

5" = 100' MD

| | | | | | | | |
|---|--|--|--|--|--|--|--|
| COMPANY : BILL BARRETT CORP. WELL : ANSCHUTZ EQUUS FARMS 4-62-28-1609C FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A. UWI : 05-123-42740 | | | | COMPANY : BILL BARRETT CORP. WELL : ANSCHUTZ EQUUS FARMS 4-62-28-1609C FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A. UWI : 05-123-42740 | | | |
| DEPTH REF. : RKB REF. HEIGHT : 20.000 ft GROUND LEVEL : 4574.000 ft | | | | WELL LOCATION LAT:40°17'14.589"N LONG:104°20'14.460"W N:1349662.17 ft E:3324338.67 ft SEC:28 TWP:4N RANGE:62W | | | |
| BOREHOLE RECORD HOLE SIZE in FROM ft TO ft 12.75 0 878 8.75 878 6633 6 6633 16253 90 +/- 2 6633 16253 | | | | DEVIATION RECORD INCLINATION deg FROM ft TO ft 0 - 17 0 1887 17 - 0 1887 5724 0 - 90 5724 6633 6633 16253 | | | |
| CASING RECORD CASING SIZE in FROM ft TO ft 9.625 0 878 7 0 6613 | | | | OTHER SERVICES NAD83 DIRECTIONAL ROP | | | |
| DRILLING CO. : SAVANNA RIG : 802 LMD UNIT NO. : KIT MUD PUDISTRICT : CASPER, CASPER SPUD DATE : 01/11/2018 LMD START DATE : 01/29/2018 LMD END DATE : 02/04/2018 DEPTH : 878 ft DEPTH : 16253 ft TOTAL DEPTH : 16253 ft | | | | | | | |

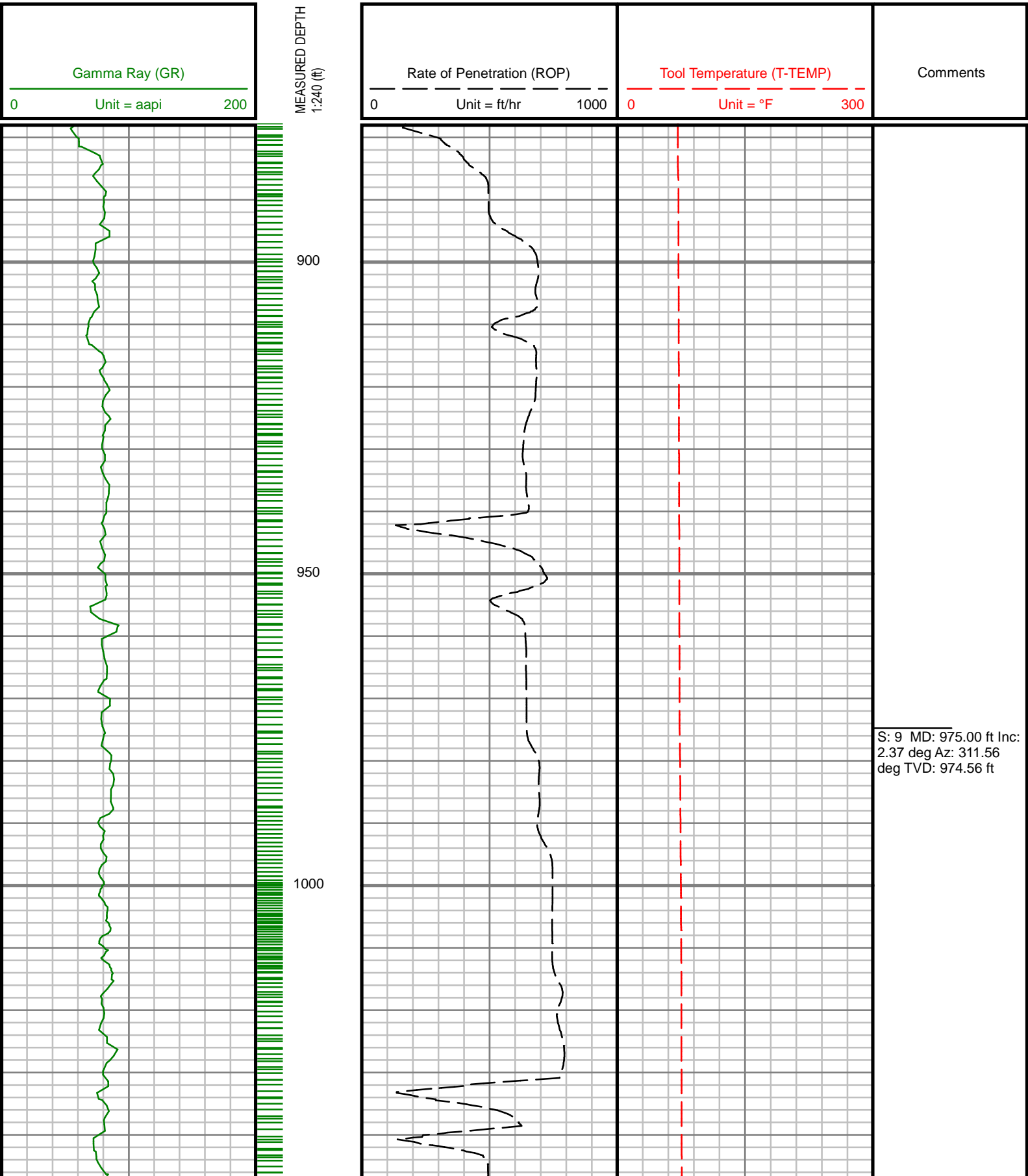
| Run Data | | | | | | |
|-----------------------|-------------|-------------|-------------|--|--|--|
| RUN NUMBER | 1 | 2 | 3 | | | |
| START DATE | 01/12/2018 | 01/29/2018 | 01/31/2018 | | | |
| START TIME | 17:30 | 09:40 | 09:40 | | | |
| END DATE | 01/13/2018 | 01/30/2018 | 02/04/2018 | | | |
| END TIME | 03:30 | 14:45 | 00:20 | | | |
| DEPTH IN (ft) | 80 | 878 | 6633 | | | |
| DEPTH OUT (ft) | 878 | 6633 | 16253 | | | |
| LOG TOP (ft) | - | 878 | 6581 | | | |
| LOG BOTTOM (ft) | - | 6581 | 16201 | | | |
| HOLE SIZE (in) | 12.75 | 8.75 | 6 | | | |
| MUD DATA @ (ft) | - | 878 | 9953 | | | |
| MUD TYPE | WATER BASED | WATER BASED | WATER BASED | | | |
| DENSITY (lb / gal) | - | 8.9 | 8.85 | | | |
| VISCOSITY (s / qt) | - | 30 | 28 | | | |
| pH | - | 8.7 | 11.5 | | | |
| FLUID LOSS (cm3 / 30) | - | - | - | | | |
| SALINITY (mg/L) | - | 150 | 850 | | | |
| Rm (ohmm @ deg F) | - | - | - | | | |
| Rmf (ohmm @ deg F) | - | - | - | | | |
| MAX TEMP (deg F) | 87 | 168 | 270 | | | |
| Rm @ MAX TEMP (ohmm) | - | - | - | | | |
| LWD ENGINEER #1 | J. MILBURN | J. MILBURN | J. MILBURN | | | |
| LWD ENGINEER #2 | A. CARTER | A. CARTER | A. CARTER | | | |
| LWD ENGINEER #3 | - | - | - | | | |
| LOG WTINNESS #1 | K. MOORE | K. MOORE | K. MOORE | | | |
| LOG WTINNESS #2 | - | - | - | | | |

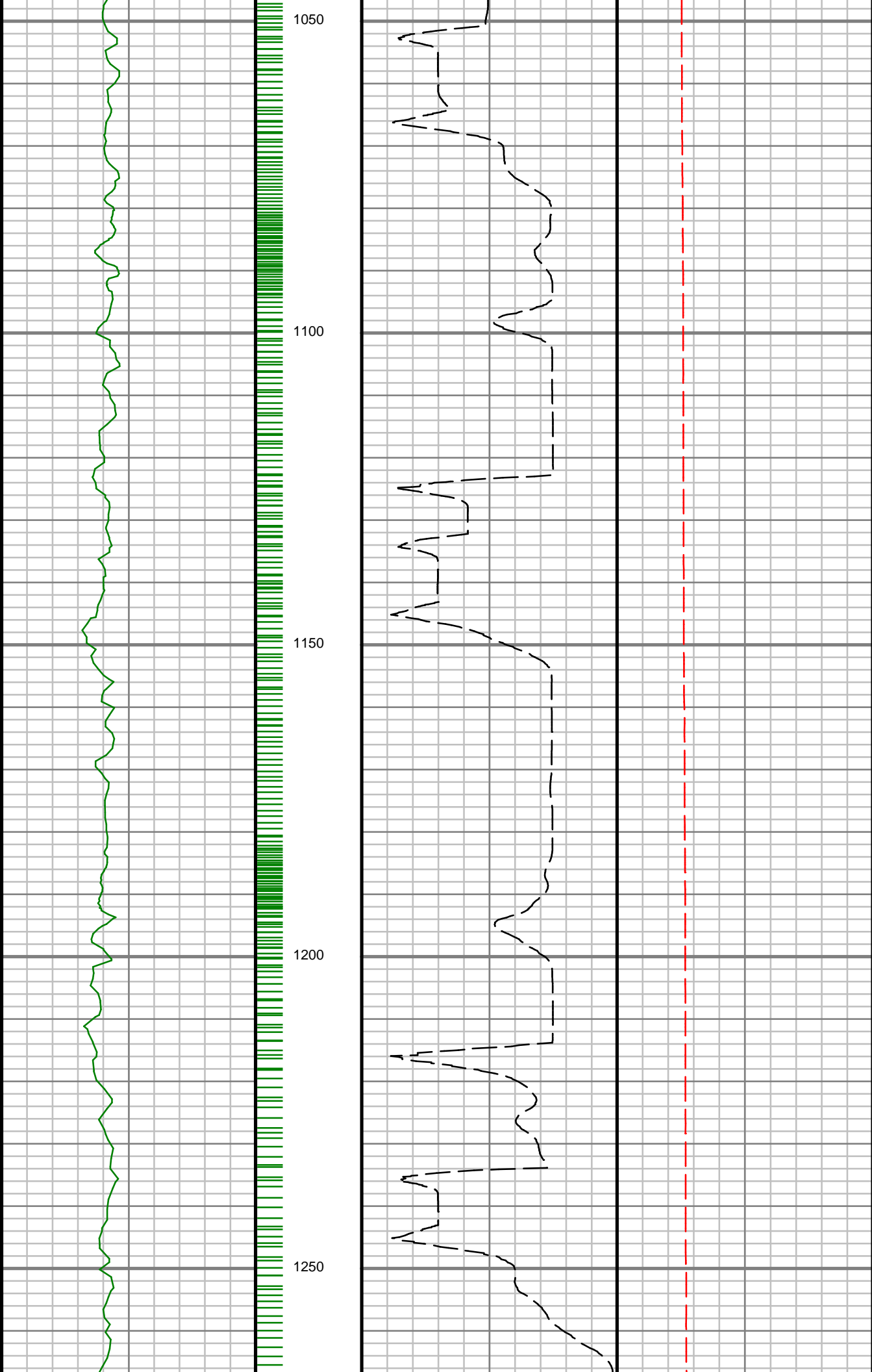
| Remarks |
|--|
| BILL BARRETT CORP. AFE# 19955D |
| SCIENTIFIC DRILLING INTERNATIONAL JOB# OP.007317, OP.007669 |
| |
| ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH. |
| ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE. |
| |
| FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE |
| FLAT 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 / DIRECTIONAL RUN |
| SENSORS S/N: PULSER = 128-332 / CONT = 414 / MWD EYE = 1669 |
| BIT TO SENSOR OFFSET: SURVEY = 63.76 FT. |
| |
| RUN #2: MWD / GAMMA RAY LOGGING RUN |
| SENSORS S/N: PULSER = 128-172 / CONT = 414 / MWD EYE = 1669 / GAMMA RAY = 1176 |
| BIT TO SENSOR OFFSET: SURVEY = 55.75 FT. / GAMMA RAY = 51.75 FT. |
| |
| RUN #3: MWD / GAMMA RAY LOGGING RUN |
| SENSORS S/N: PULSER = 78-207 / CONT = 124 / MWD EYE = 1682 / GAMMA RAY = 1461 |
| BIT TO SENSOR OFFSET: SURVEY = 55.74 FT. / GAMMA RAY = 51.74 FT. |
| |
| |
| MNEMONICS LIST: |
| GR = GAMMA RAY |
| ROP = RATE OF PENETRATION |

[illegible]

All interpretations are opinions based on 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 4-62-28-1609C
WATTENBERG FIELD
WELD COUNTY, COLORADO
05-123-42740

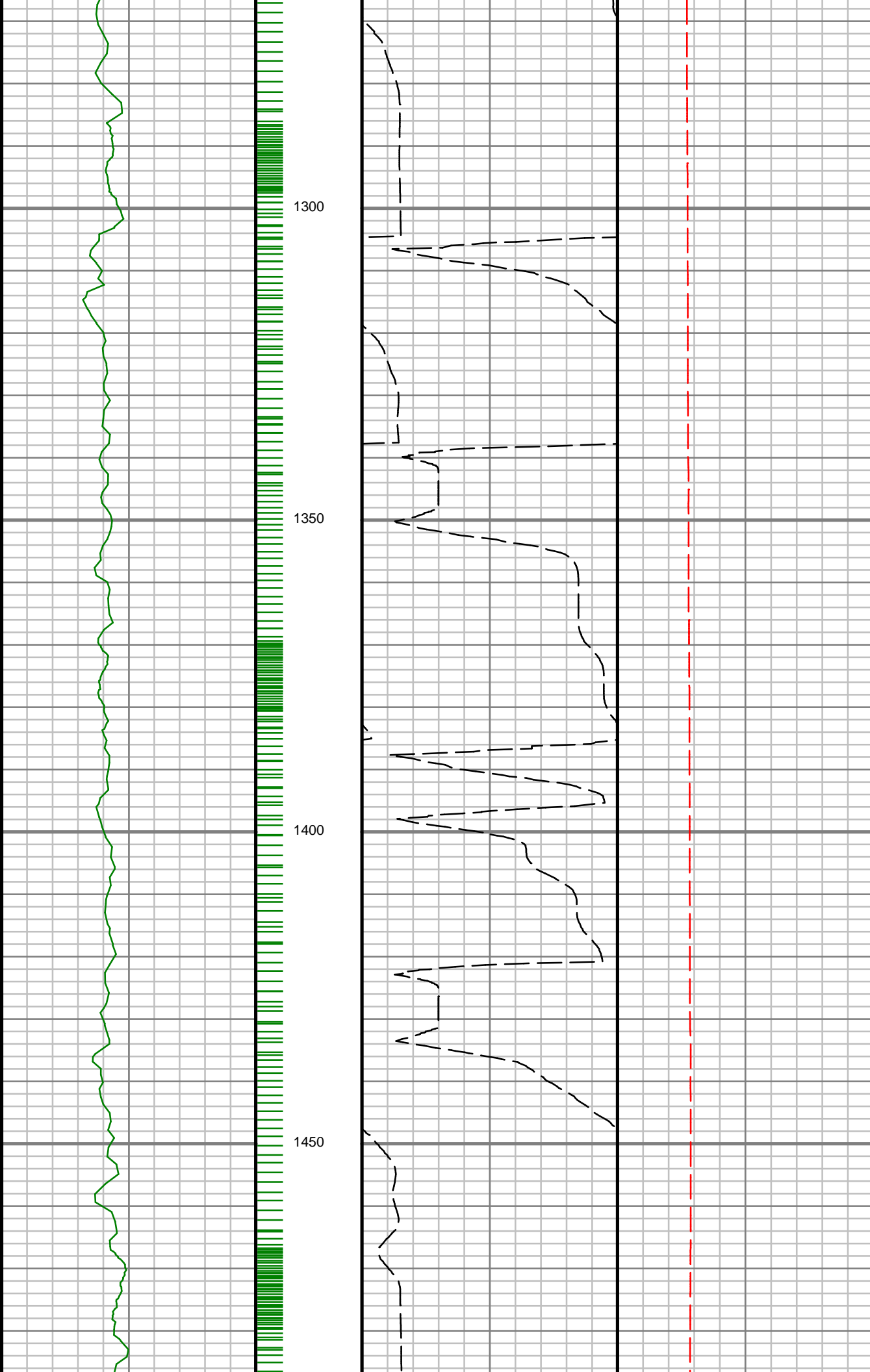




S: 10 MD: 1066.00 ft
Inc: 4.65 deg Az:
281.73 deg TVD:
1065.39 ft

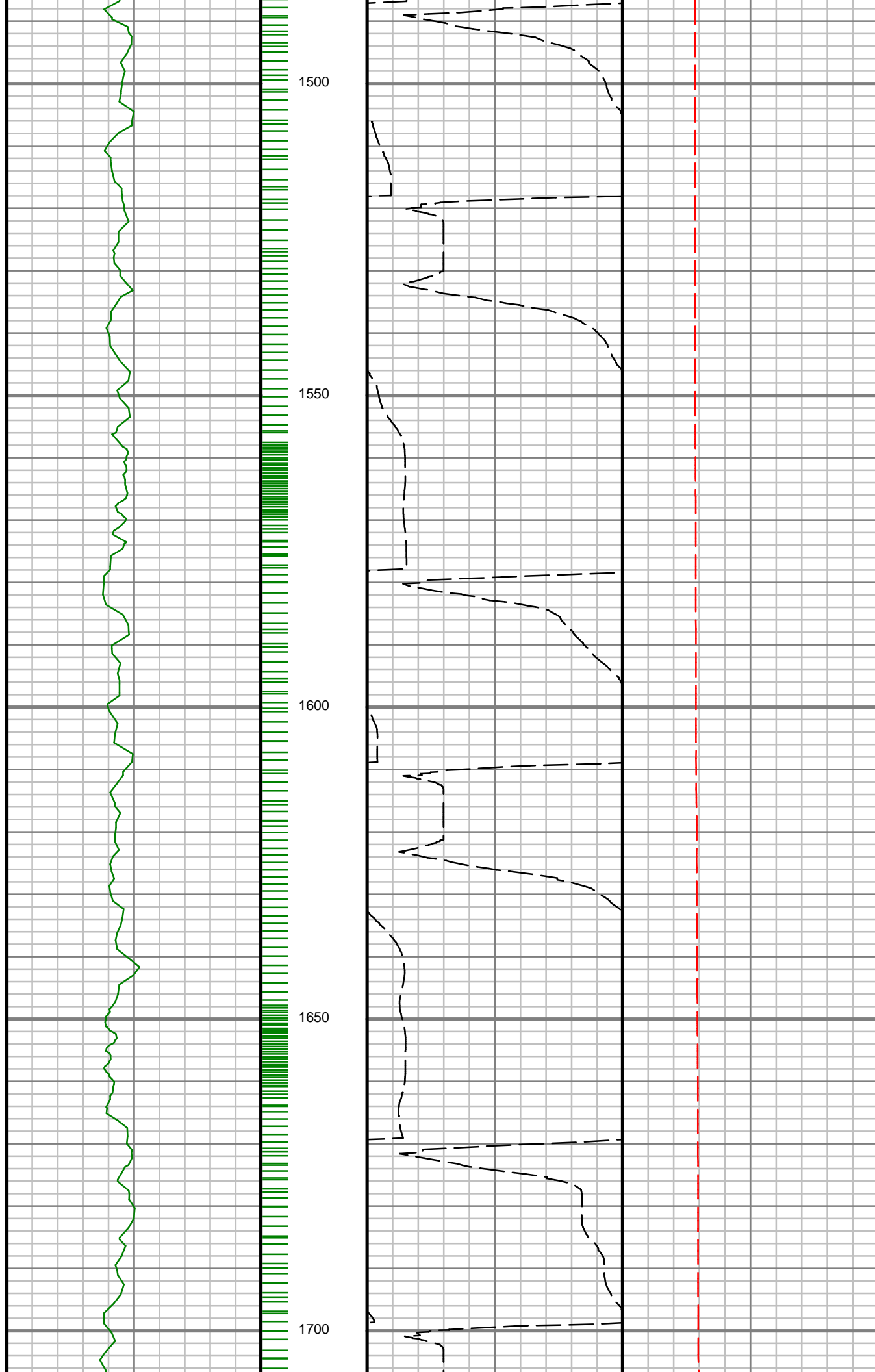
S: 11 MD: 1157.00 ft
Inc: 7.65 deg Az:
273.46 deg TVD:
1155.86 ft

S: 12 MD: 1249.00 ft
Inc: 9.40 deg Az:
269.73 deg TVD:
1246.84 ft



S: 13 MD: 1339.00 ft
Inc: 10.10 deg Az:
262.35 deg TVD:
1335.54 ft

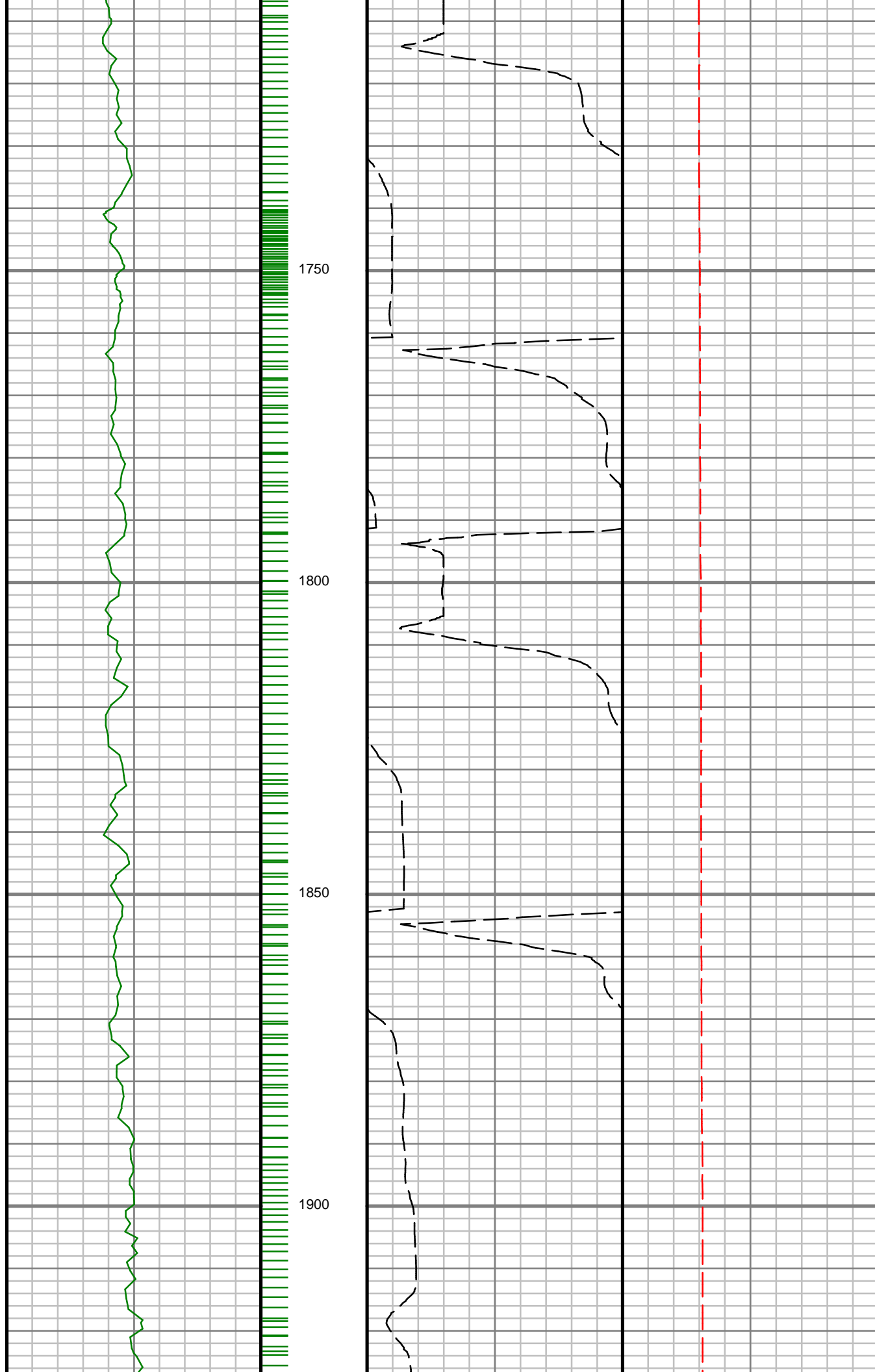
S: 14 MD: 1430.00 ft
Inc: 11.28 deg Az:
250.74 deg TVD:
1424.97 ft



S: 15 MD: 1521.00 ft
Inc: 12.62 deg Az:
250.29 deg TVD:
1514.00 ft

S: 16 MD: 1612.00 ft
Inc: 13.53 deg Az:
254.56 deg TVD:
1602.64 ft

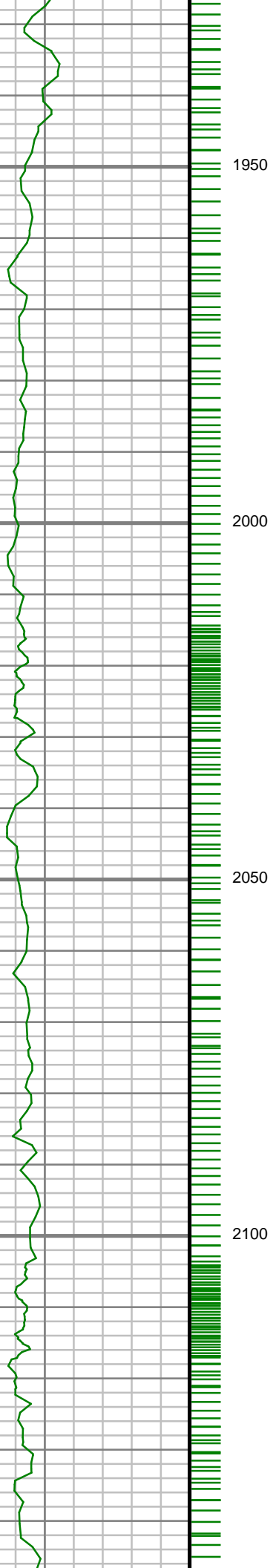
S: 17 MD: 1704.00 ft



Inc: 14.79 deg Az:
255.08 deg TVD:
1691.84 ft

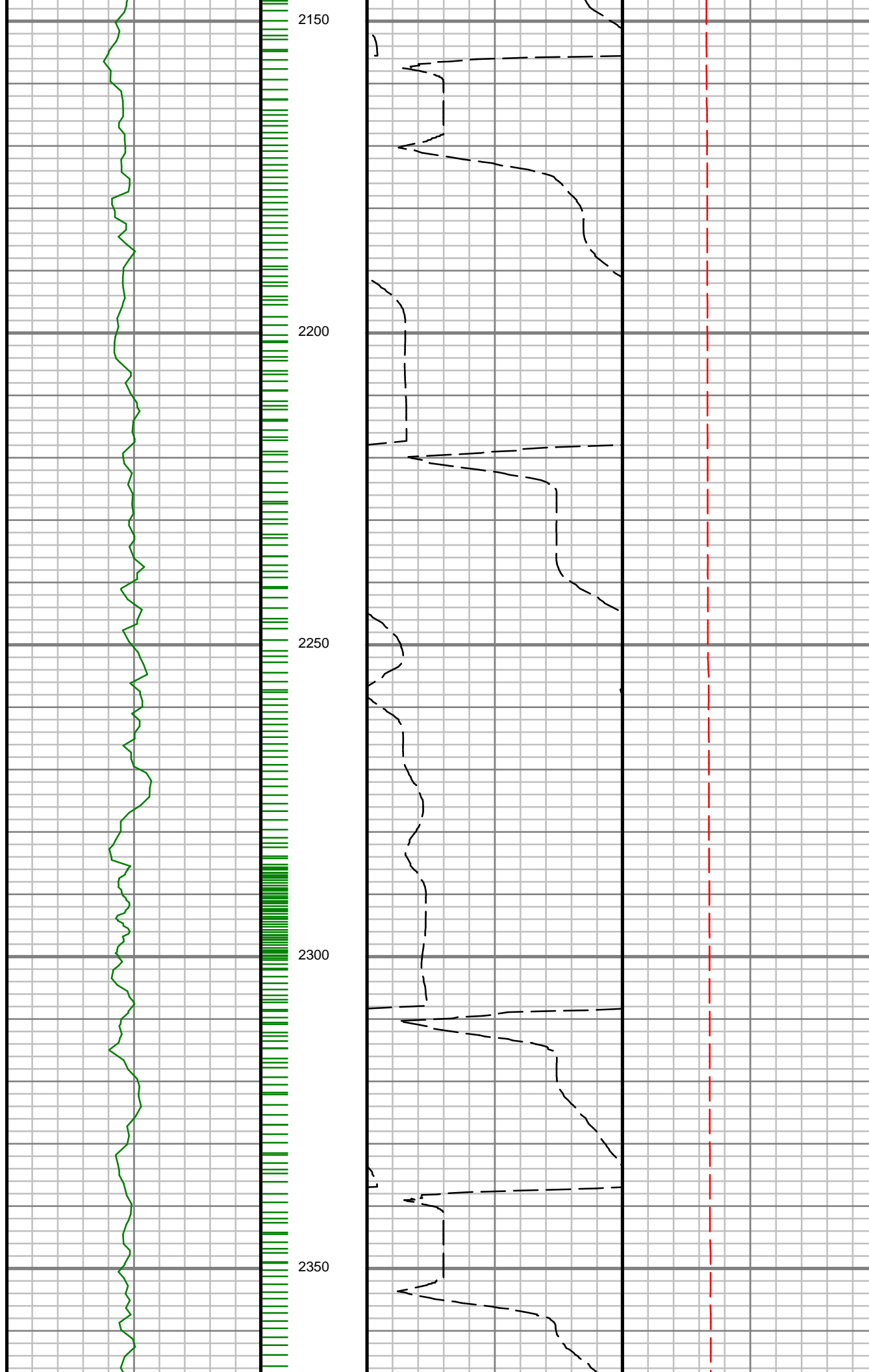
S: 18 MD: 1795.00 ft
Inc: 16.89 deg Az:
258.97 deg TVD:
1779.38 ft

S: 19 MD: 1887.00 ft
Inc: 17.22 deg Az:
257.83 deg TVD:
1867.34 ft



S: 20 MD: 1978.00 ft
Inc: 16.71 deg Az:
256.19 deg TVD:
1954.38 ft

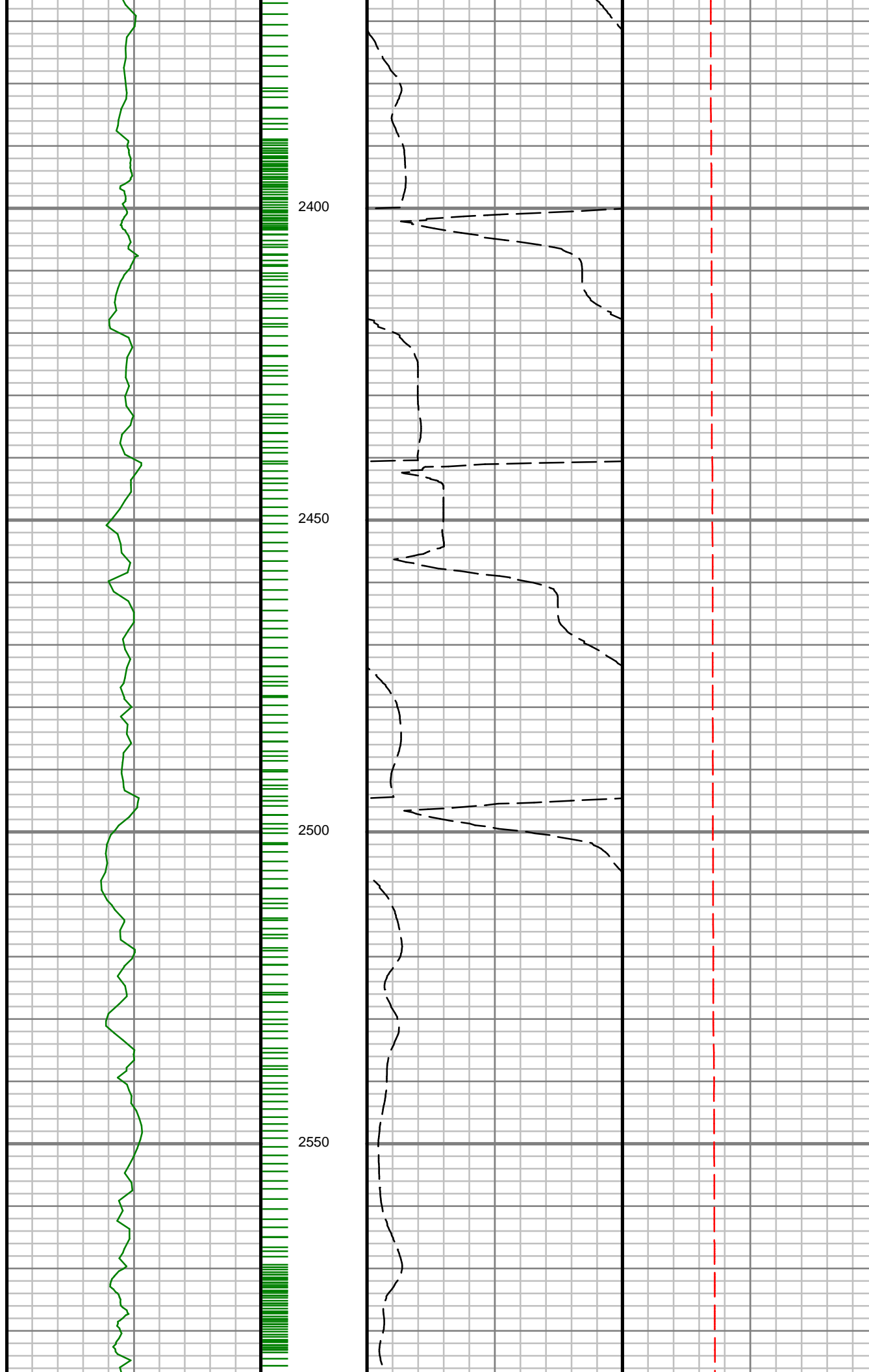
S: 21 MD: 2070.00 ft
Inc: 16.05 deg Az:
257.92 deg TVD:
2042.64 ft



S: 22 MD: 2161.00 ft
Inc: 13.91 deg Az:
257.39 deg TVD:
2130.55 ft

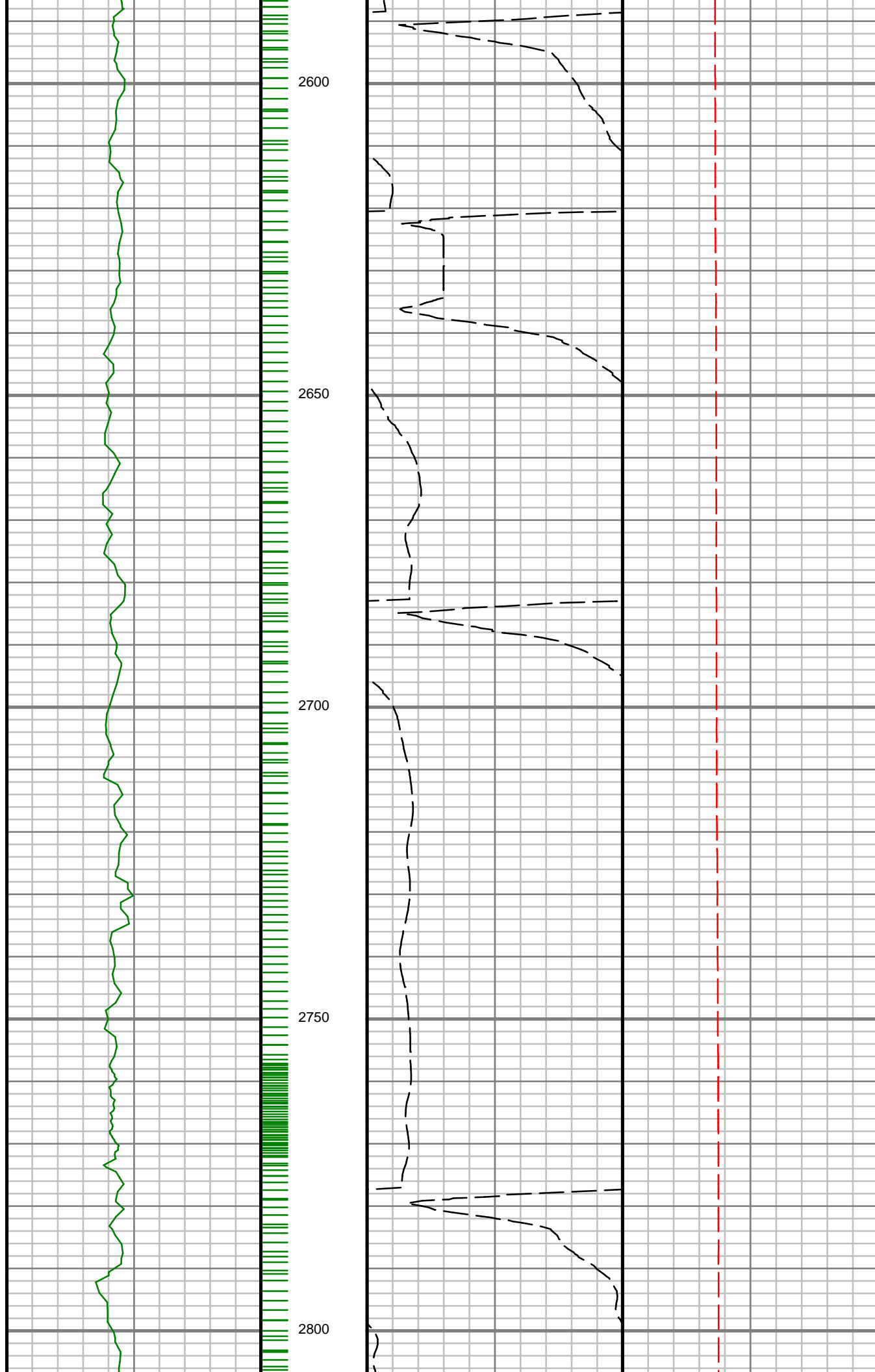
S: 23 MD: 2252.00 ft
Inc: 13.55 deg Az:
255.78 deg TVD:
2218.95 ft

S: 24 MD: 2343.00 ft
Inc: 12.02 deg Az:
260.05 deg TVD:
2307.69 ft



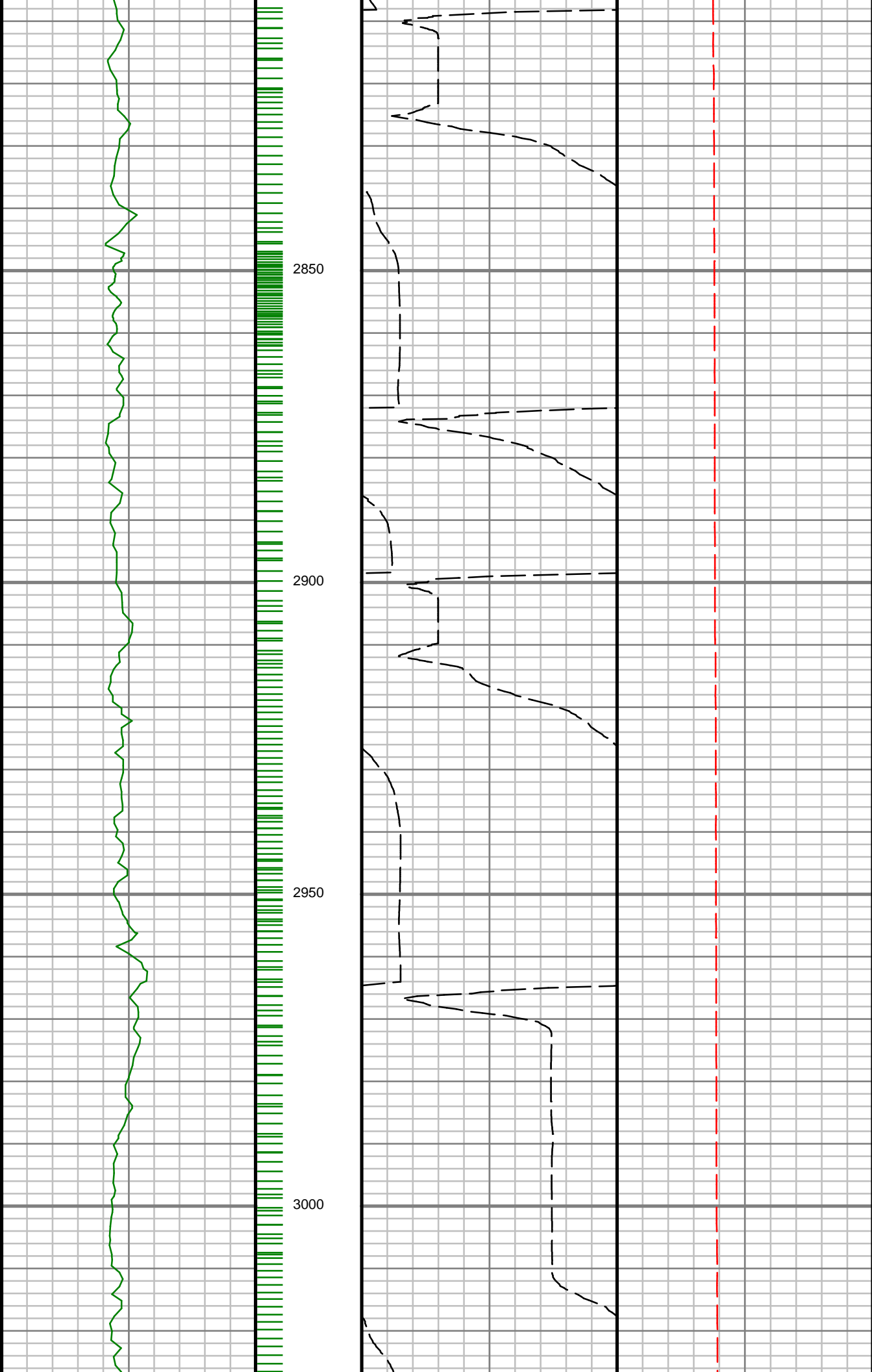
S: 25 MD: 2437.00 ft
Inc: 10.63 deg Az:
262.87 deg TVD:
2399.86 ft

S: 26 MD: 2532.00 ft
Inc: 8.79 deg Az:
264.60 deg TVD:
2493.50 ft



S: 27 MD: 2626.00 ft
Inc: 6.56 deg Az:
262.31 deg TVD:
2586.65 ft

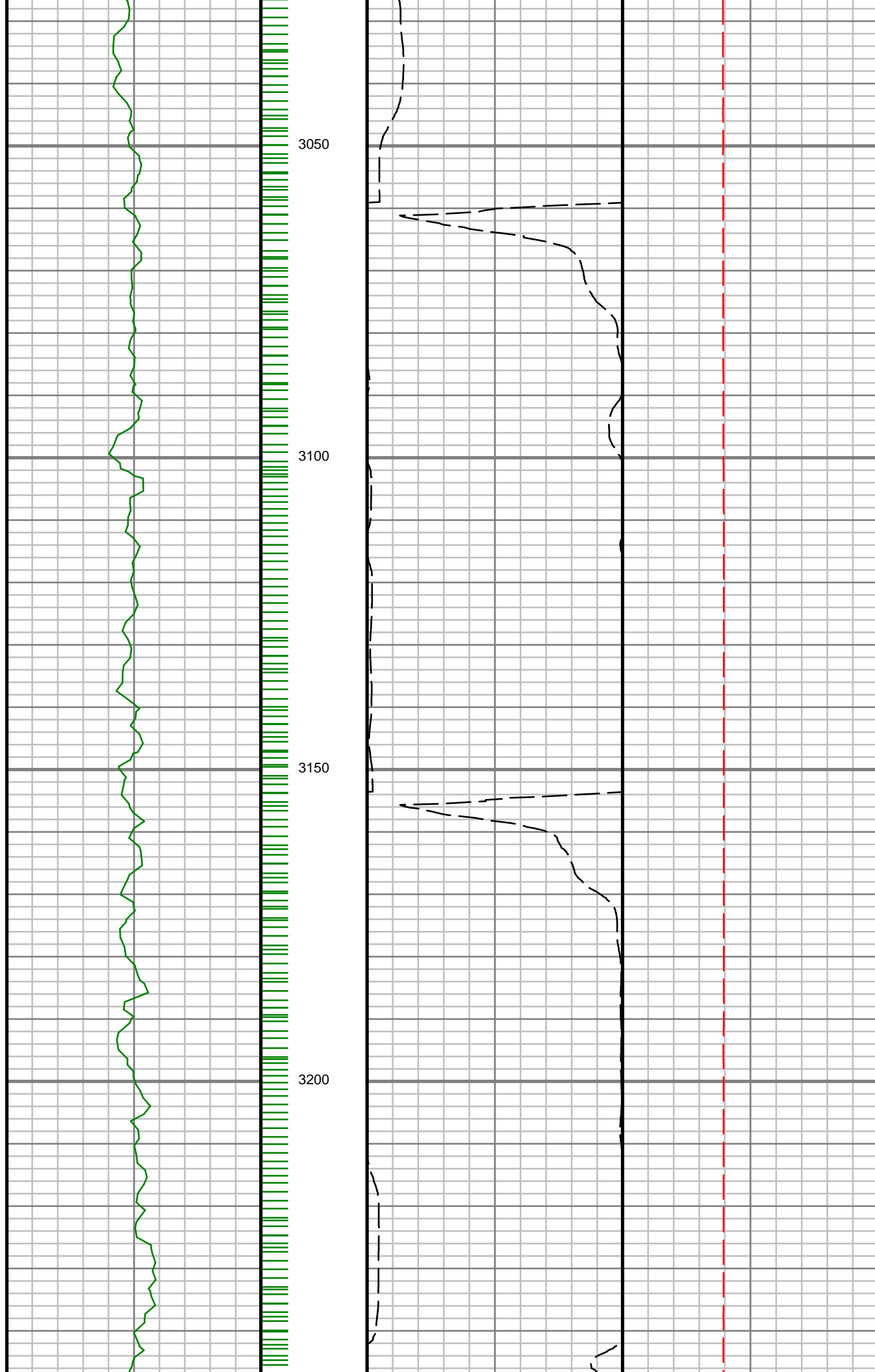
S: 28 MD: 2720.00 ft
Inc: 5.97 deg Az:
267.80 deg TVD:
2680.09 ft



S: 29 MD: 2814.00 ft
Inc: 3.80 deg Az:
265.23 deg TVD:
2773.74 ft

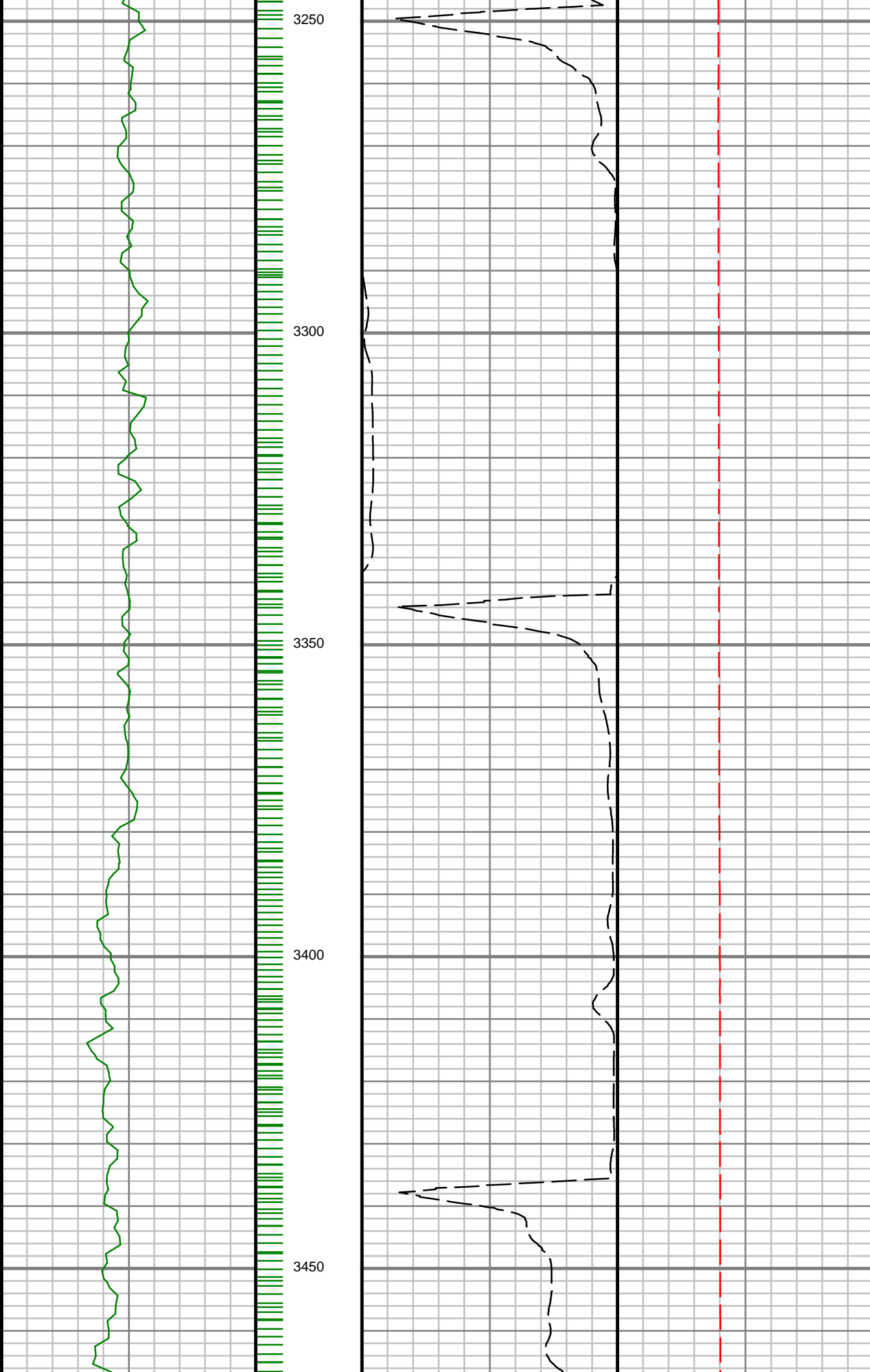
S: 30 MD: 2907.00 ft
Inc: 1.15 deg Az:
286.45 deg TVD:
2866.65 ft

S: 31 MD: 3002.00 ft
Inc: 0.80 deg Az:
261.30 deg TVD:
2961.63 ft



S: 32 MD: 3096.00 ft
Inc: 0.87 deg Az:
244.84 deg TVD:
3055.62 ft

S: 33 MD: 3190.00 ft
Inc: 0.84 deg Az:
226.42 deg TVD:
3149.61 ft



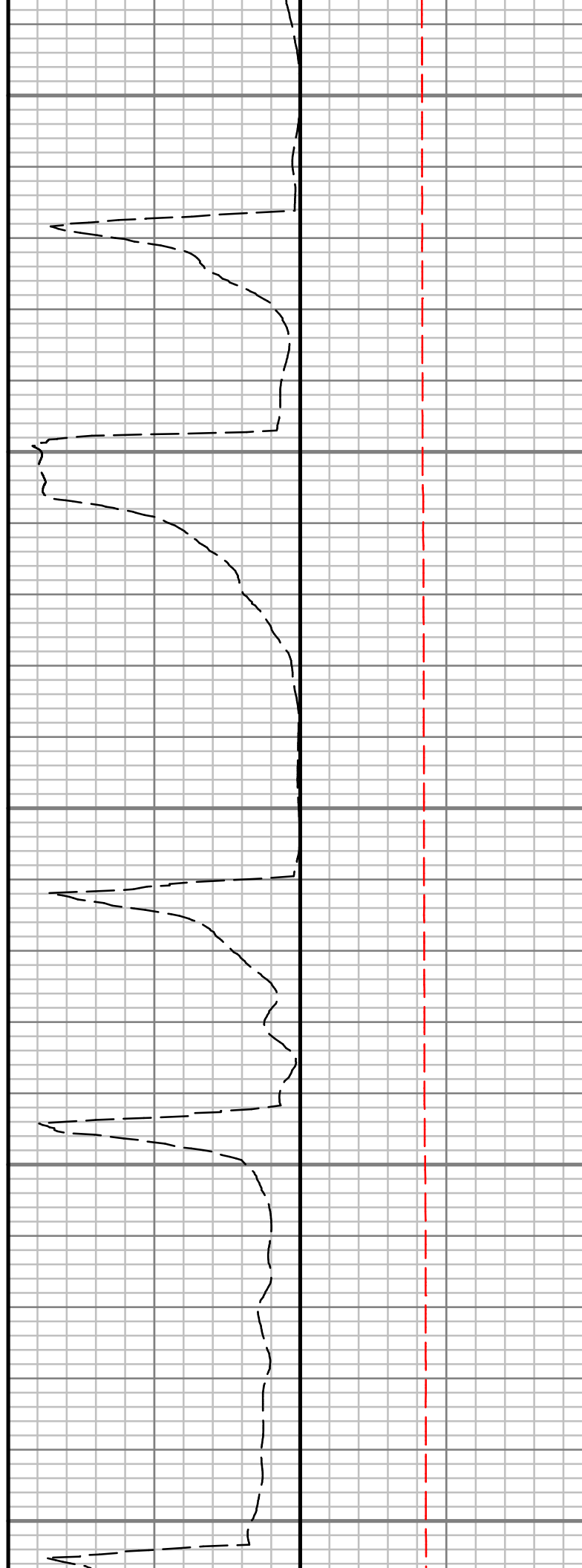
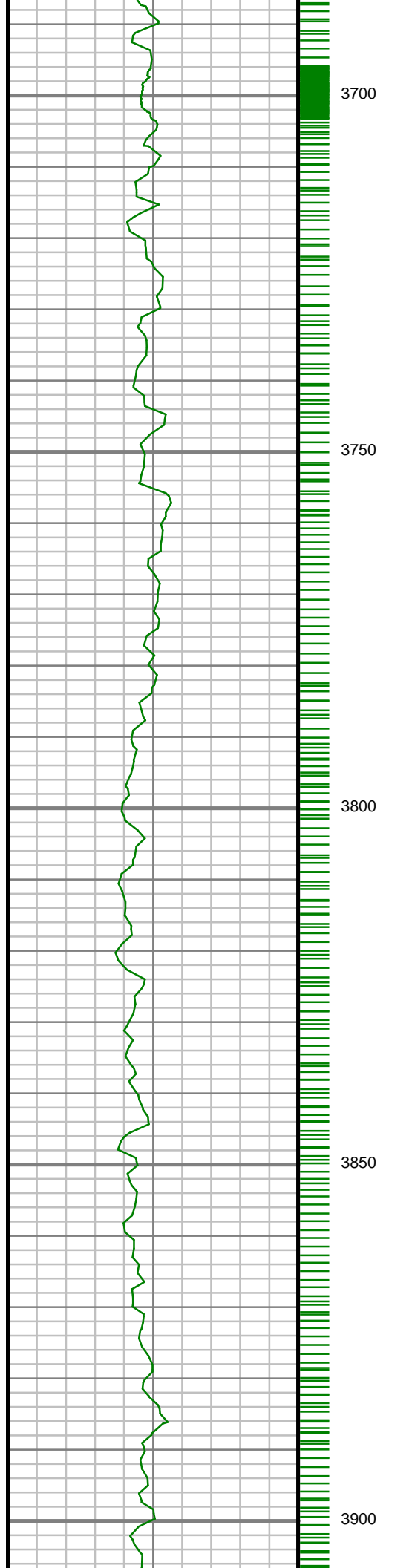
S: 34 MD: 3284.00 ft
Inc: 1.08 deg Az:
229.94 deg TVD:
3243.60 ft

S: 35 MD: 3378.00 ft
Inc: 0.98 deg Az:
231.35 deg TVD:
3337.58 ft

S: 36 MD: 3472.00 ft
Inc: 0.72 deg Az:
253.56 deg TVD:
3431.57 ft

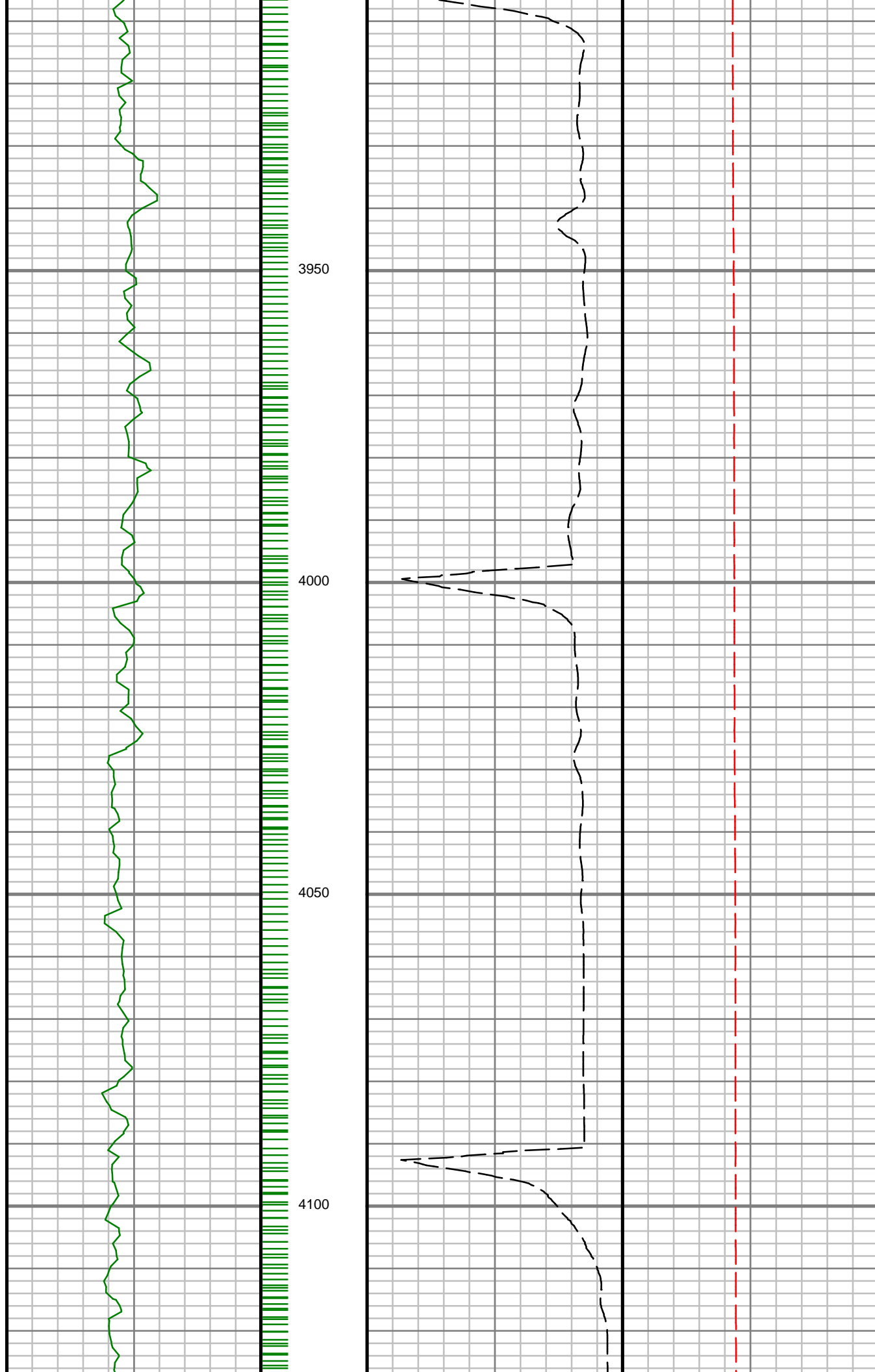
S: 37 MD: 3565.00 ft
Inc: 1.04 deg Az:
211.63 deg TVD:
3524.56 ft

S: 38 MD: 3659.00 ft
Inc: 0.80 deg Az:
222.50 deg TVD:
3618.55 ft



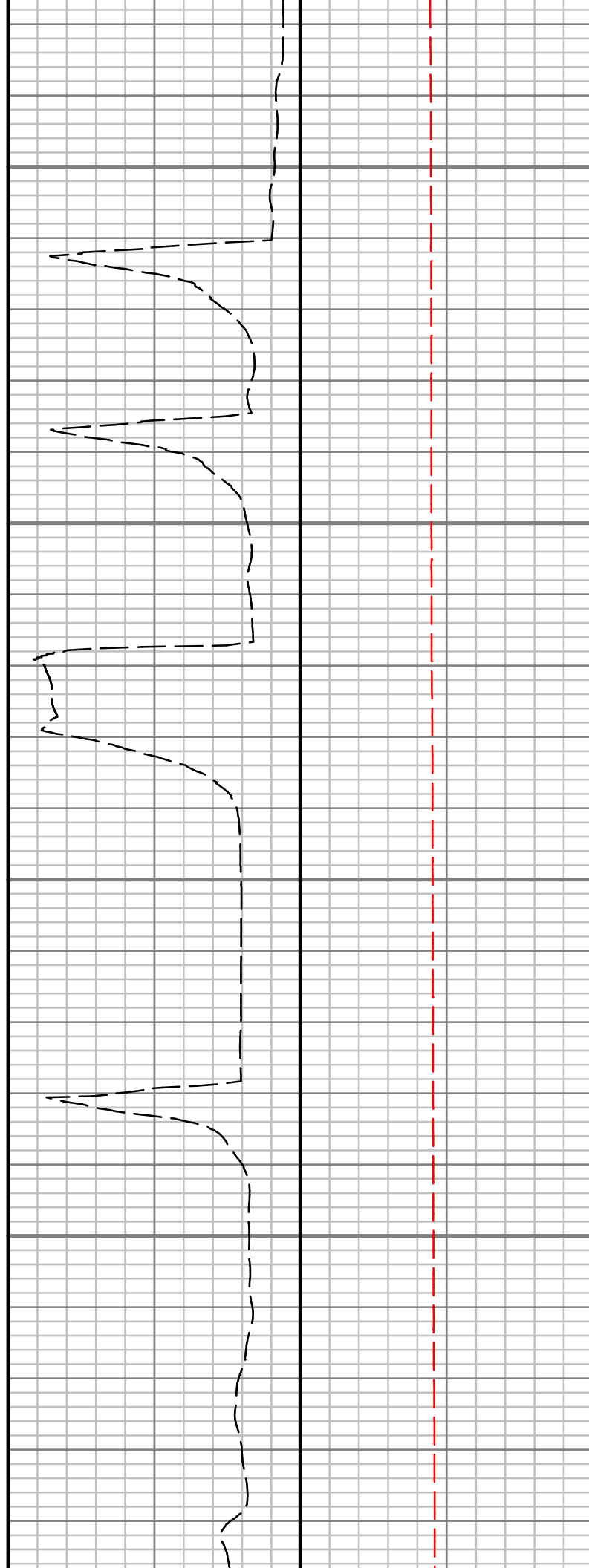
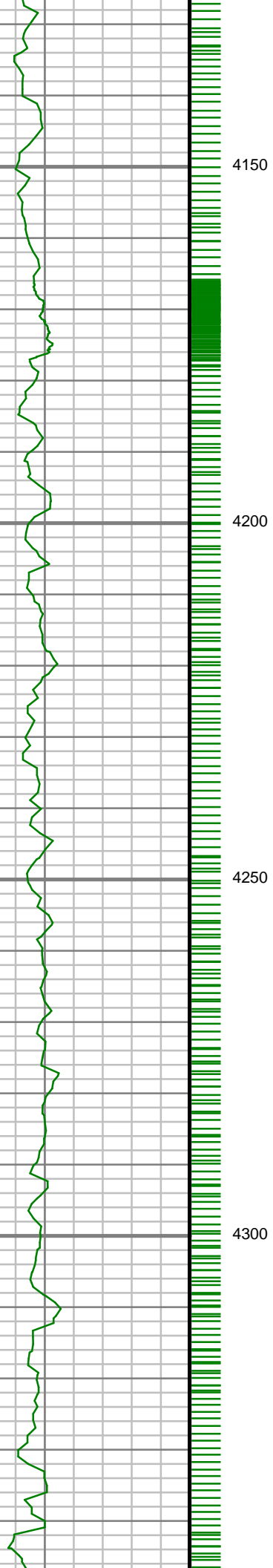
S: 39 MD: 3753.00 ft
Inc: 0.24 deg Az:
316.86 deg TVD:
3712.55 ft

S: 40 MD: 3846.00 ft
Inc: 0.05 deg Az:
328.52 deg TVD:
3805.55 ft



S: 41 MD: 3940.00 ft
Inc: 0.47 deg Az:
201.70 deg TVD:
3899.55 ft

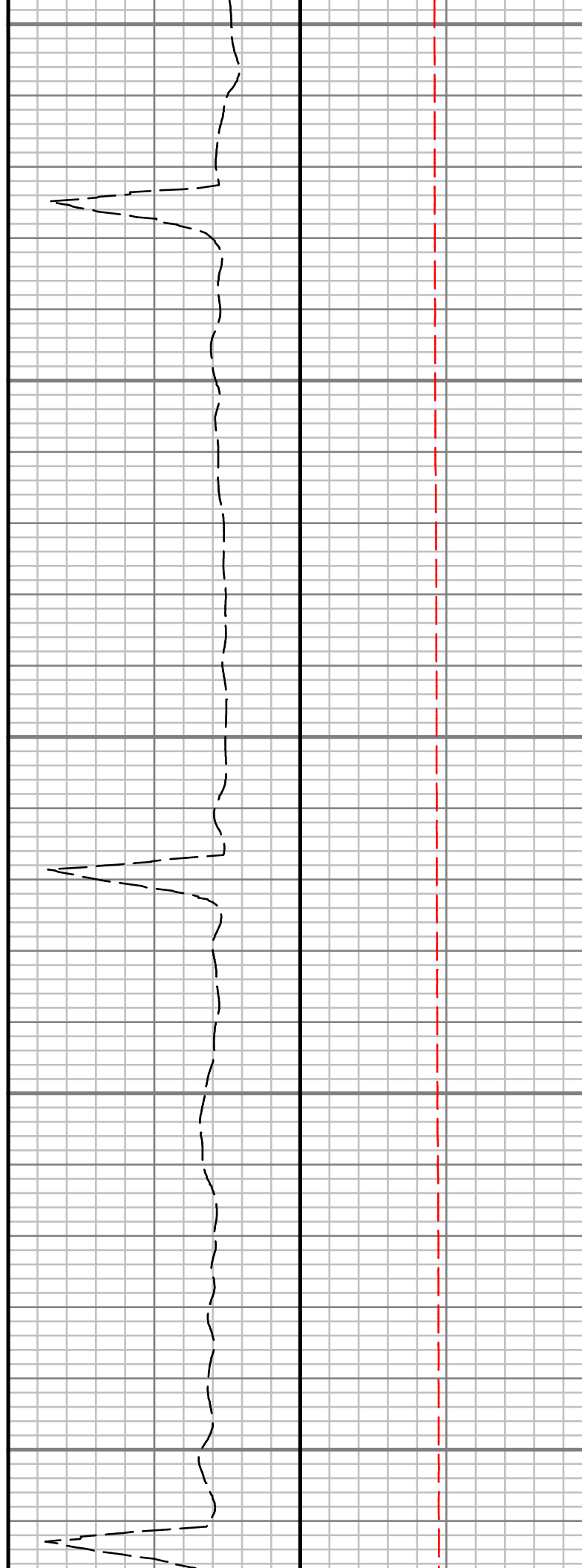
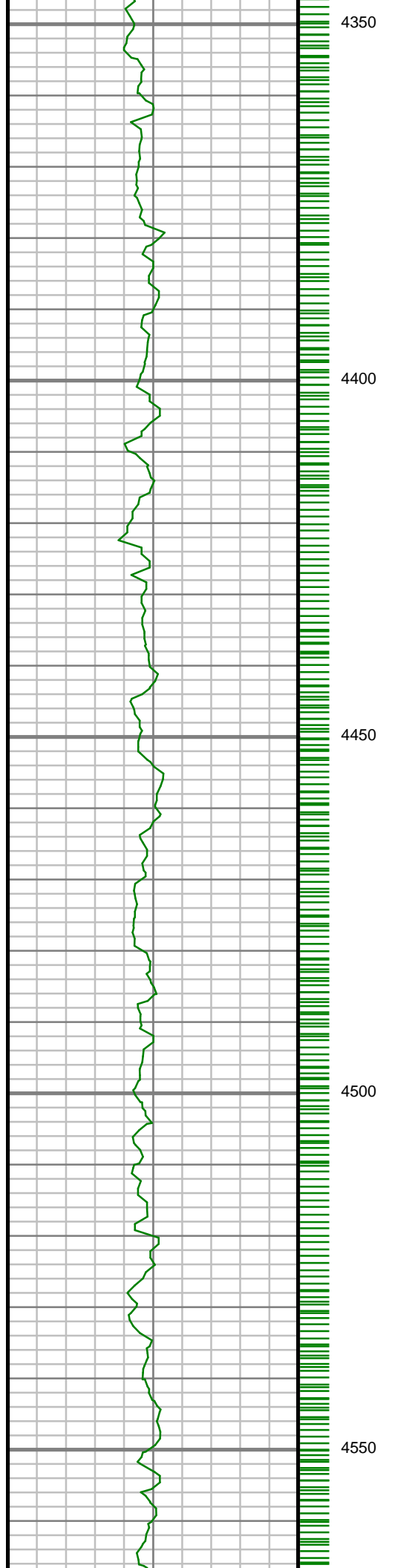
S: 42 MD: 4033.00 ft
Inc: 0.55 deg Az:
211.30 deg TVD:
3992.54 ft



S: 43 MD: 4127.00 ft
Inc: 0.71 deg Az:
209.78 deg TVD:
4086.54 ft

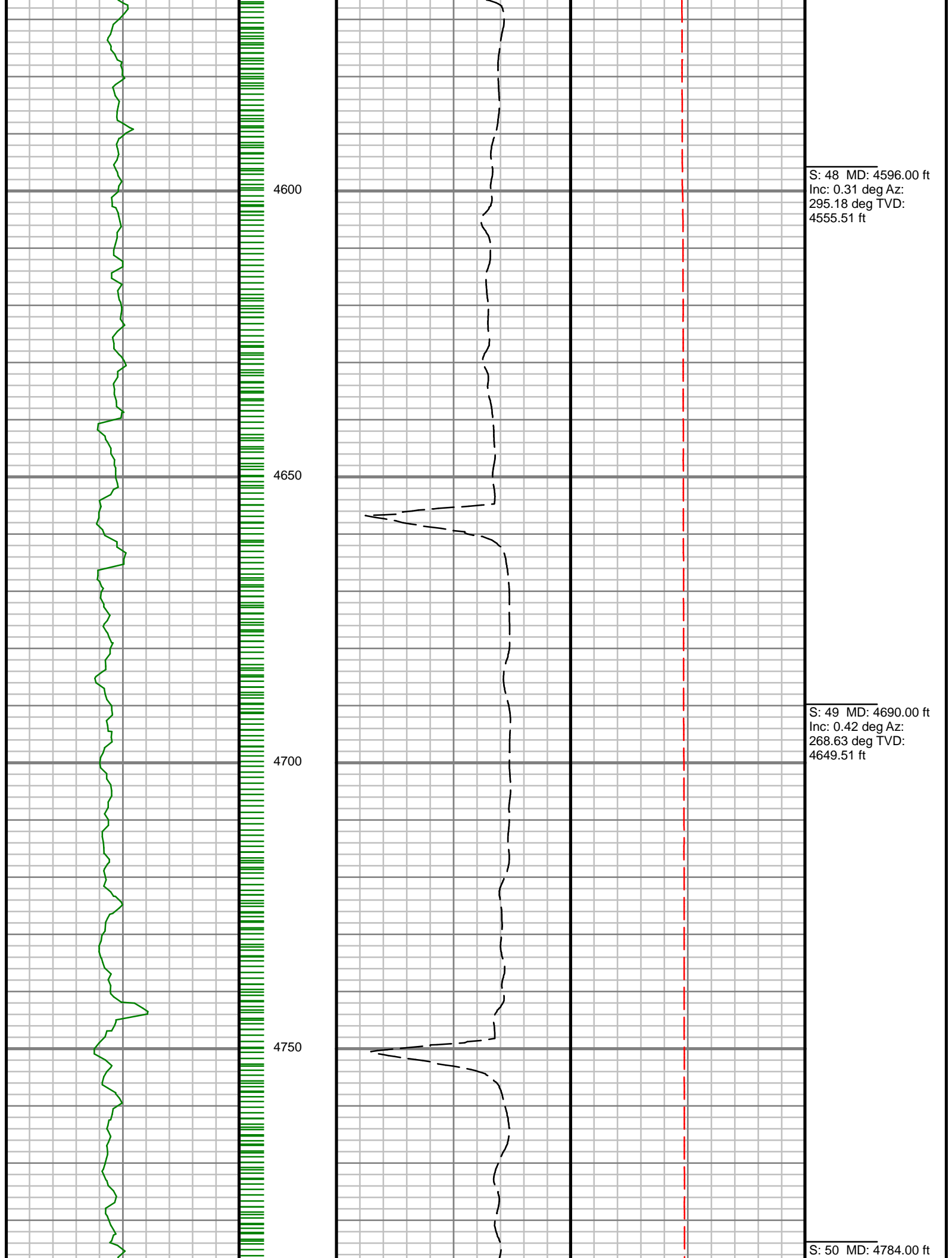
S: 44 MD: 4221.00 ft
Inc: 0.40 deg Az:
323.04 deg TVD:
4180.53 ft

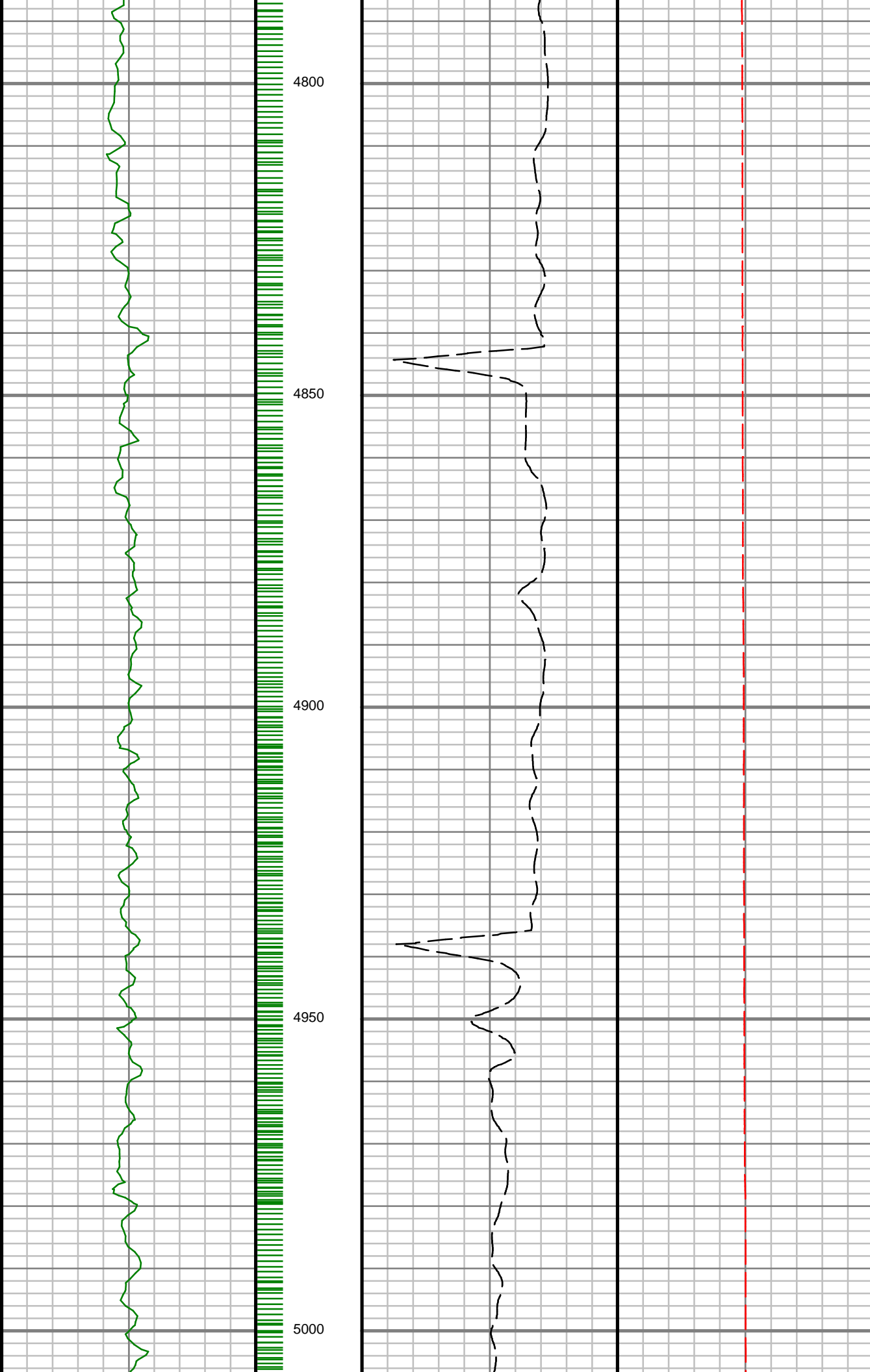
S: 45 MD: 4315.00 ft
Inc: 0.63 deg Az:
345.52 deg TVD:
4274.53 ft



S: 46 MD: 4408.00 ft
Inc: 0.78 deg Az:
356.89 deg TVD:
4367.52 ft

S: 47 MD: 4502.00 ft
Inc: 0.60 deg Az:
311.68 deg TVD:
4461.52 ft

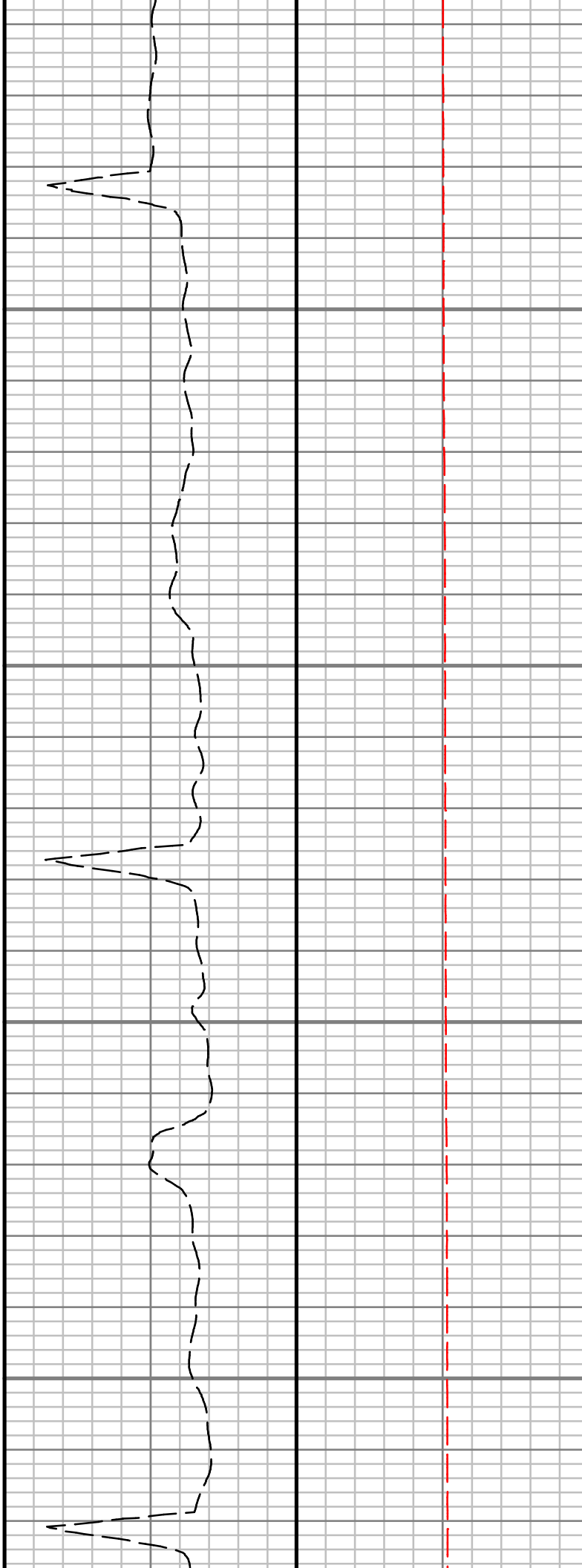
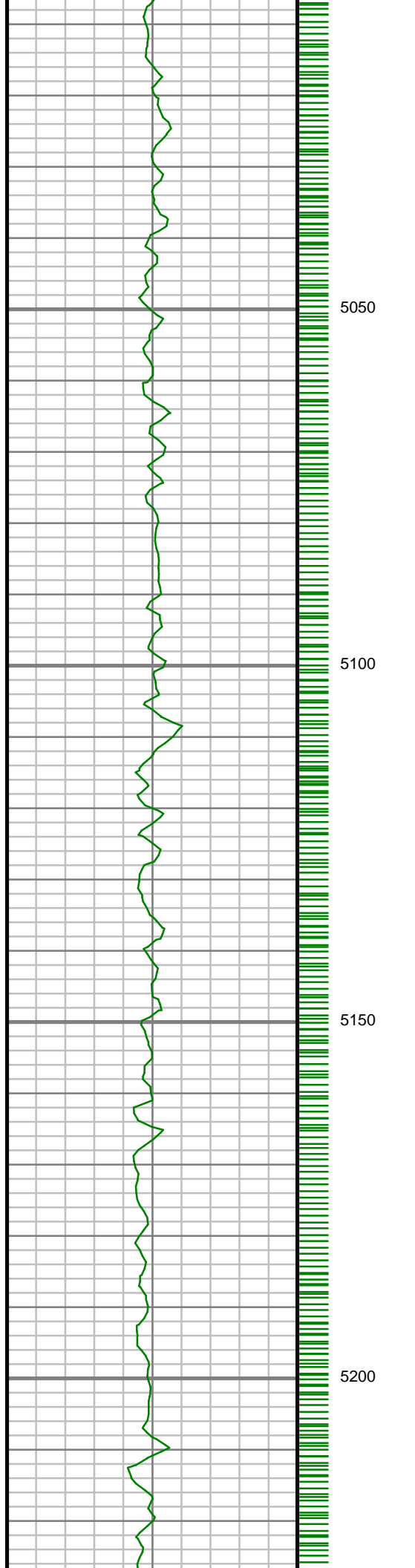




Inc: 0.45 deg Az:
259.03 deg TVD:
4743.51 ft

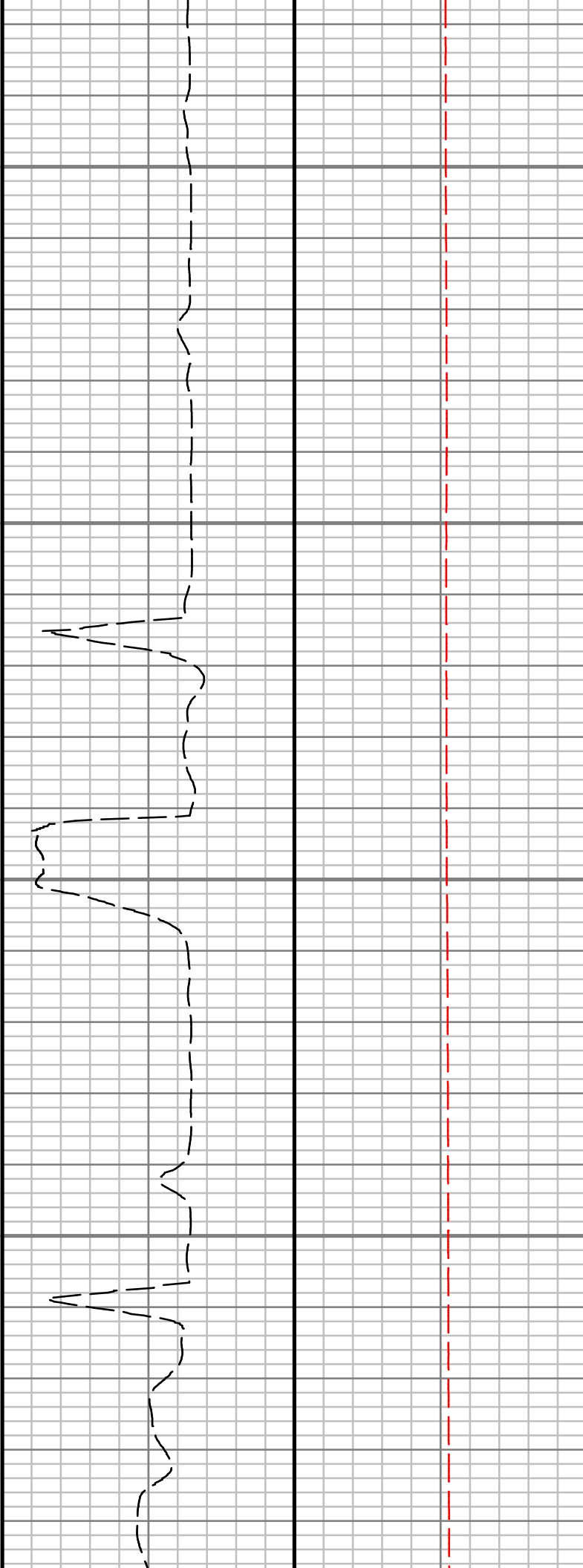
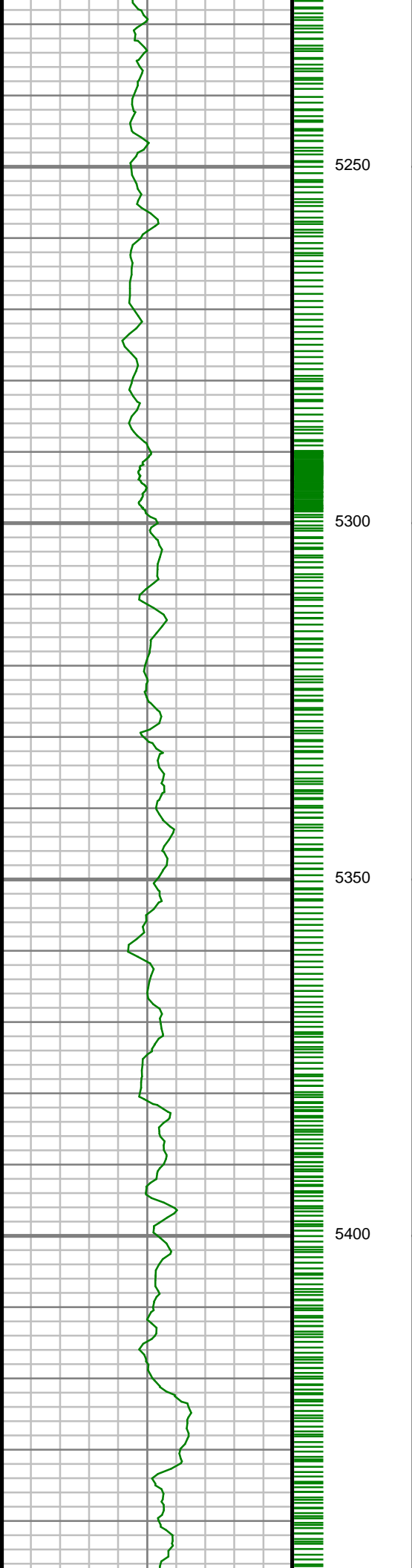
S: 51 MD: 4877.00 ft
Inc: 0.59 deg Az:
279.45 deg TVD:
4836.51 ft

S: 52 MD: 4972.00 ft
Inc: 0.74 deg Az:
275.31 deg TVD:
4931.50 ft



S: 53 MD: 5067.00 ft
Inc: 0.36 deg Az:
305.41 deg TVD:
5026.49 ft

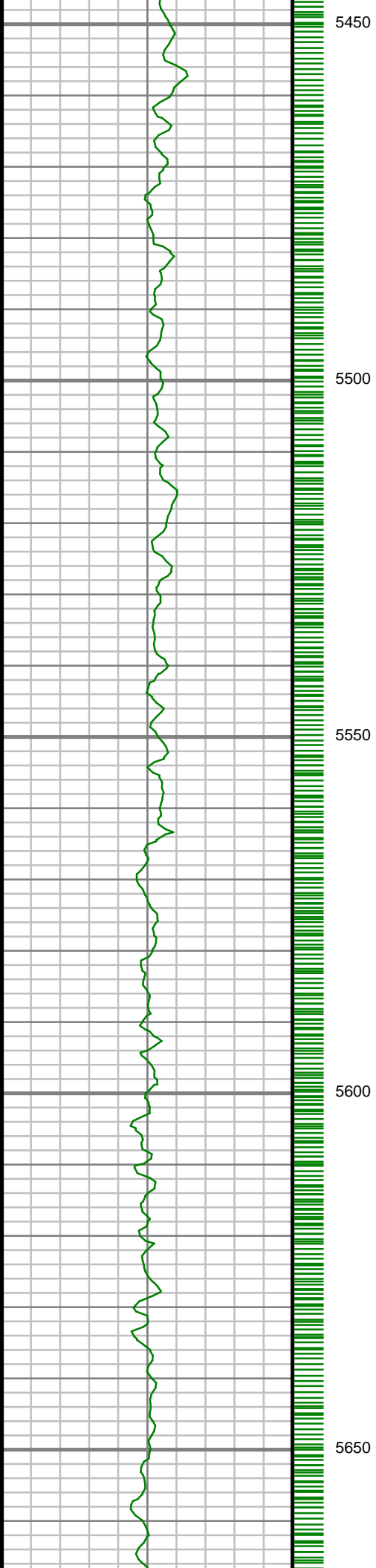
S: 54 MD: 5160.00 ft
Inc: 0.54 deg Az:
345.35 deg TVD:
5119.49 ft



S: 55 MD: 5254.00 ft
Inc: 0.76 deg Az: 302.12 deg TVD: 5213.49 ft

S: 56 MD: 5348.00 ft
Inc: 1.54 deg Az: 18.68 deg TVD: 5307.47 ft

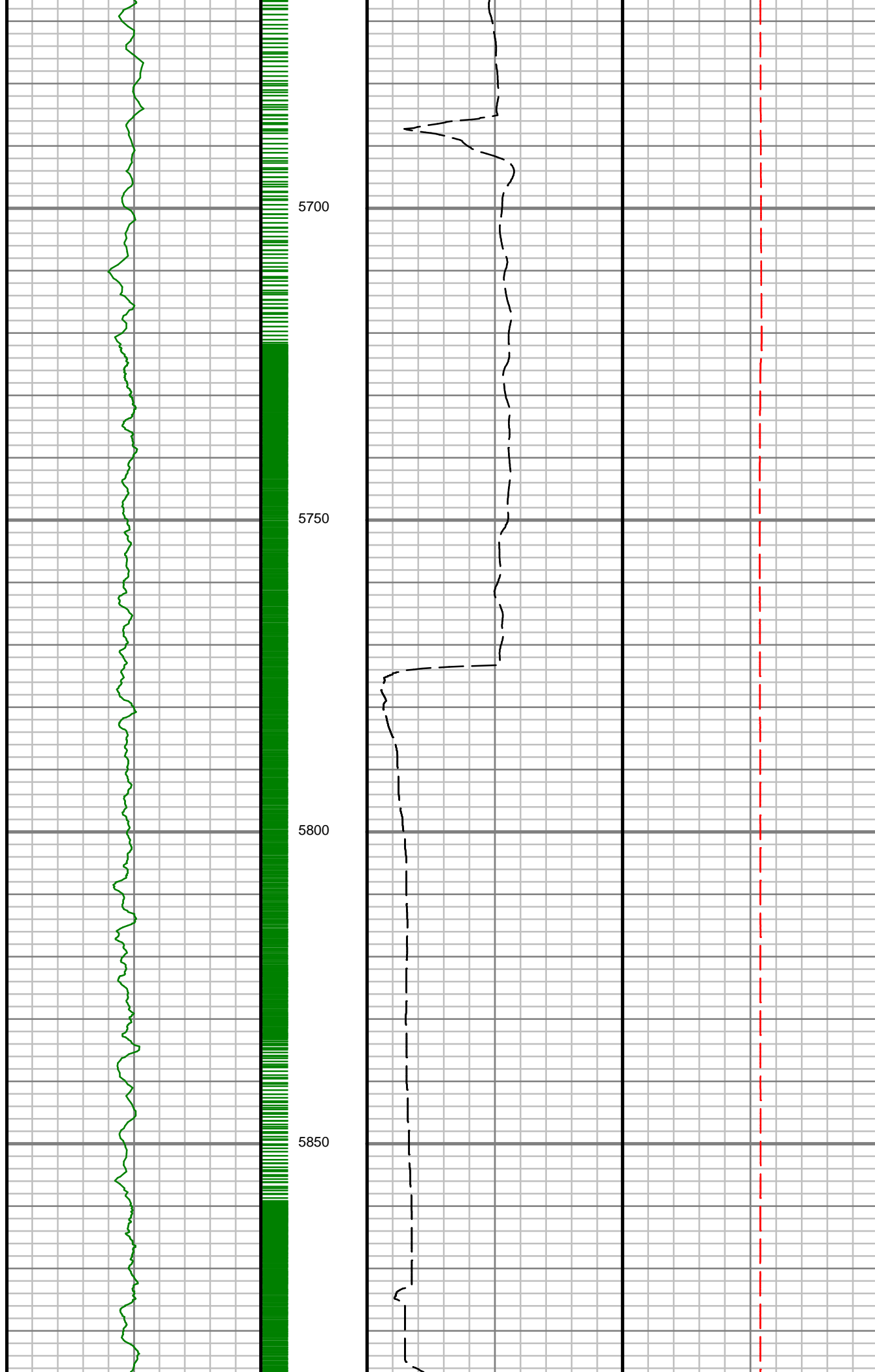
S: 57 MD: 5442.00 ft
Inc: 1.53 deg Az: 13.31



deg TVD: 5401.44 ft

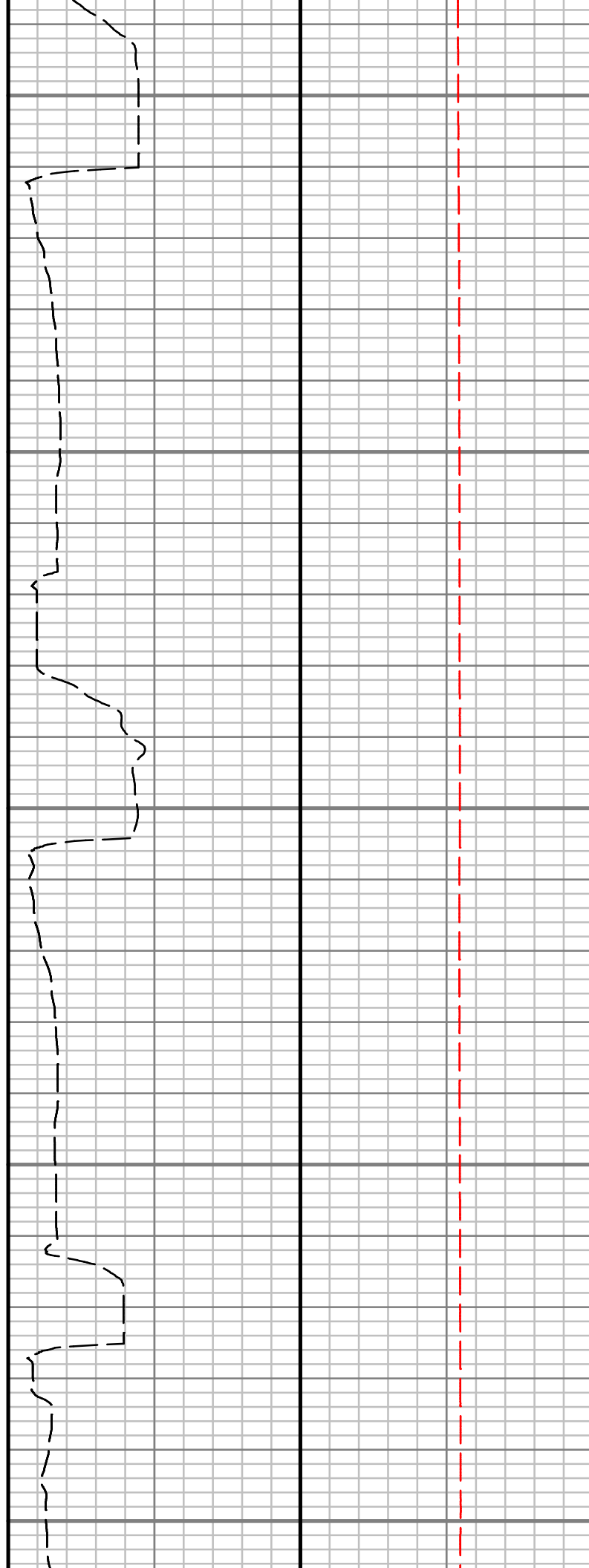
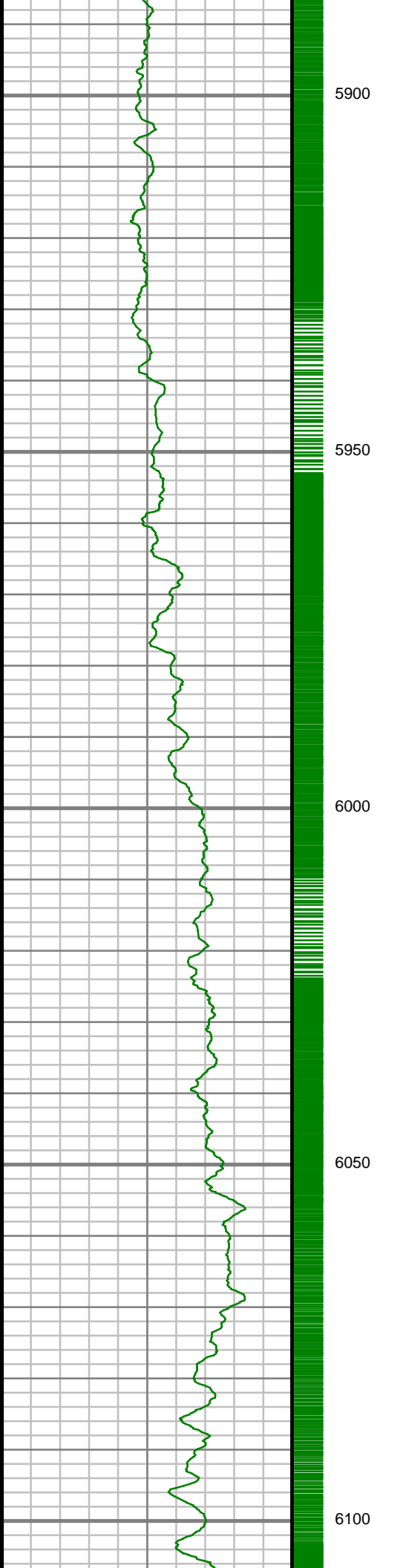
S: 58 MD: 5536.00 ft
Inc: 0.96 deg Az: 3.69
deg TVD: 5495.41 ft

S: 59 MD: 5630.00 ft
Inc: 0.81 deg Az:
324.49 deg TVD:
5589.40 ft



S: 60 MD: 5724.00 ft
Inc: 0.60 deg Az:
281.88 deg TVD:
5683.40 ft

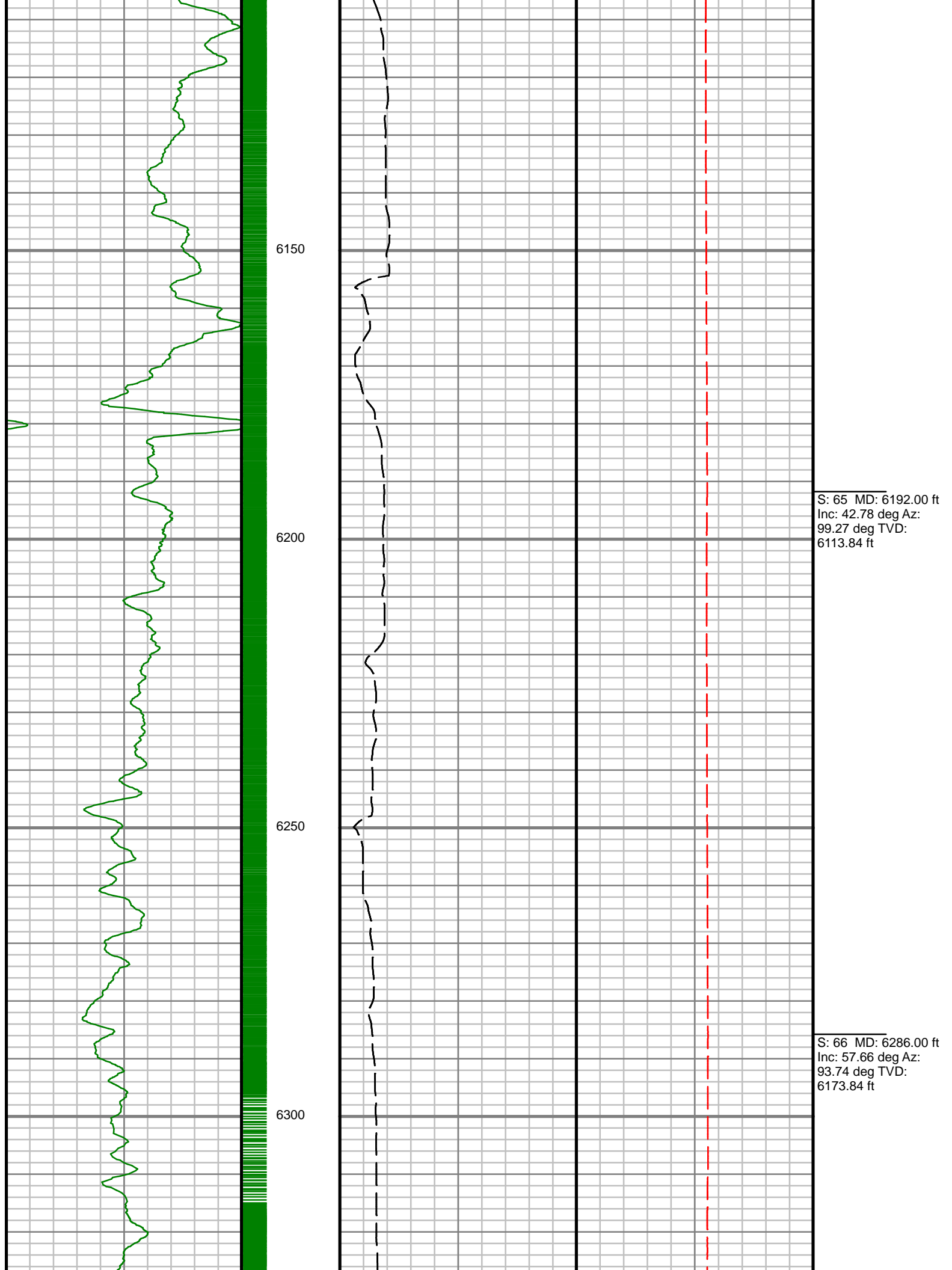
S: 61 MD: 5817.00 ft
Inc: 7.42 deg Az: 88.62
deg TVD: 5776.16 ft



S: 62 MD: 5911.00 ft
Inc: 16.28 deg Az:
87.34 deg TVD:
5868.06 ft

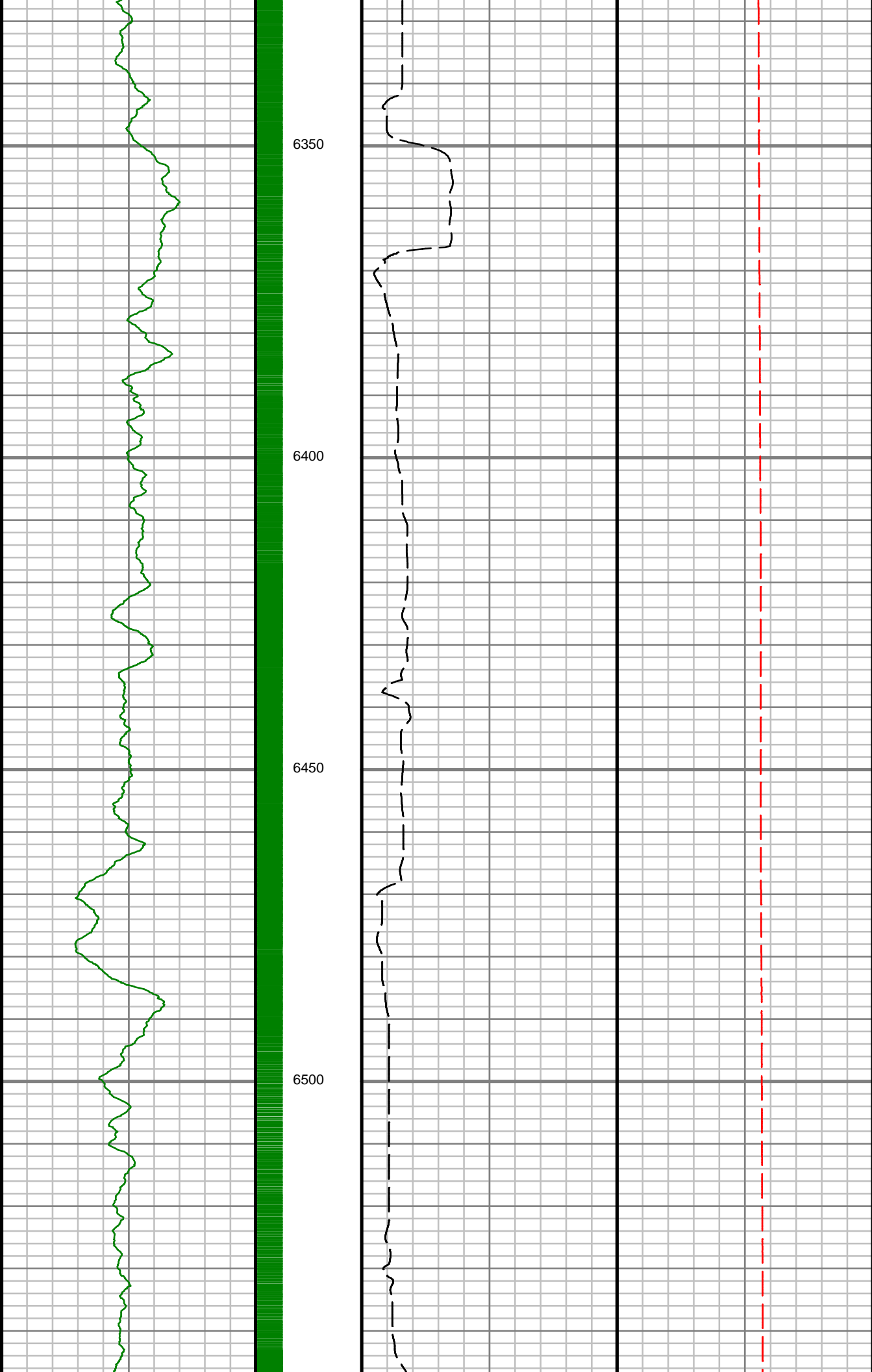
S: 63 MD: 6005.00 ft
Inc: 23.50 deg Az:
93.60 deg TVD:
5956.41 ft

S: 64 MD: 6098.00 ft
Inc: 31.29 deg Az:
94.51 deg TVD:
6038.02 ft



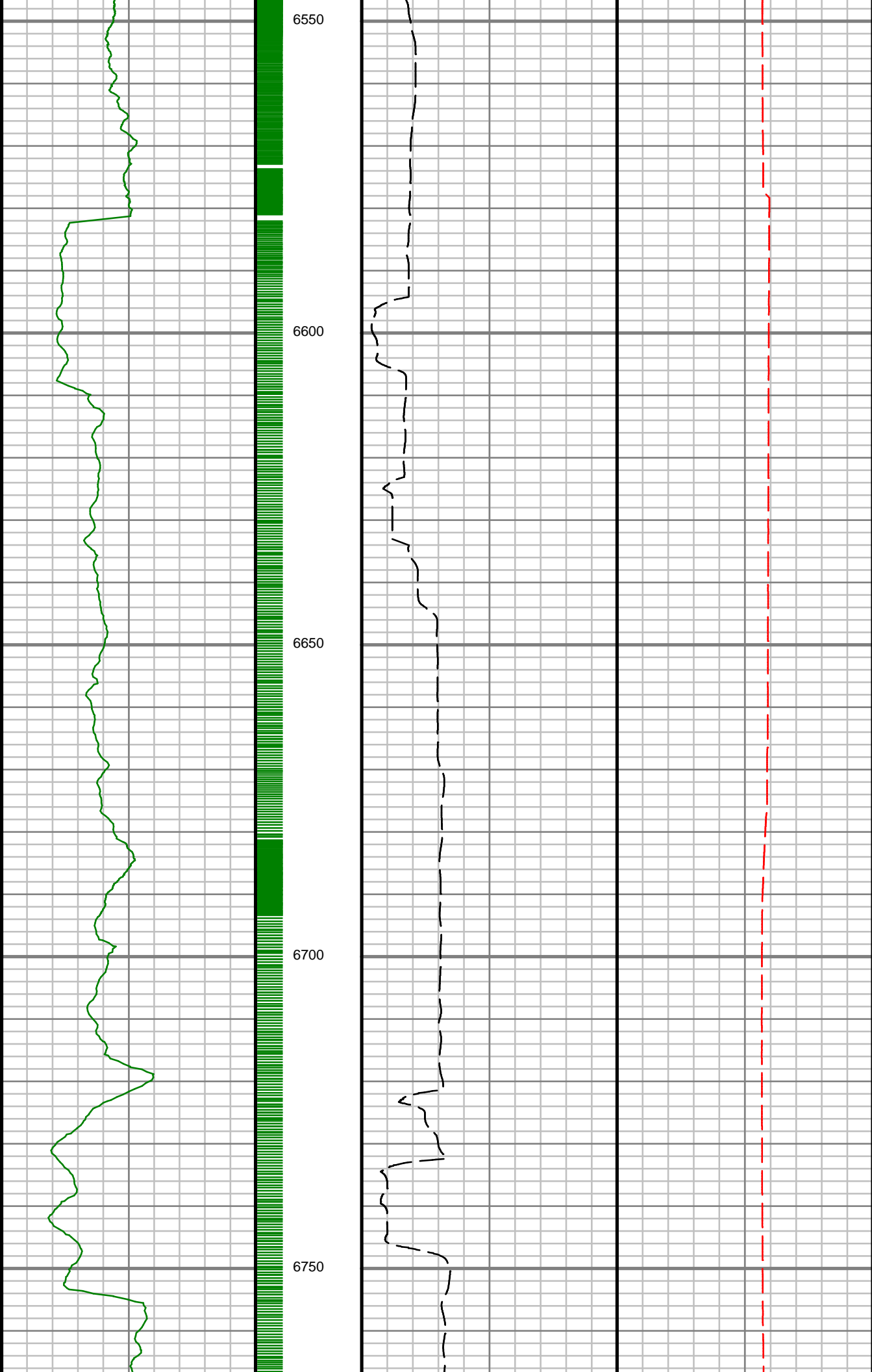
S: 65 MD: 6192.00 ft
Inc: 42.78 deg Az:
99.27 deg TVD:
6113.84 ft

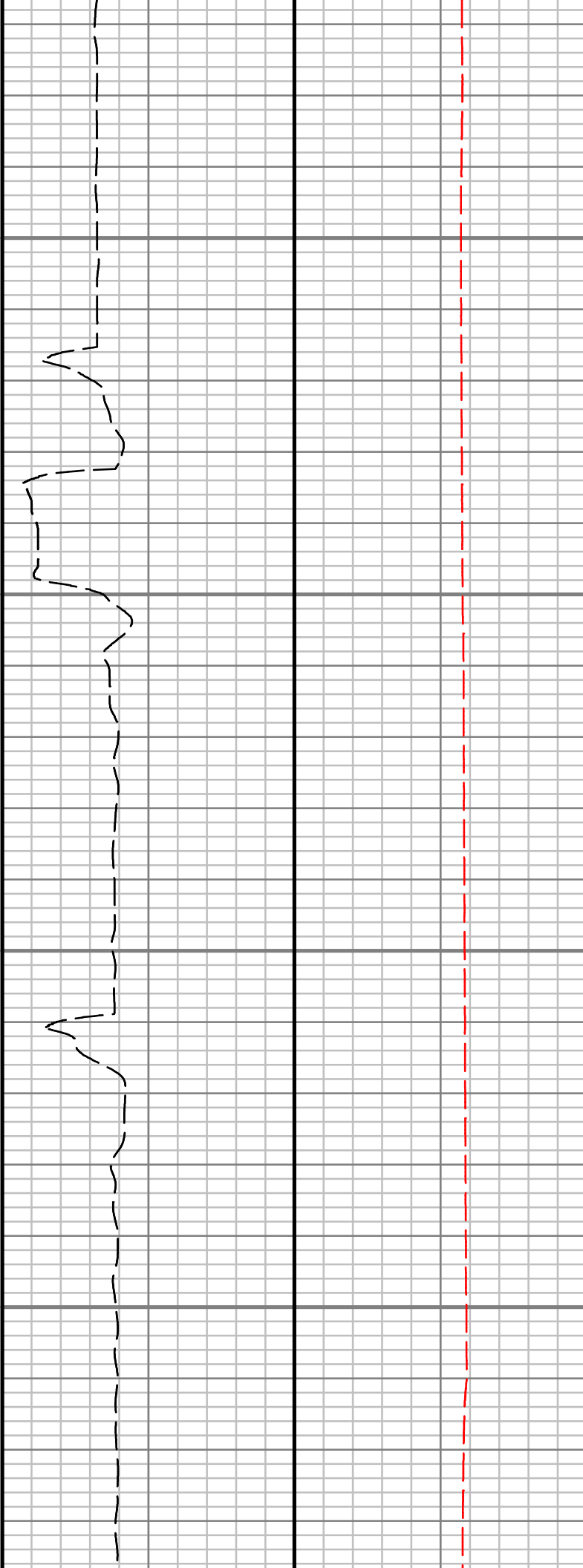
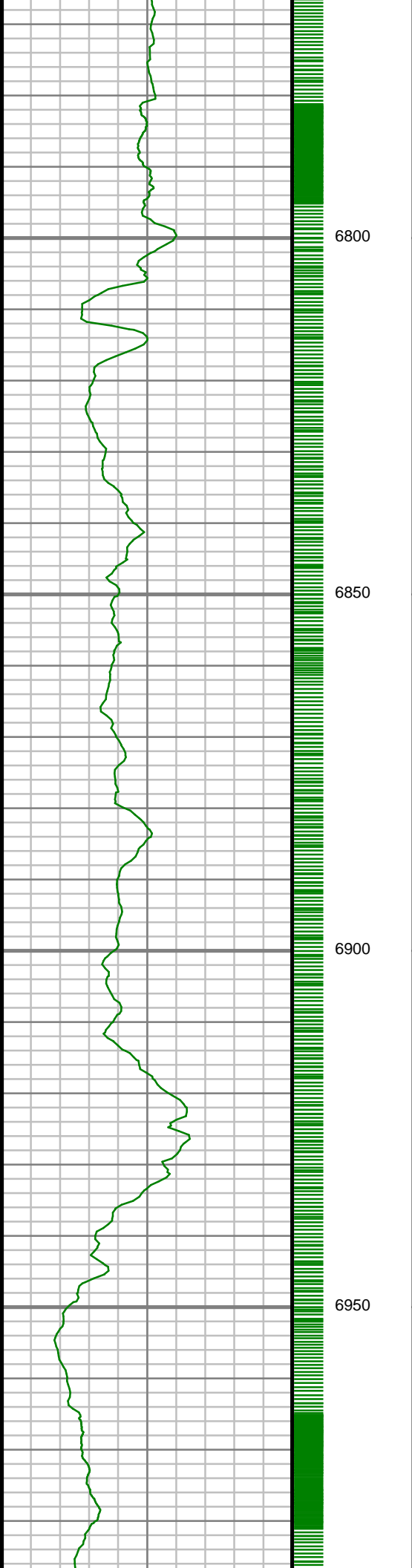
S: 66 MD: 6286.00 ft
Inc: 57.66 deg Az:
93.74 deg TVD:
6173.84 ft



S: 67 MD: 6380.00 ft
Inc: 68.57 deg Az:
93.48 deg TVD:
6216.29 ft

S: 68 MD: 6473.00 ft
Inc: 79.92 deg Az:
93.99 deg TVD:
6241.50 ft

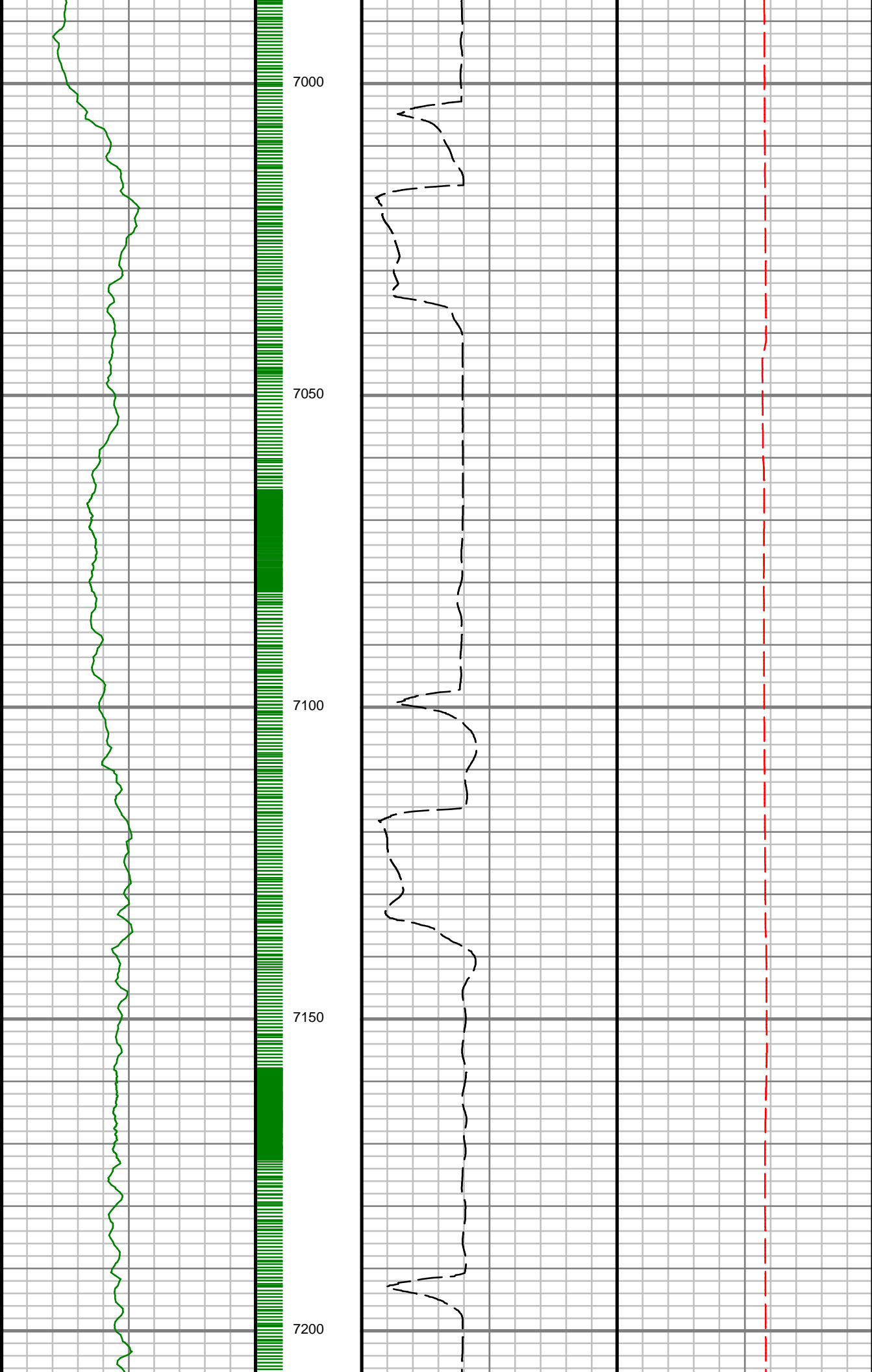




91.81 deg TVD:
6247.49 ft

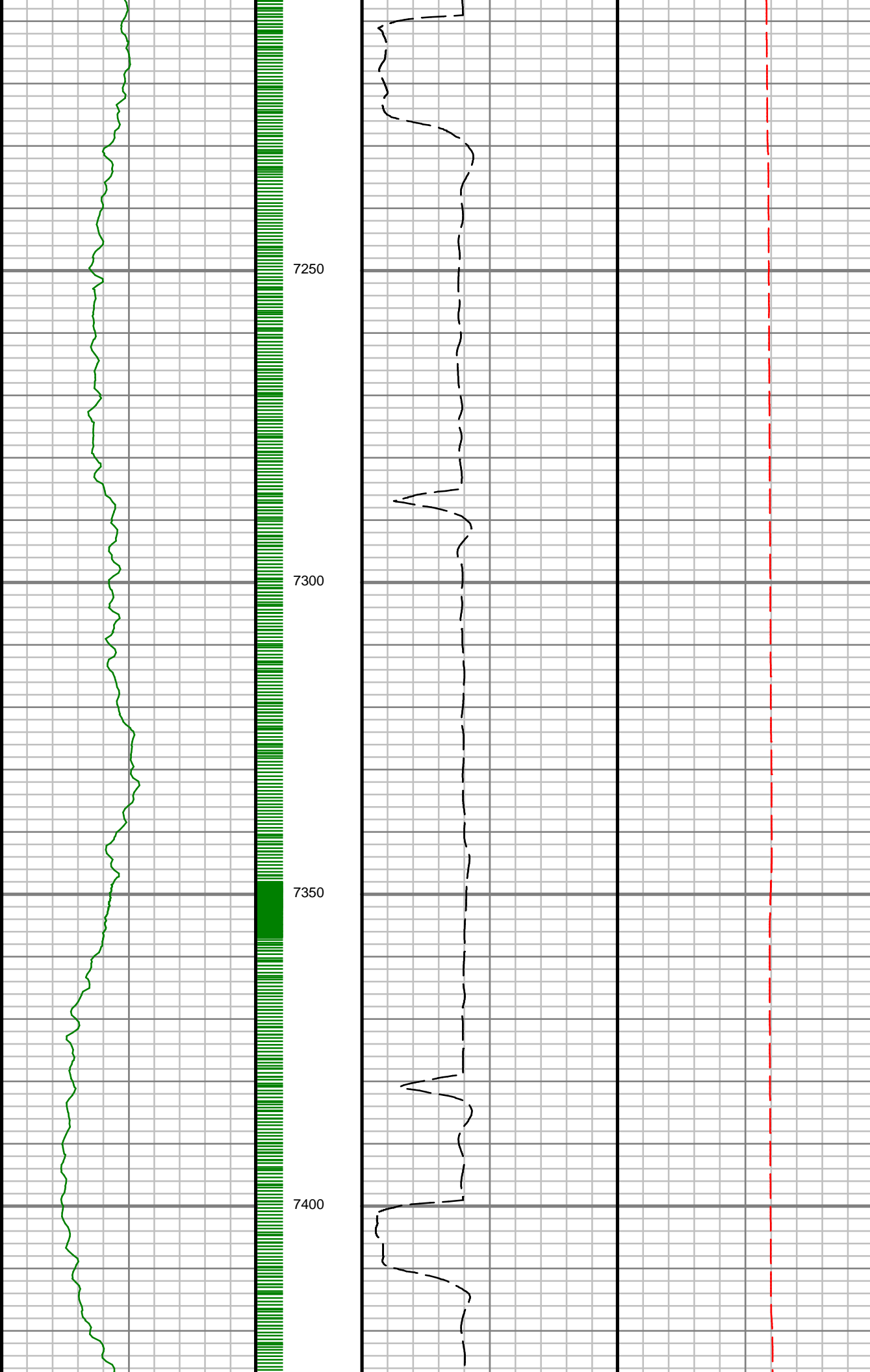
S: 72 MD: 6854.00 ft
Inc: 90.94 deg Az:
93.90 deg TVD:
6245.78 ft

S: 73 MD: 6947.00 ft
Inc: 92.18 deg Az:
94.28 deg TVD:
6243.25 ft



S: 74 MD: 7041.00 ft
Inc: 91.78 deg Az:
92.82 deg TVD:
6240.00 ft

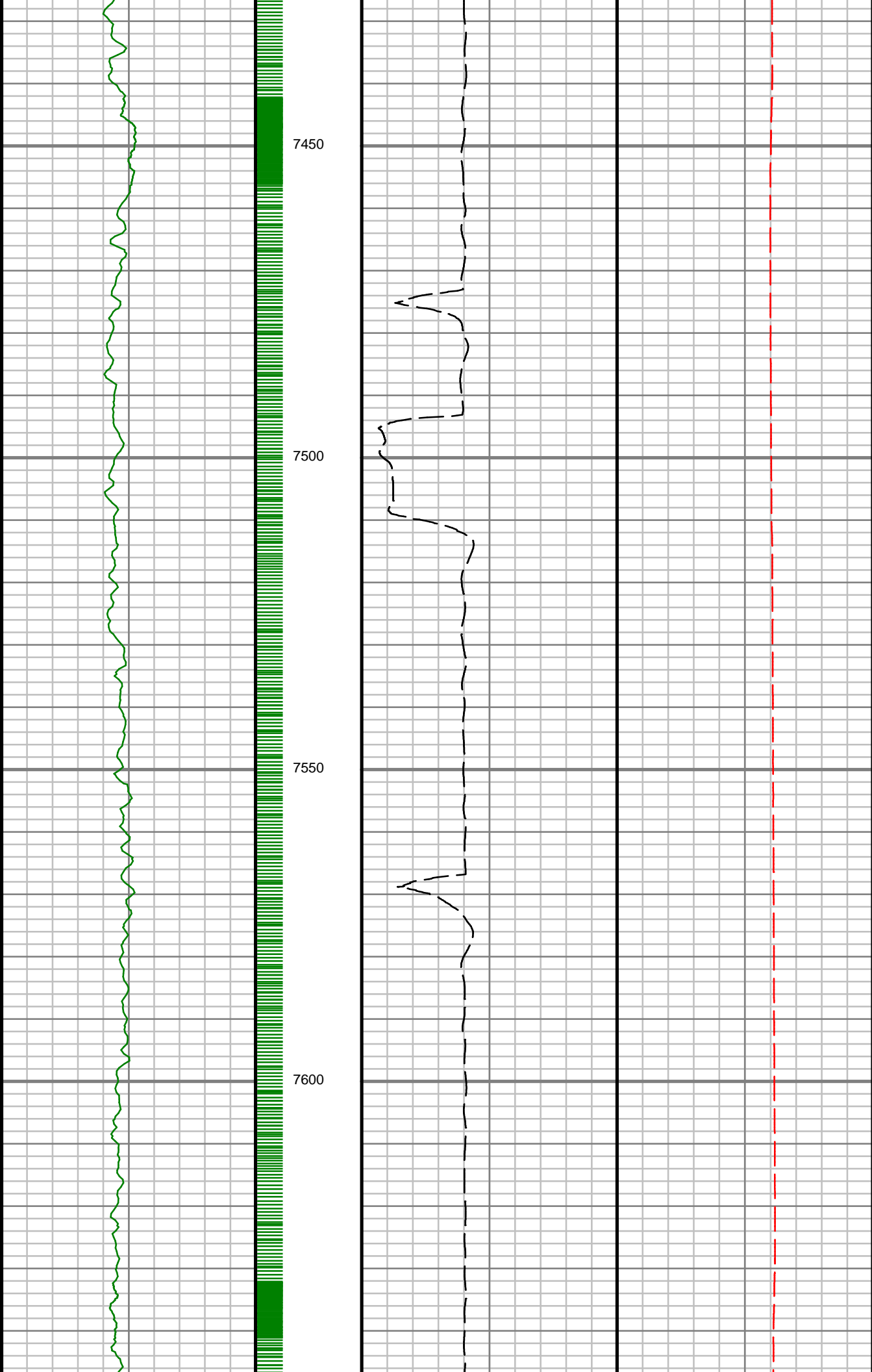
S: 75 MD: 7135.00 ft
Inc: 91.21 deg Az:
91.07 deg TVD:
6237.56 ft



S: 76 MD: 7229.00 ft
Inc: 89.09 deg Az:
90.25 deg TVD:
6237.31 ft

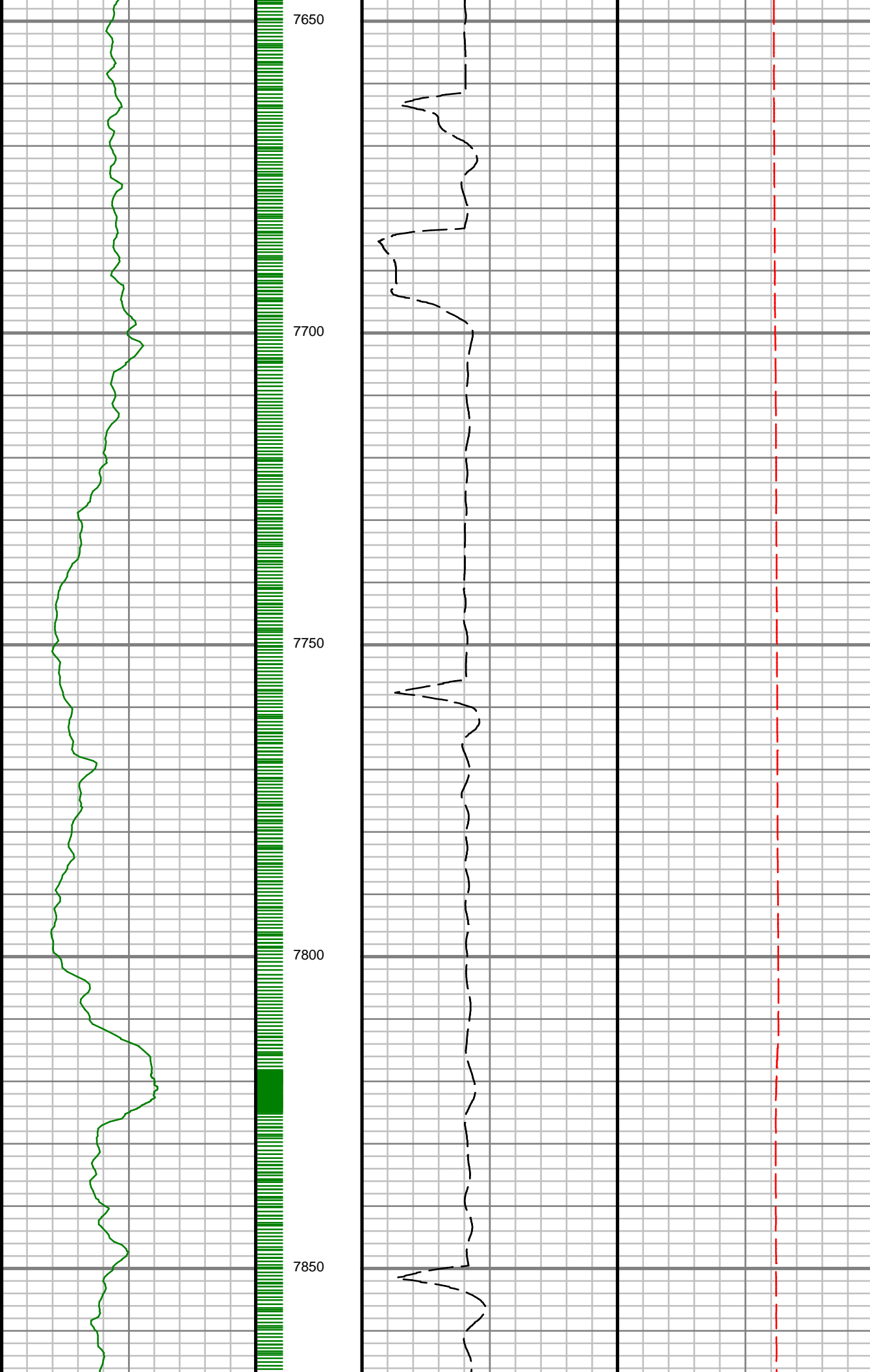
S: 77 MD: 7323.00 ft
Inc: 89.30 deg Az:
90.13 deg TVD:
6238.63 ft

S: 78 MD: 7416.00 ft
Inc: 91.81 deg Az:
90.67 deg TVD:
6237.73 ft



S: 79 MD: 7510.00 ft
Inc: 89.46 deg Az:
89.18 deg TVD:
6236.69 ft

S: 80 MD: 7605.00 ft
Inc: 90.97 deg Az:
90.71 deg TVD:
6236.33 ft



7650

7700

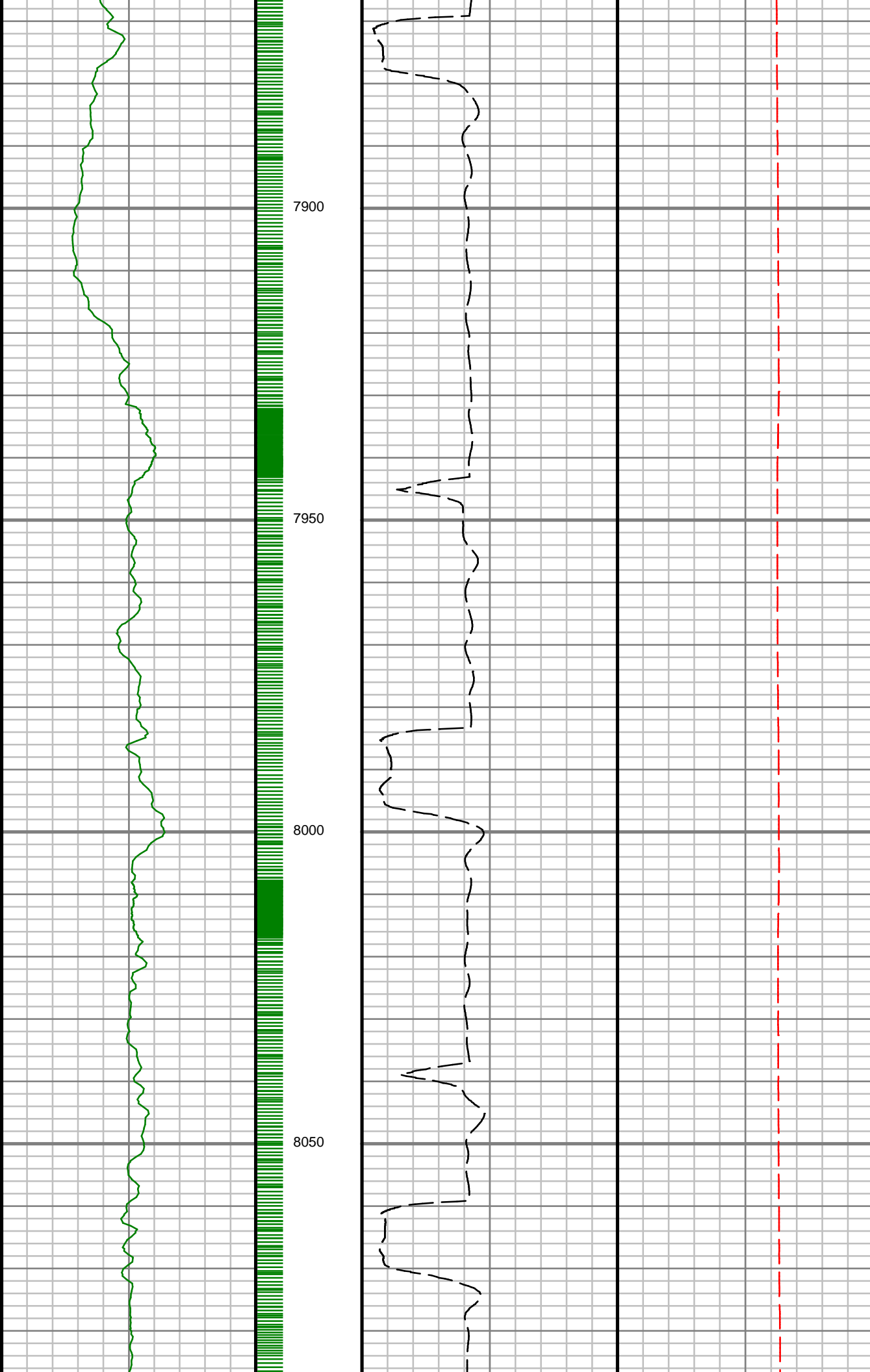
7750

7800

7850

S: 81 MD: 7699.00 ft
Inc: 88.79 deg Az:
88.64 deg TVD:
6236.52 ft

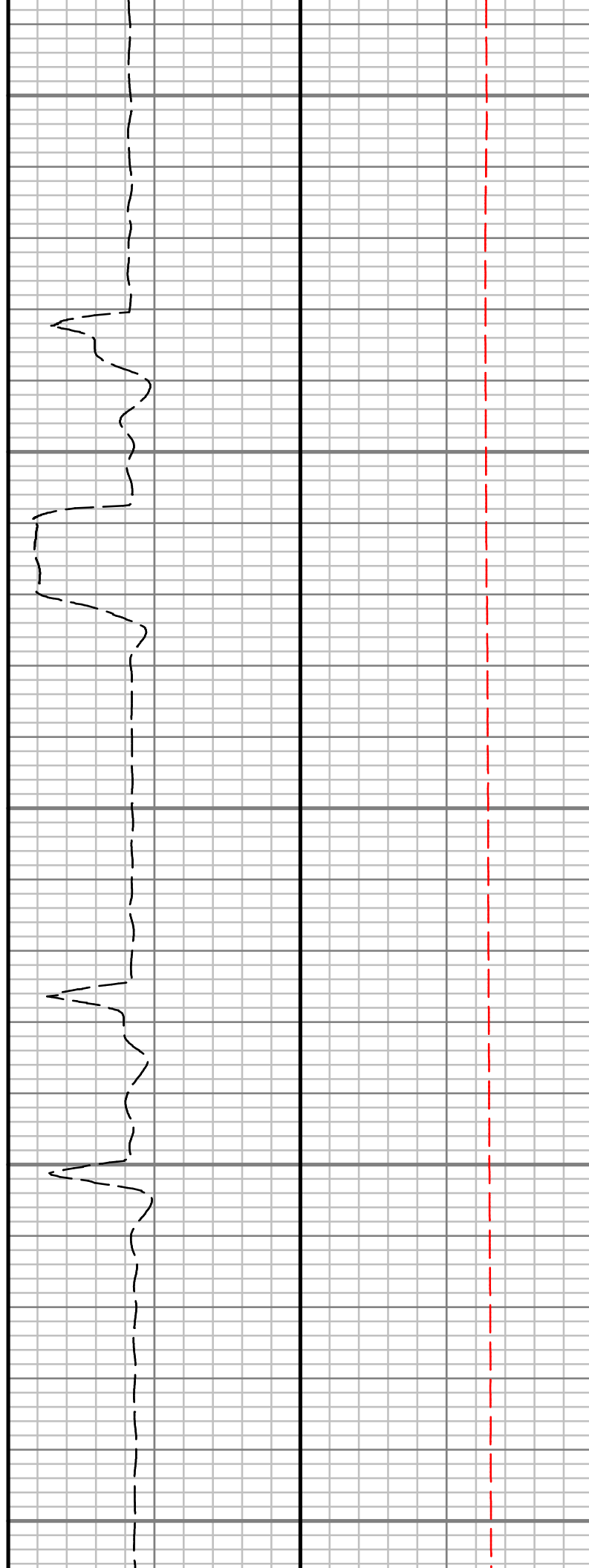
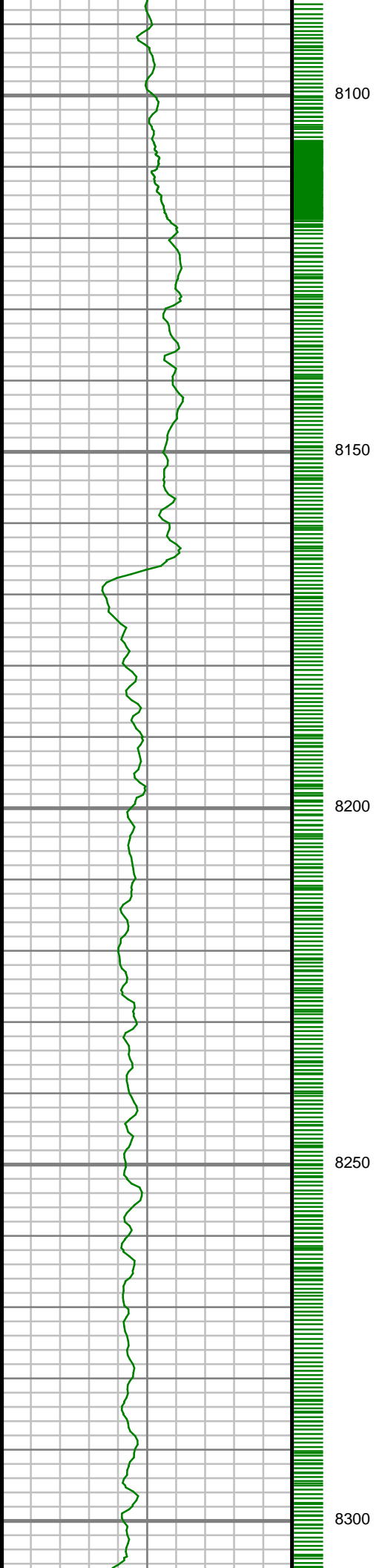
S: 82 MD: 7792.00 ft
Inc: 88.93 deg Az:
88.45 deg TVD:
6238.37 ft



S: 83 MD: 7886.00 ft
Inc: 89.50 deg Az:
87.64 deg TVD:
6239.66 ft

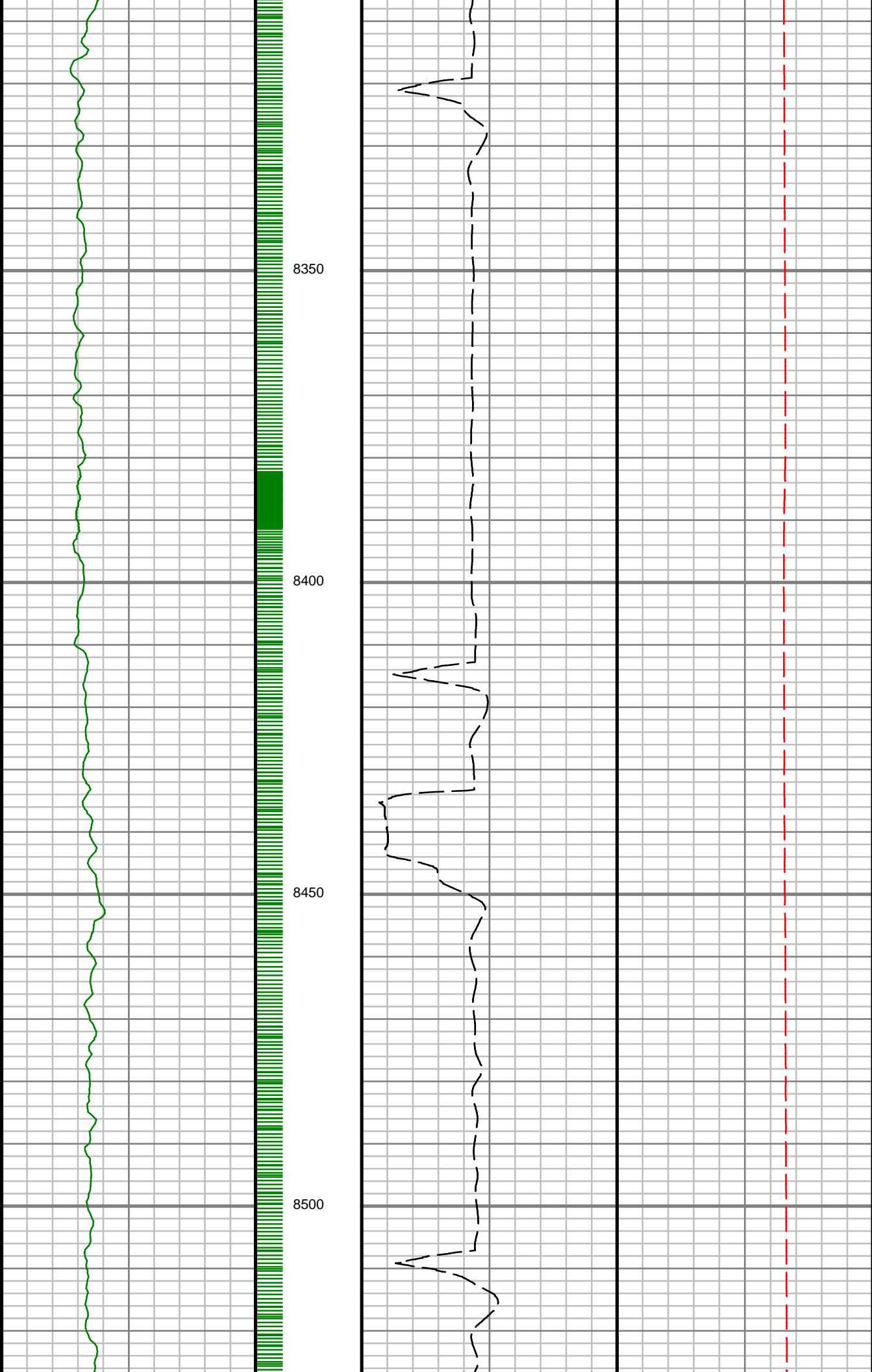
S: 84 MD: 7981.00 ft
Inc: 88.93 deg Az:
88.86 deg TVD:
6240.97 ft

S: 85 MD: 8074.00 ft
Inc: 90.57 deg Az:
88.97 deg TVD:
6241.37 ft



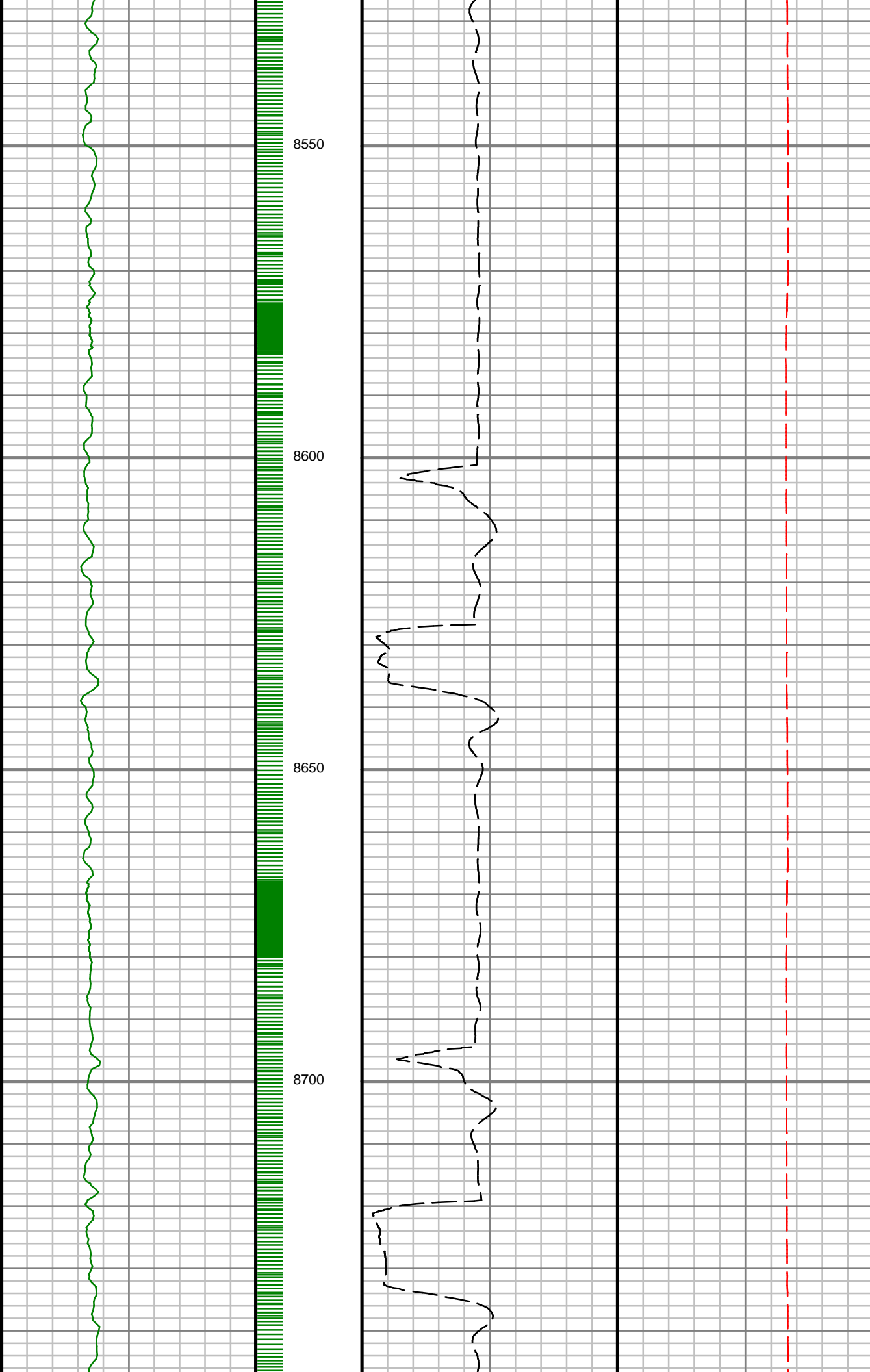
S: 86 MD: 8168.00 ft
Inc: 90.81 deg Az:
90.78 deg TVD:
6240.25 ft

S: 87 MD: 8263.00 ft
Inc: 90.91 deg Az:
91.76 deg TVD:
6238.83 ft



S: 88 MD: 8356.00 ft
Inc: 89.87 deg Az:
90.22 deg TVD:
6238.20 ft

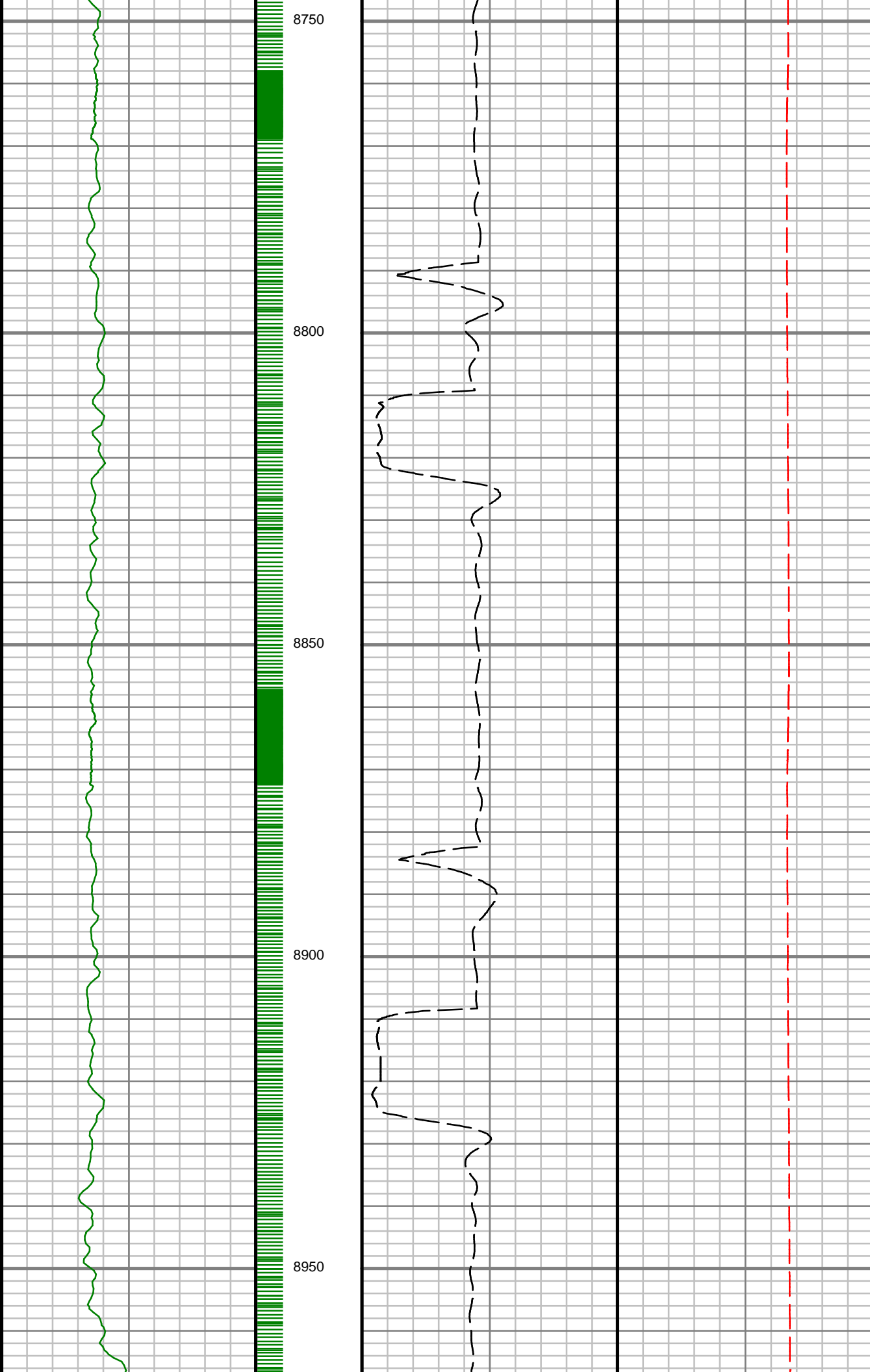
S: 89 MD: 8451.00 ft
Inc: 91.17 deg Az:
91.15 deg TVD:
6237.34 ft



S: 90 MD: 8545.00 ft
Inc: 90.47 deg Az:
92.57 deg TVD:
6235.99 ft

S: 91 MD: 8638.00 ft
Inc: 90.27 deg Az:
92.65 deg TVD:
6235.39 ft

S: 92 MD: 8729.00 ft
Inc: 90.37 deg Az:
91.61 deg TVD:
6234.89 ft



8750

8800

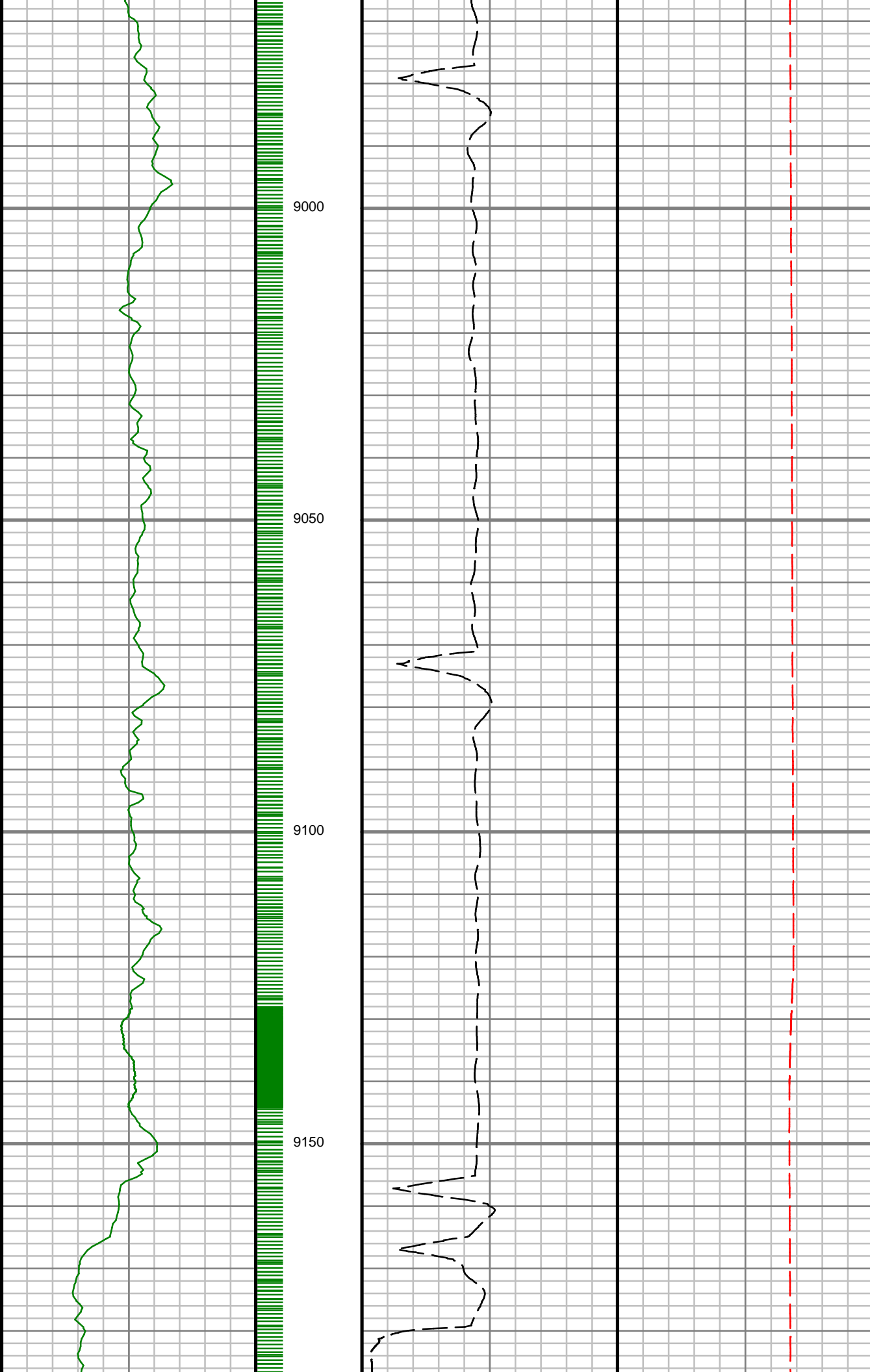
8850

8900

8950

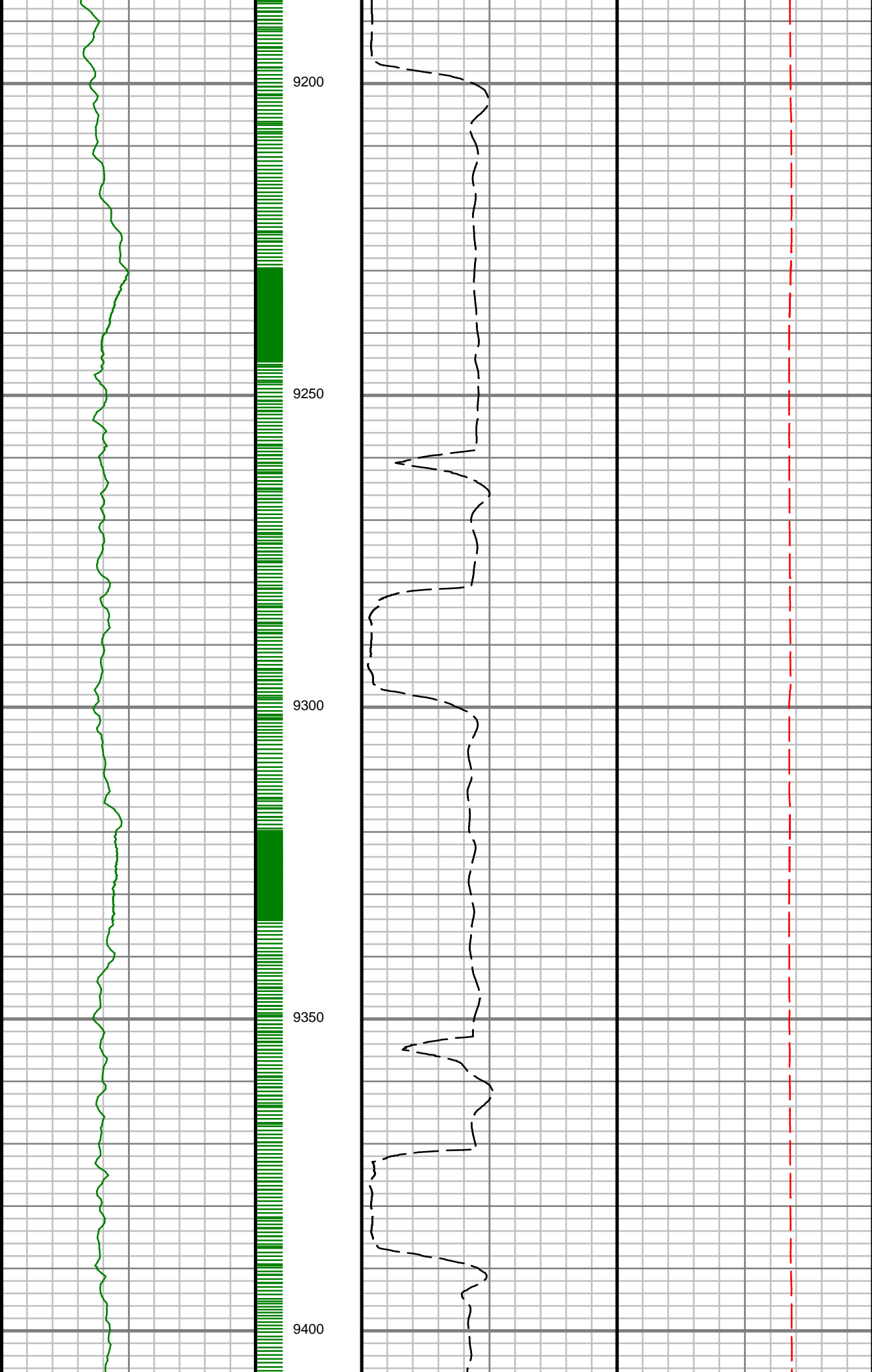
S: 93 MD: 8823.00 ft
Inc: 90.60 deg Az:
90.17 deg TVD:
6234.09 ft

S: 94 MD: 8918.00 ft
Inc: 91.41 deg Az:
88.24 deg TVD:
6232.42 ft



S: 95 MD: 9011.00 ft
Inc: 91.68 deg Az:
87.04 deg TVD:
6229.92 ft

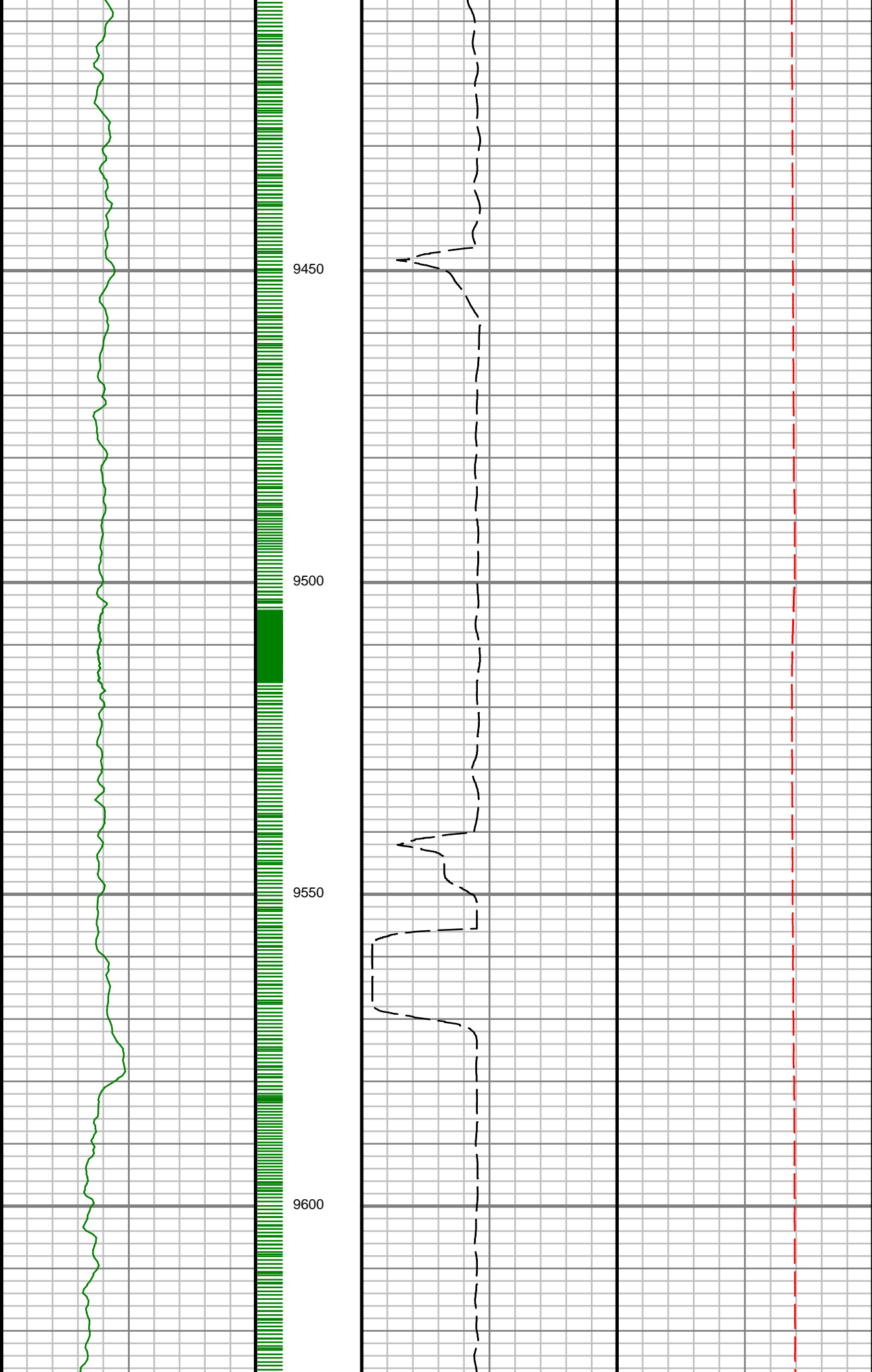
S: 96 MD: 9105.00 ft
Inc: 92.55 deg Az:
85.97 deg TVD:
6226.45 ft



S: 97 MD: 9199.00 ft
Inc: 91.68 deg Az:
87.64 deg TVD:
6222.99 ft

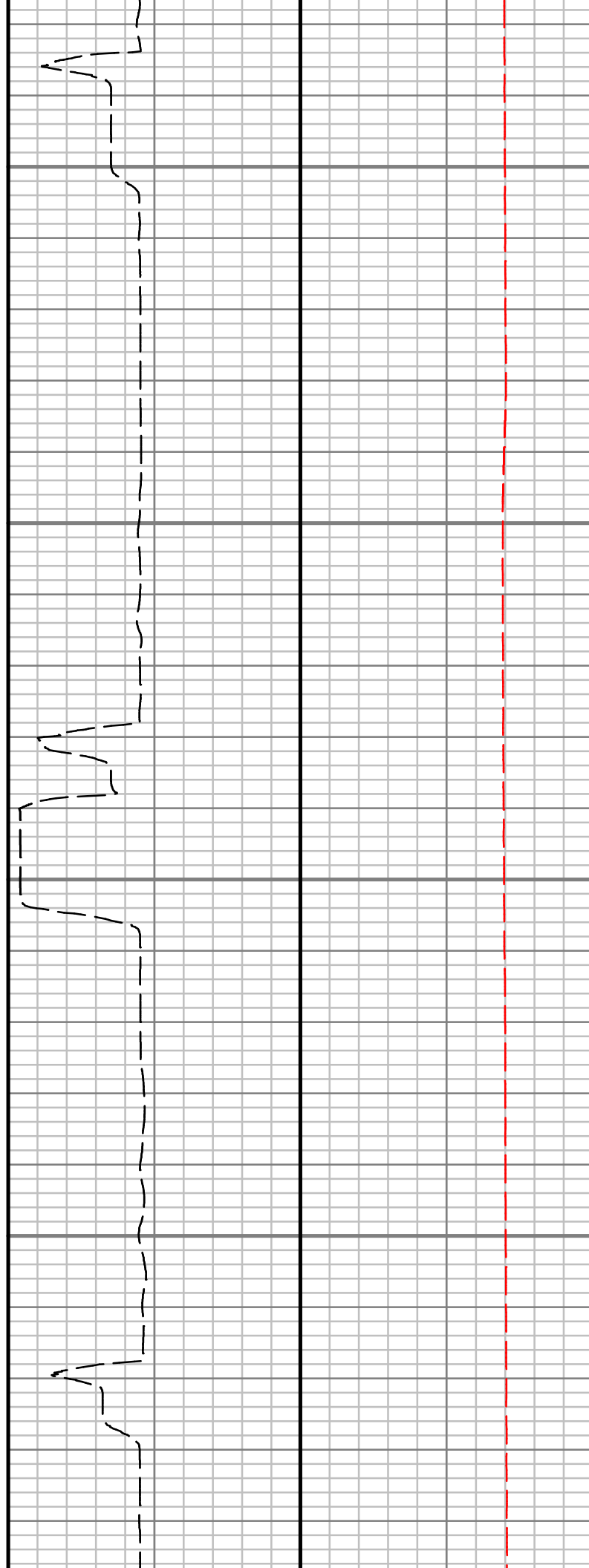
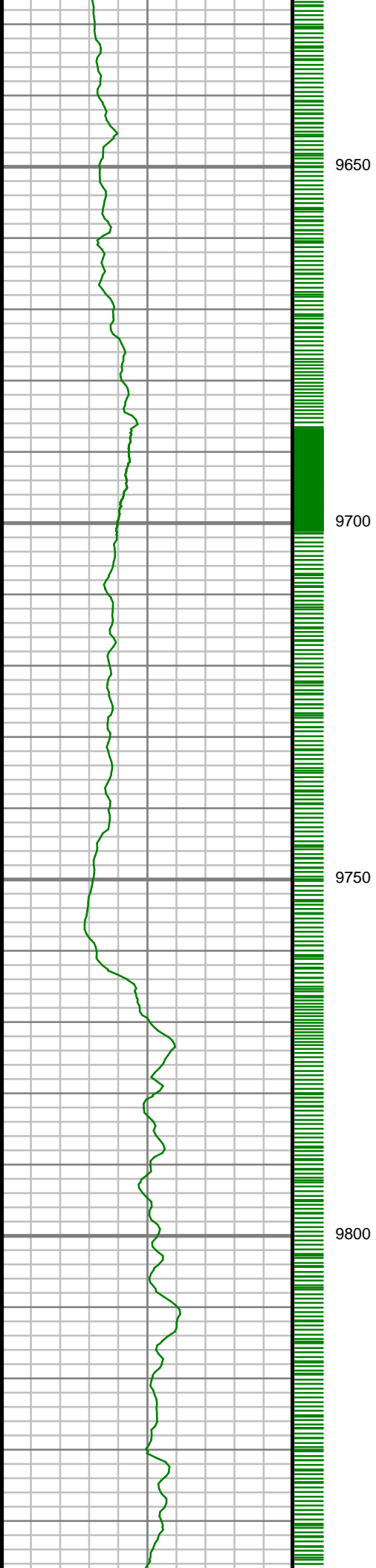
S: 98 MD: 9293.00 ft
Inc: 89.46 deg Az:
88.82 deg TVD:
6222.05 ft

S: 99 MD: 9387.00 ft
Inc: 90.77 deg Az:
91.44 deg TVD:
6221.86 ft



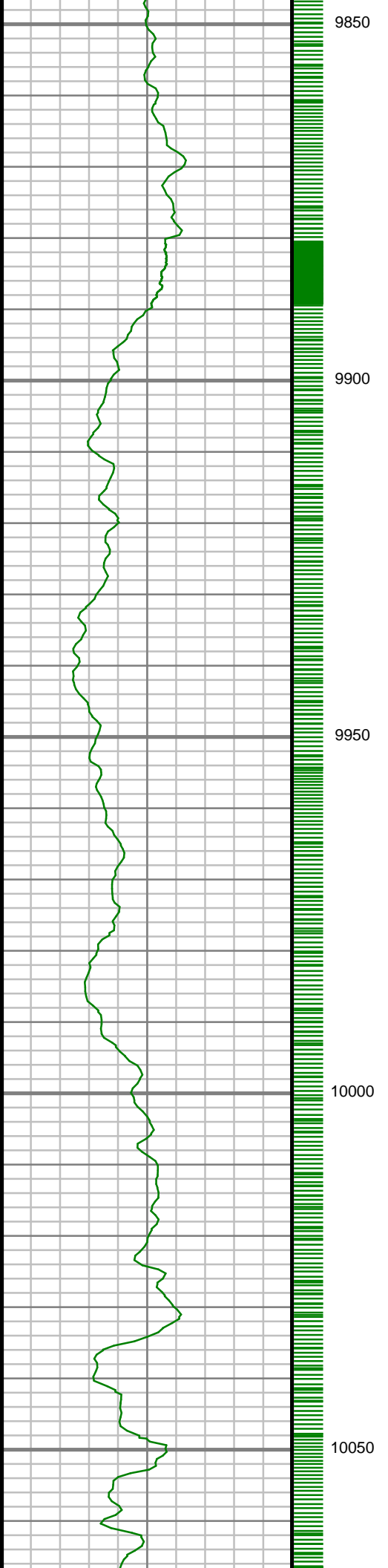
S: 100 MD: 9480.00 ft
Inc: 91.84 deg Az:
91.67 deg TVD:
6219.74 ft

S: 101 MD: 9574.00 ft
Inc: 90.94 deg Az:
91.26 deg TVD:
6217.46 ft



S: 102 MD: 9668.00 ft
Inc: 92.38 deg Az:
91.27 deg TVD:
6214.74 ft

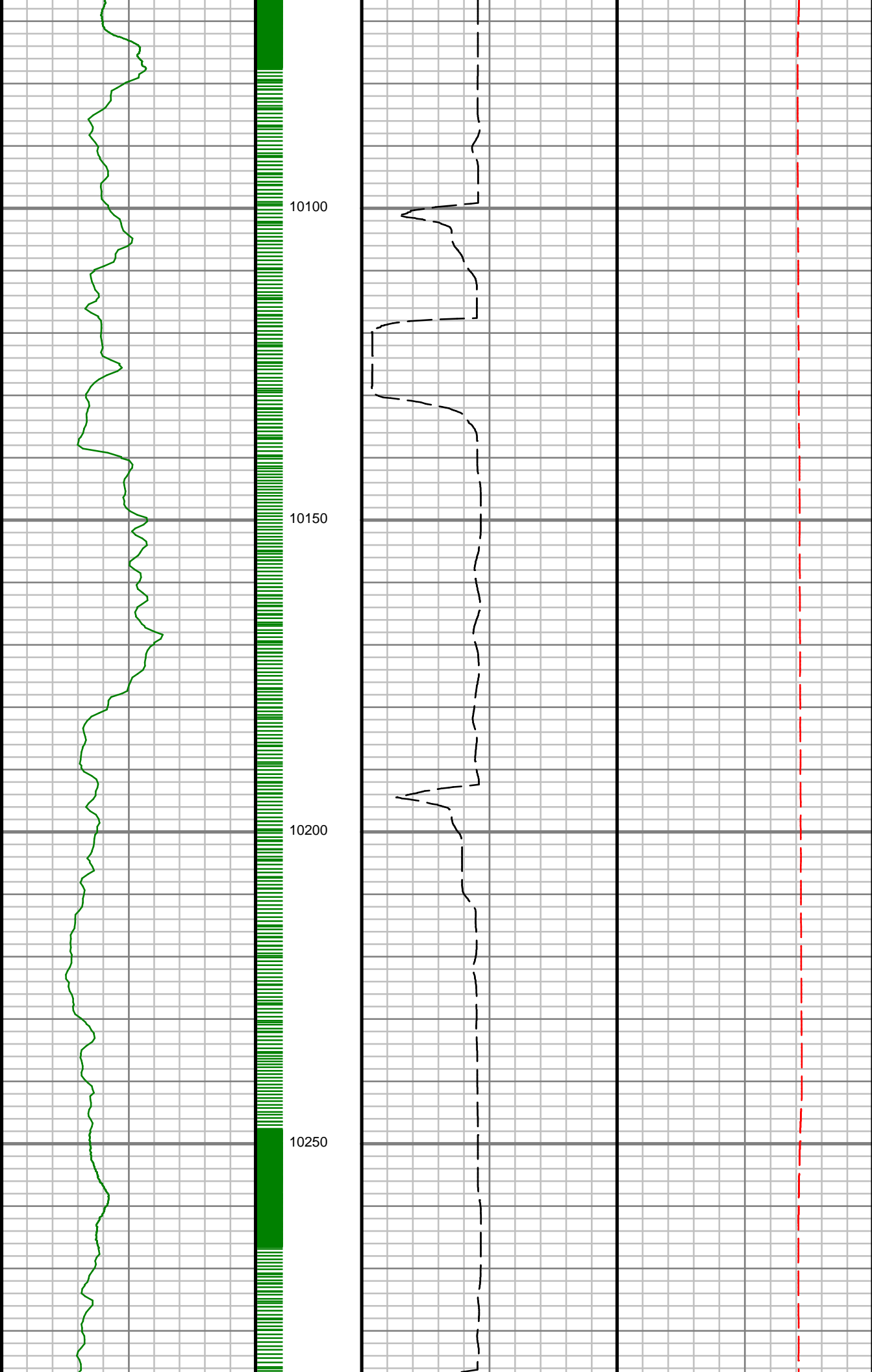
S: 103 MD: 9762.00 ft
Inc: 89.56 deg Az:
90.03 deg TVD:
6213.14 ft



S: 104 MD: 9856.00 ft
Inc: 89.33 deg Az:
89.91 deg TVD:
6214.05 ft

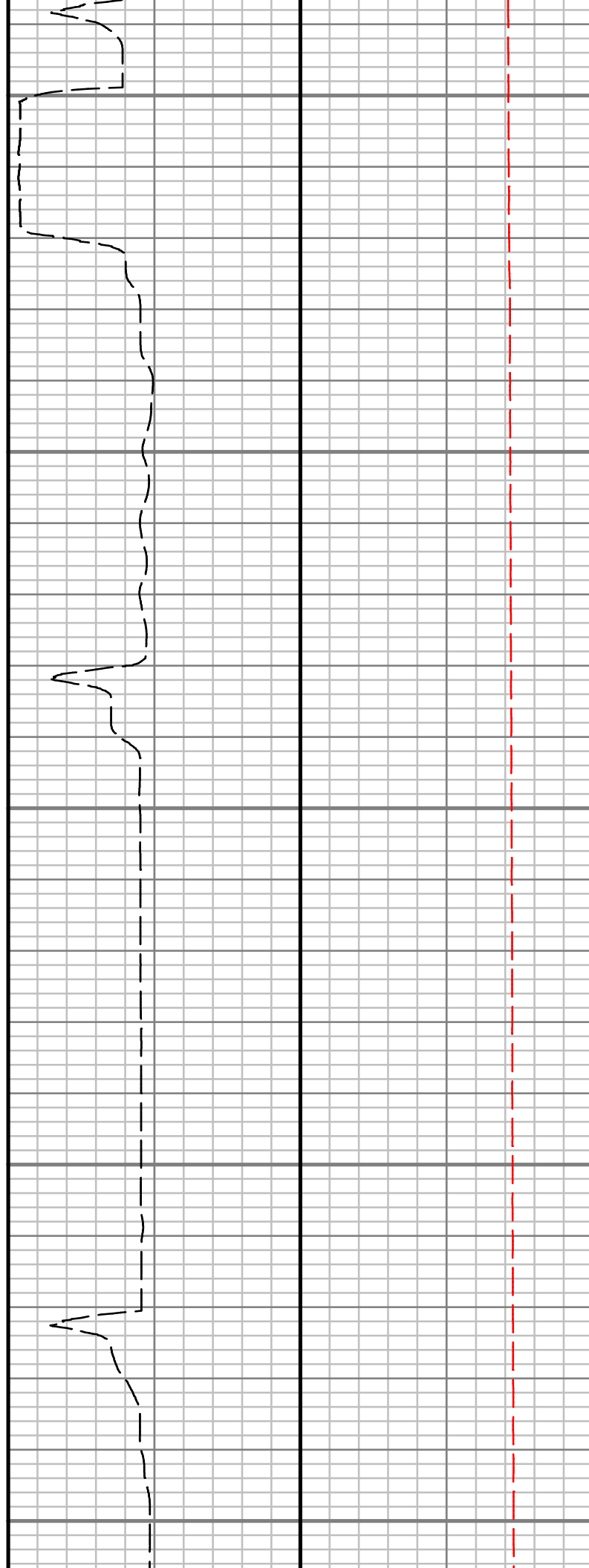
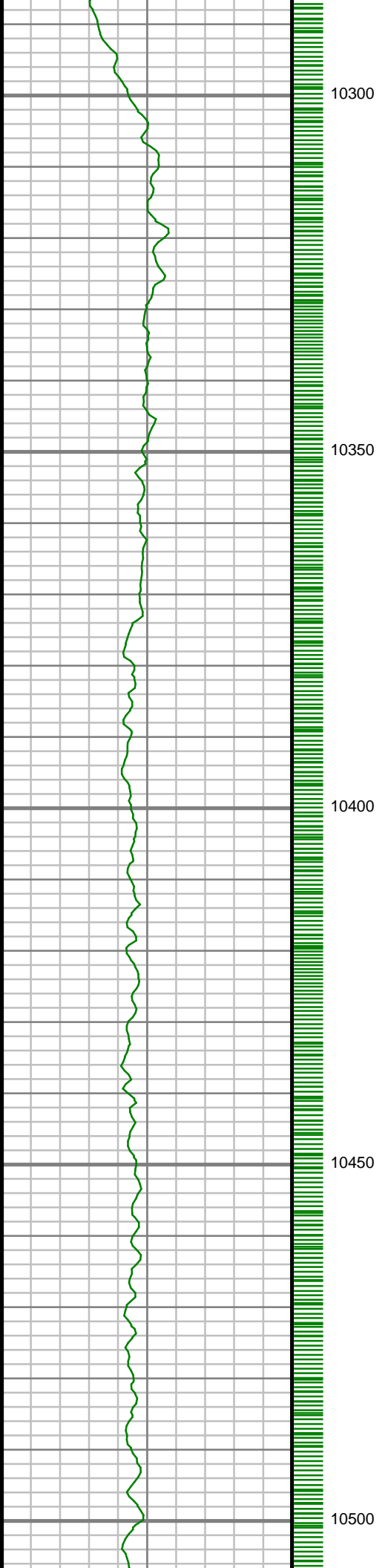
S: 105 MD: 9949.00 ft
Inc: 90.17 deg Az:
89.54 deg TVD:
6214.46 ft

S: 106 MD: 10043.00 ft
Inc: 89.80 deg Az:
88.53 deg TVD:
6214.48 ft



S: 107 MD: 10136.00 ft
Inc: 90.10 deg Az:
89.16 deg TVD:
6214.56 ft

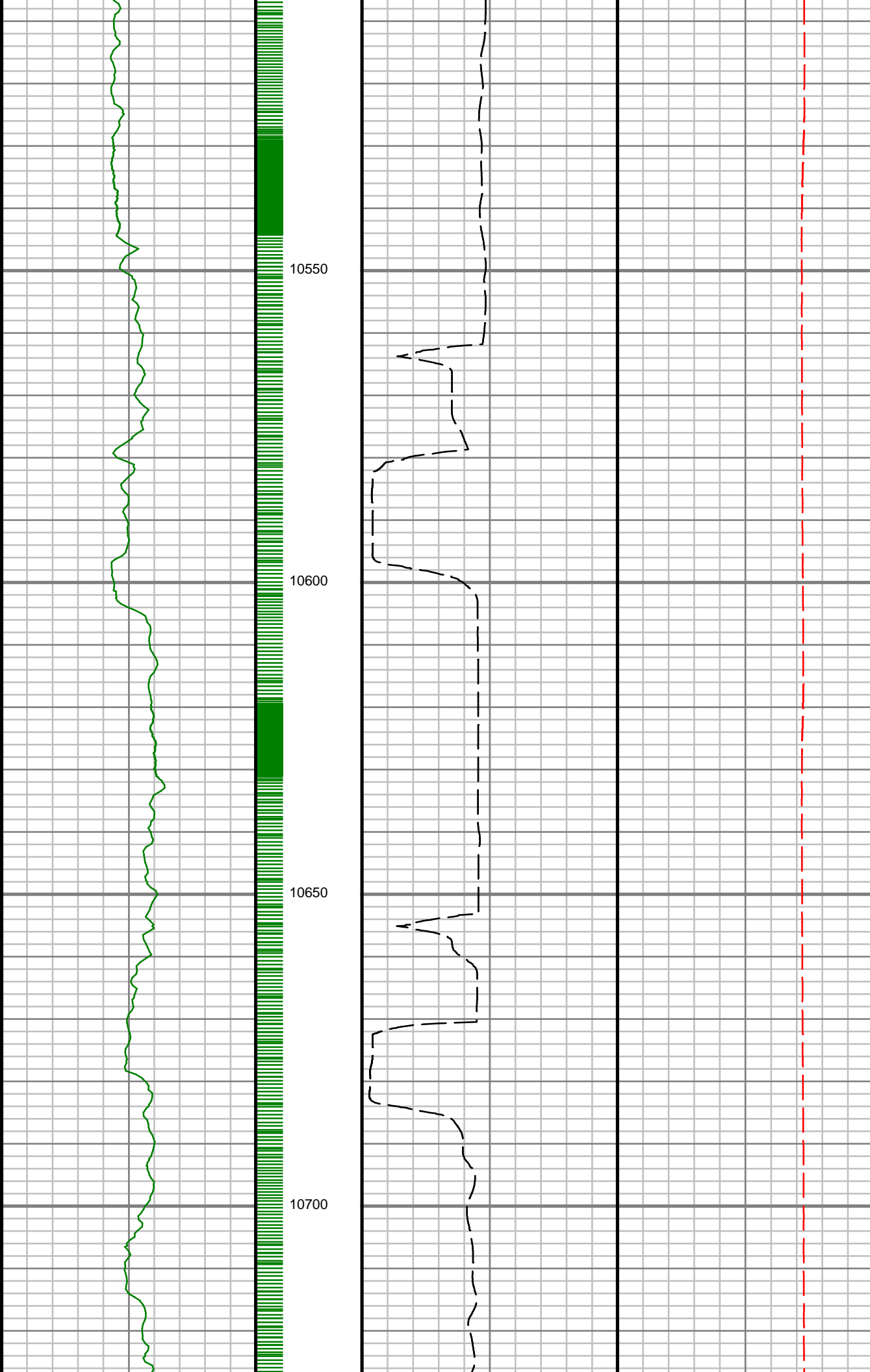
S: 108 MD: 10230.00 ft
Inc: 89.63 deg Az:
87.82 deg TVD:
6214.79 ft



S: 109 MD: 10324.00 ft
Inc: 90.67 deg Az:
89.94 deg TVD:
6214.54 ft

S: 110 MD: 10415.00 ft
Inc: 91.21 deg Az:
89.46 deg TVD:
6213.05 ft

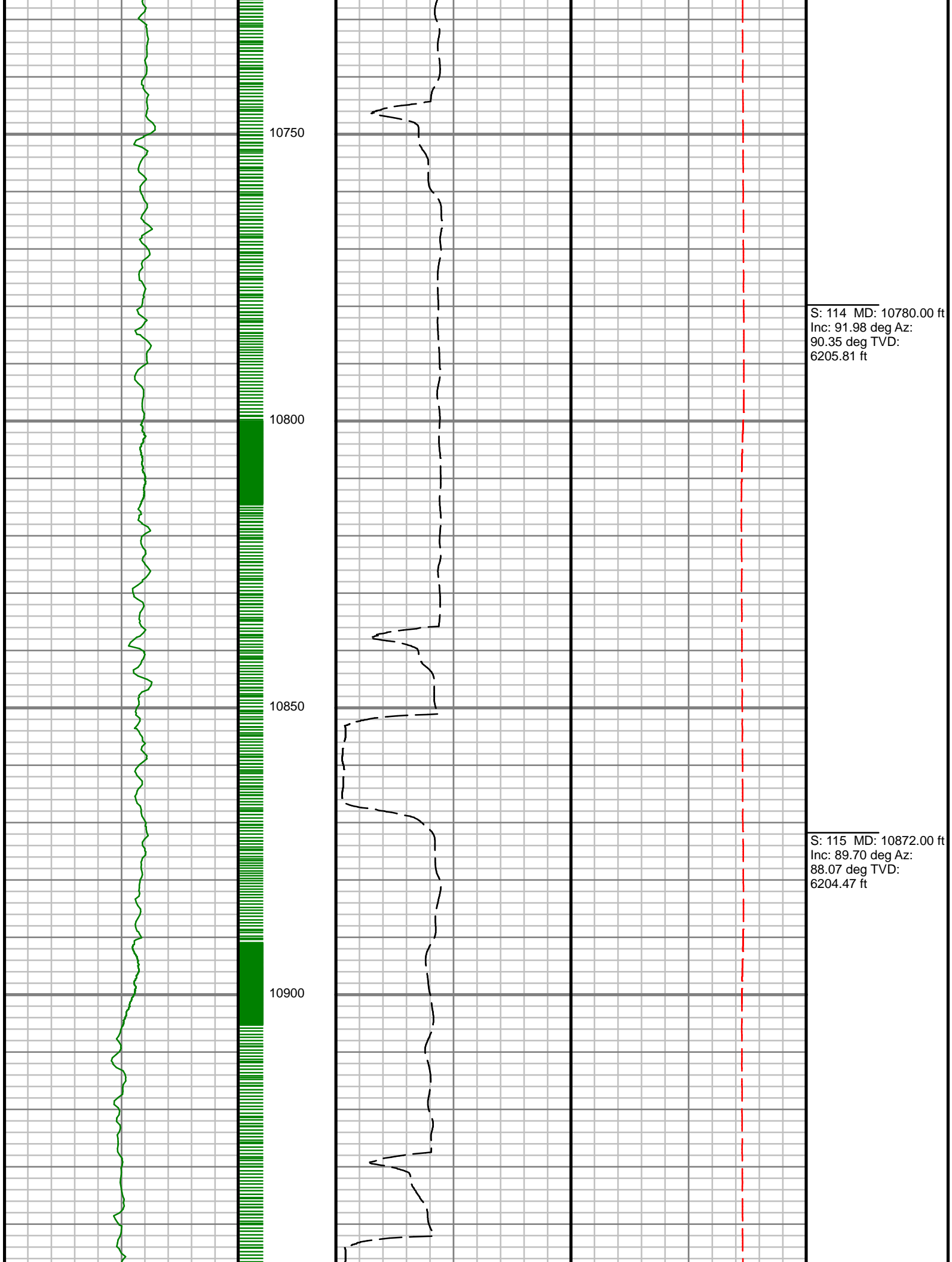
S: 111 MD: 10500.00 ft

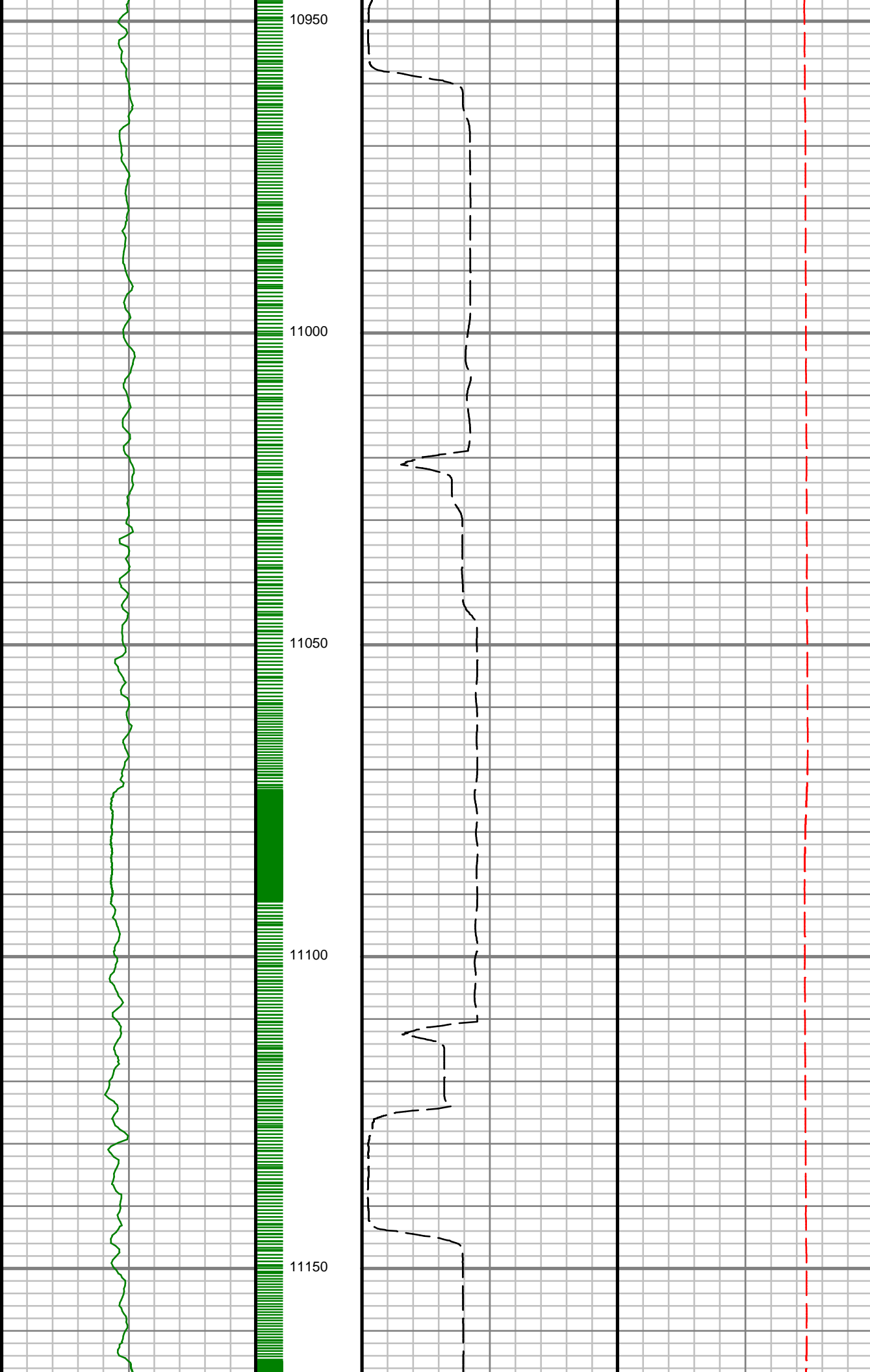


S: 111 MD: 10506.00 ft
Inc: 91.68 deg Az:
88.87 deg TVD:
6210.76 ft

S: 112 MD: 10598.00 ft
Inc: 90.54 deg Az:
87.77 deg TVD:
6208.98 ft

S: 113 MD: 10689.00 ft
Inc: 90.74 deg Az:
90.08 deg TVD:
6207.97 ft

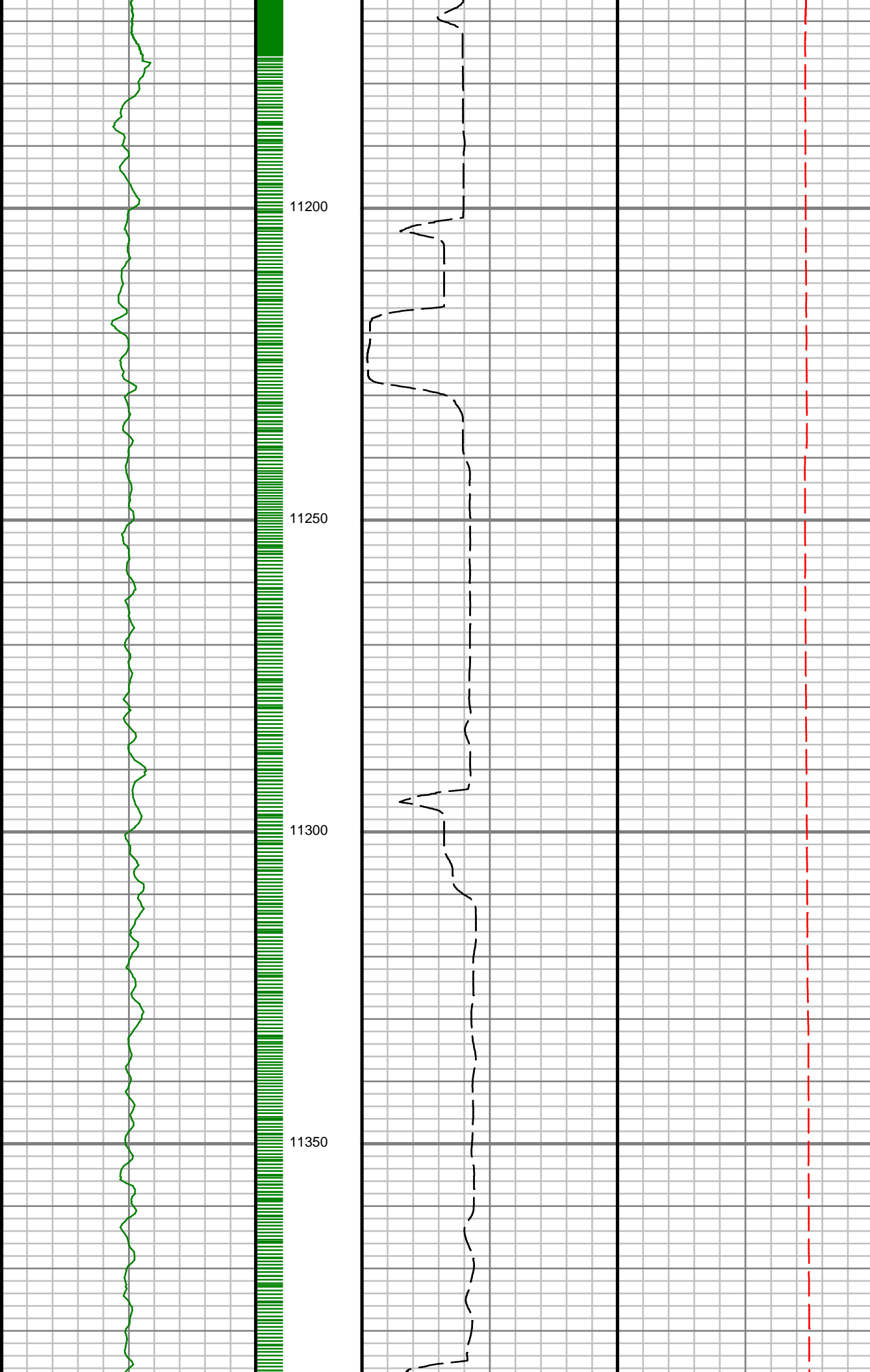




S: 116 MD: 10963.00 ft
Inc: 91.51 deg Az:
90.02 deg TVD:
6203.51 ft

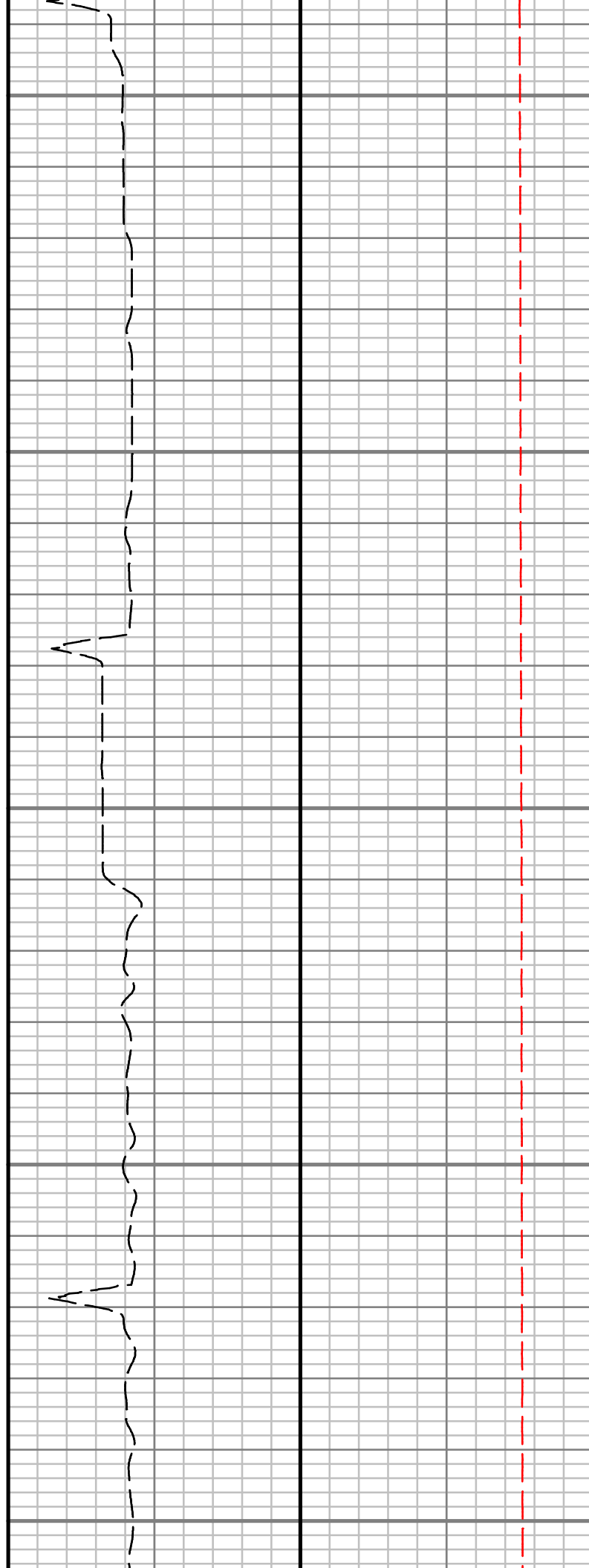
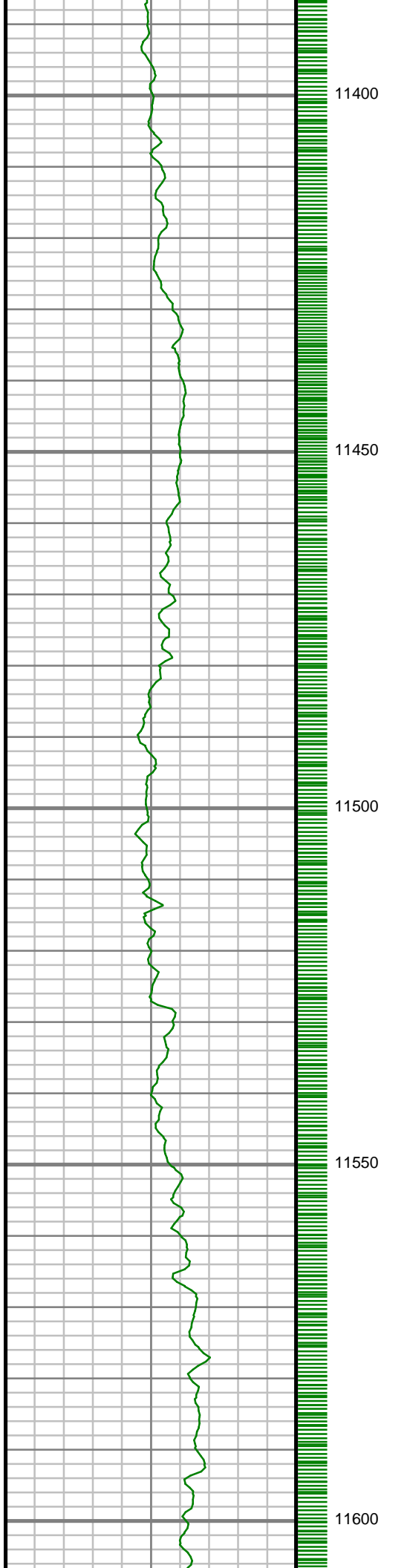
S: 117 MD: 11054.00 ft
Inc: 91.61 deg Az:
87.88 deg TVD:
6201.04 ft

S: 118 MD: 11146.00 ft
Inc: 91.71 deg Az:
89.71 deg TVD:
6198.37 ft



S: 119 MD: 11237.00 ft
Inc: 91.14 deg Az:
92.09 deg TVD:
6196.11 ft

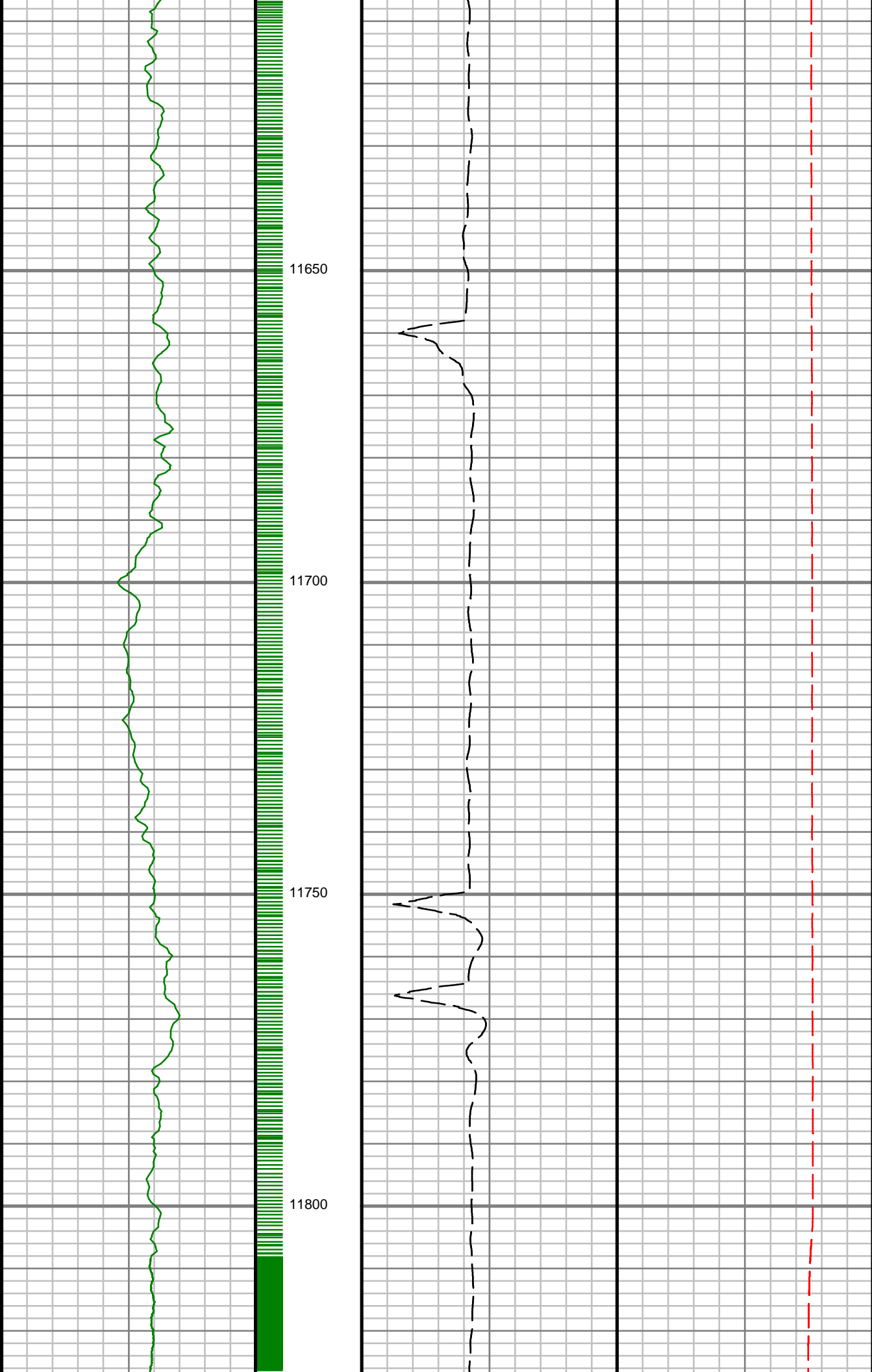
S: 120 MD: 11328.00 ft
Inc: 90.60 deg Az:
90.70 deg TVD:
6194.73 ft



S: 121 MD: 11420.00 ft
Inc: 90.50 deg Az:
89.28 deg TVD:
6193.84 ft

S: 122 MD: 11511.00 ft
Inc: 90.77 deg Az:
88.80 deg TVD:
6192.83 ft

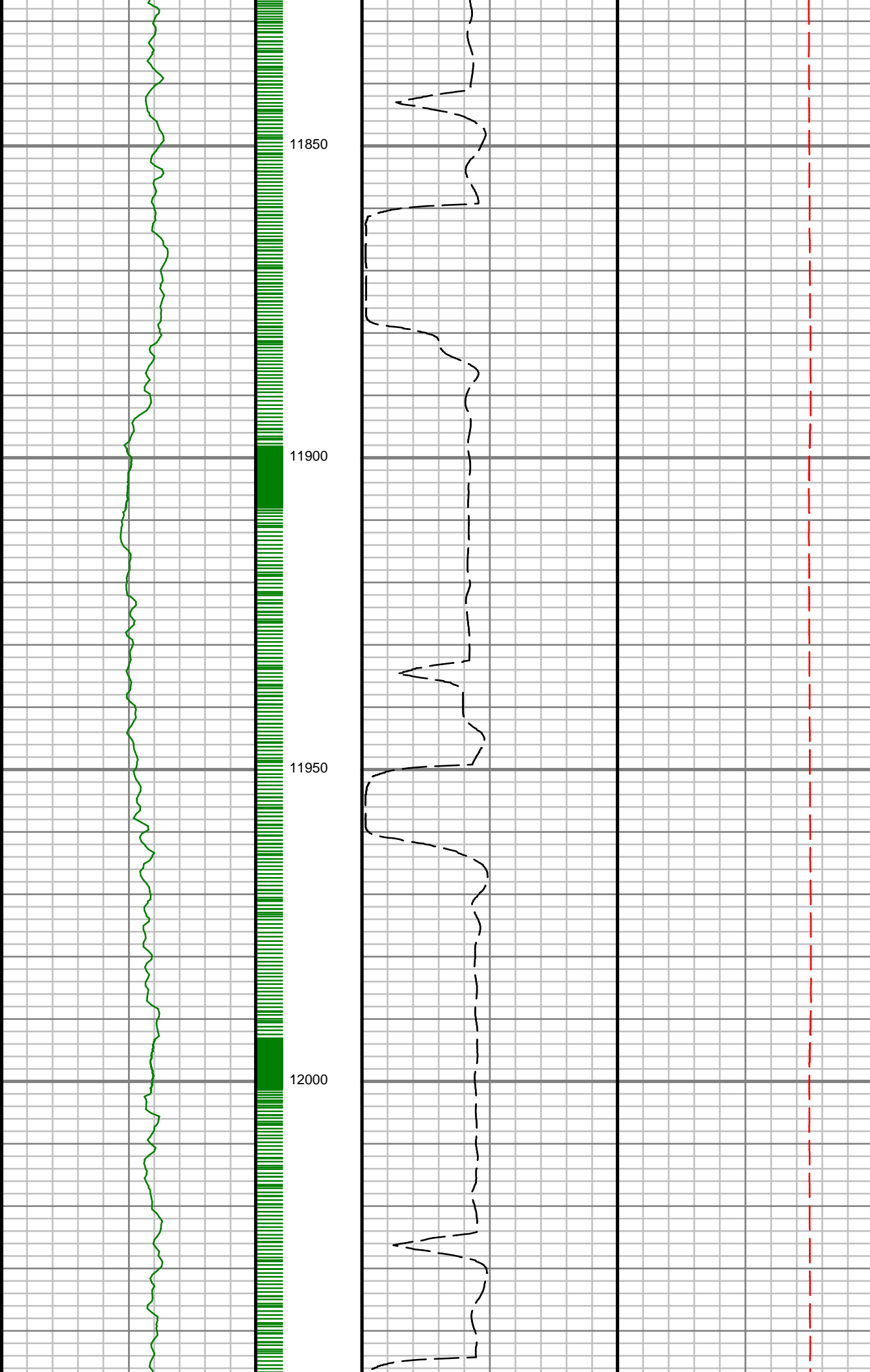
S: 123 MD: 11602.00 ft
Inc: 90.94 deg Az:



88.05 deg TVD:
6191.47 ft

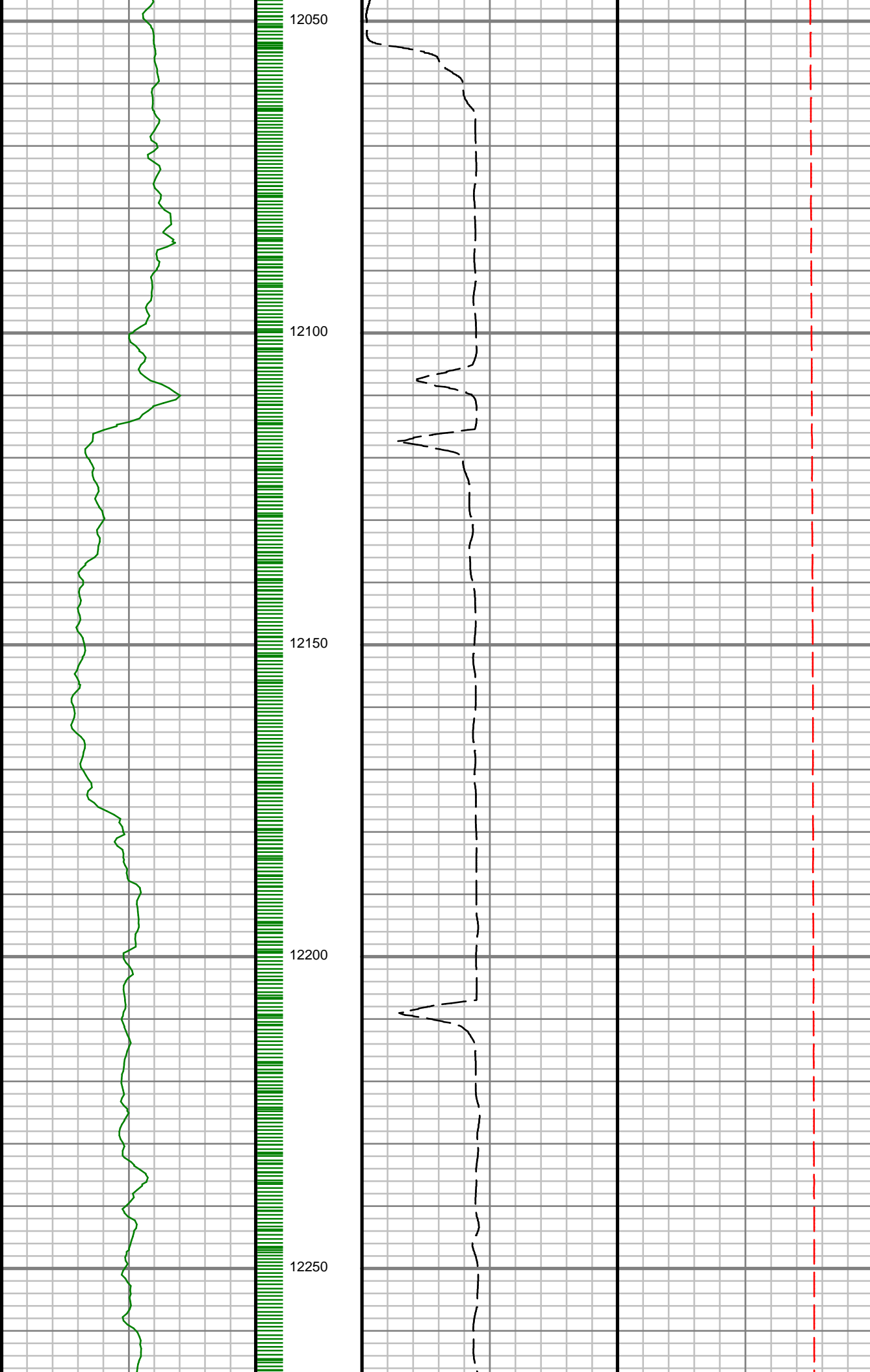
S: 124 MD: 11694.00 ft
Inc: 91.07 deg Az:
88.11 deg TVD:
6189.86 ft

S: 125 MD: 11785.00 ft
Inc: 91.14 deg Az:
86.53 deg TVD:
6188.10 ft



S: 126 MD: 11877.00 ft
Inc: 90.57 deg Az:
88.49 deg TVD:
6186.73 ft

S: 127 MD: 11968.00 ft
Inc: 91.88 deg Az:
90.48 deg TVD:
6184.78 ft



S: 128 MD: 12059.00 ft
Inc: 90.50 deg Az:
92.26 deg TVD:
6182.89 ft

S: 129 MD: 12150.00 ft
Inc: 90.70 deg Az:
91.60 deg TVD:
6181.94 ft

S: 130 MD: 12242.00 ft
Inc: 90.17 deg Az:
90.67 deg TVD:
6181.24 ft

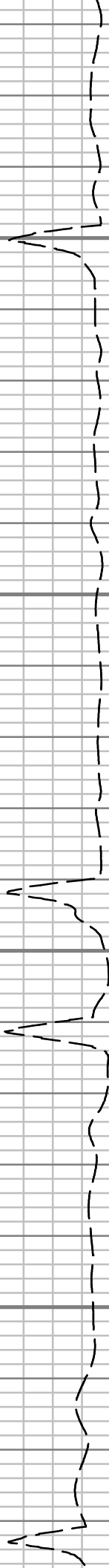


12300

12350

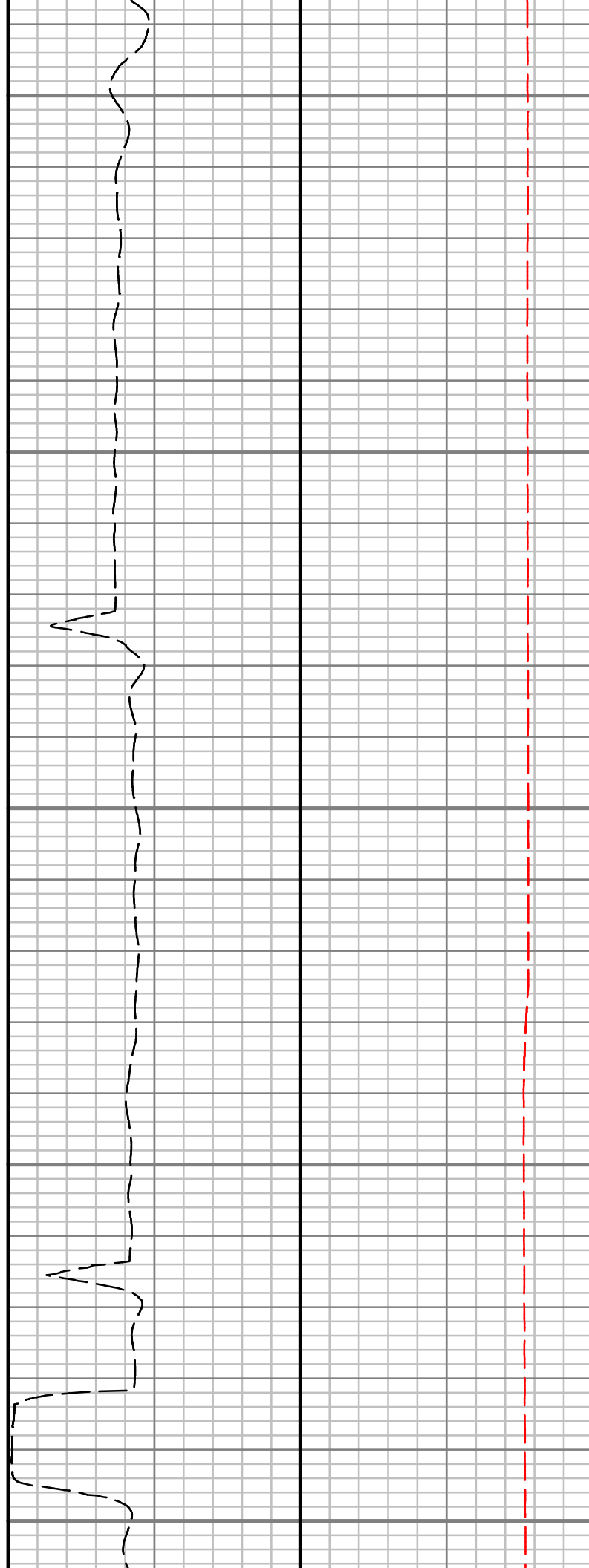
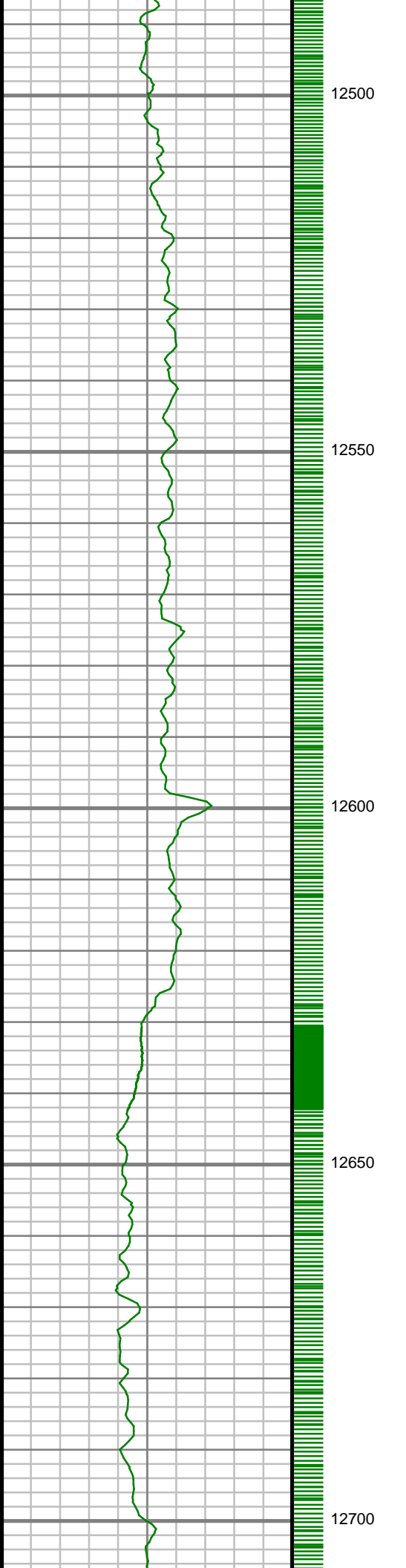
12400

12450



S: 131 MD: 12333.00 ft
Inc: 89.87 deg Az:
90.76 deg TVD:
6181.21 ft

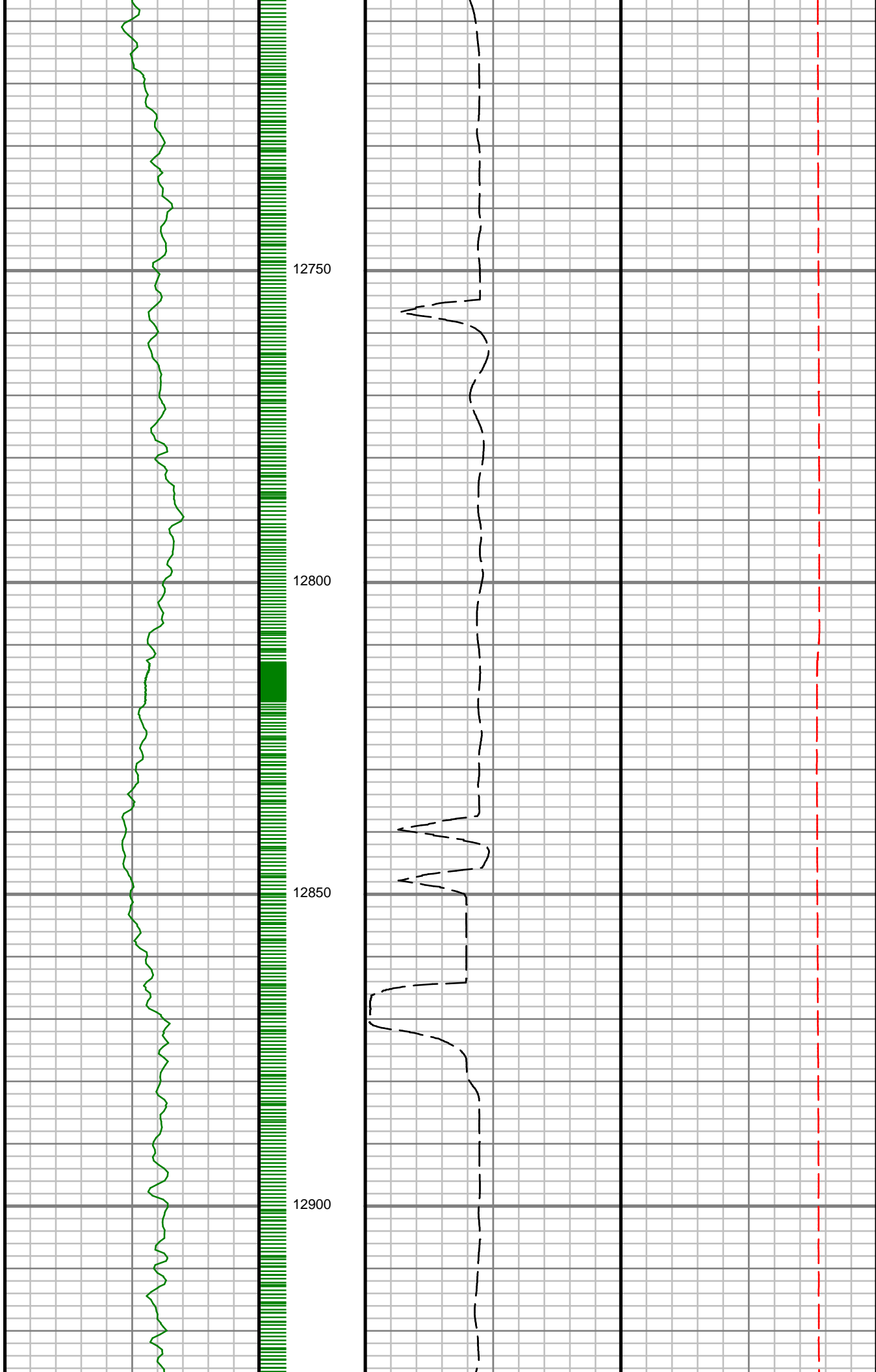
S: 132 MD: 12424.00 ft
Inc: 90.23 deg Az:
90.47 deg TVD:
6181.13 ft



S: 133 MD: 12515.00 ft
Inc: 90.64 deg Az:
90.06 deg TVD:
6180.44 ft

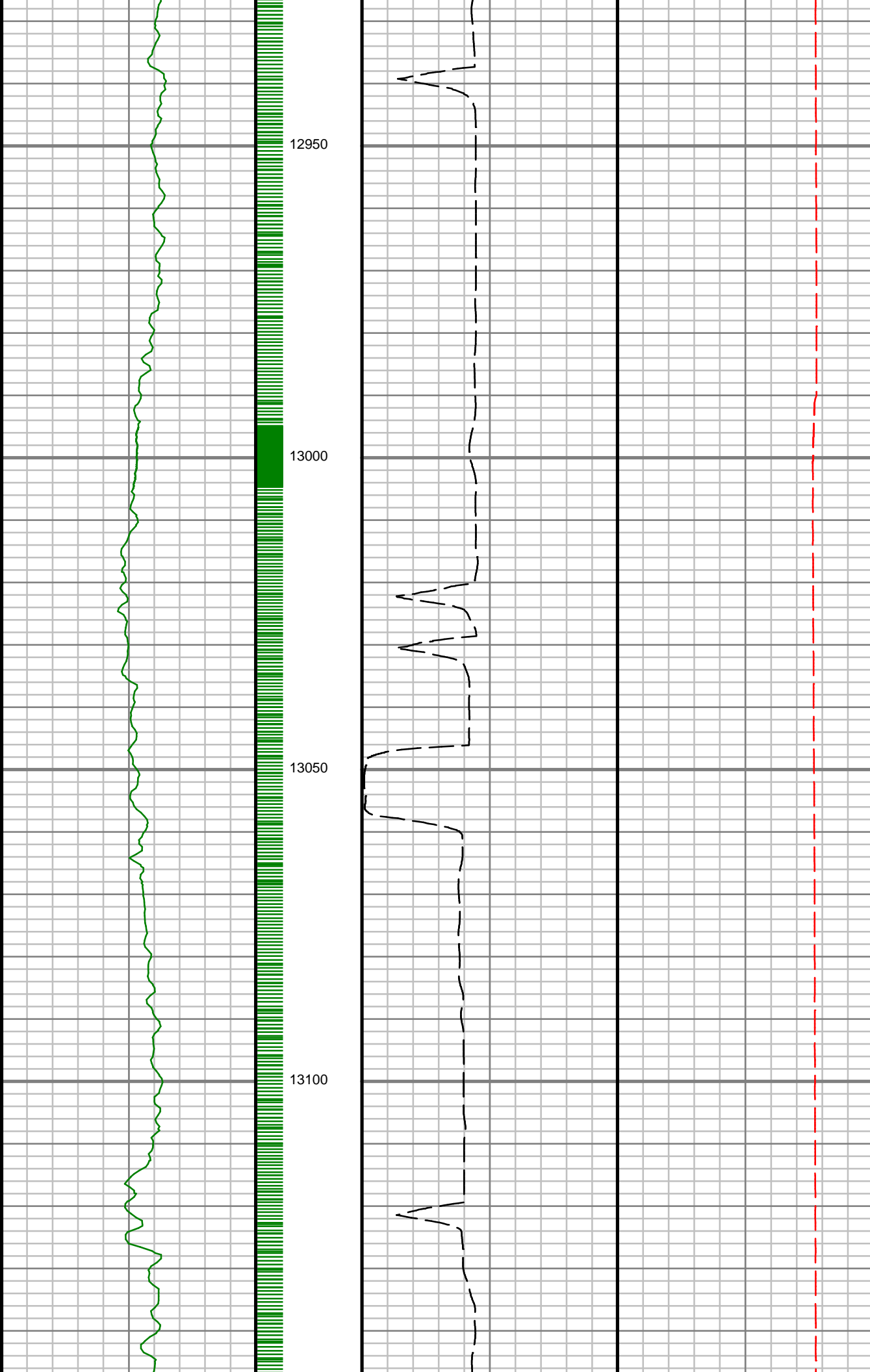
S: 134 MD: 12606.00 ft
Inc: 90.67 deg Az:
88.39 deg TVD:
6179.40 ft

S: 135 MD: 12697.00 ft
Inc: 91.01 deg Az:
90.67 deg TVD:
6178.07 ft



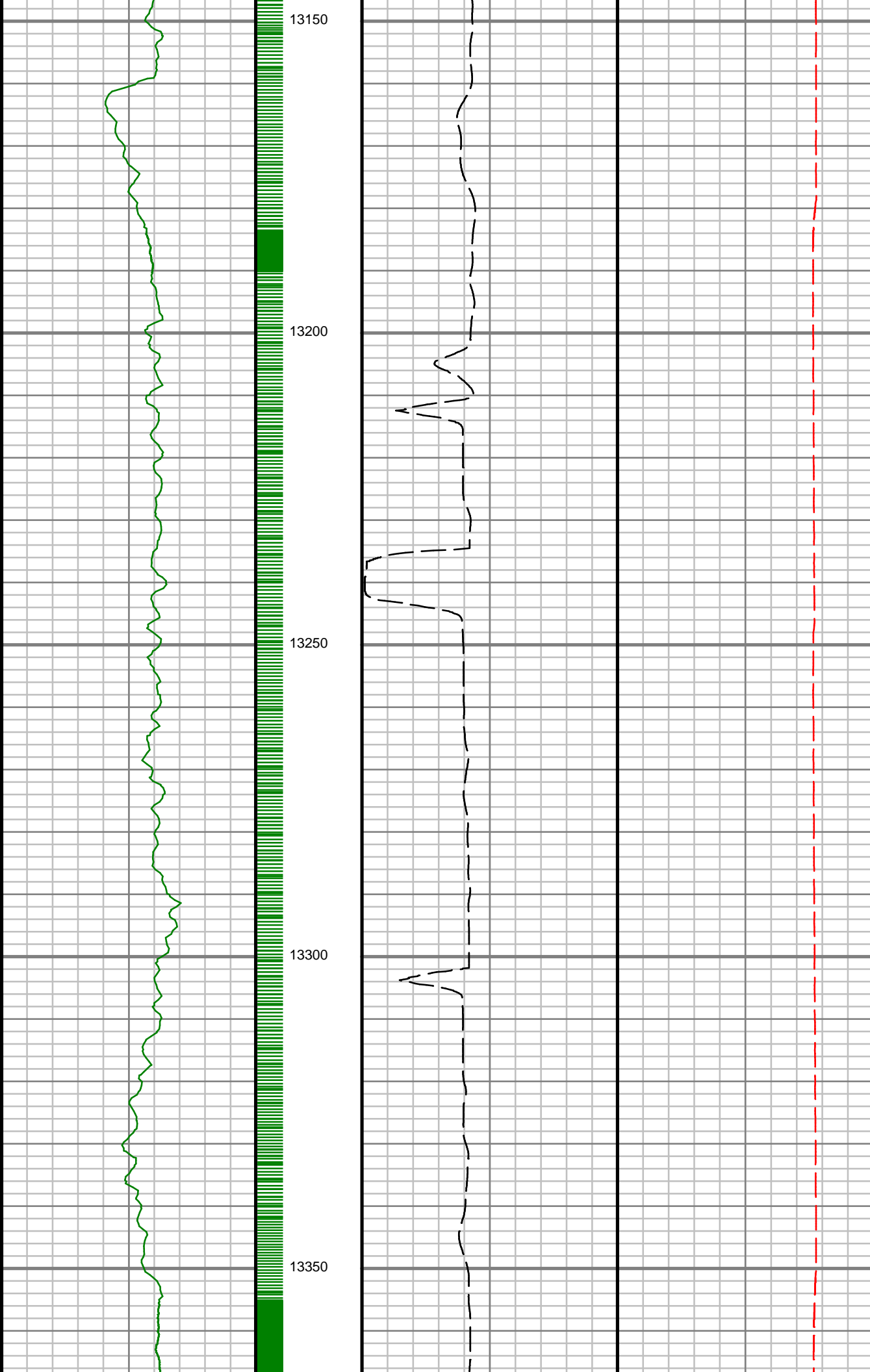
S: 136 MD: 12789.00 ft
Inc: 91.84 deg Az:
90.62 deg TVD:
6175.78 ft

S: 137 MD: 12880.00 ft
Inc: 91.01 deg Az:
91.28 deg TVD:
6173.52 ft



S: 138 MD: 12970.00 ft
Inc: 89.77 deg Az:
89.30 deg TVD:
6172.92 ft

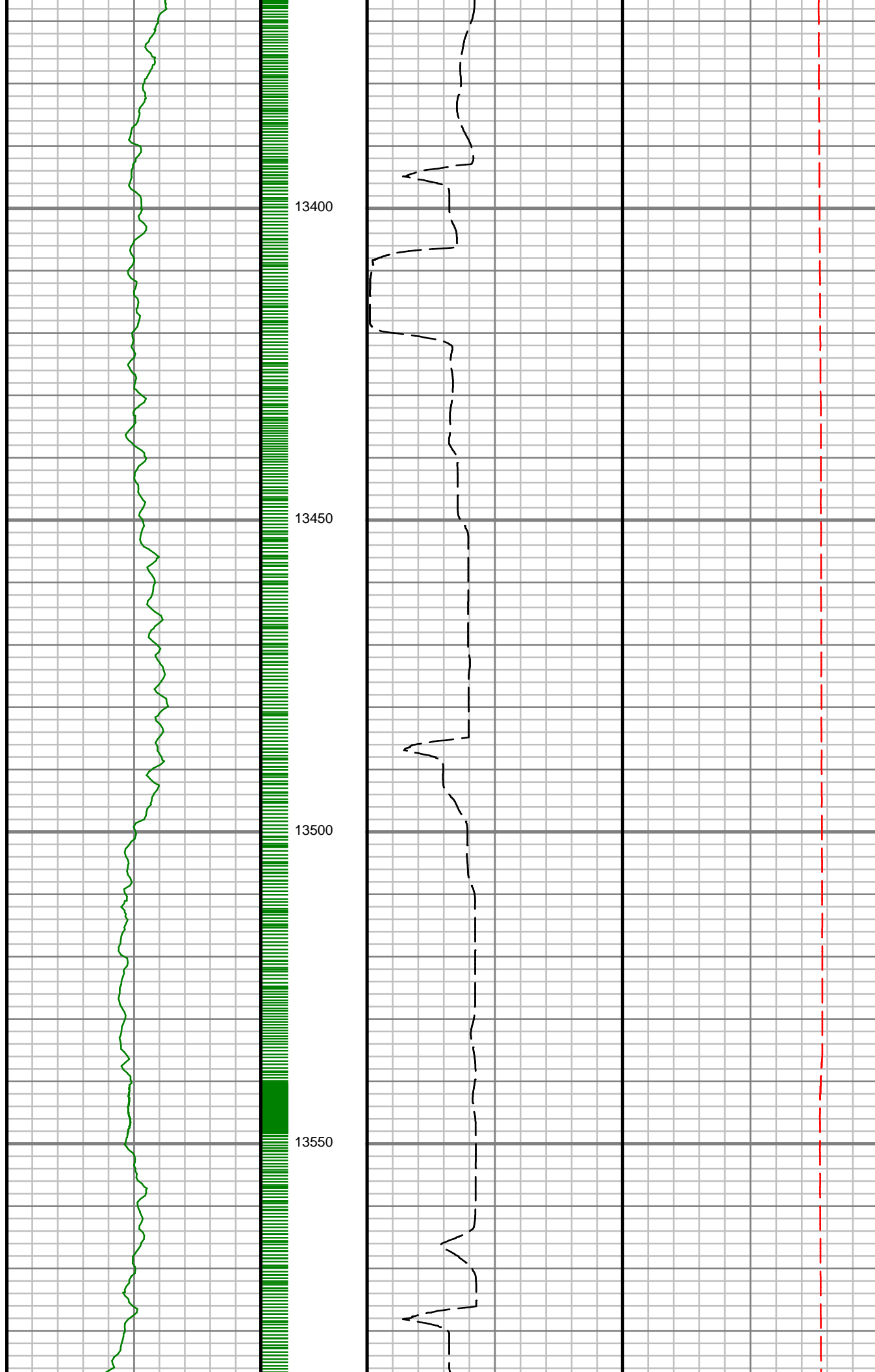
S: 139 MD: 13062.00 ft
Inc: 89.87 deg Az:
90.36 deg TVD:
6173.21 ft



S: 140 MD: 13153.00 ft
Inc: 90.40 deg Az:
88.42 deg TVD:
6173.00 ft

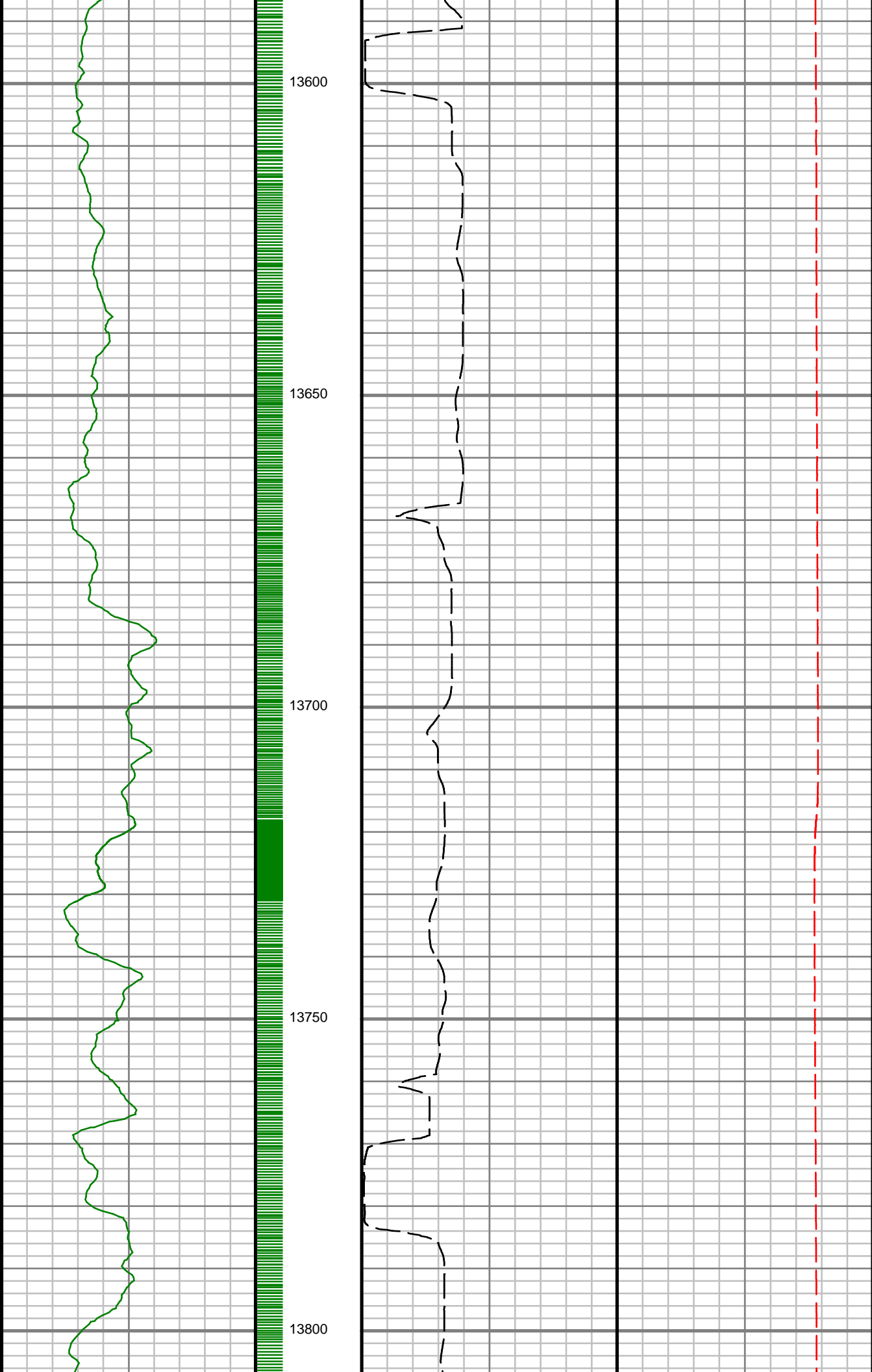
S: 141 MD: 13245.00 ft
Inc: 91.07 deg Az:
90.28 deg TVD:
6171.81 ft

S: 142 MD: 13336.00 ft
Inc: 91.57 deg Az:
88.87 deg TVD:
6169.71 ft



S: 143 MD: 13427.00 ft
Inc: 90.80 deg Az:
90.65 deg TVD:
6167.82 ft

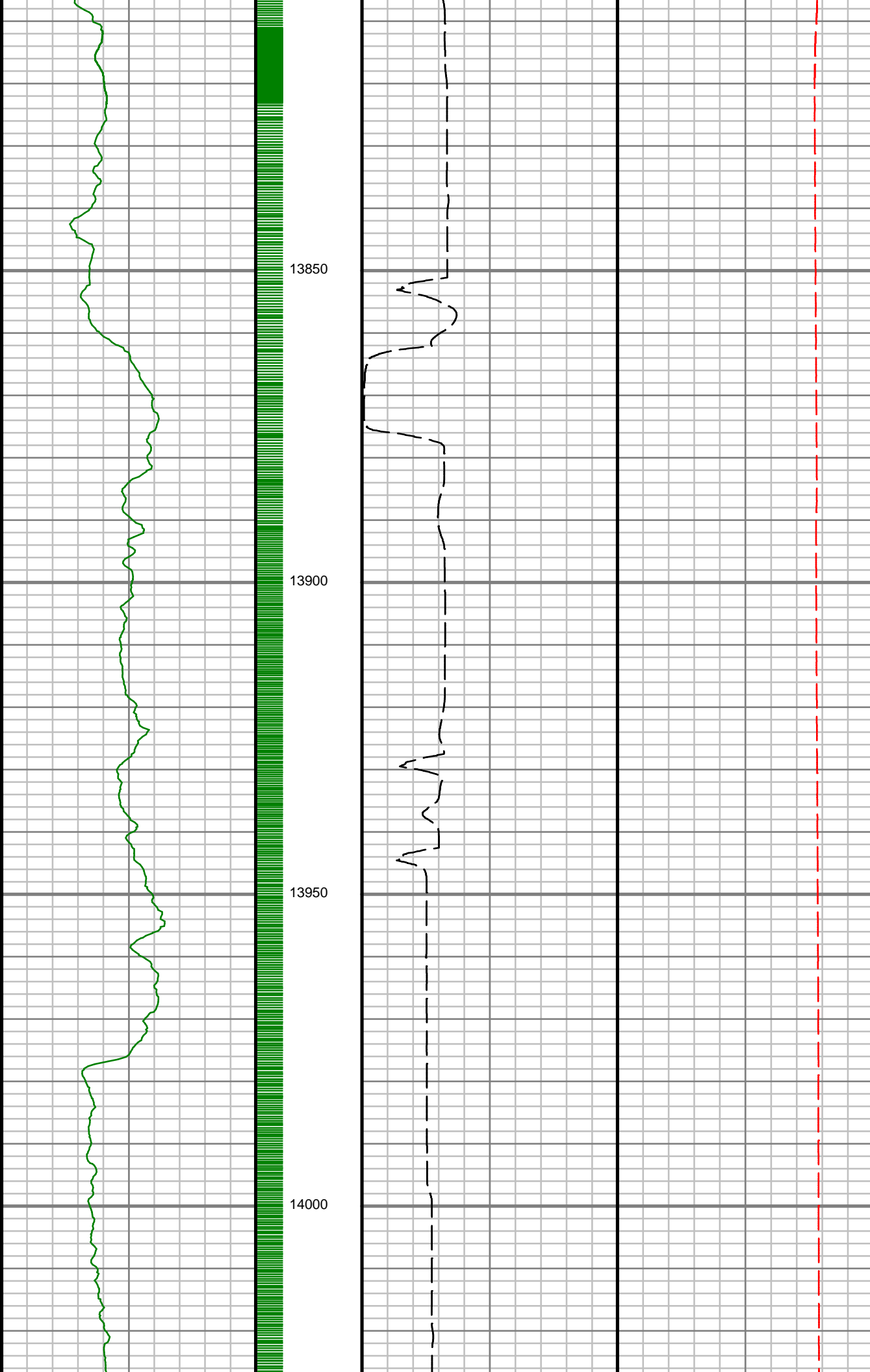
S: 144 MD: 13518.00 ft
Inc: 91.57 deg Az:
89.91 deg TVD:
6165.93 ft



S: 145 MD: 13609.00 ft
Inc: 90.30 deg Az:
90.44 deg TVD:
6164.44 ft

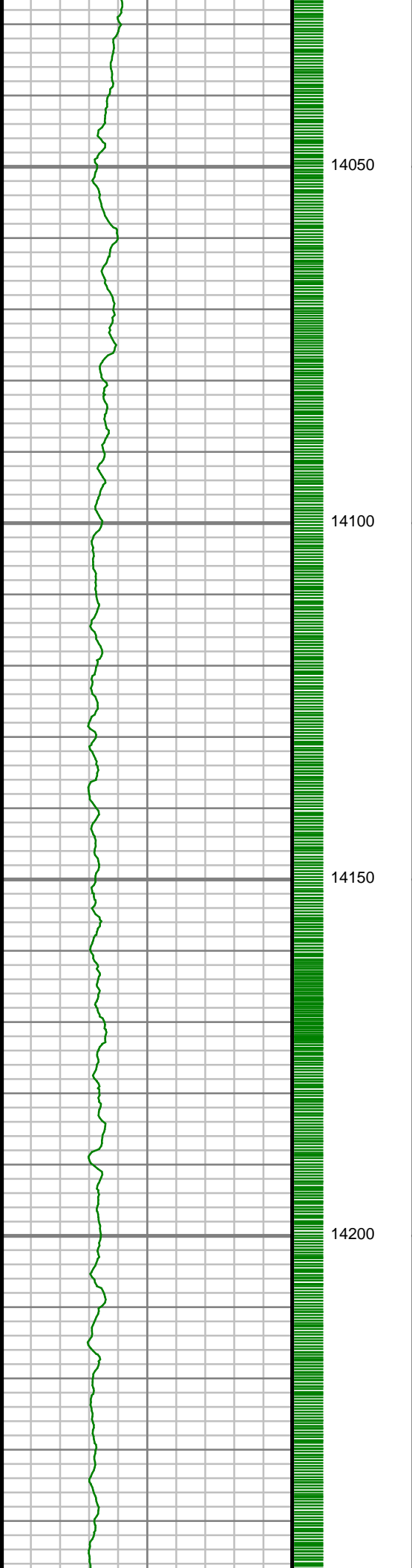
S: 146 MD: 13701.00 ft
Inc: 92.14 deg Az:
87.89 deg TVD:
6162.48 ft

S: 147 MD: 13792.00 ft
Inc: 92.31 deg Az:
90.16 deg TVD:
6158.94 ft



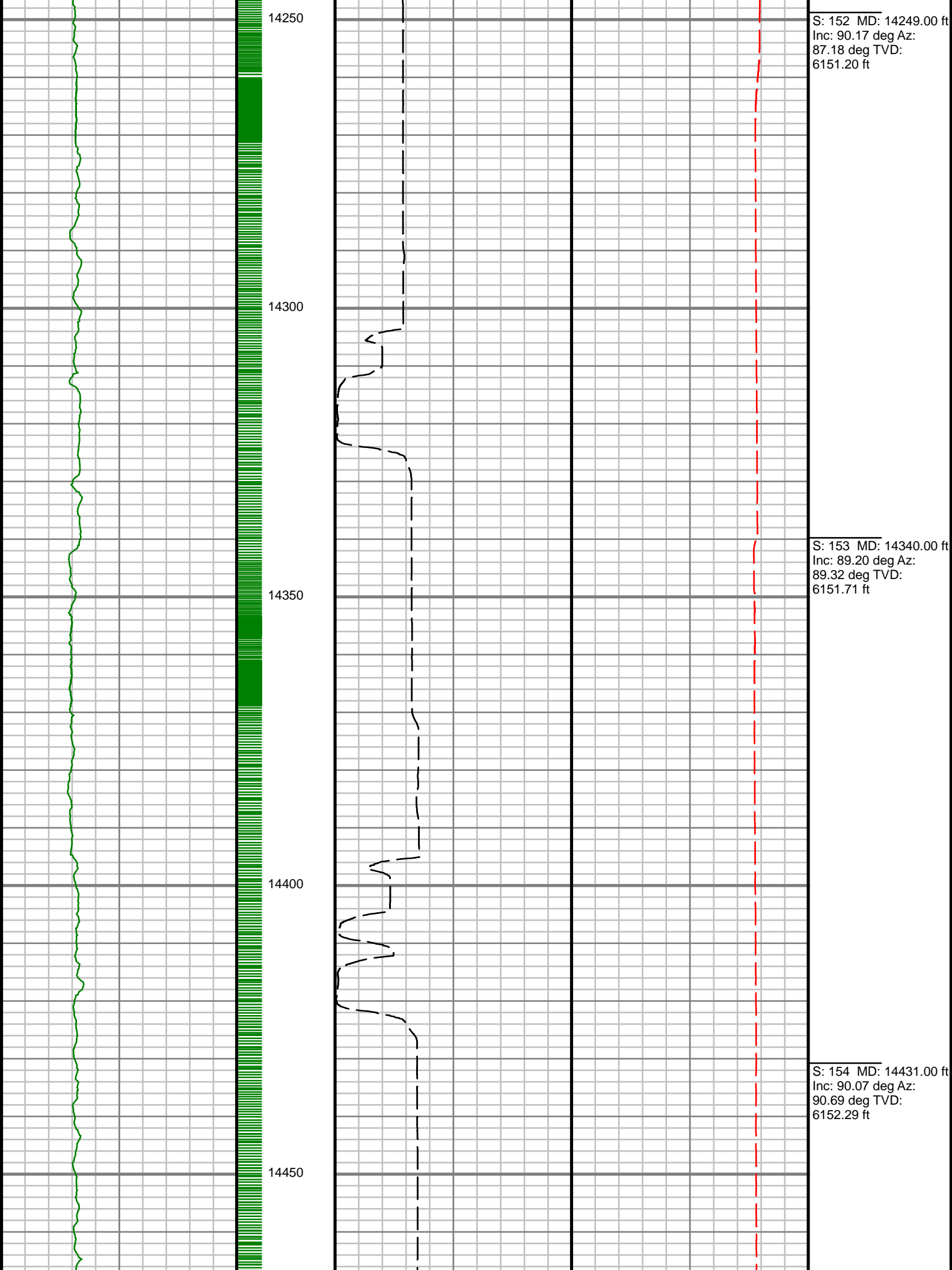
S: 148 MD: 13883.00 ft
Inc: 90.90 deg Az:
90.84 deg TVD:
6156.39 ft

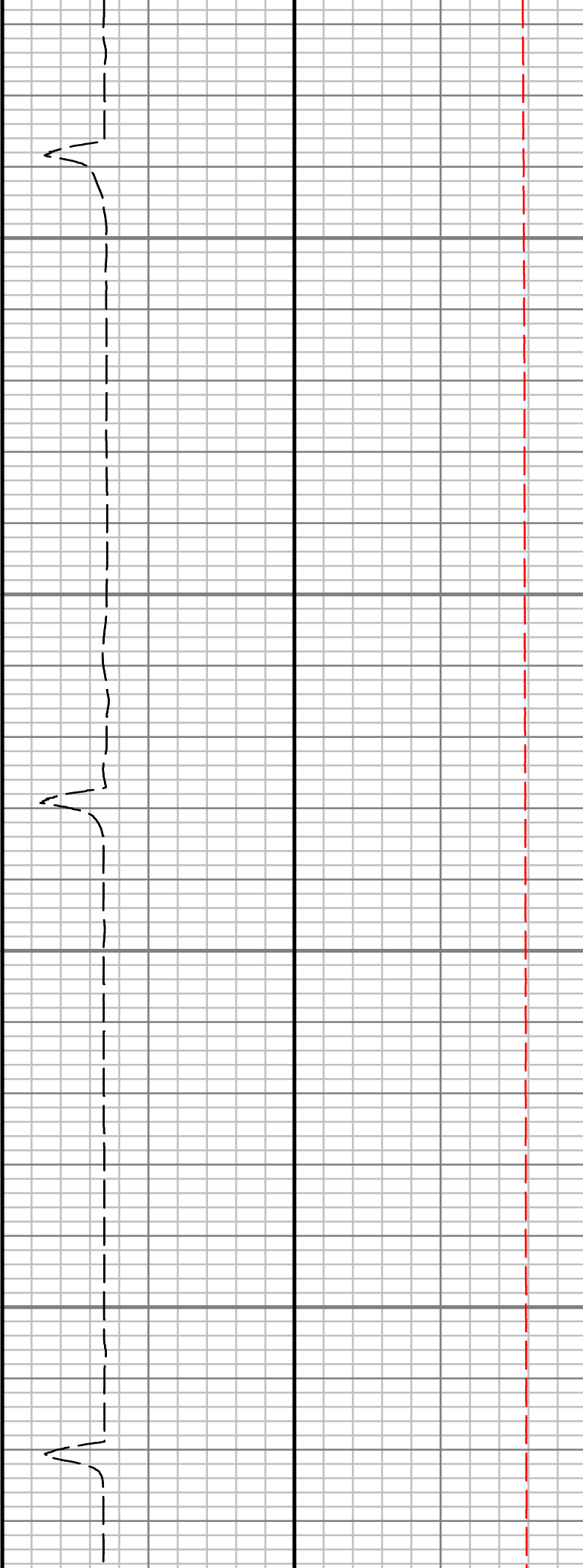
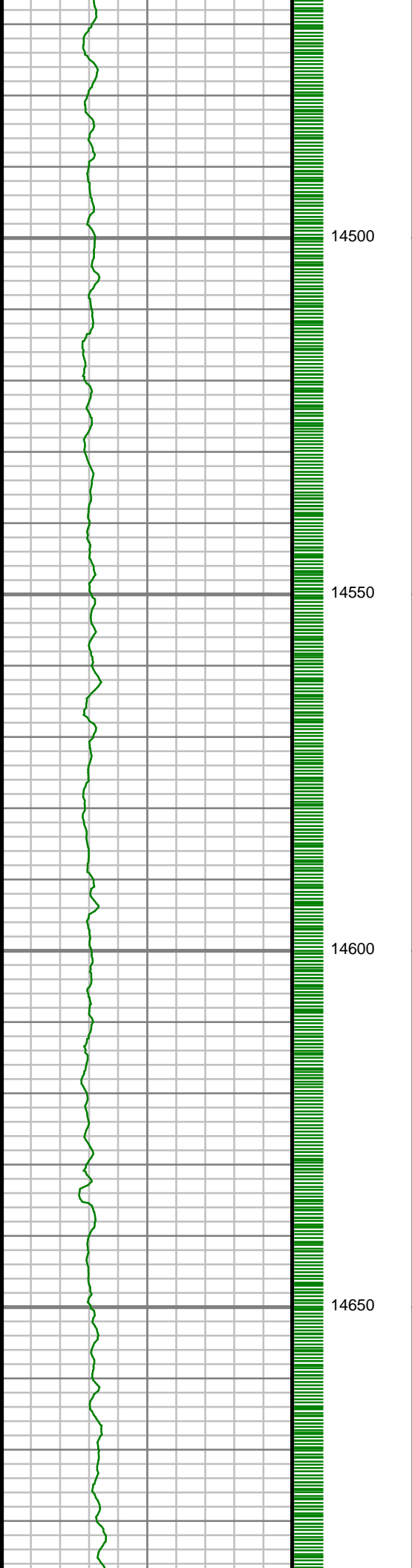
S: 149 MD: 13974.00 ft
Inc: 90.77 deg Az:
91.61 deg TVD:
6155.06 ft



S: 150 MD: 14066.00 ft
Inc: 91.11 deg Az:
91.33 deg TVD:
6153.55 ft

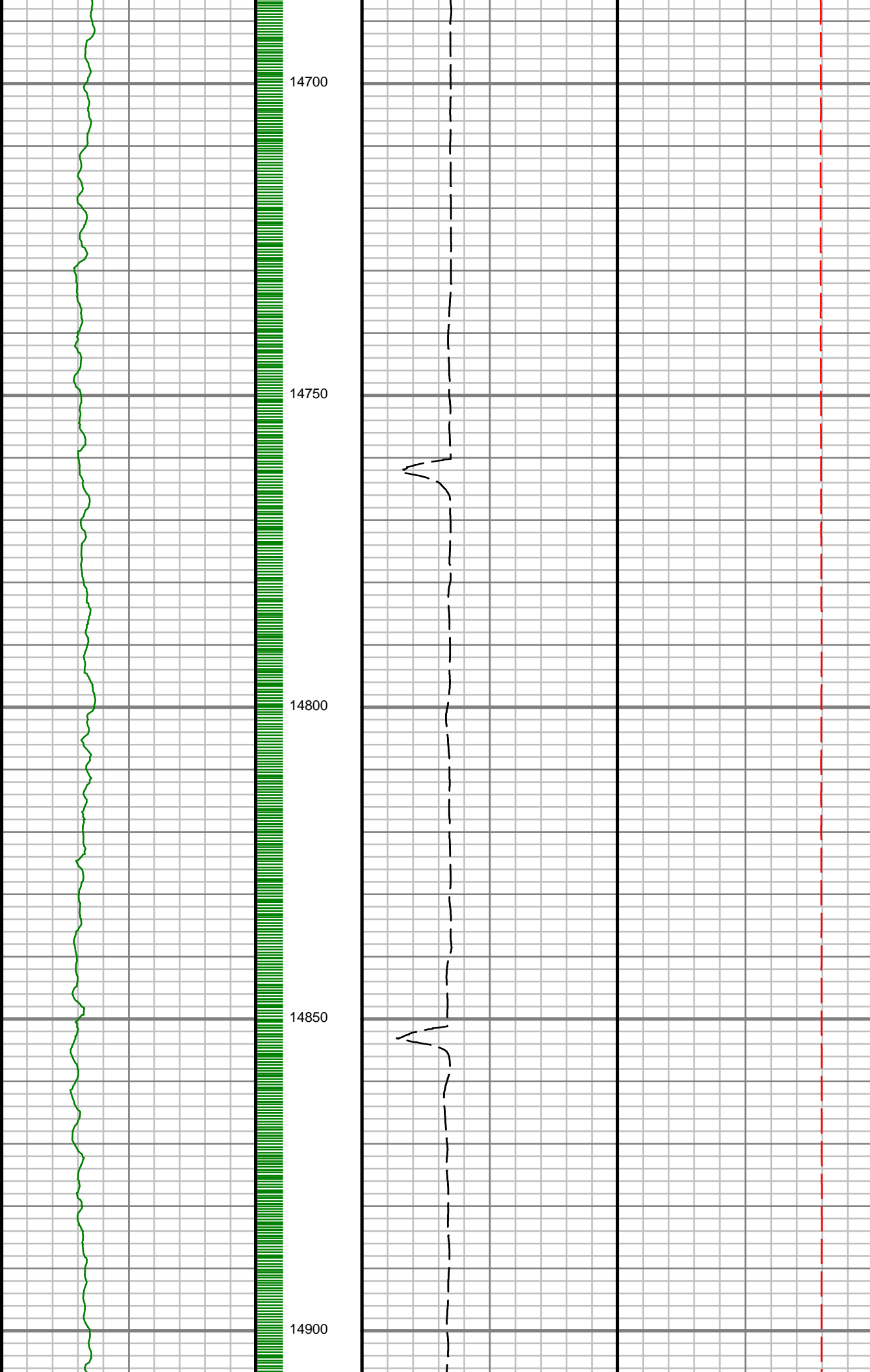
S: 151 MD: 14157.00 ft
Inc: 90.84 deg Az:
90.23 deg TVD:
6152.01 ft





S: 155 MD: 14522.00 ft
Inc: 90.57 deg Az:
90.18 deg TVD:
6151.78 ft

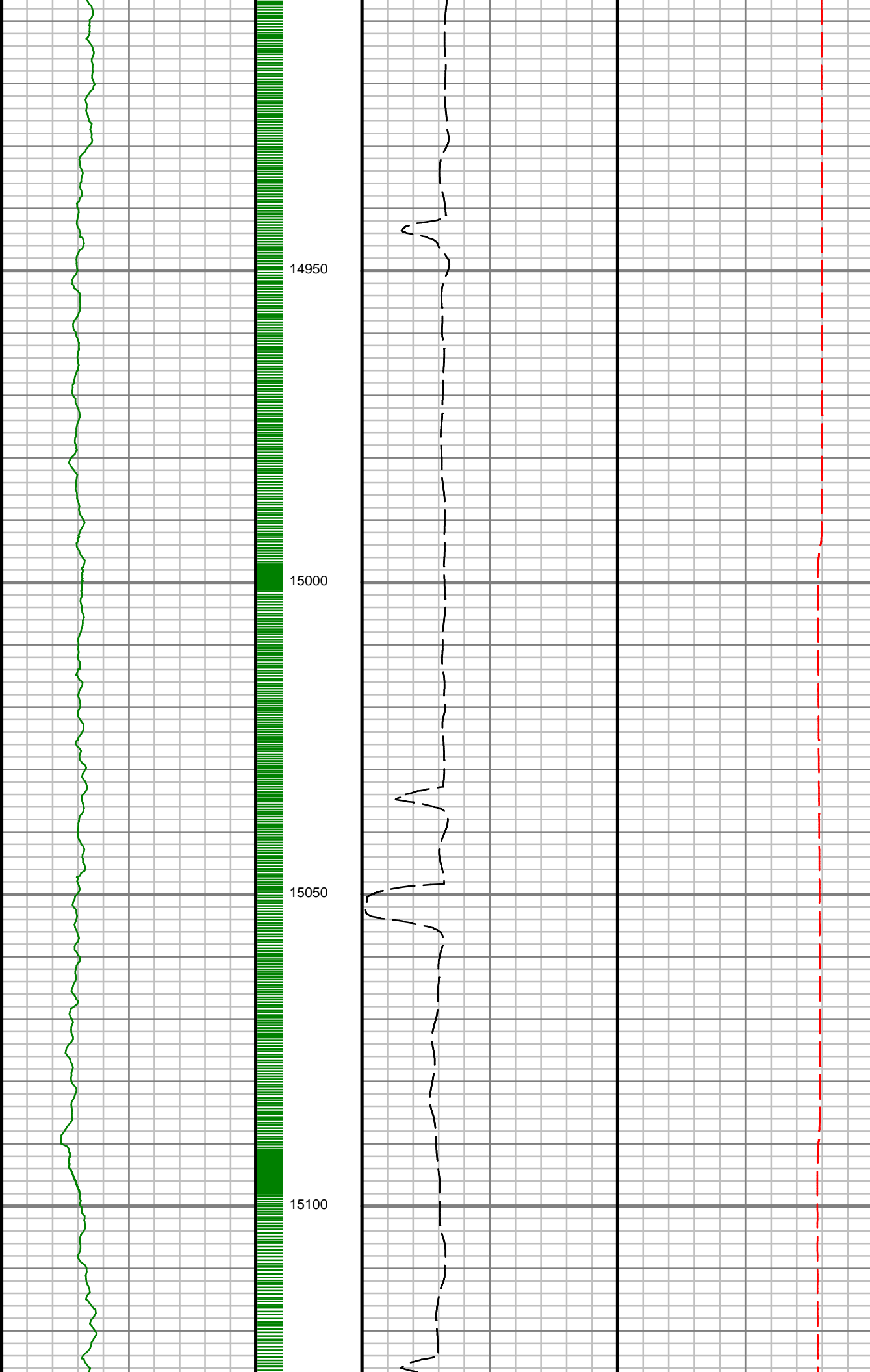
S: 156 MD: 14613.00 ft
Inc: 91.14 deg Az:
91.92 deg TVD:
6150.43 ft



S: 157 MD: 14704.00 ft
Inc: 90.23 deg Az:
90.96 deg TVD:
6149.34 ft

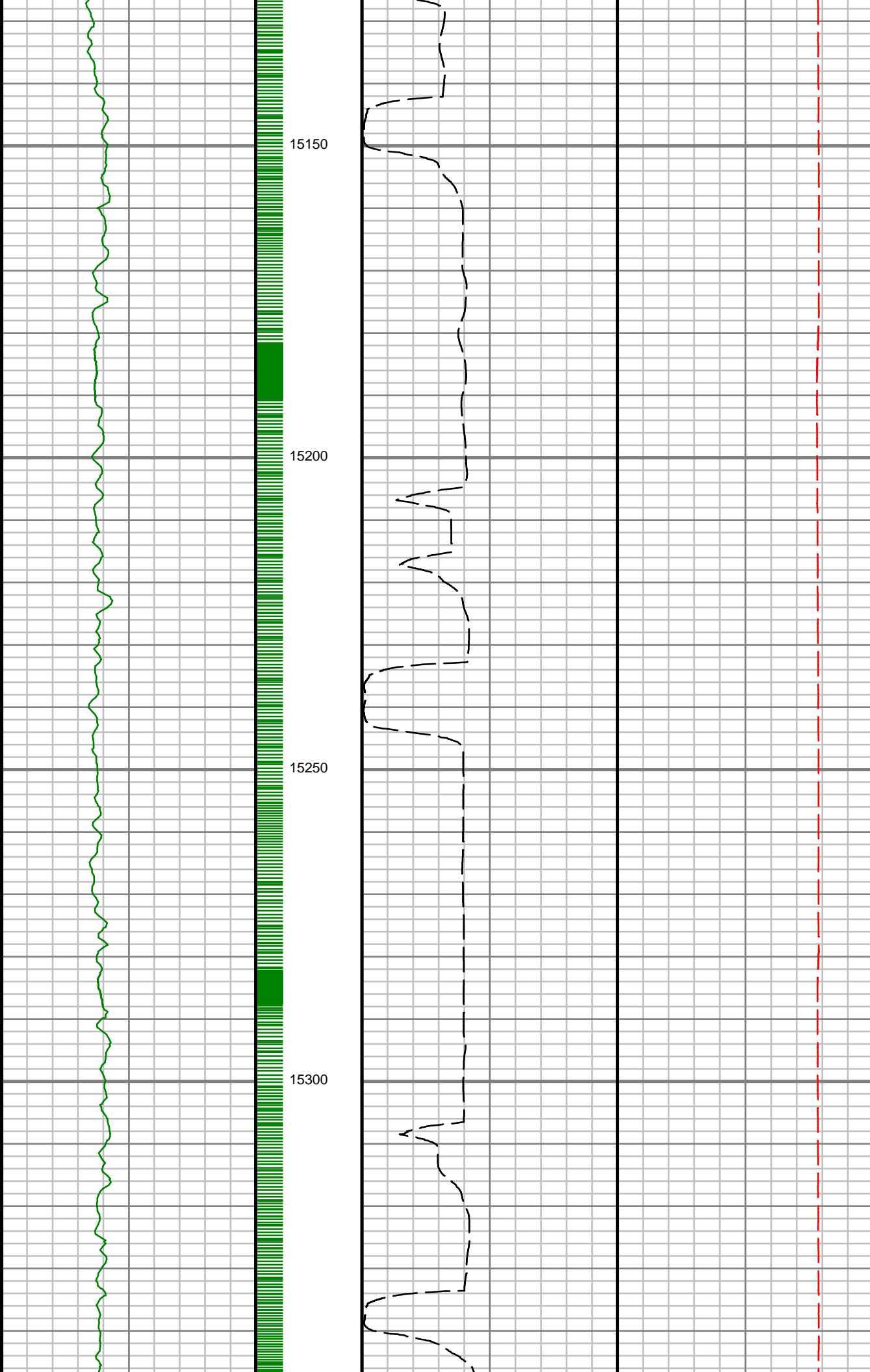
S: 158 MD: 14795.00 ft
Inc: 90.00 deg Az:
90.03 deg TVD:
6149.15 ft

S: 159 MD: 14886.00 ft
Inc: 90.67 deg Az:
89.52 deg TVD:
6148.62 ft



S: 160 MD: 14977.00 ft
Inc: 90.84 deg Az:
86.98 deg TVD:
6147.42 ft

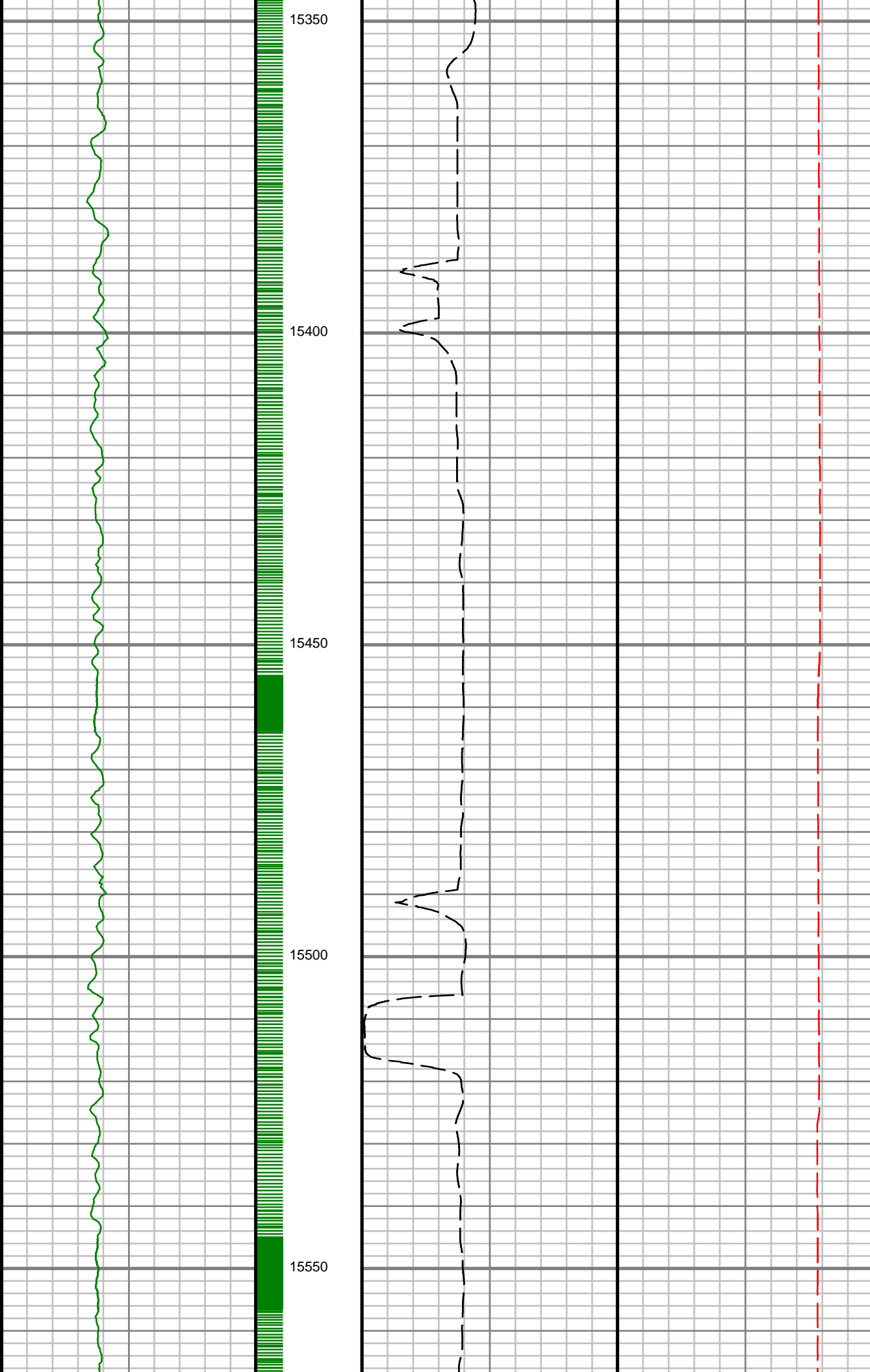
S: 161 MD: 15069.00 ft
Inc: 91.27 deg Az:
89.23 deg TVD:
6145.73 ft



S: 162 MD: 15160.00 ft
Inc: 90.44 deg Az:
88.35 deg TVD:
6144.37 ft

S: 163 MD: 15252.00 ft
Inc: 91.07 deg Az:
88.67 deg TVD:
6143.16 ft

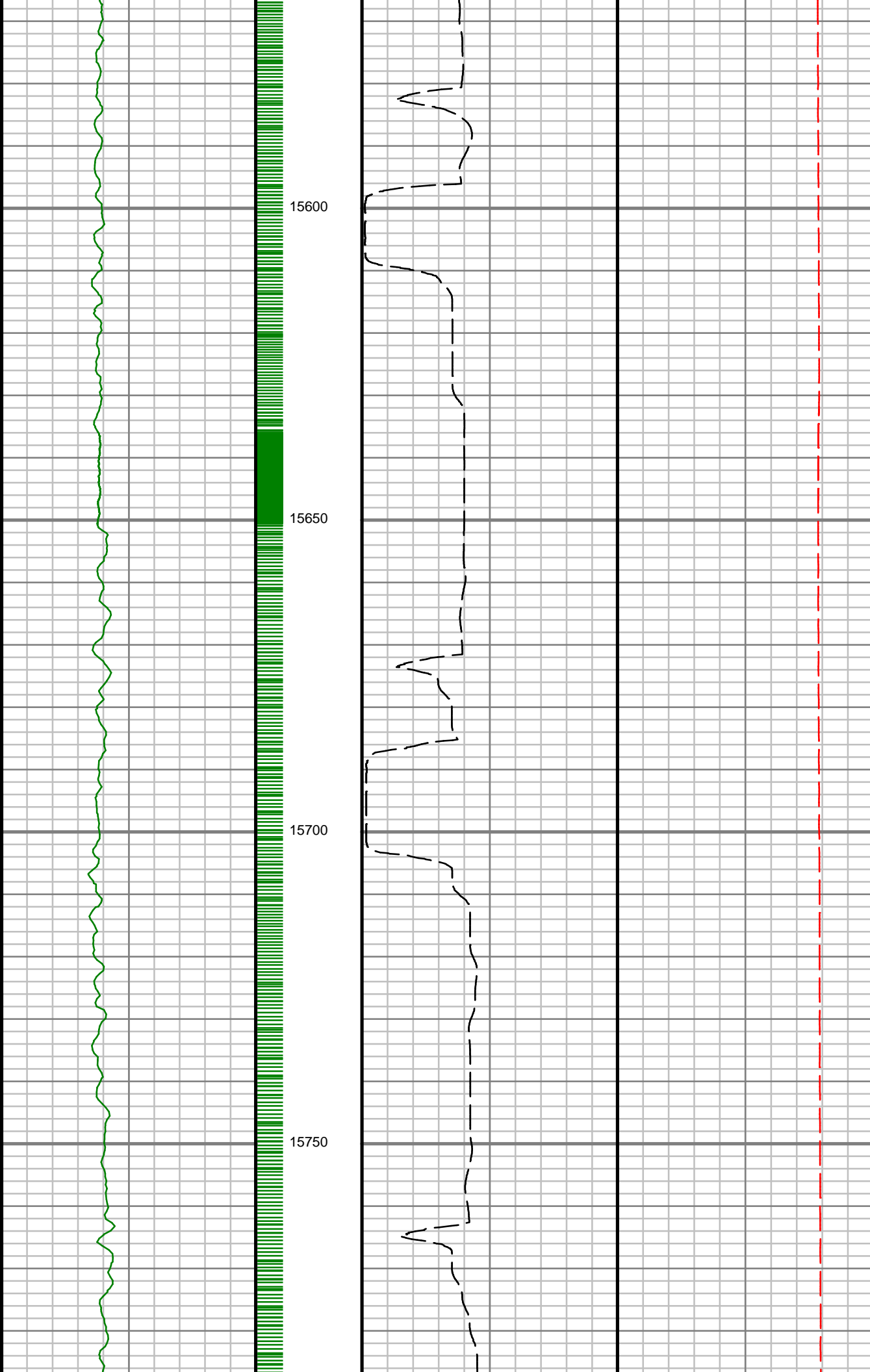
S: 164 MD: 15343.00 ft
Inc: 90.07 deg Az:



Inc: 90.07 deg Az:
89.72 deg TVD:
6142.25 ft

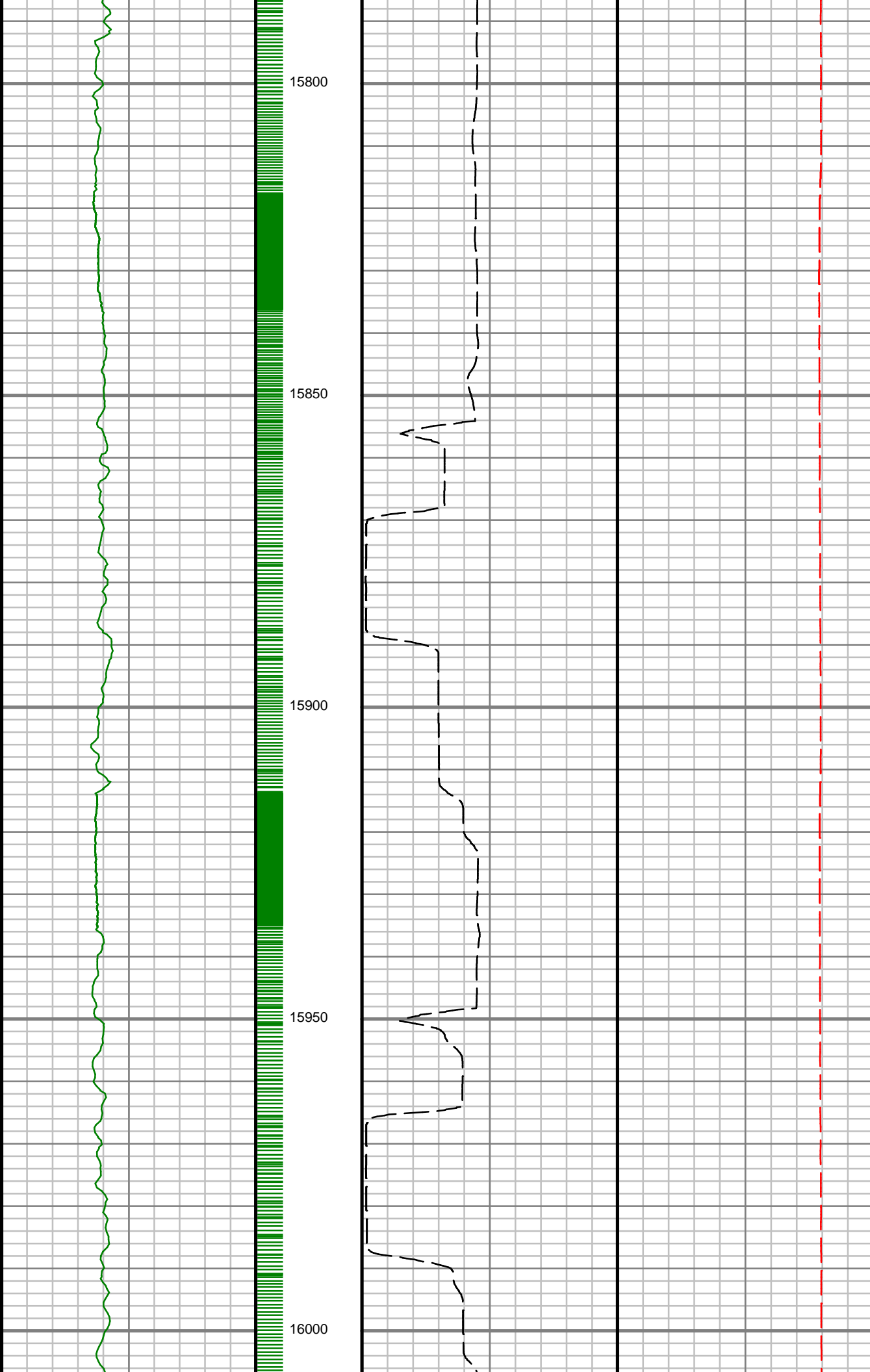
S: 165 MD: 15434.00 ft
Inc: 90.57 deg Az:
88.01 deg TVD:
6141.75 ft

S: 166 MD: 15526.00 ft
Inc: 90.90 deg Az:
89.06 deg TVD:
6140.56 ft



S: 167 MD: 15617.00 ft
Inc: 90.70 deg Az:
89.19 deg TVD:
6139.28 ft

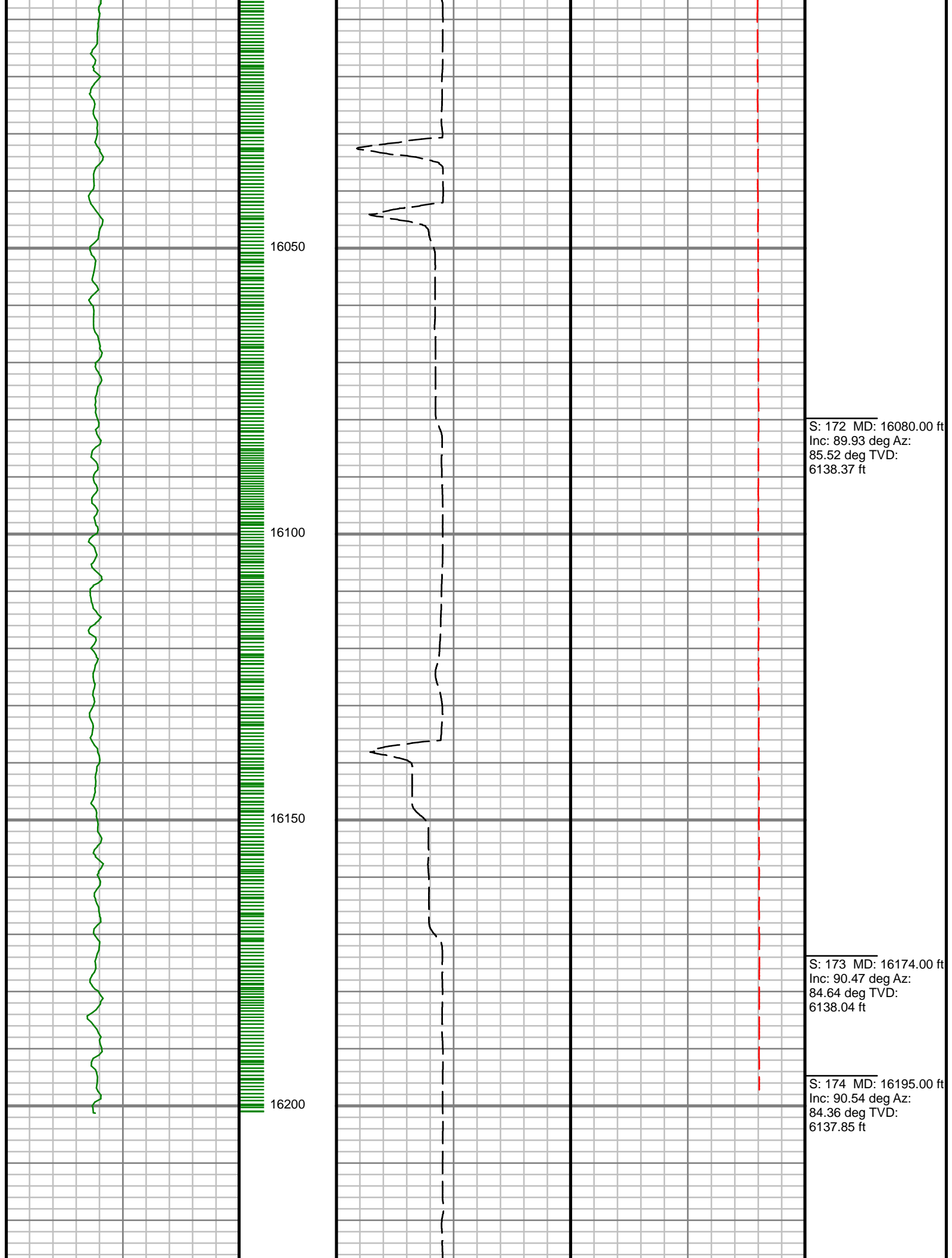
S: 168 MD: 15708.00 ft
Inc: 90.33 deg Az:
90.69 deg TVD:
6138.46 ft

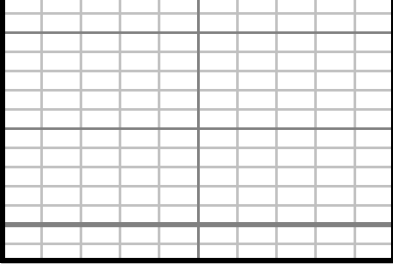


S: 169 MD: 15798.00 ft
Inc: 90.13 deg Az:
88.04 deg TVD:
6138.09 ft

S: 170 MD: 15892.00 ft
Inc: 89.80 deg Az:
86.76 deg TVD:
6138.15 ft

S: 171 MD: 15986.00 ft
Inc: 90.00 deg Az:
89.09 deg TVD:
6138.31 ft

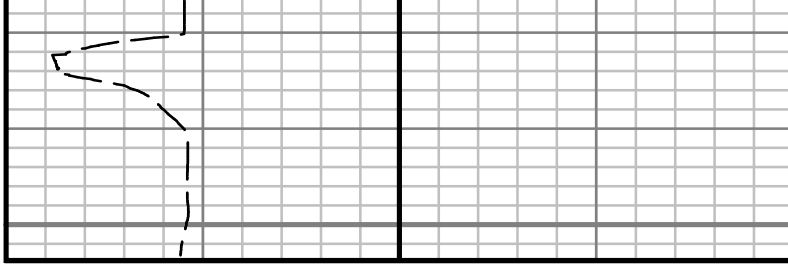




| Gamma Ray (GR) | | |
|----------------|-------------|-----|
| 0 | Unit = aapi | 200 |

16250

MEASURED DEPTH
1:240 (ft)



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

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

| Comments |
|----------|
|----------|

GAMMA RAY



5" = 100' MD