MD: 4164.00 ft
Inc: 17.66 deg Az:
117.00 deg TVD:
4010.59 ft



S: 49 MD: 4253.00 ft
Inc: 18.21 deg Az:
111.54 deg TVD:
4095.27 ft

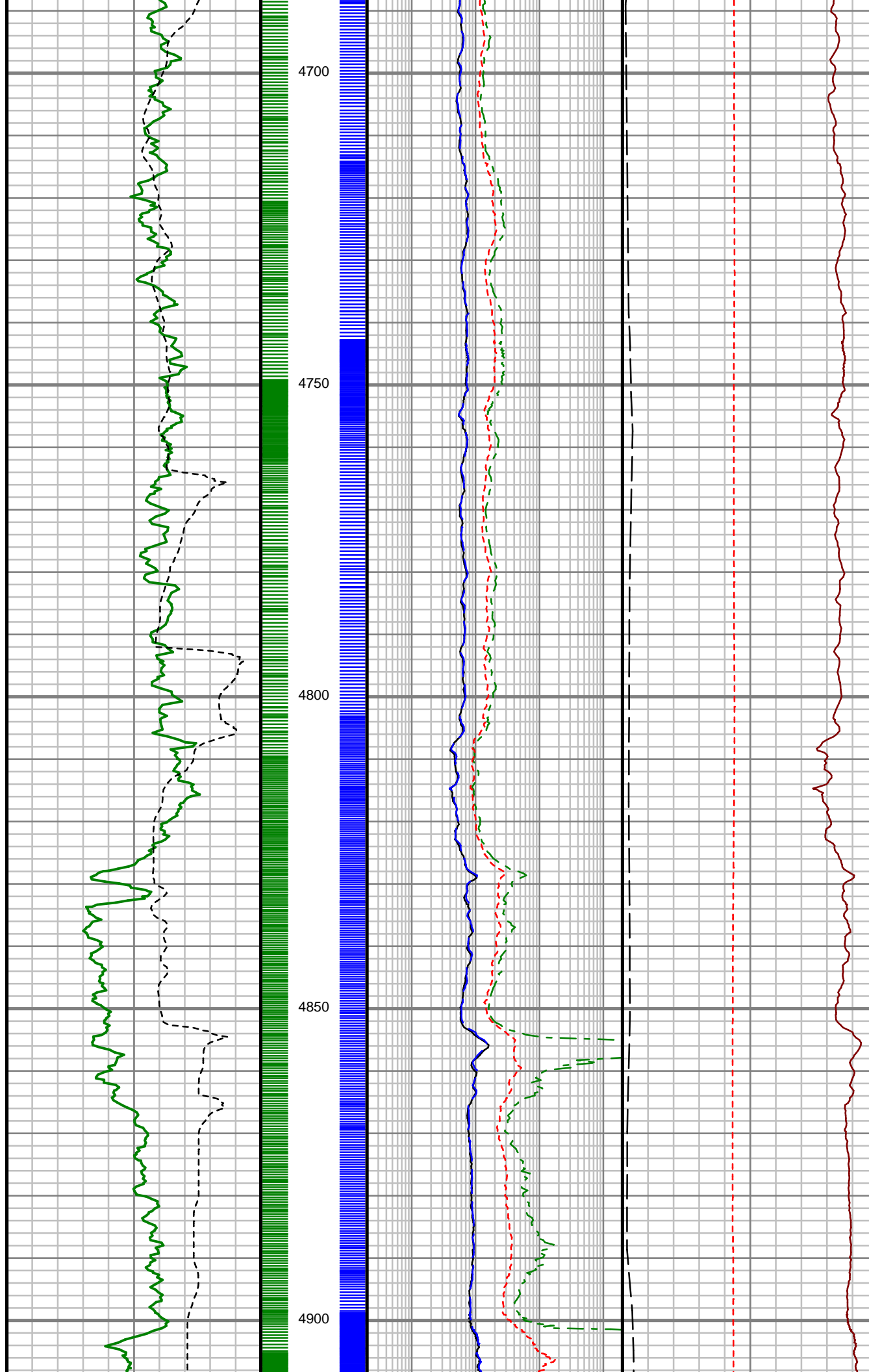
S: 50 MD: 4342.00 ft
Inc: 18.78 deg Az:
109.83 deg TVD:
4179.68 ft

S: 51 MD: 4431.00 ft
Inc: 18.34 deg Az:
110.78 deg TVD:
4264.05 ft



S: 52 MD: 4520.00 ft
Inc: 17.47 deg Az:
111.33 deg TVD:
4348.74 ft

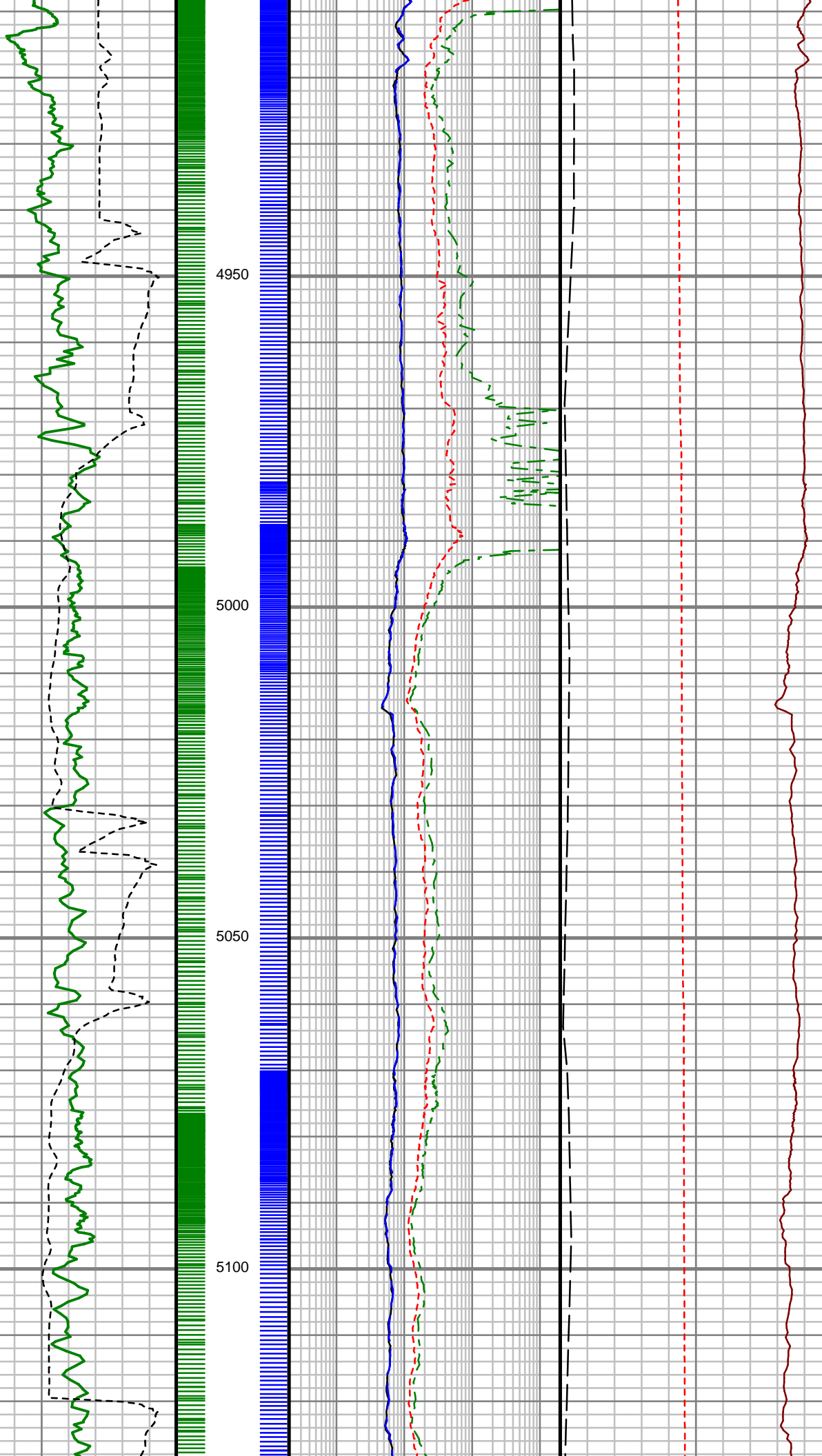
S: 53 MD: 4609.00 ft
Inc: 15.77 deg Az:
111.32 deg TVD:
4434.02 ft



S: 54 MD: 4698.00 ft
Inc: 13.96 deg Az:
112.53 deg TVD:
4520.03 ft

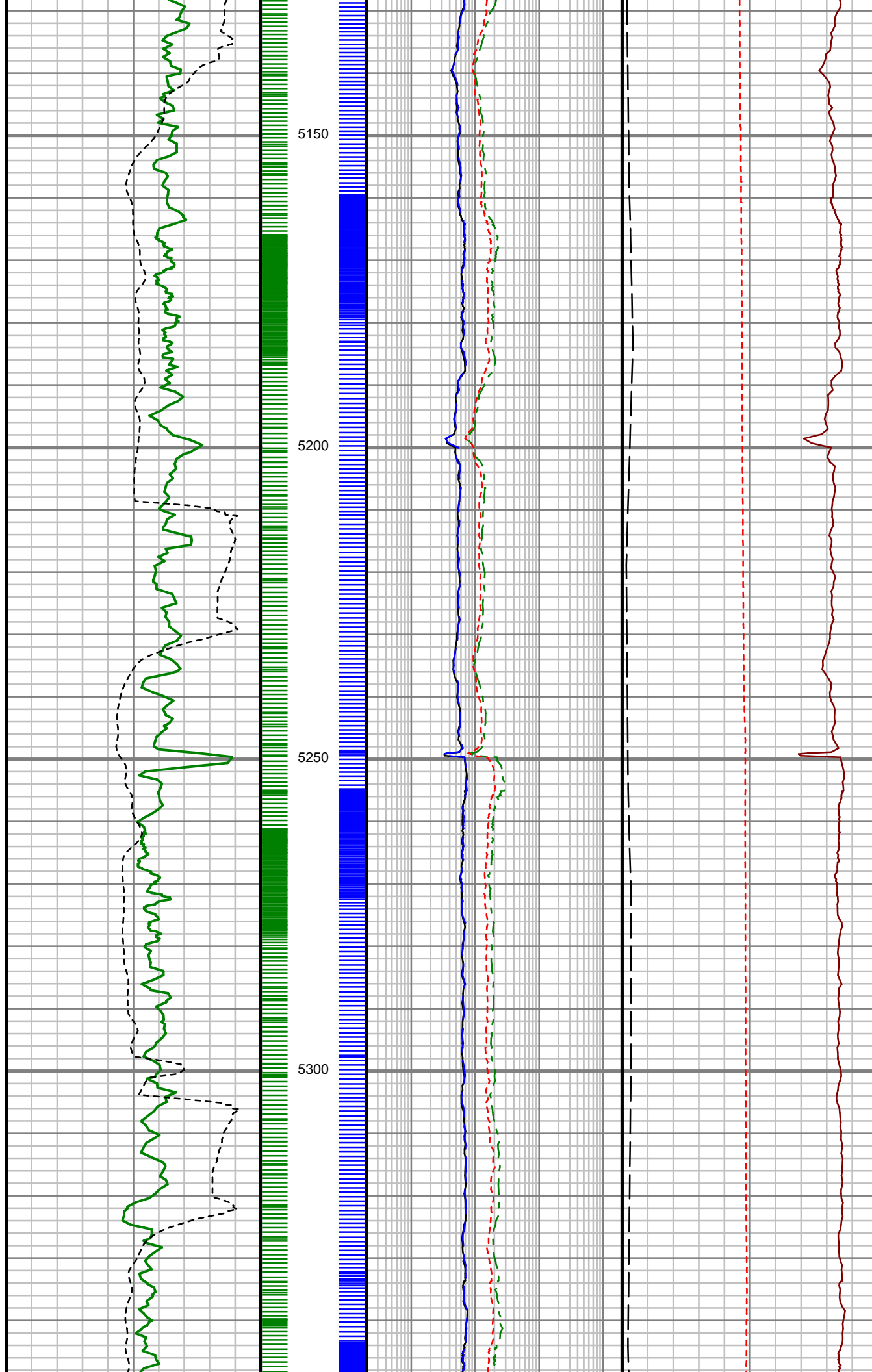
S: 55 MD: 4787.00 ft
Inc: 12.77 deg Az:
114.78 deg TVD:
4606.62 ft

S: 56 MD: 4876.00 ft
Inc: 11.61 deg Az:
116.15 deg TVD:
4693.61 ft



S: 57 MD: 4965.00 ft
Inc: 9.32 deg Az:
127.24 deg TVD:
4781.13 ft

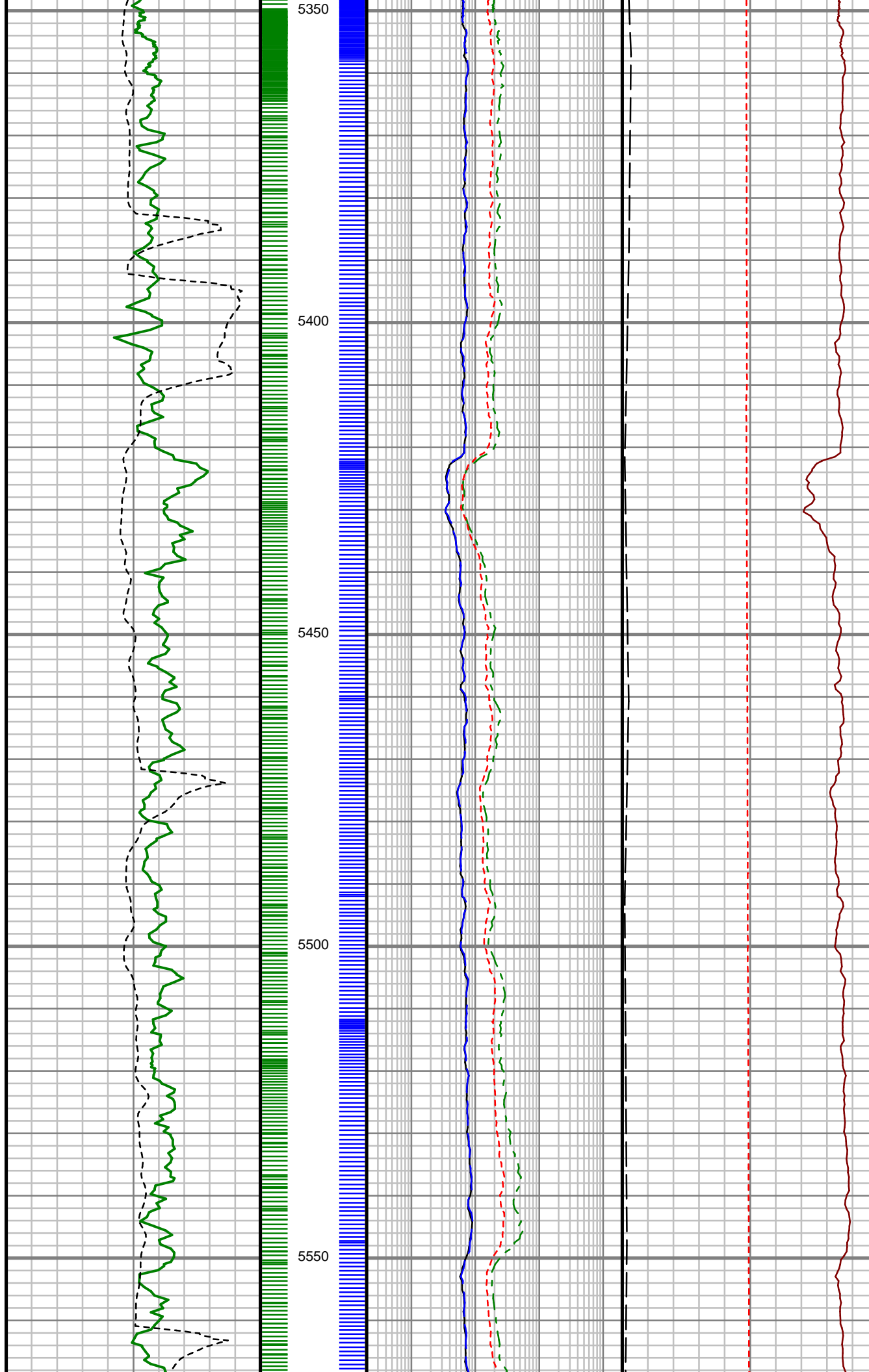
S: 58 MD: 5054.00 ft
Inc: 5.43 deg Az:
139.18 deg TVD:
4869.39 ft



S: 59 MD: 5143.00 ft
Inc: 3.03 deg Az:
136.97 deg TVD:
4958.14 ft

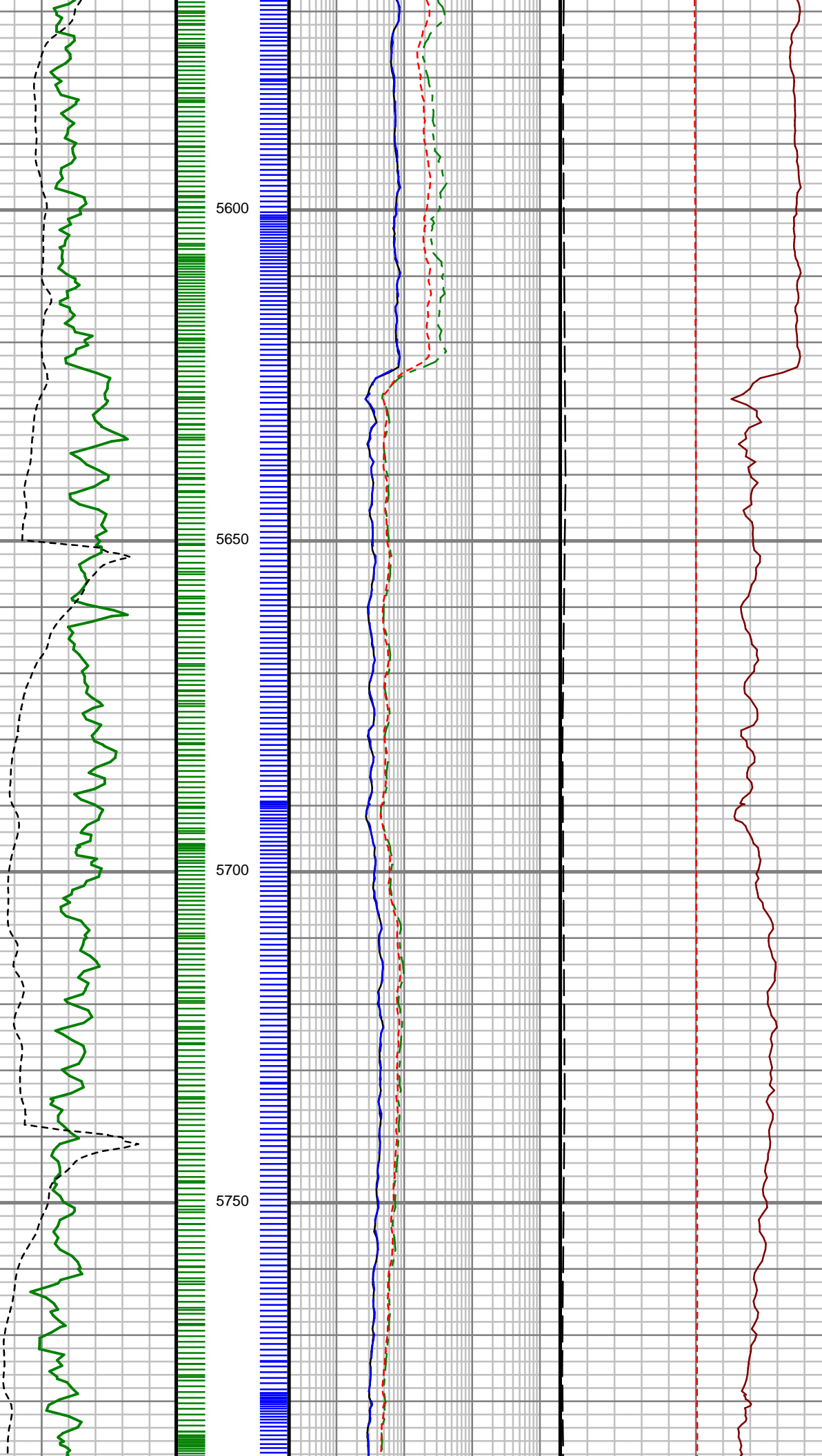
S: 60 MD: 5232.00 ft
Inc: 0.53 deg Az:
226.45 deg TVD:
5047.09 ft

S: 61 MD: 5321.00 ft
Inc: 1.56 deg Az: 2.92
deg TVD: 5136.08 ft



S: 62 MD: 5409.00 ft
Inc: 2.78 deg Az:
353.99 deg TVD:
5224.02 ft

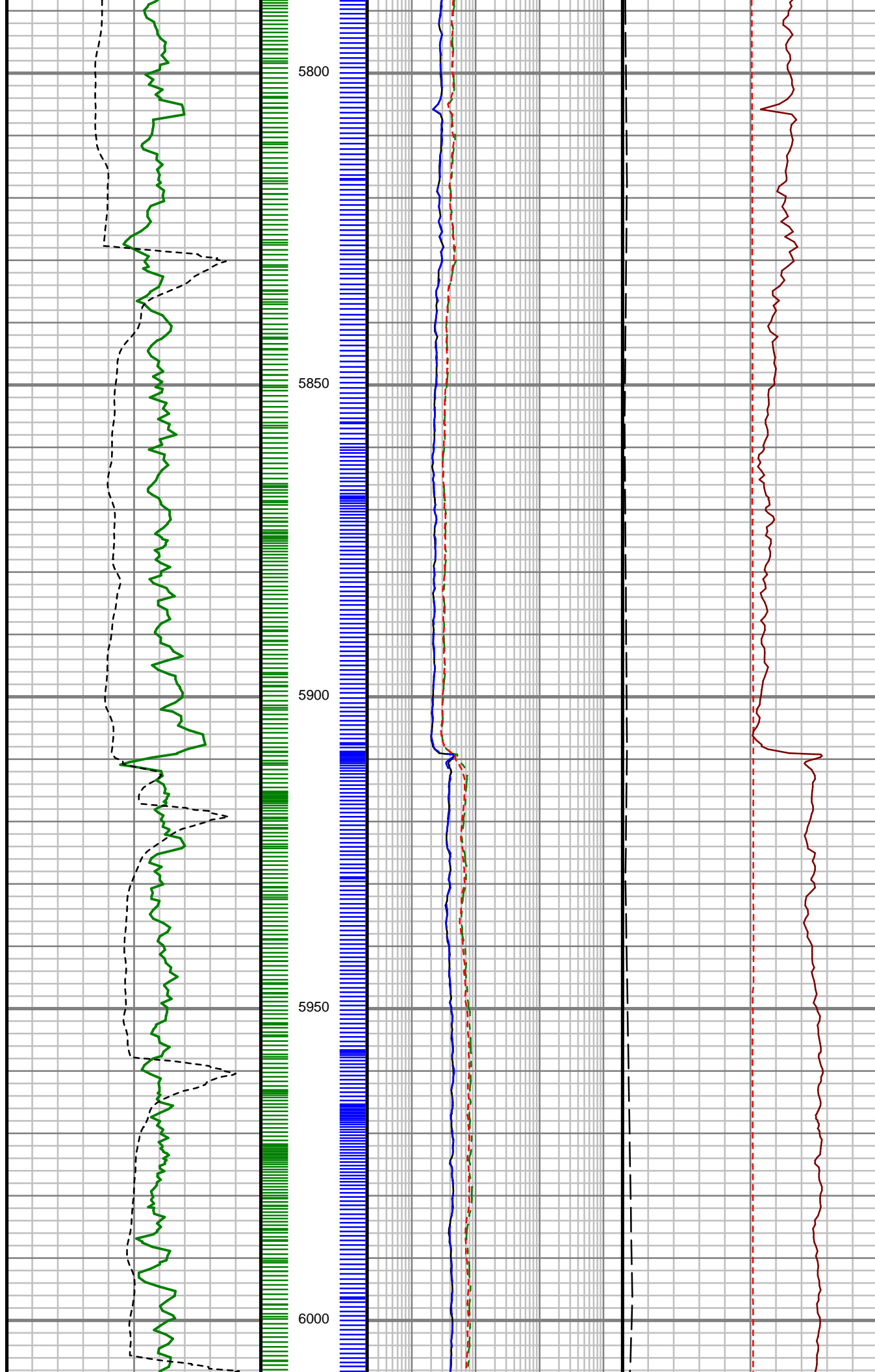
S: 63 MD: 5498.00 ft
Inc: 2.56 deg Az:
348.25 deg TVD:
5312.92 ft



S: 64 MD: 5587.00 ft
Inc: 1.89 deg Az:
354.60 deg TVD:
5401.86 ft

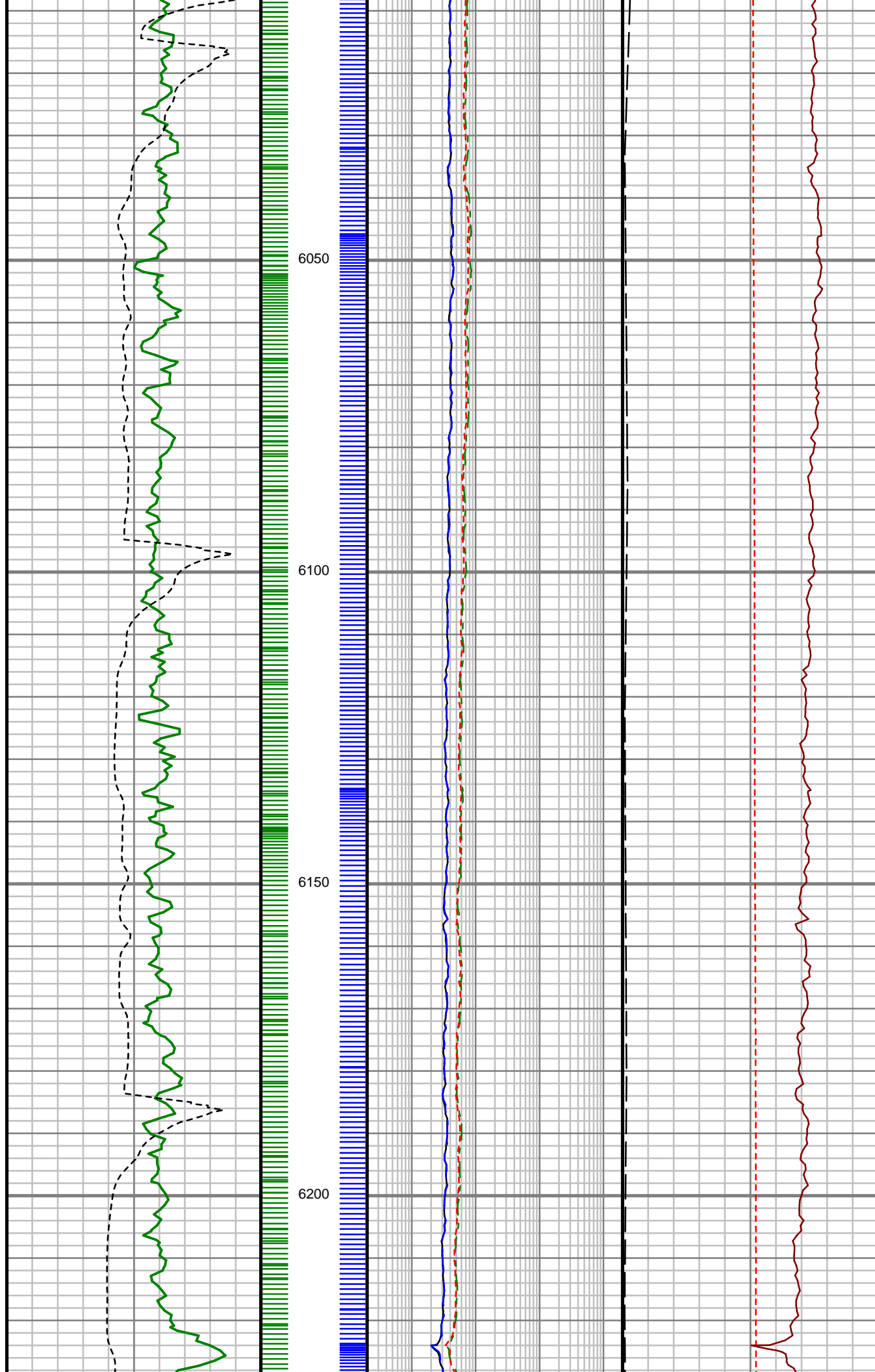
S: 65 MD: 5676.00 ft
Inc: 1.43 deg Az:
358.14 deg TVD:
5490.82 ft

S: 66 MD: 5765.00 ft
Inc: 0.72 deg Az:
355.96 deg TVD:
5579.80 ft



S: 67 MD: 5853.00 ft
Inc: 0.68 deg Az:
320.61 deg TVD:
5667.80 ft

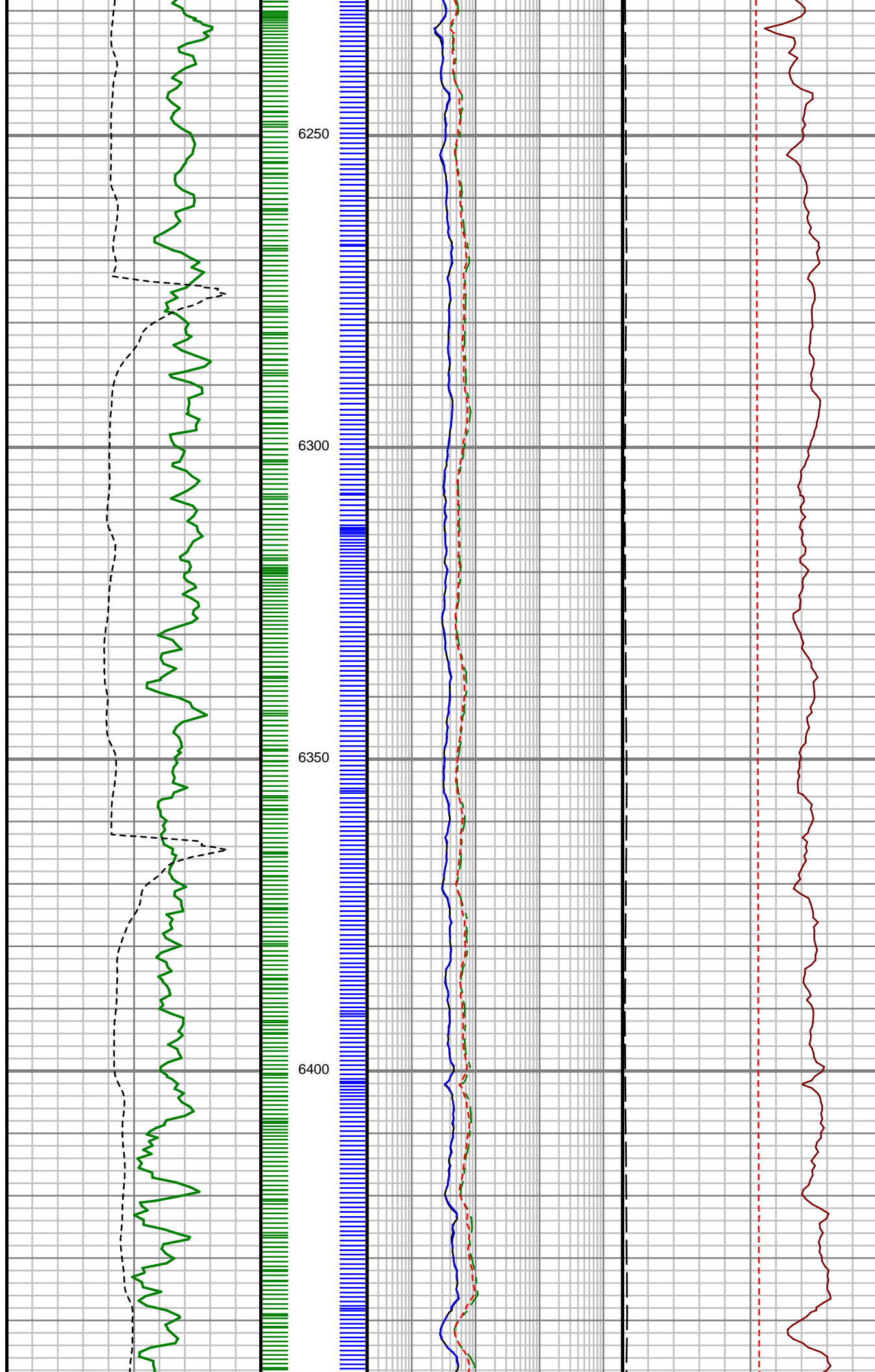
S: 68 MD: 5942.00 ft
Inc: 0.76 deg Az:
264.94 deg TVD:
5756.79 ft



S: 69 MD: 6031.00 ft
Inc: 0.42 deg Az:
270.81 deg TVD:
5845.78 ft

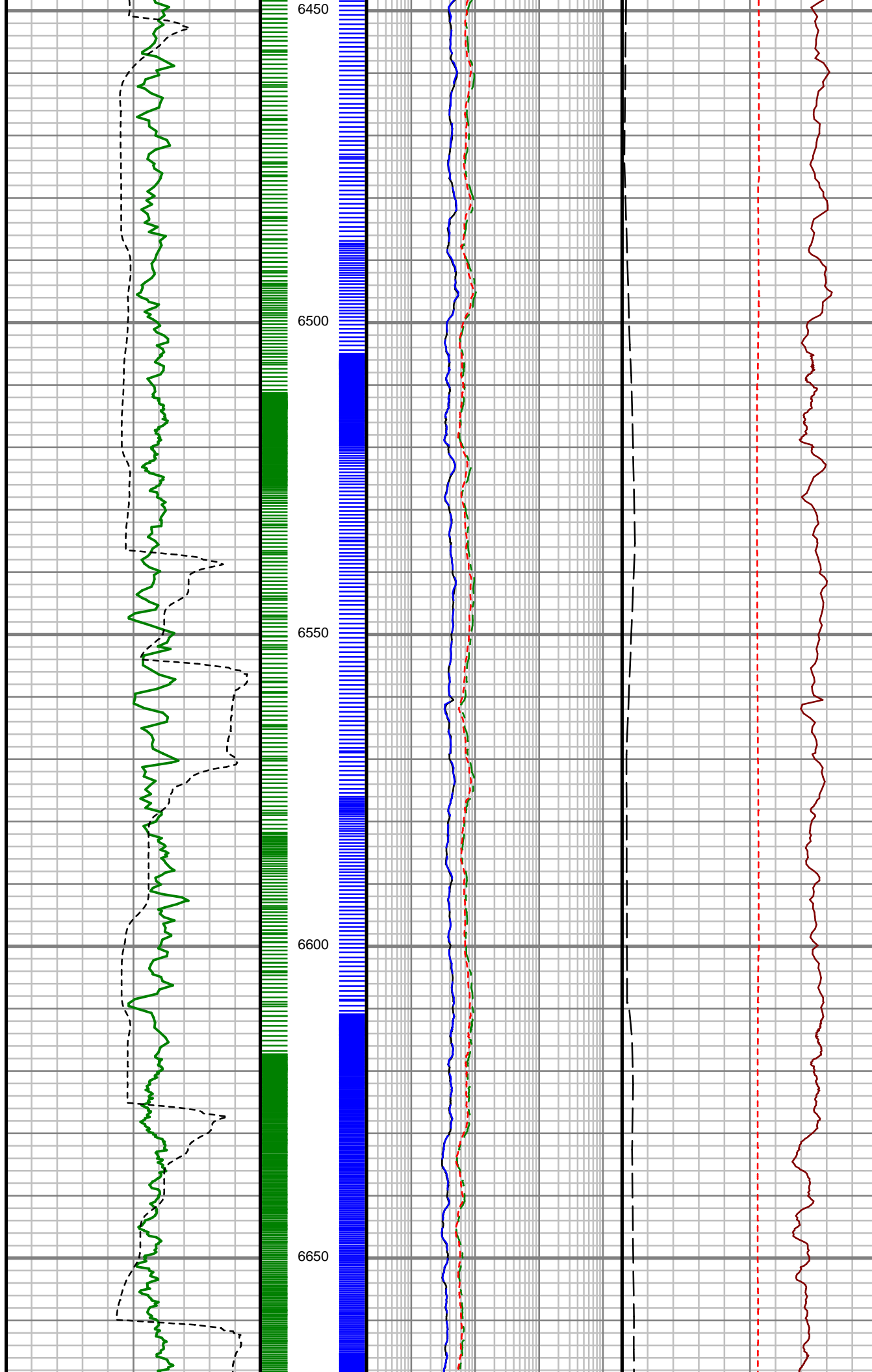
S: 70 MD: 6119.00 ft
Inc: 0.81 deg Az:
241.81 deg TVD:
5933.78 ft

S: 71 MD: 6208.00 ft
Inc: 1.33 deg Az:
250.74 deg TVD:
6022.76 ft



S: 72 MD: 6297.00 ft
Inc: 1.09 deg Az:
233.34 deg TVD:
6111.74 ft

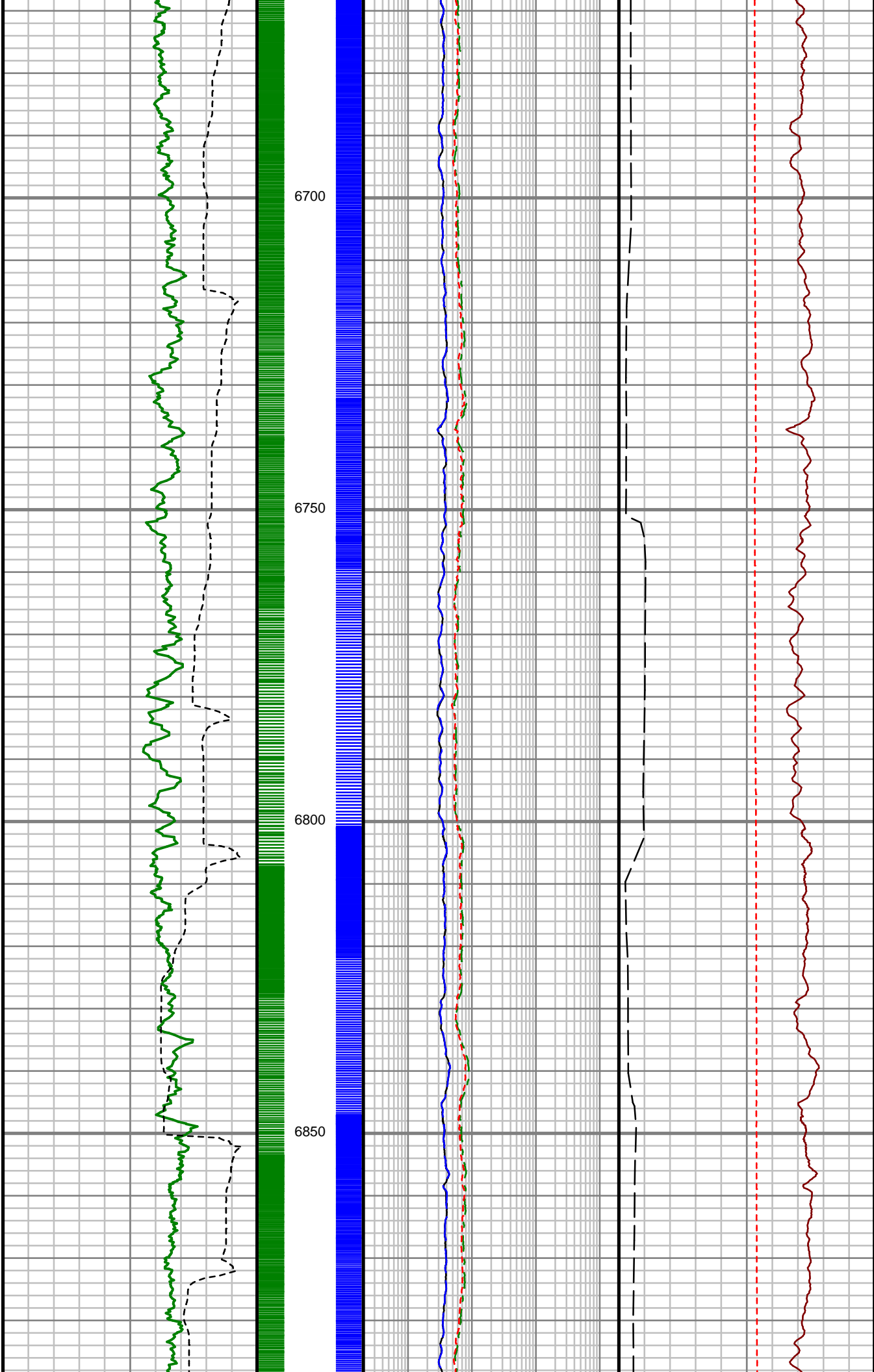
S: 73 MD: 6385.00 ft
Inc: 1.22 deg Az:
232.02 deg TVD:
6199.73 ft



S: 74 MD: 6474.00 ft
Inc: 1.42 deg Az:
242.88 deg TVD:
6288.70 ft

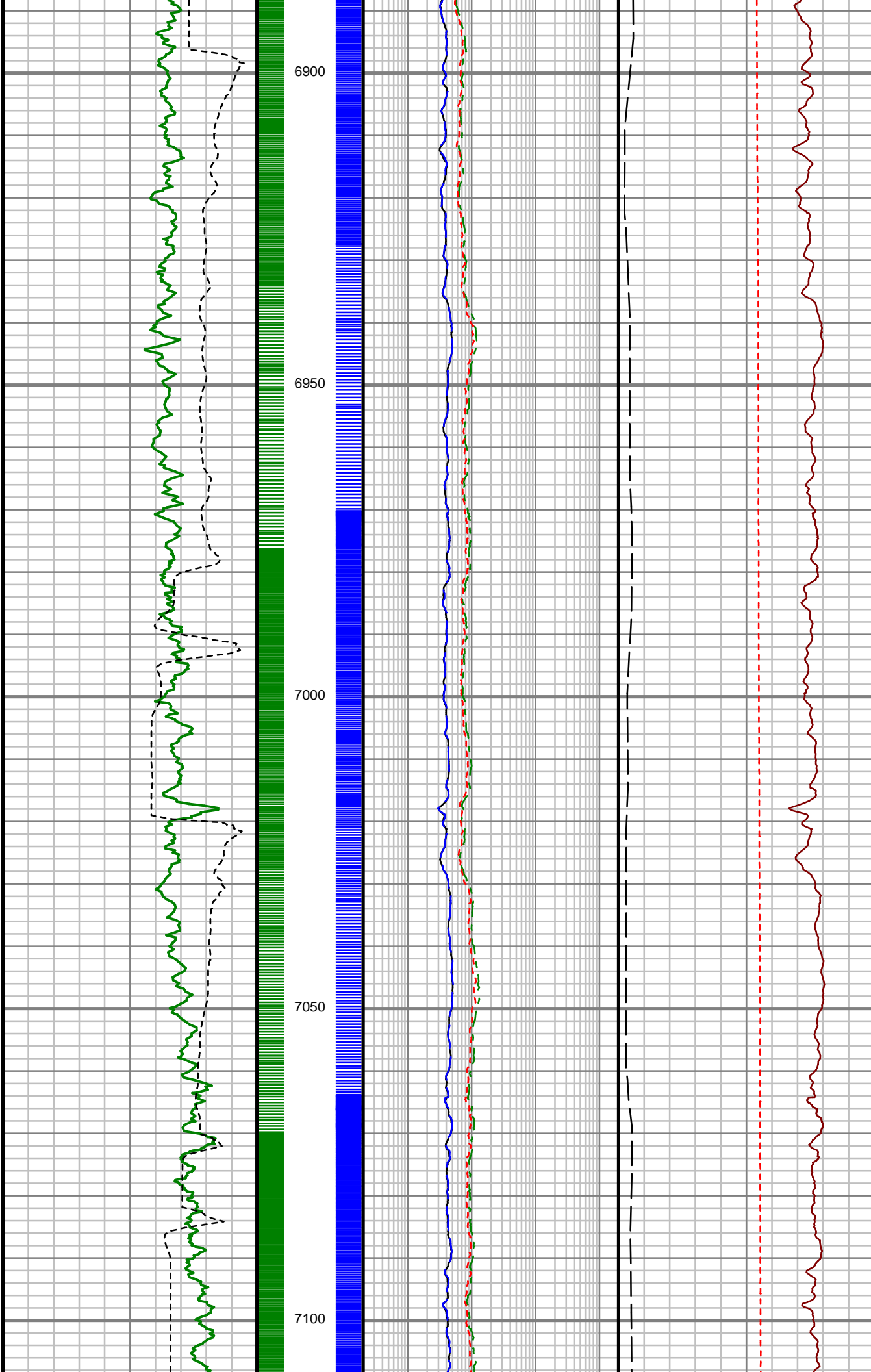
S: 75 MD: 6562.00 ft
Inc: 0.36 deg Az:
164.91 deg TVD:
6376.69 ft

S: 76 MD: 6651.00 ft
Inc: 0.31 deg Az:
204.43 deg TVD:
6465.69 ft



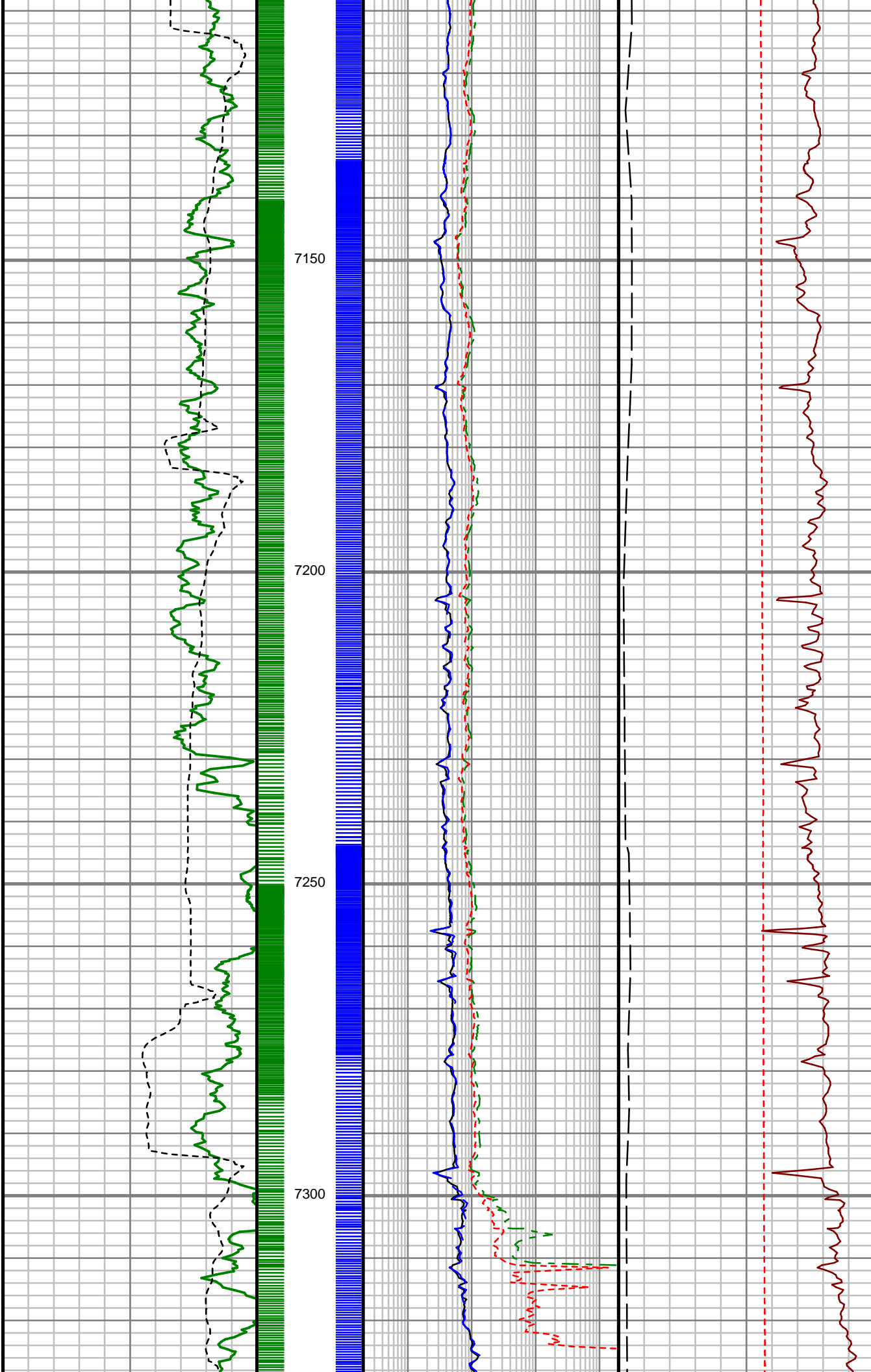
S: 77 MD: 6740.00 ft
Inc: 11.69 deg Az:
282.39 deg TVD:
6554.07 ft

S: 78 MD: 6833.00 ft
Inc: 15.45 deg Az:
283.68 deg TVD:
6644.46 ft



S: 79 MD: 6925.00 ft
Inc: 20.32 deg Az:
270.67 deg TVD:
6732.02 ft

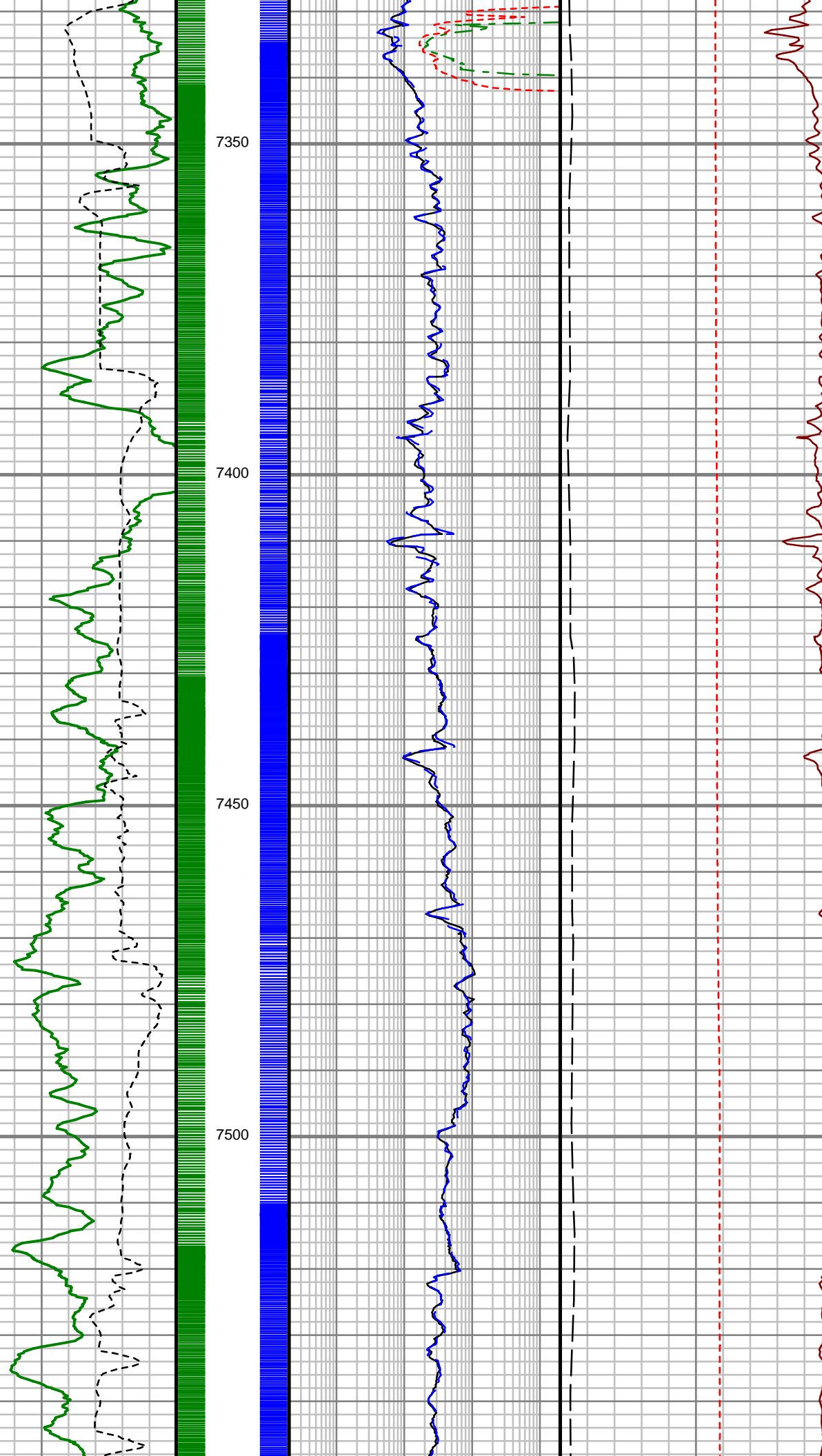
S: 80 MD: 7018.00 ft
Inc: 25.58 deg Az:
263.72 deg TVD:
6817.64 ft



S: 81 MD: 7110.00 ft
Inc: 30.86 deg Az:
265.52 deg TVD:
6898.68 ft

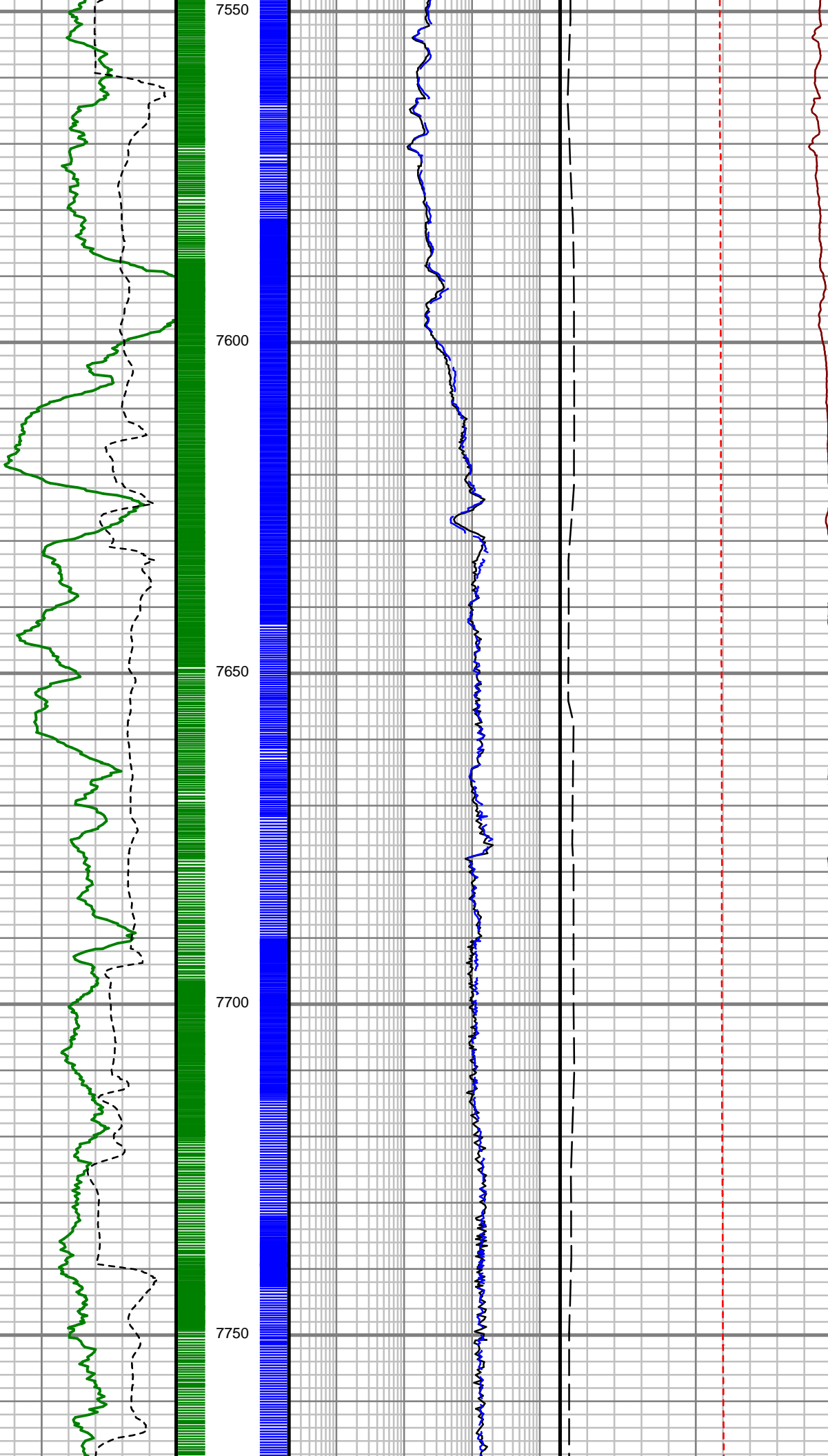
S: 82 MD: 7203.00 ft
Inc: 40.74 deg Az:
268.20 deg TVD:
6974.02 ft

S: 83 MD: 7292.00 ft
Inc: 50.11 deg Az:
269.67 deg TVD:
7036.42 ft



S: 84 MD: 7381.00 ft
Inc: 54.13 deg Az:
267.90 deg TVD:
7091.06 ft

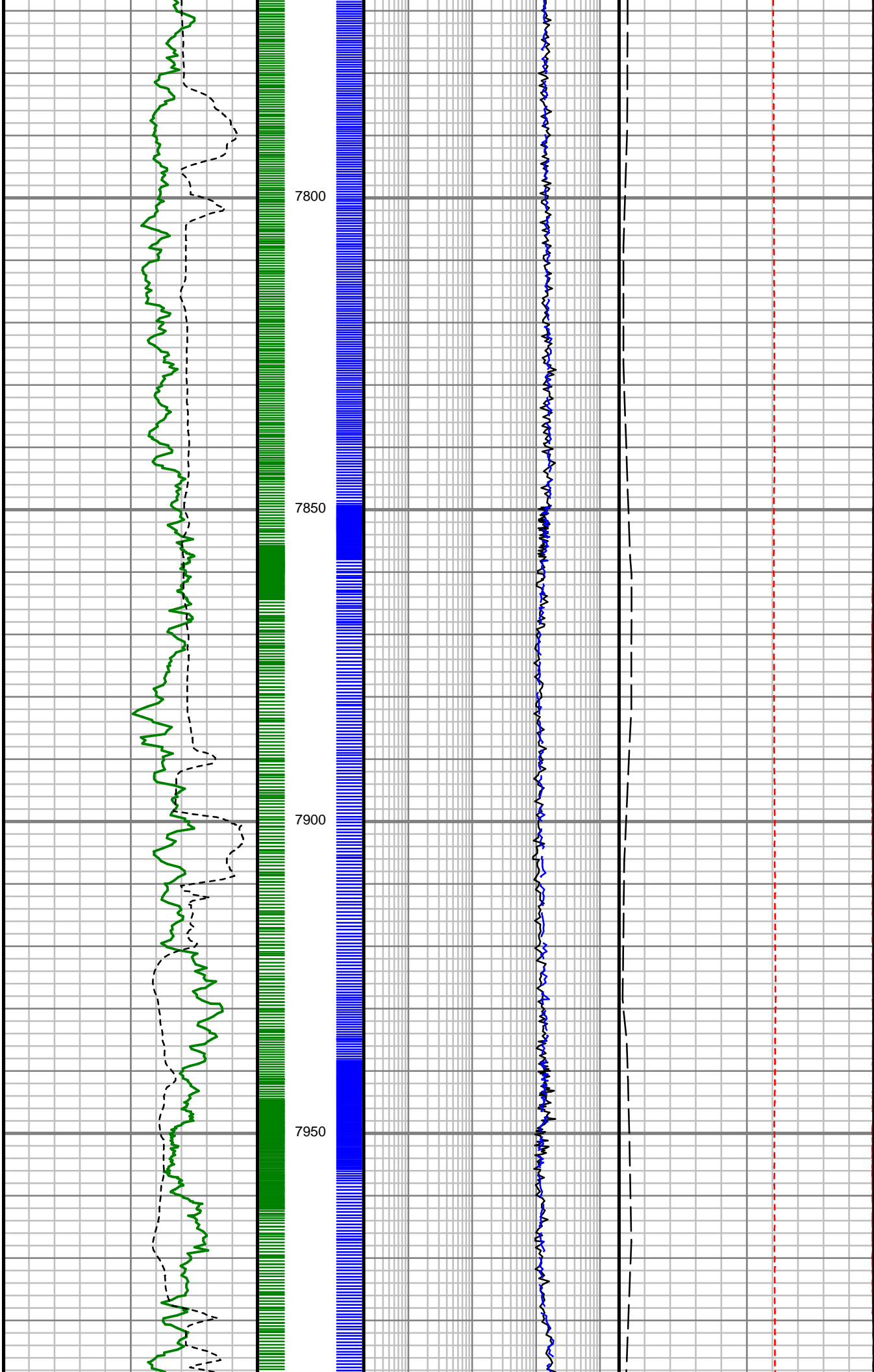
S: 85 MD: 7470.00 ft
Inc: 62.30 deg Az:
266.46 deg TVD:
7137.90 ft



S: 86 MD: 7559.00 ft
Inc: 68.63 deg Az:
266.49 deg TVD:
7174.83 ft

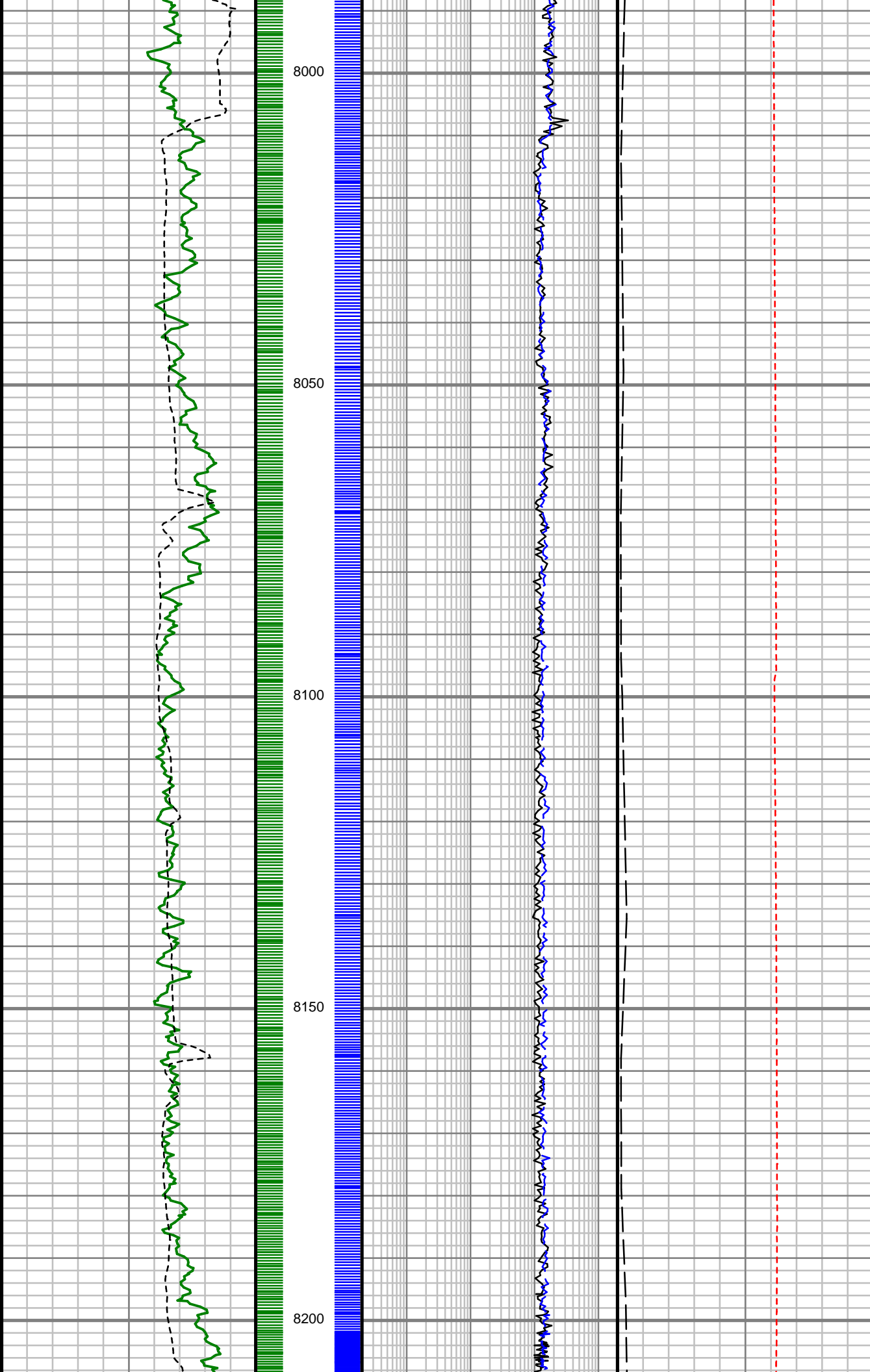
S: 87 MD: 7647.00 ft
Inc: 79.69 deg Az:
269.75 deg TVD:
7198.82 ft

S: 88 MD: 7736.00 ft
Inc: 87.54 deg Az:
271.45 deg TVD:
7208.71 ft



S: 89 MD: 7825.00 ft
Inc: 91.34 deg Az:
270.13 deg TVD:
7209.58 ft

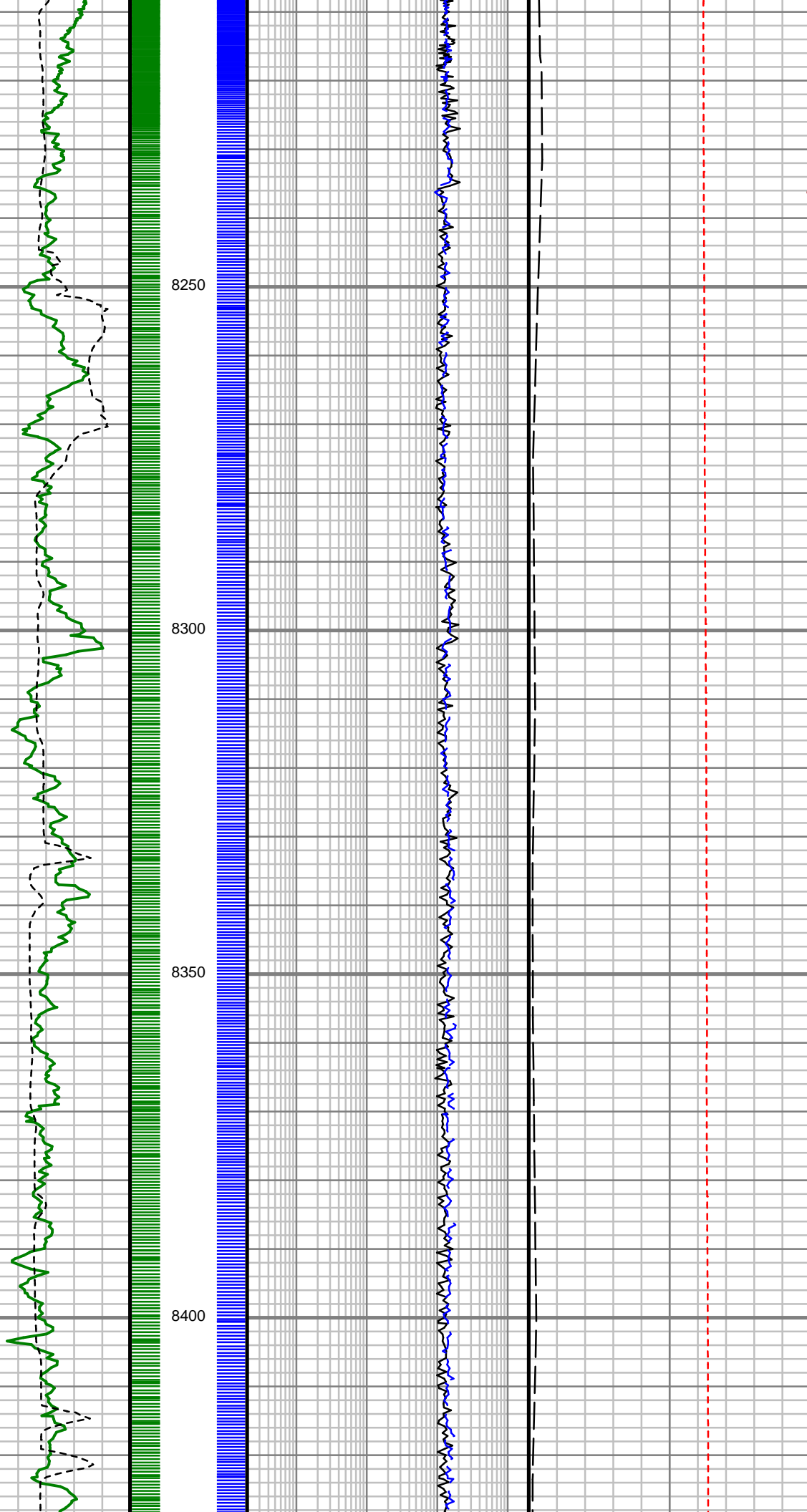
S: 90 MD: 7913.00 ft
Inc: 91.38 deg Az:
271.14 deg TVD:
7207.49 ft



S: 91 MD: 8002.00 ft
Inc: 89.19 deg Az:
272.06 deg TVD:
7207.04 ft

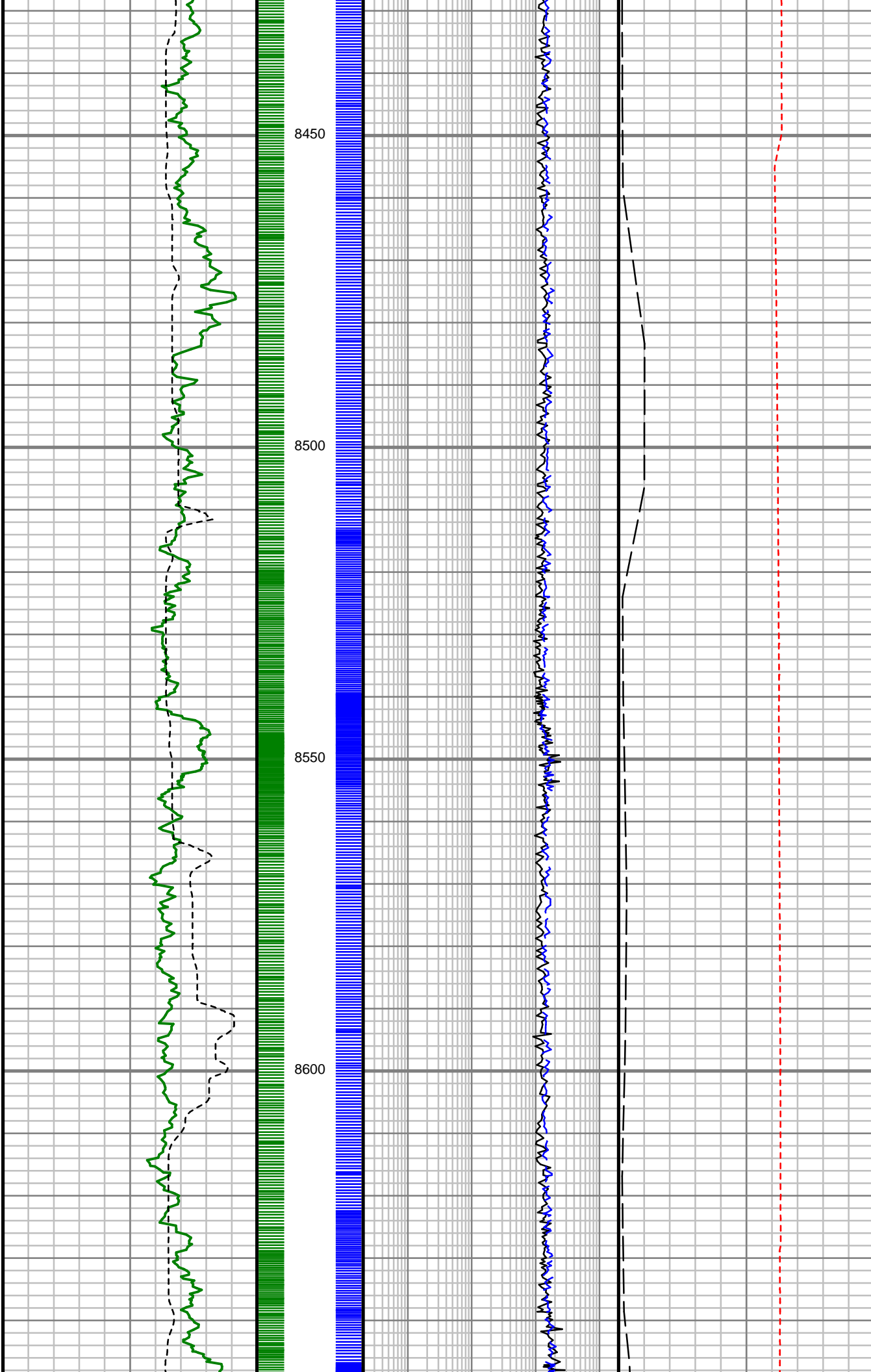
S: 92 MD: 8090.00 ft
Inc: 89.43 deg Az:
273.01 deg TVD:
7208.10 ft

S: 93 MD: 8179.00 ft
Inc: 90.84 deg Az:
273.60 deg TVD:
7207.90 ft



S: 94 MD: 8268.00 ft
Inc: 89.60 deg Az:
271.91 deg TVD:
7207.56 ft

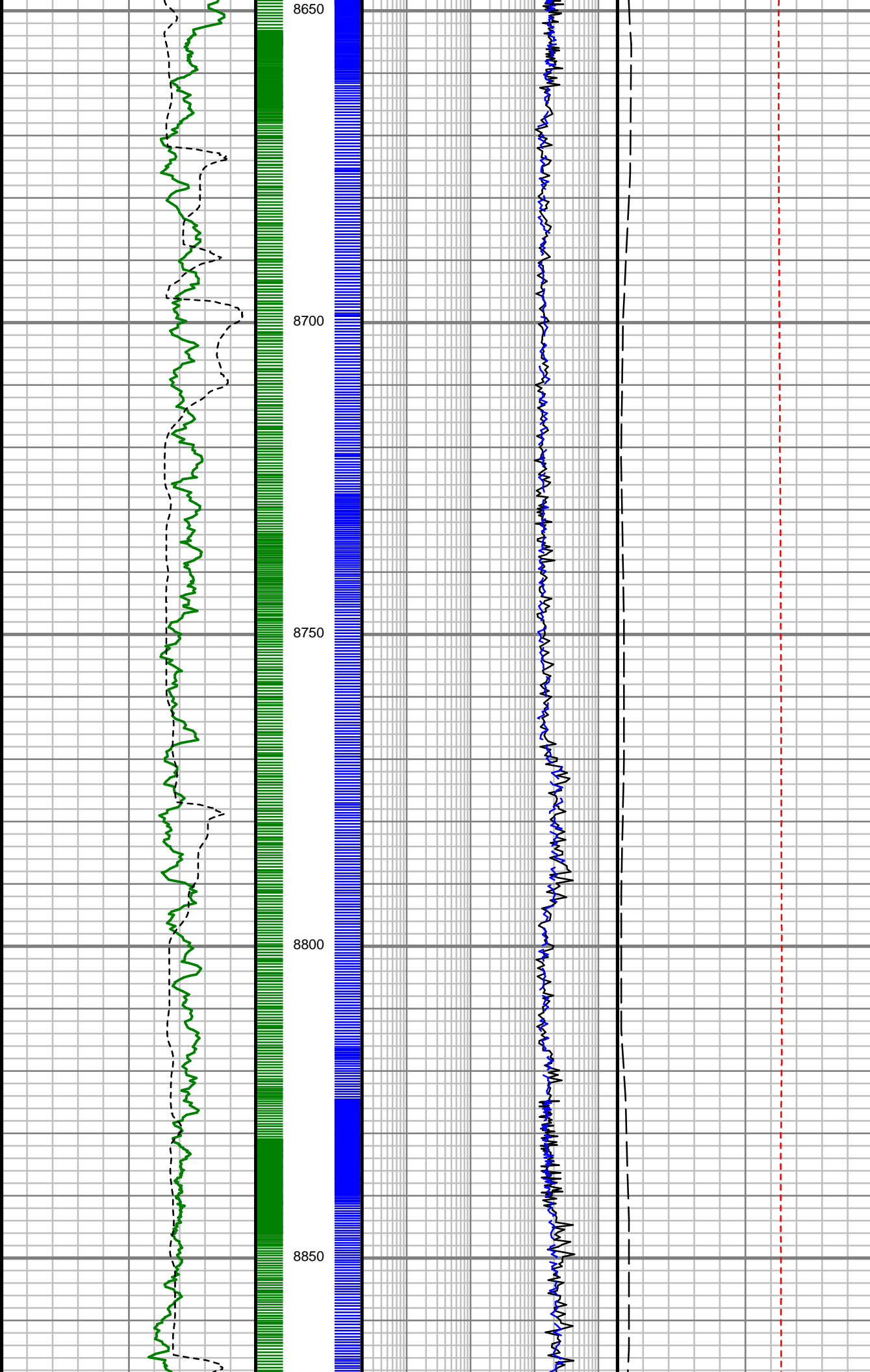
S: 95 MD: 8357.00 ft
Inc: 89.87 deg Az:
271.77 deg TVD:
7207.98 ft



S: 96 MD: 8446.00 ft
Inc: 89.90 deg Az:
271.02 deg TVD:
7208.16 ft

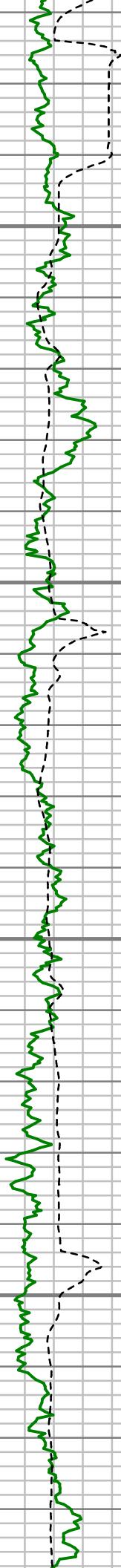
S: 97 MD: 8535.00 ft
Inc: 89.97 deg Az:
270.43 deg TVD:
7208.26 ft

S: 98 MD: 8624.00 ft
Inc: 91.04 deg Az:
270.64 deg TVD:
7207.48 ft



S: 99 MD: 8713.00 ft
Inc: 90.07 deg Az:
270.17 deg TVD:
7206.62 ft

S: 100 MD: 8802.00 ft
Inc: 90.50 deg Az:
269.97 deg TVD:
7206.18 ft

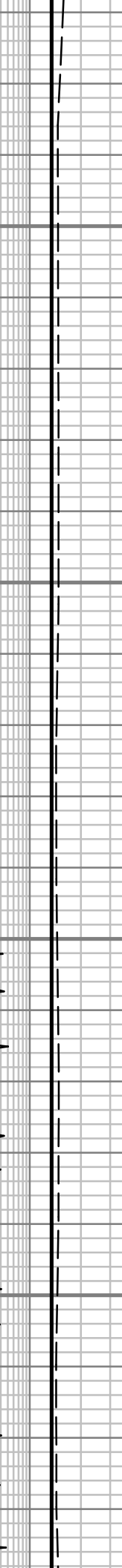
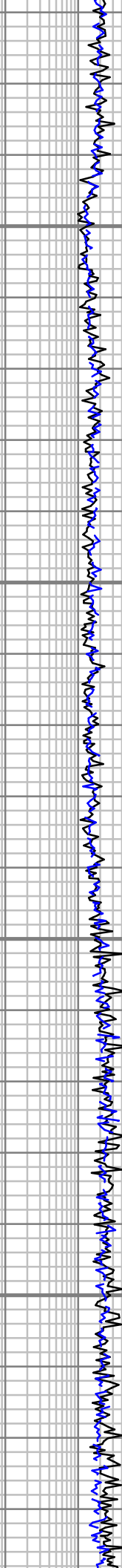
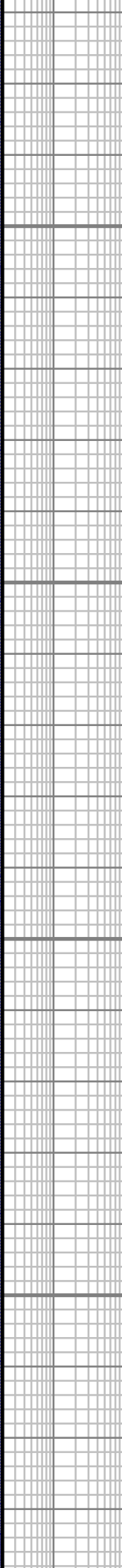
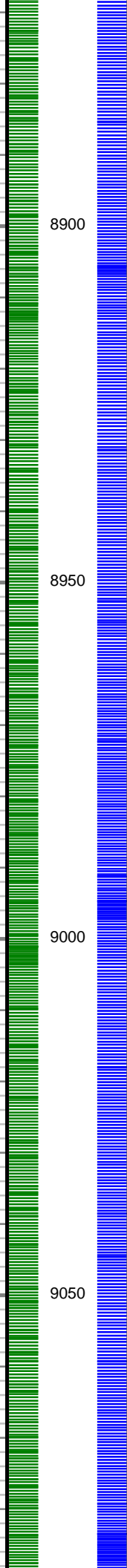


8900

8950

9000

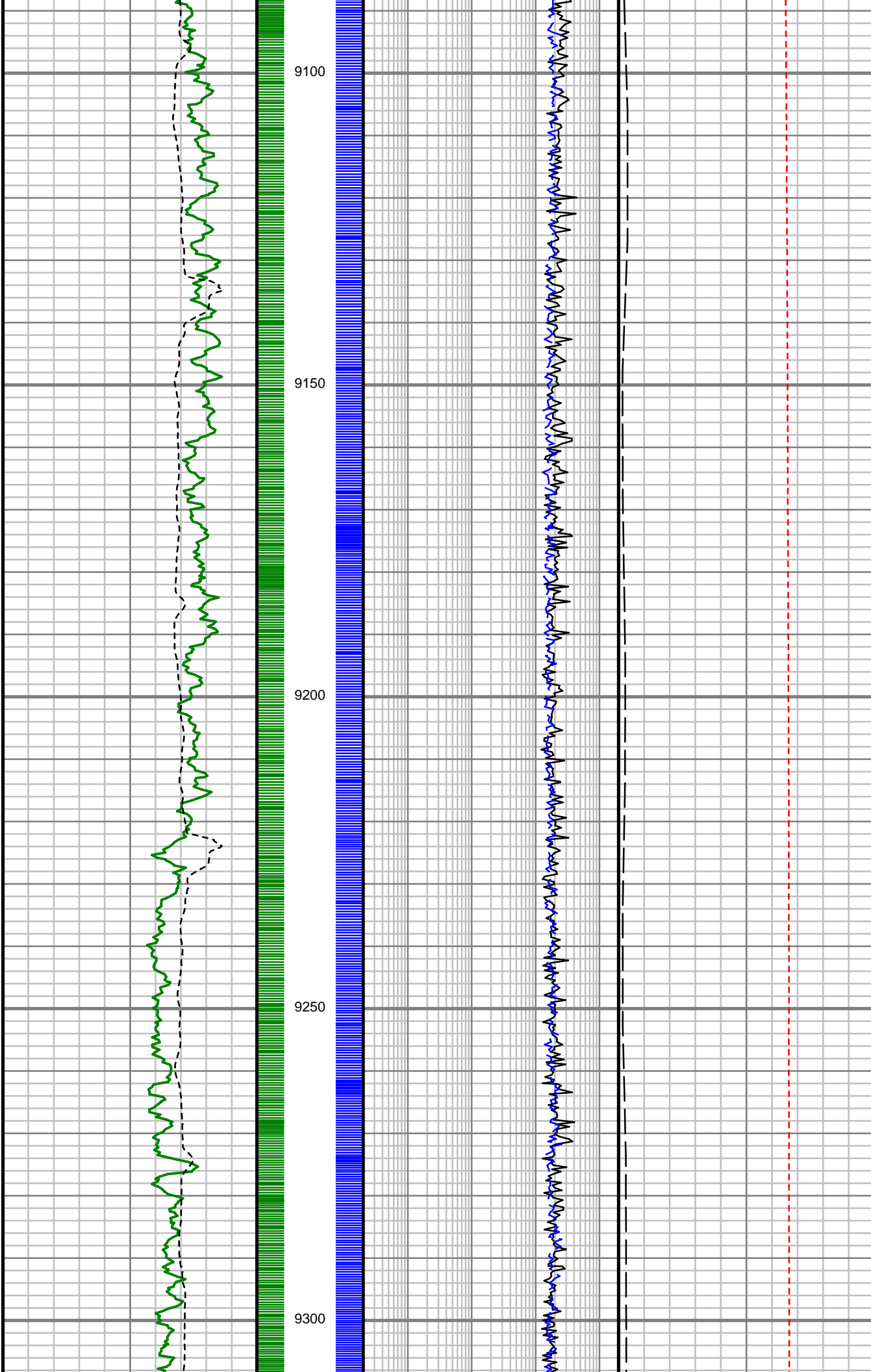
9050



S: 101 MD: 8891.00 ft
Inc: 88.96 deg Az:
269.35 deg TVD:
7206.60 ft

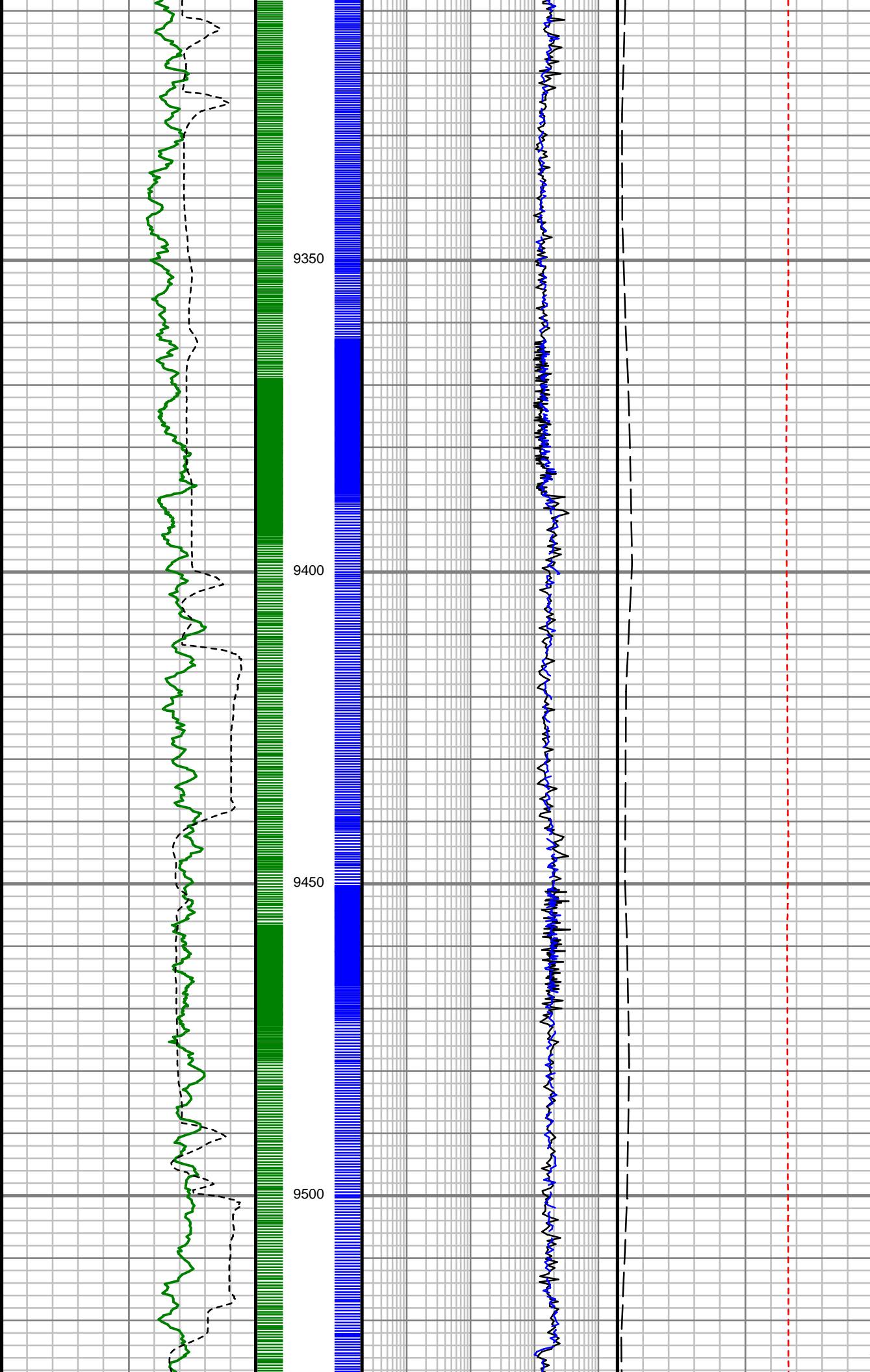
S: 102 MD: 8979.00 ft
Inc: 88.92 deg Az:
269.78 deg TVD:
7208.22 ft

S: 103 MD: 9068.00 ft
Inc: 89.50 deg Az:
269.94 deg TVD:
7209.45 ft



S: 104 MD: 9157.00 ft
Inc: 90.64 deg Az:
270.47 deg TVD:
7209.34 ft

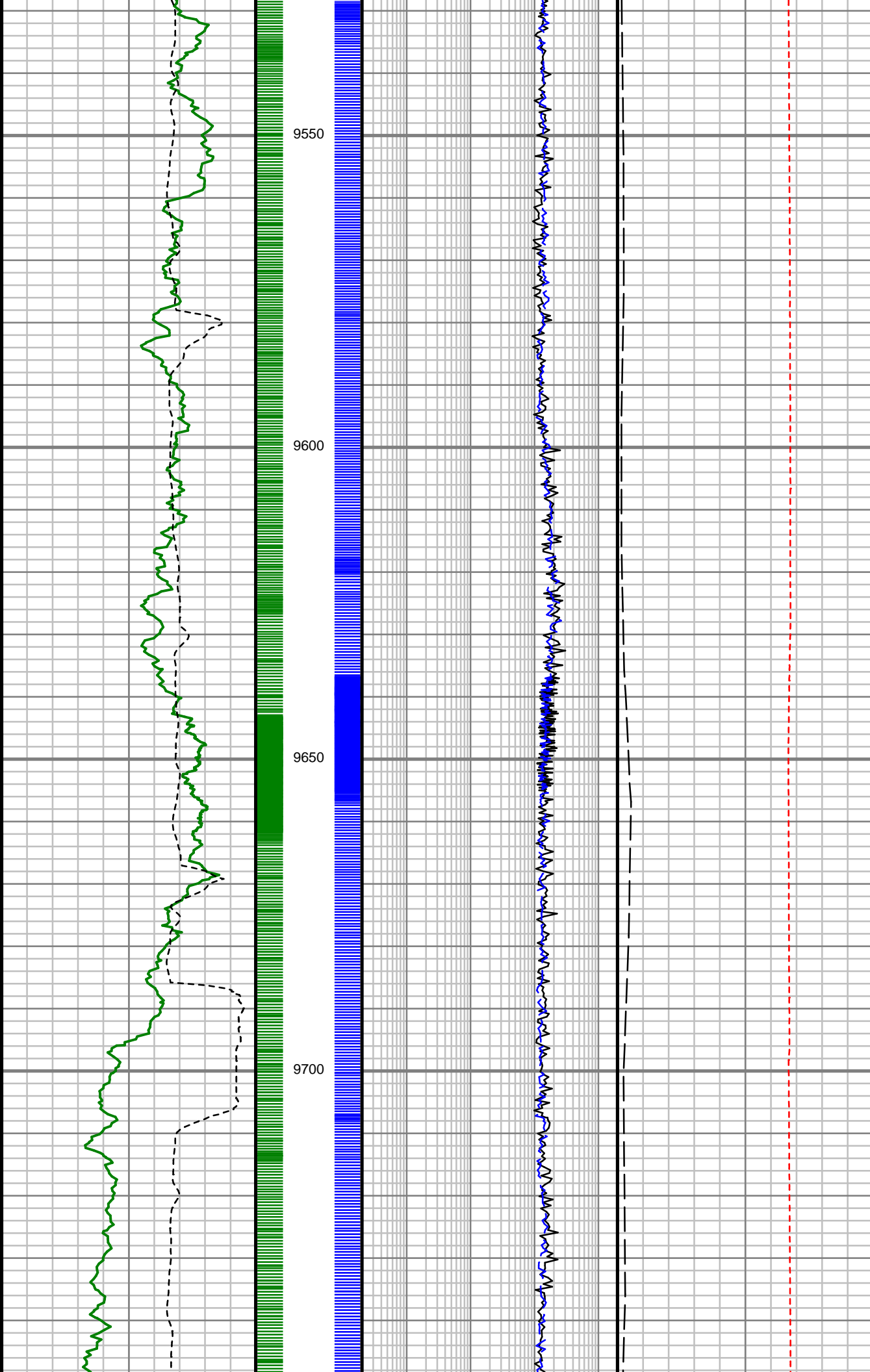
S: 105 MD: 9246.00 ft
Inc: 91.31 deg Az:
270.69 deg TVD:
7207.83 ft



S: 106 MD: 9335.00 ft
Inc: 92.19 deg Az:
271.26 deg TVD:
7205.11 ft

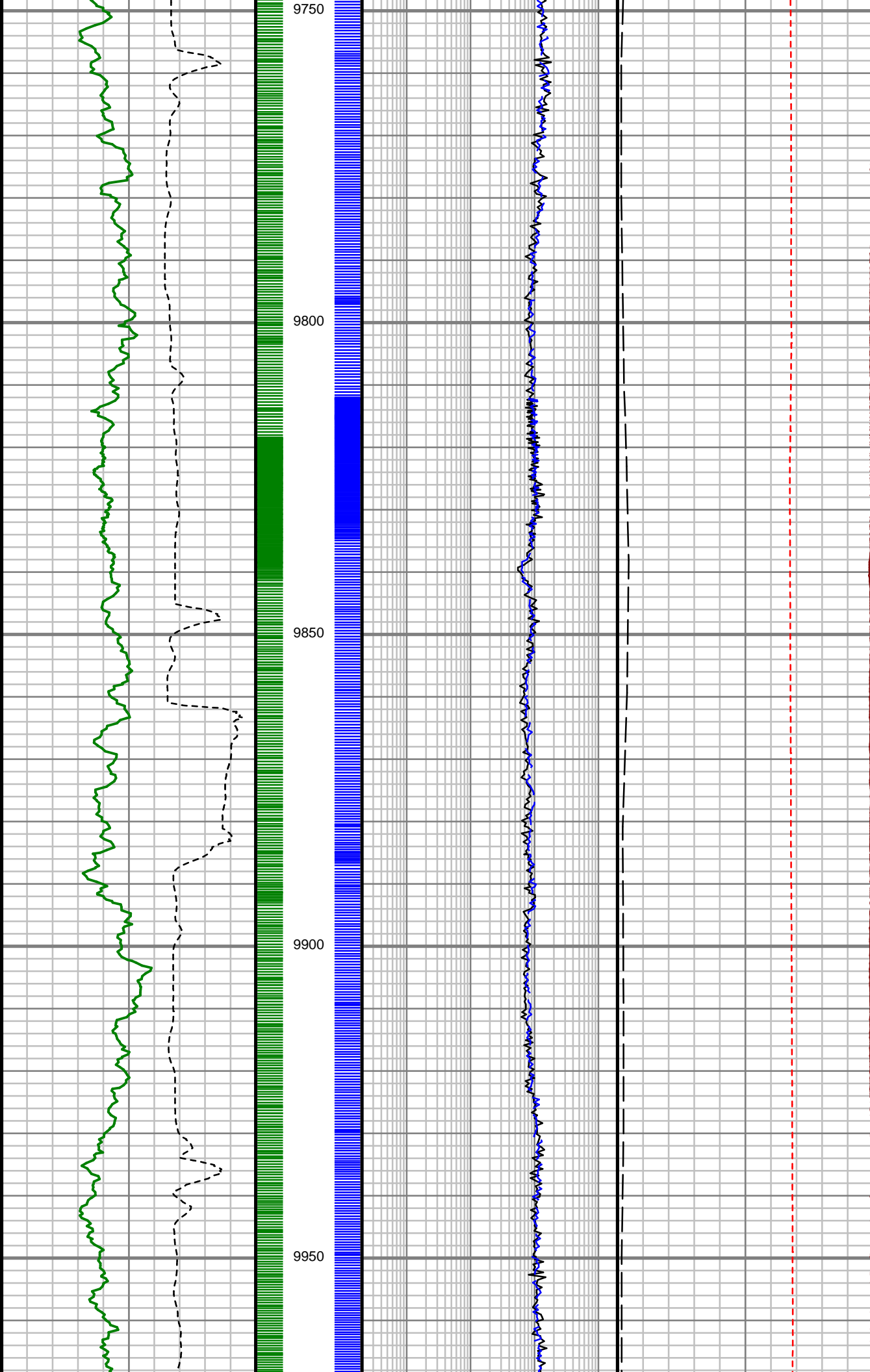
S: 107 MD: 9424.00 ft
Inc: 91.31 deg Az:
270.07 deg TVD:
7202.39 ft

S: 108 MD: 9512.00 ft
Inc: 88.42 deg Az:
270.74 deg TVD:
7202.59 ft



S: 109 MD: 9601.00 ft
Inc: 88.25 deg Az:
270.94 deg TVD:
7205.18 ft

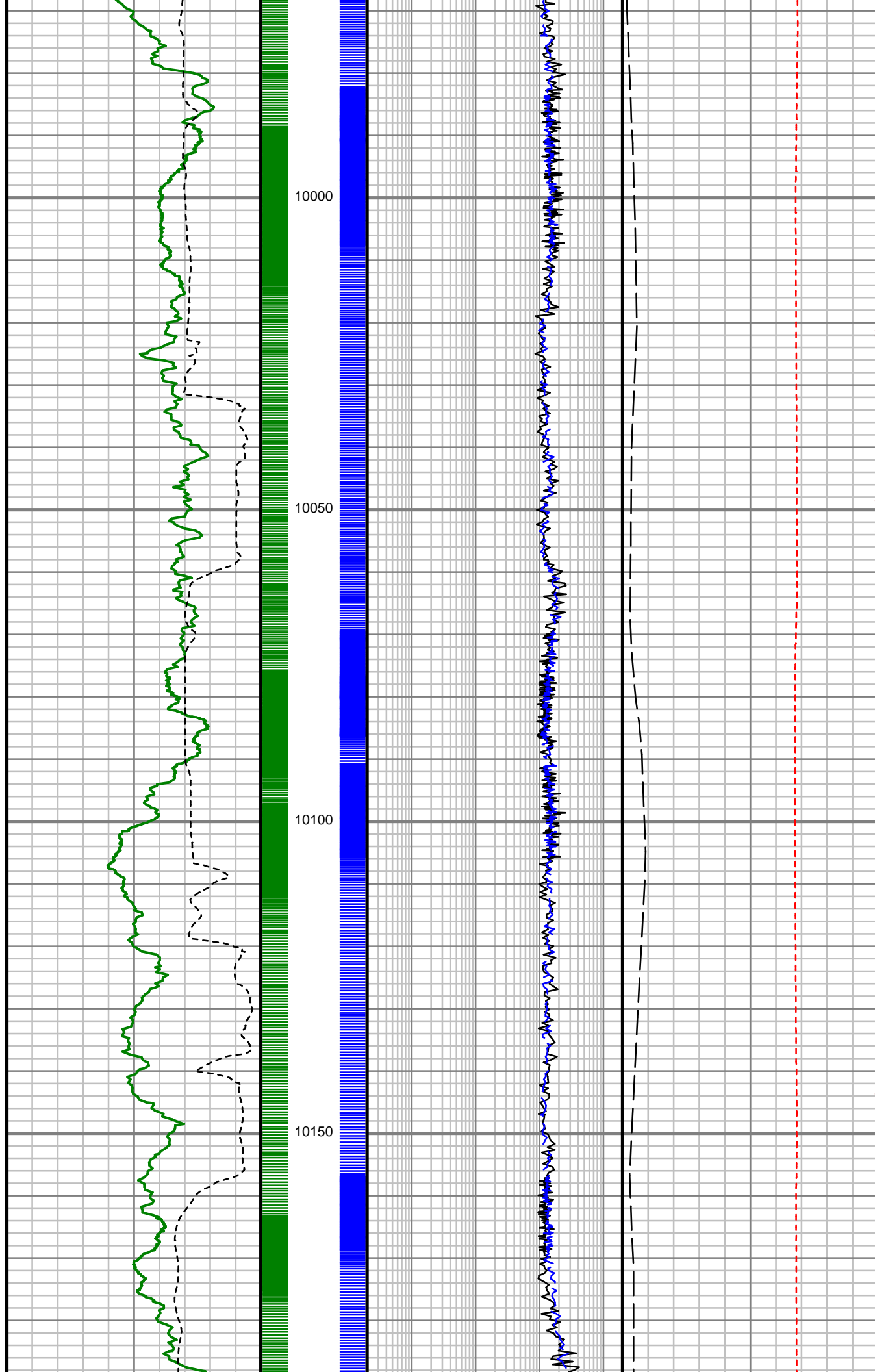
S: 110 MD: 9690.00 ft
Inc: 88.55 deg Az:
270.21 deg TVD:
7207.66 ft



S: 111 MD: 9779.00 ft
Inc: 88.82 deg Az:
269.02 deg TVD:
7209.69 ft

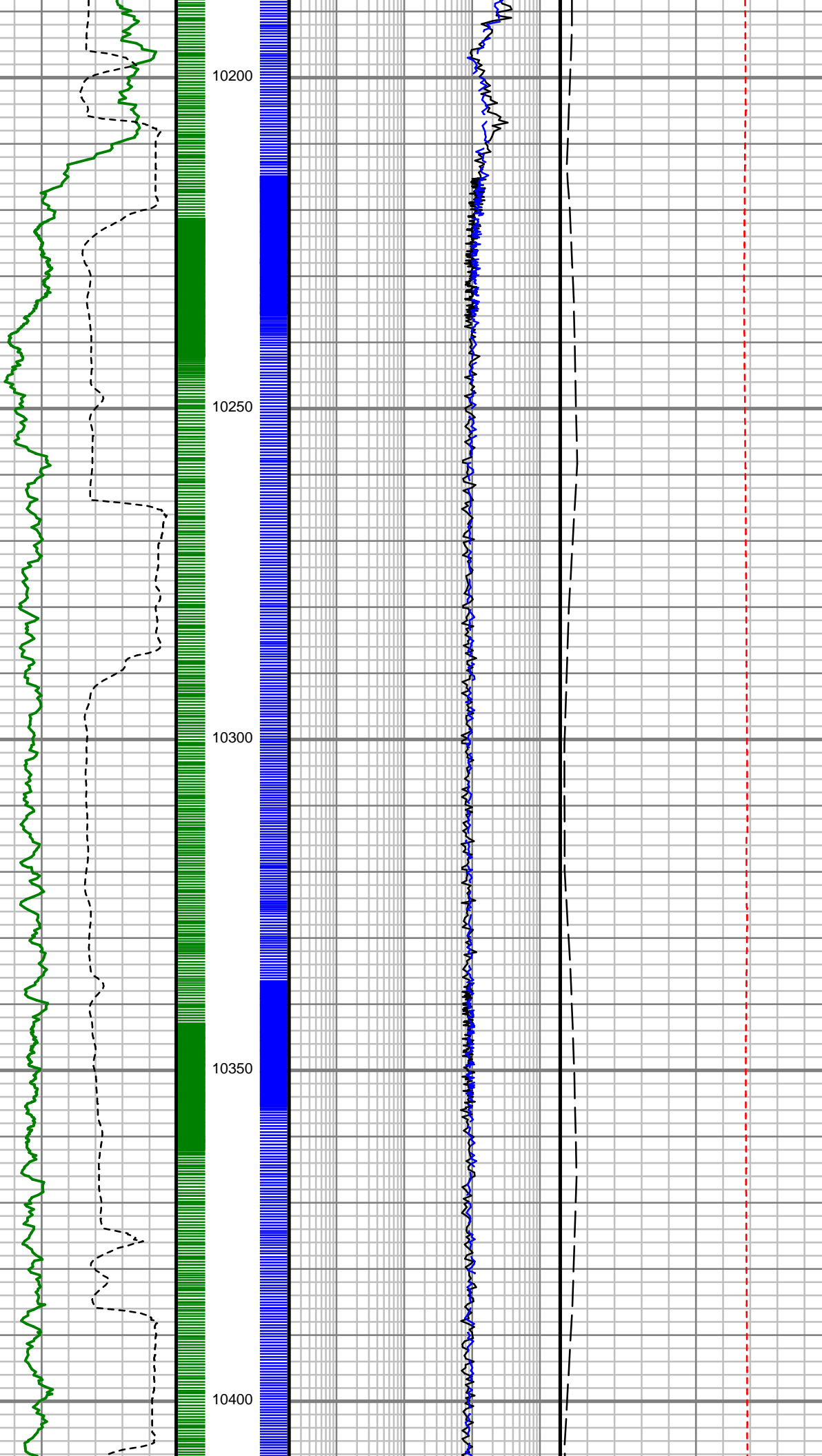
S: 112 MD: 9867.00 ft
Inc: 91.31 deg Az:
268.99 deg TVD:
7209.59 ft

S: 113 MD: 9956.00 ft
Inc: 93.56 deg Az:
268.53 deg TVD:
7205.80 ft



S: 114 MD: 10045.00 ft
Inc: 94.24 deg Az:
268.62 deg TVD:
7199.75 ft

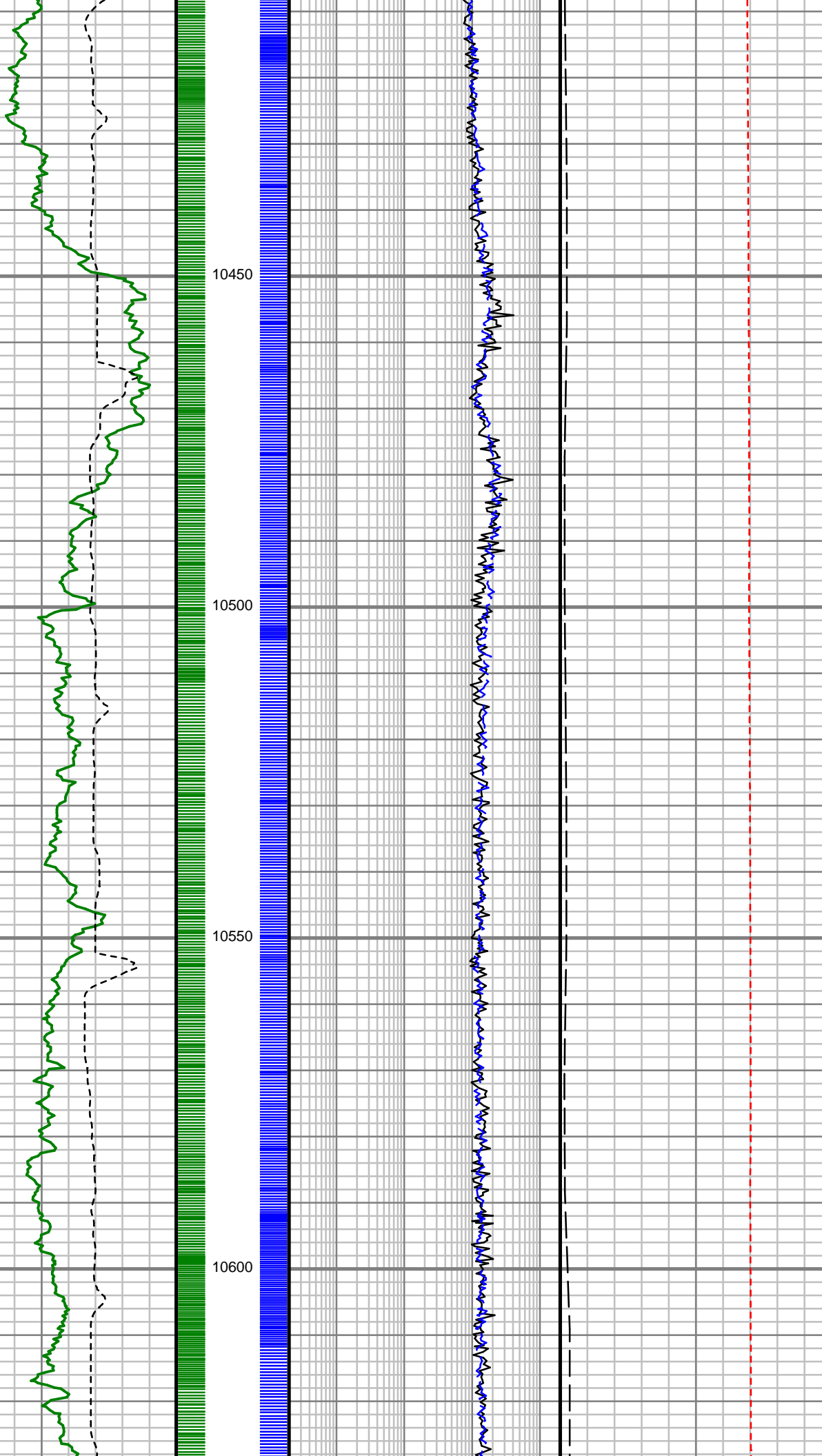
S: 115 MD: 10134.00 ft
Inc: 95.08 deg Az:
269.19 deg TVD:
7192.52 ft



S: 116 MD: 10222.00 ft
Inc: 92.09 deg Az:
268.43 deg TVD:
7187.02 ft

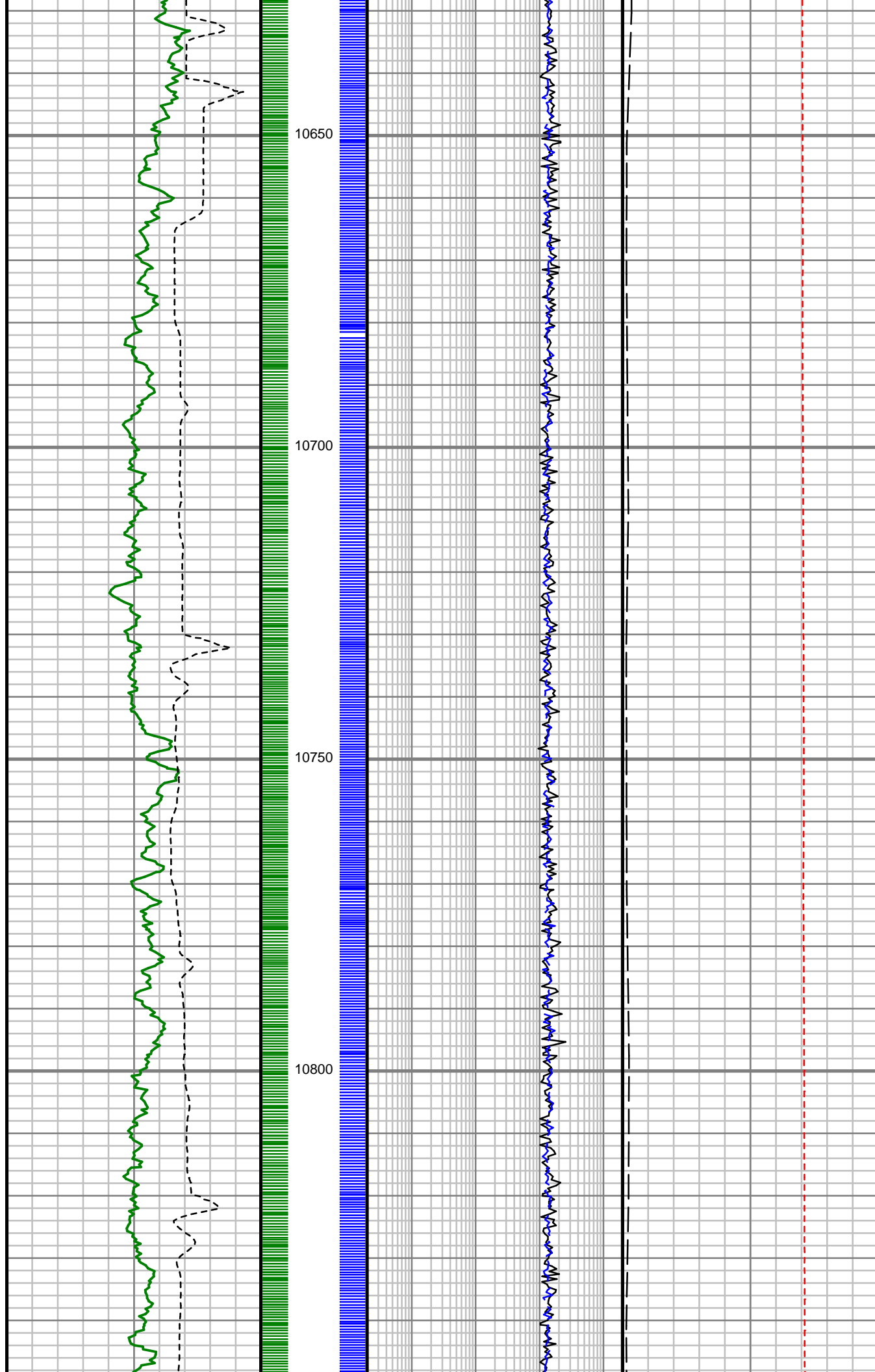
S: 117 MD: 10311.00 ft
Inc: 90.03 deg Az:
269.04 deg TVD:
7185.37 ft

S: 118 MD: 10400.00 ft
Inc: 88.55 deg Az:
269.09 deg TVD:
7180.43 ft



S: 119 MD: 10489.00 ft
Inc: 88.11 deg Az:
269.58 deg TVD:
7189.05 ft

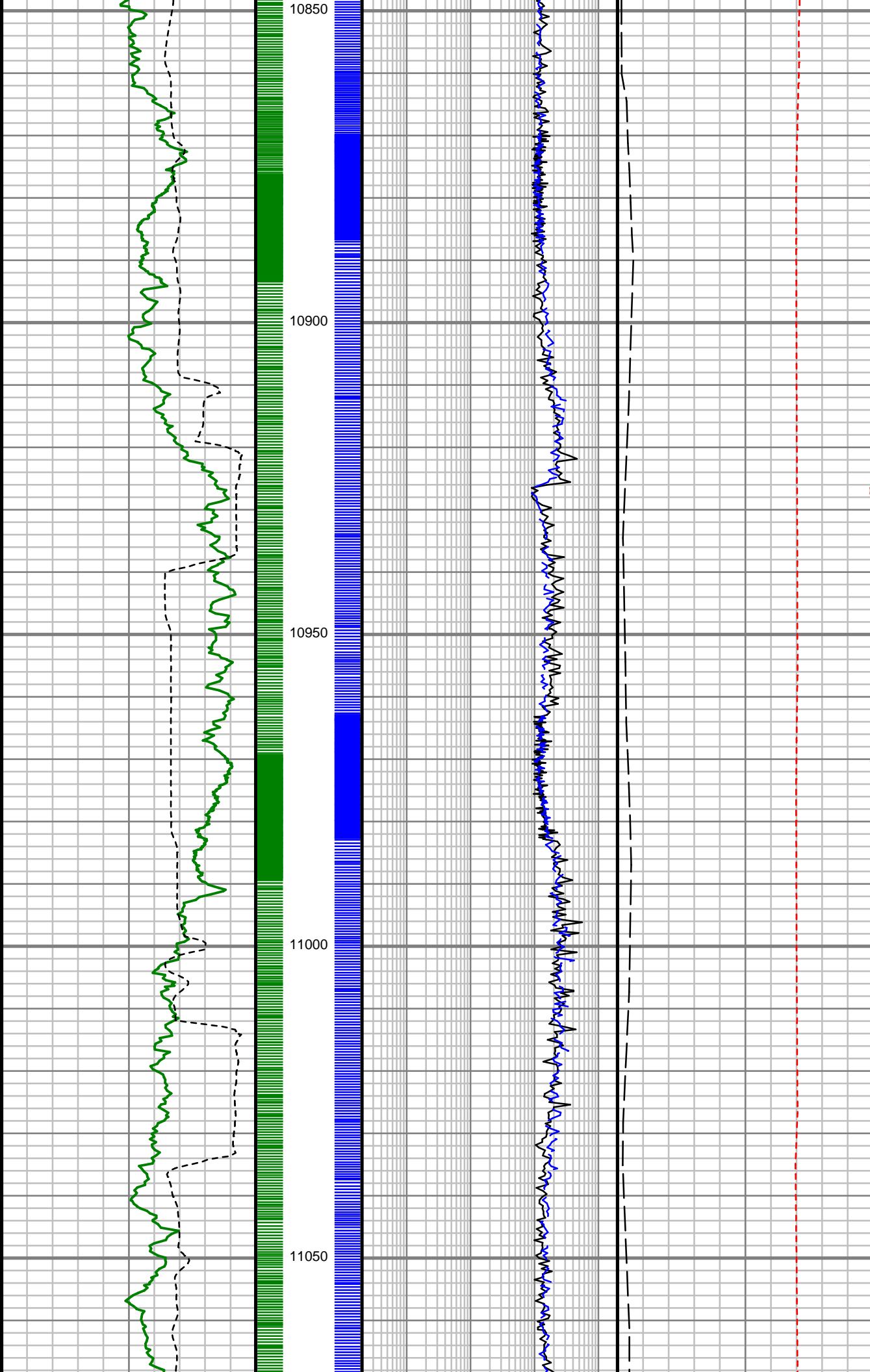
S: 120 MD: 10578.00 ft
Inc: 88.92 deg Az:
270.04 deg TVD:
7191.35 ft



S: 121 MD: 10667.00 ft
Inc: 89.80 deg Az:
269.95 deg TVD:
7192.35 ft

S: 122 MD: 10756.00 ft
Inc: 91.31 deg Az:
271.69 deg TVD:
7191.48 ft

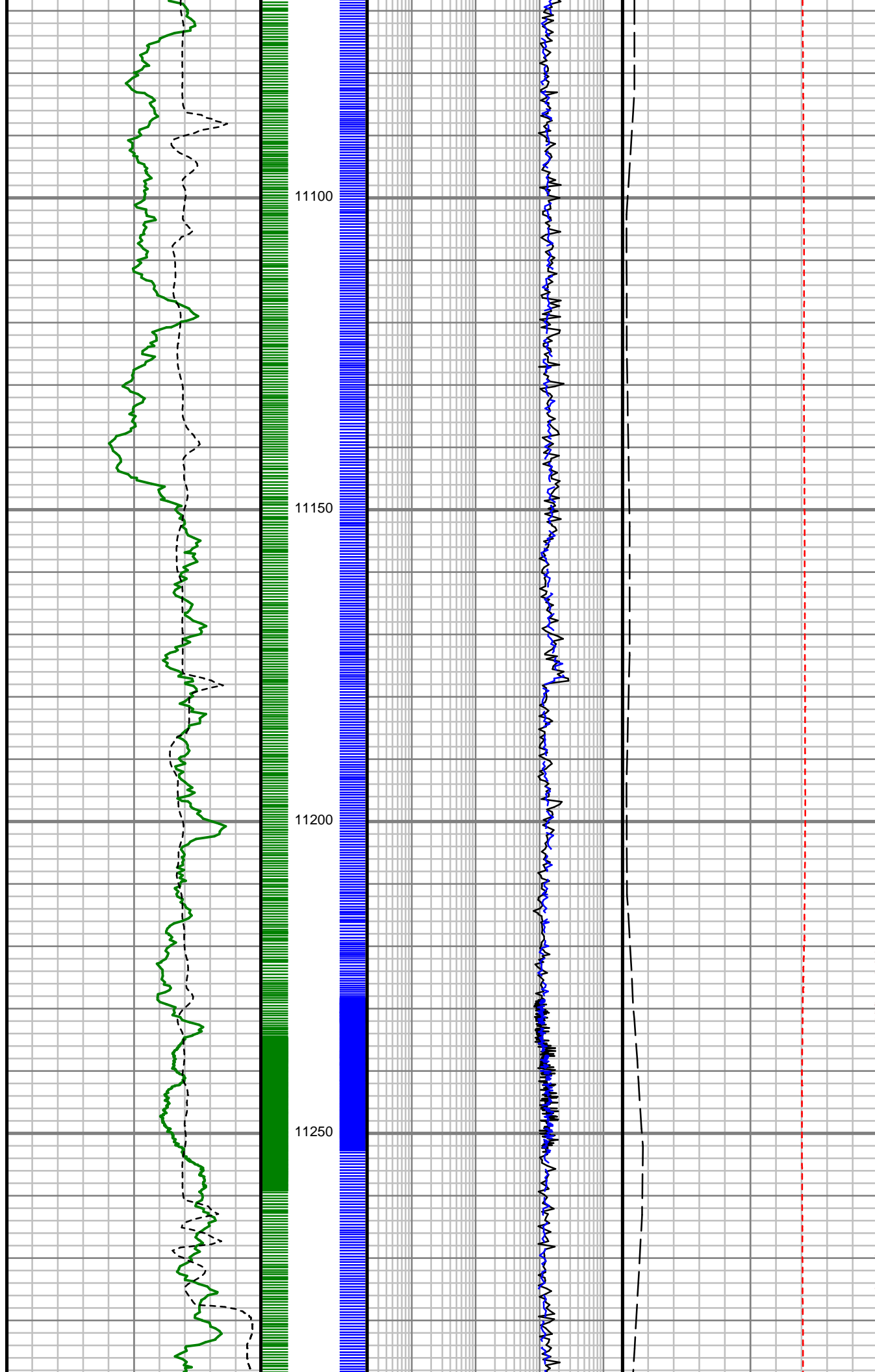
S: 123 MD: 10845.00 ft
Inc: 89.80 deg Az:
269.95 deg TVD:
7192.35 ft



Inc: 91.95 deg Az:
271.94 deg TVD:
7188.95 ft

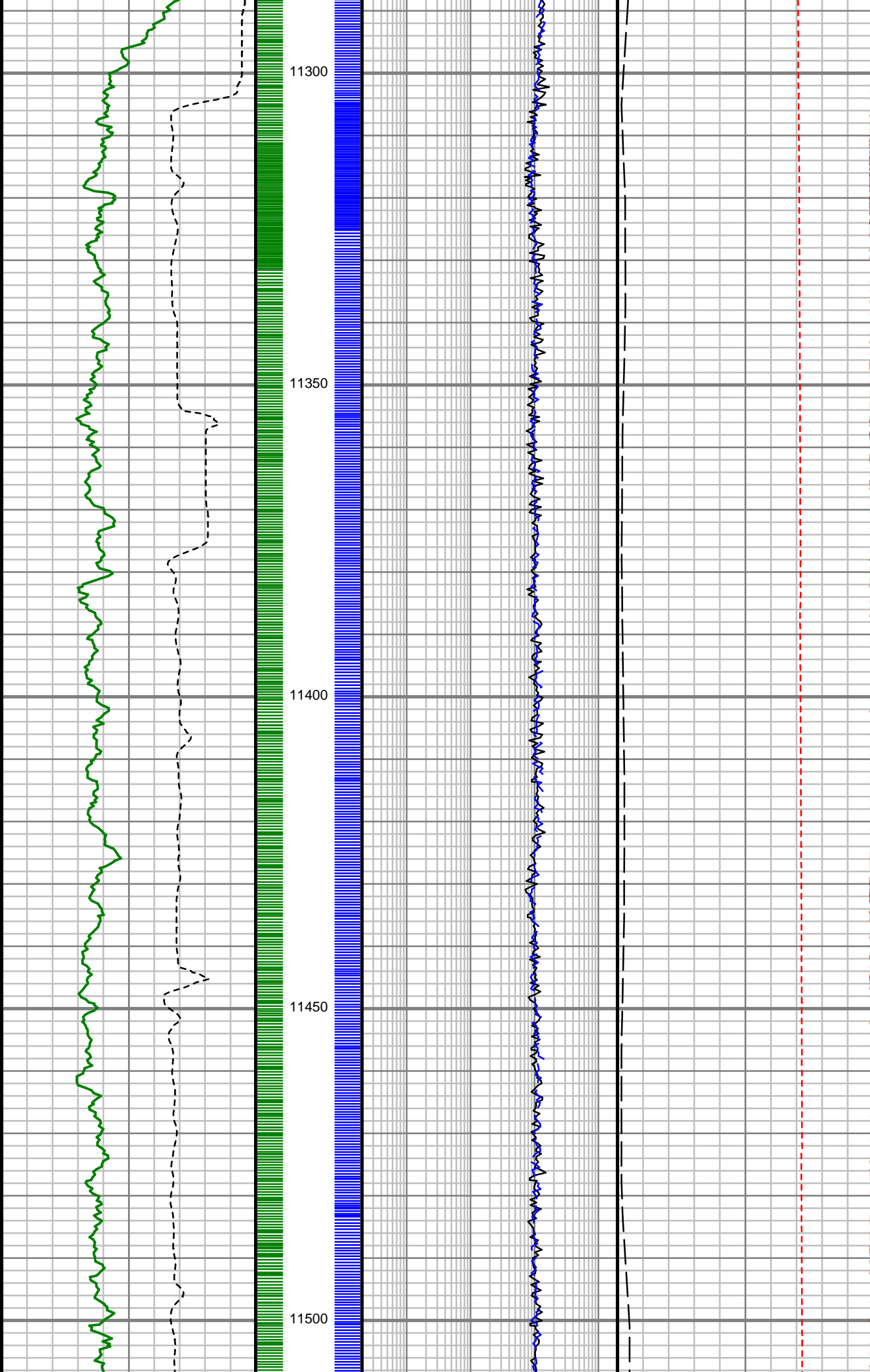
S: 124 MD: 10934.00 ft
Inc: 90.74 deg Az:
271.36 deg TVD:
7186.87 ft

S: 125 MD: 11023.00 ft
Inc: 88.59 deg Az:
270.19 deg TVD:
7187.39 ft



S: 126 MD: 11112.00 ft
Inc: 87.10 deg Az:
269.88 deg TVD:
7190.73 ft

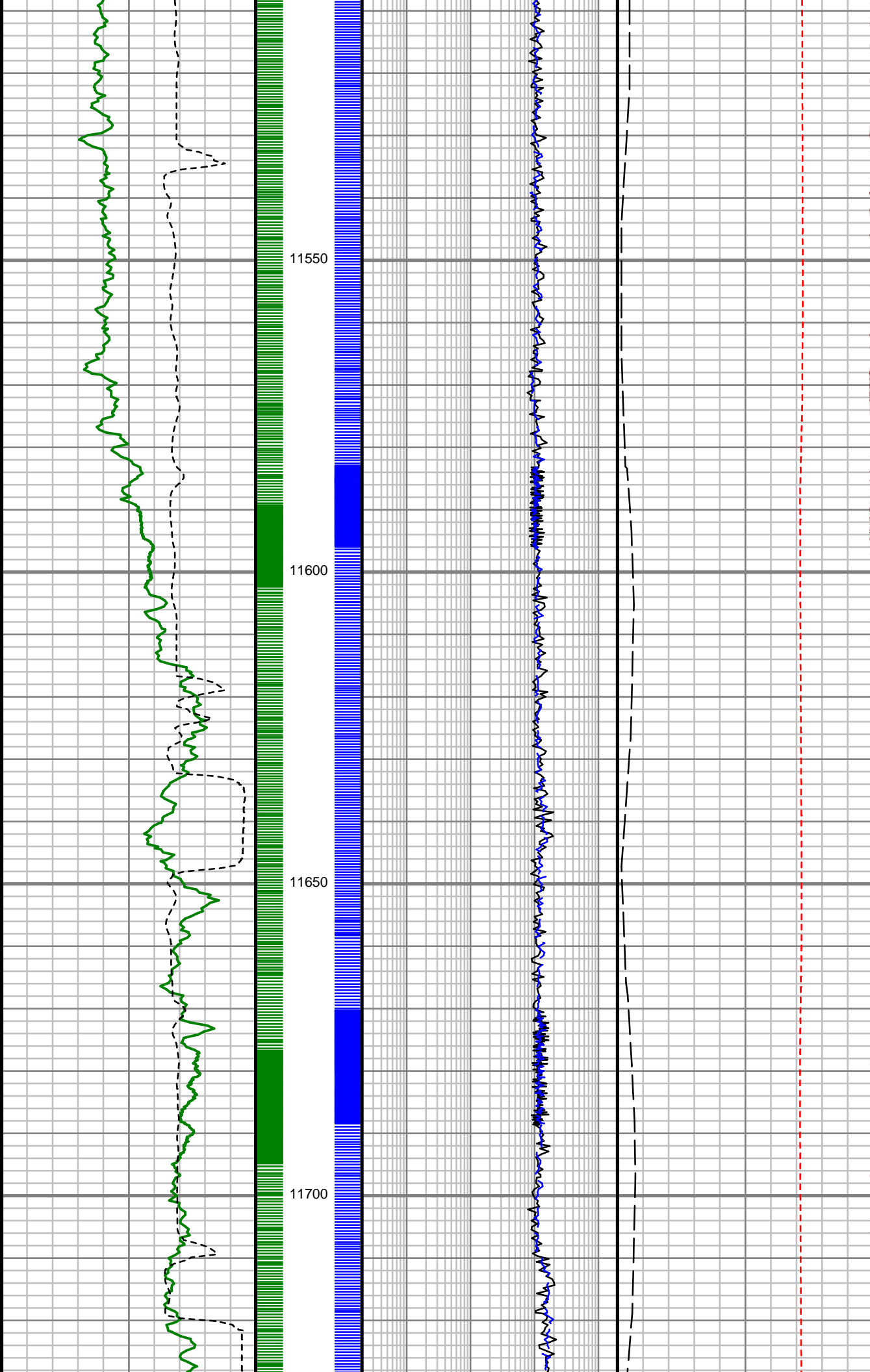
S: 127 MD: 11201.00 ft
Inc: 86.64 deg Az:
270.54 deg TVD:
7195.59 ft



S: 128 MD: 11289.00 ft
Inc: 87.91 deg Az:
269.20 deg TVD:
7199.78 ft

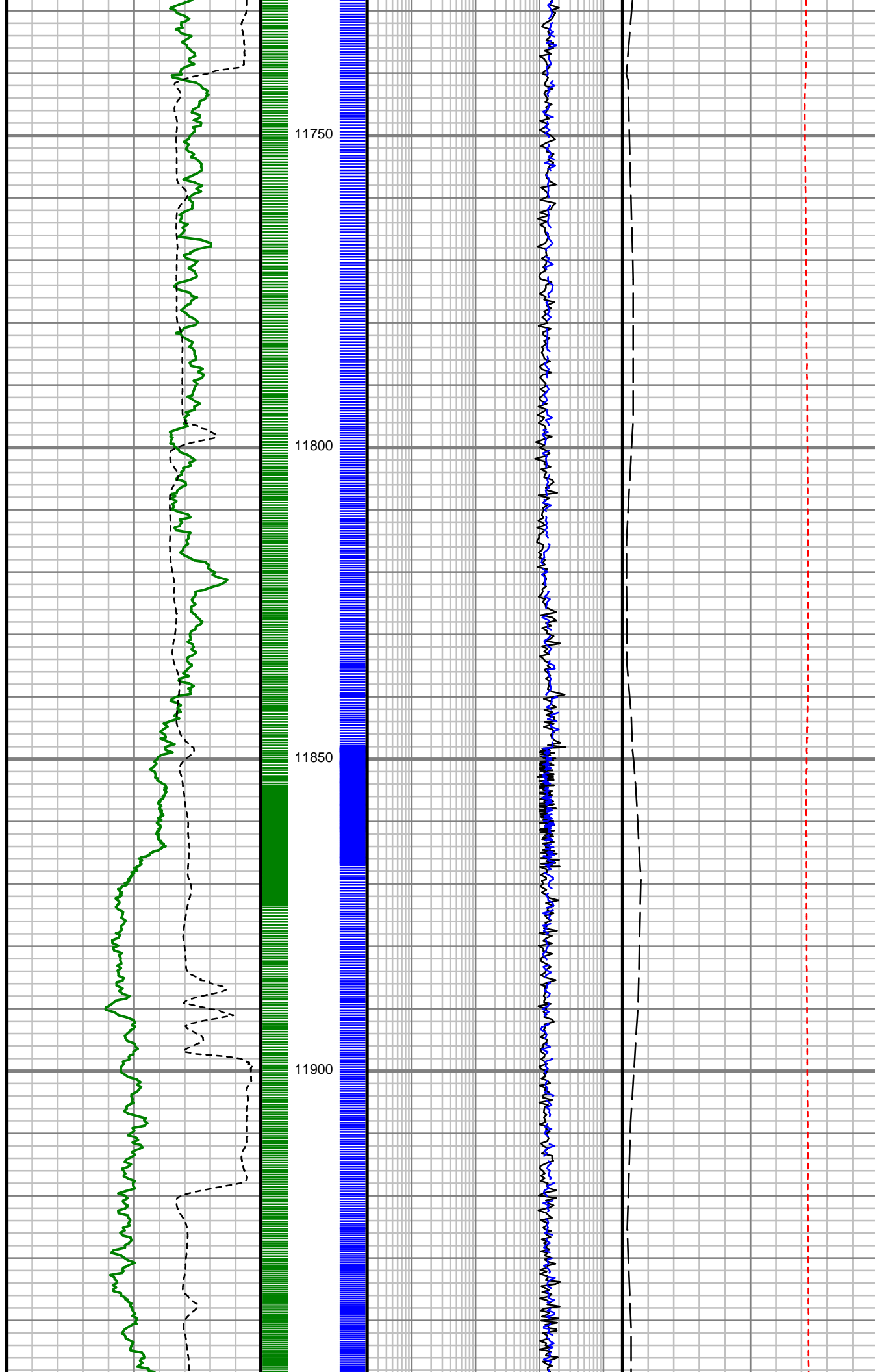
S: 129 MD: 11378.00 ft
Inc: 89.83 deg Az:
268.93 deg TVD:
7201.53 ft

S: 130 MD: 11467.00 ft
Inc: 91.18 deg Az:
269.33 deg TVD:
7200.75 ft



S: 131 MD: 11556.00 ft
Inc: 92.39 deg Az:
269.21 deg TVD:
7197.98 ft

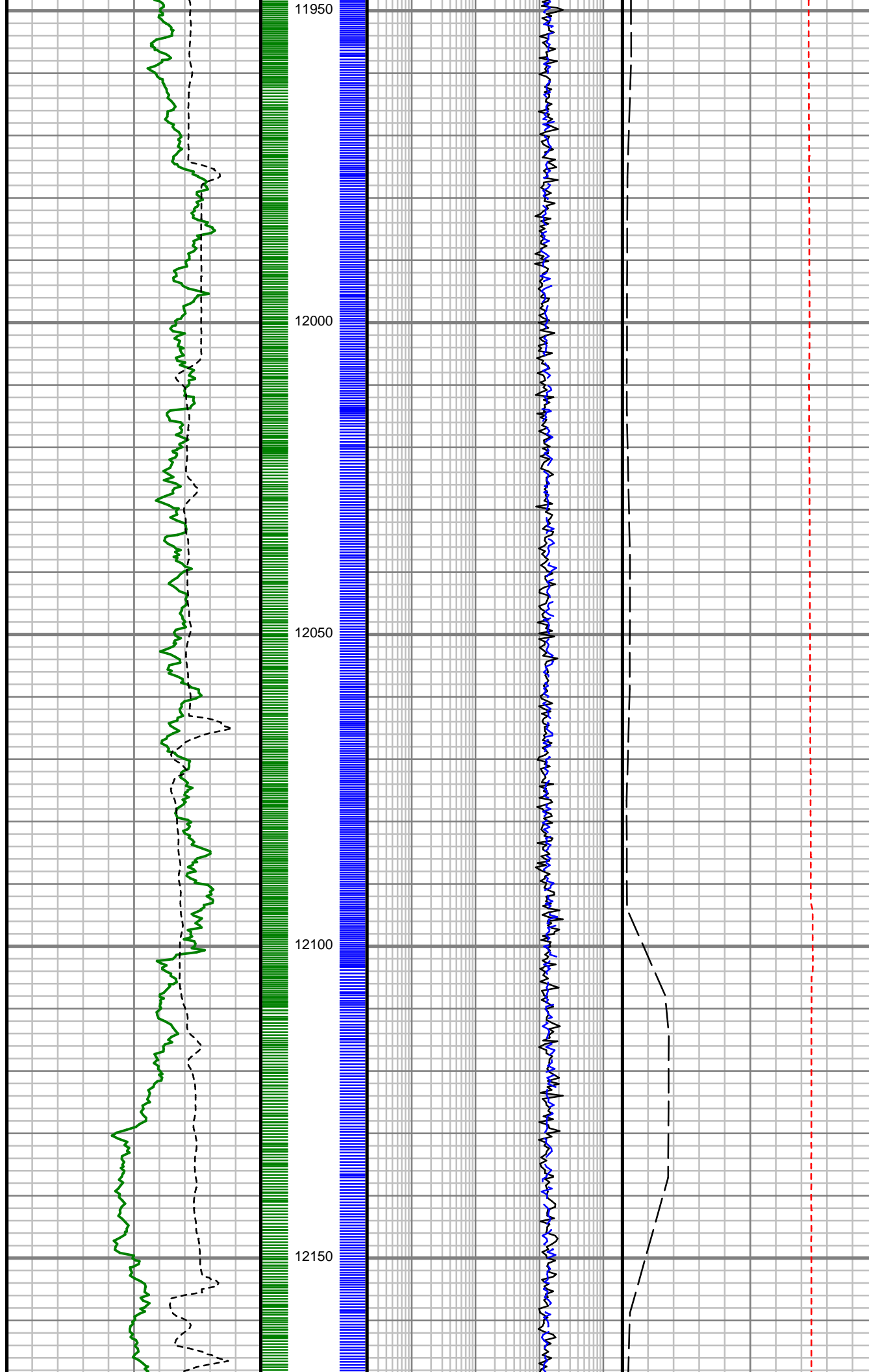
S: 132 MD: 11645.00 ft
Inc: 91.95 deg Az:
268.71 deg TVD:
7194.61 ft



S: 133 MD: 11733.00 ft
Inc: 90.30 deg Az:
269.48 deg TVD:
7192.88 ft

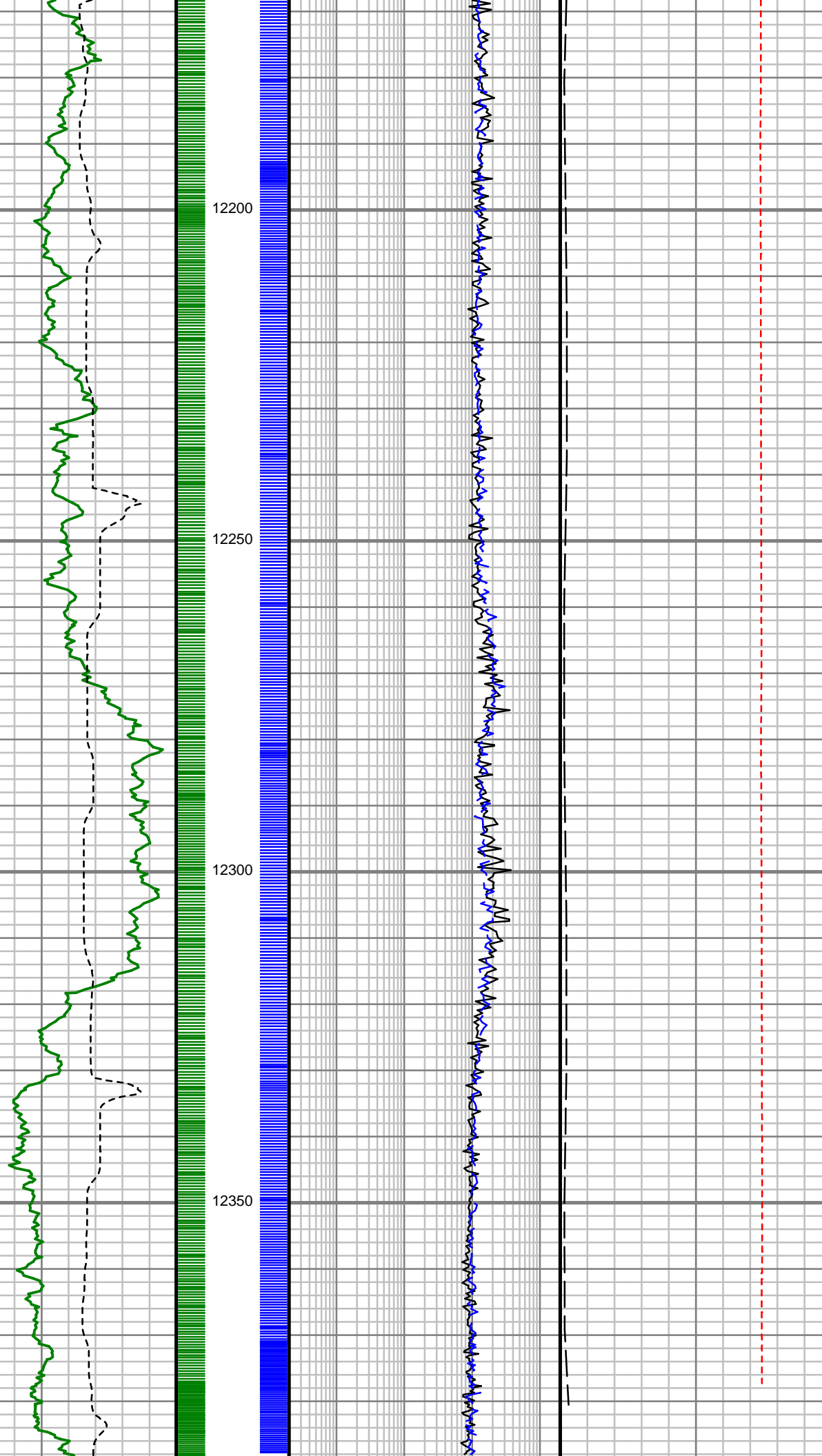
S: 134 MD: 11822.00 ft
Inc: 90.87 deg Az:
270.37 deg TVD:
7191.97 ft

S: 135 MD: 11911.00 ft
Inc: 88.99 deg Az:
270.38 deg TVD:
7192.08 ft



S: 136 MD: 12000.00 ft
Inc: 88.86 deg Az:
270.43 deg TVD:
7193.75 ft

S: 137 MD: 12089.00 ft
Inc: 90.67 deg Az:
271.77 deg TVD:
7194.11 ft

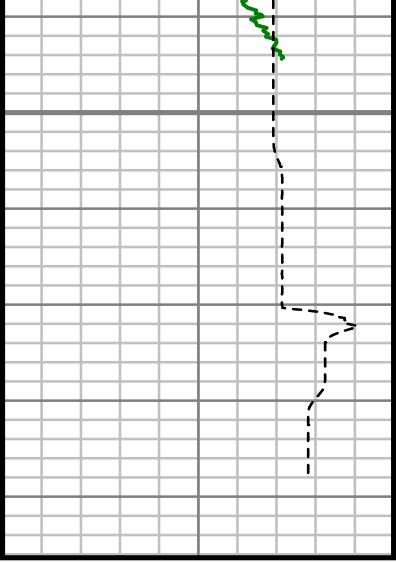


S: 138 MD: 12178.00 ft
Inc: 91.51 deg Az:
271.39 deg TVD:
7192.41 ft

S: 139 MD: 12267.00 ft
Inc: 93.15 deg Az:
272.02 deg TVD:
7188.79 ft

S: 140 MD: 12356.00 ft
Inc: 93.70 deg Az:
271.34 deg TVD:
7183.47 ft

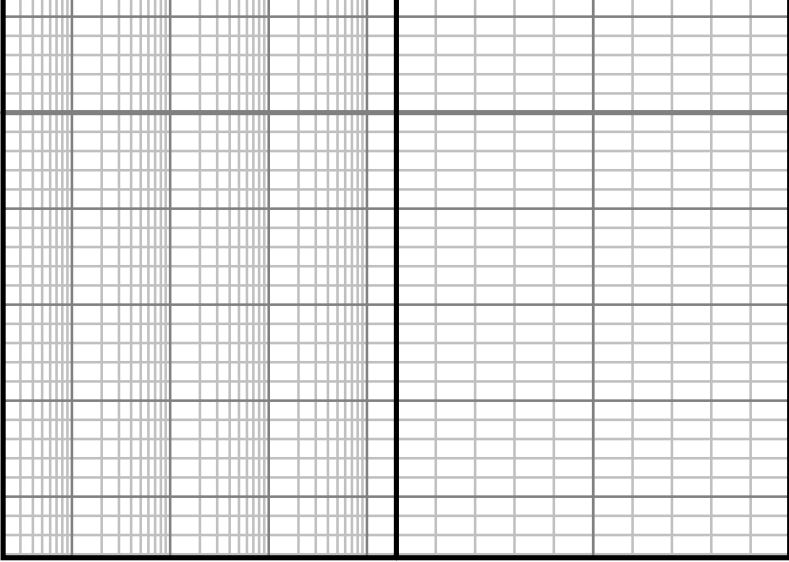
S: 141 MD: 12375.00 ft
Inc: 93.93 deg Az:
271.60 deg TVD:
7182.20 ft



12400

MEASURED DEPTH
1:240 (ft)

Rate of Penetration (ROP)		
1000	Unit = ft/hr	0
Gamma Ray (GR)		
0	Unit = aapi	150



S: 142 MD: 12438.00 ft
Inc: 93.93 deg Az:
271.60 deg TVD:
5455.88 ft

Attenuation Resistivity, 33" (AR33)		
0.2	Unit = ohmm	2000
Phase Shift Resistivity, 33" (PR33)		
0.2	Unit = ohmm	2000
Attenuation Resistivity, 23" (AR23)		
0.2	Unit = ohmm	2000
Phase Shift Resistivity, 23" (PR23)		
0.2	Unit = ohmm	2000

Phase Shift Conductivity, 33" (PC33)		
1000	Unit = mmho/m	0
Tool Temperature (T-TEMP)		
0	Unit = °F	300
FET of Resistivity (FETR)		
0	Unit = hr	10

Comments
