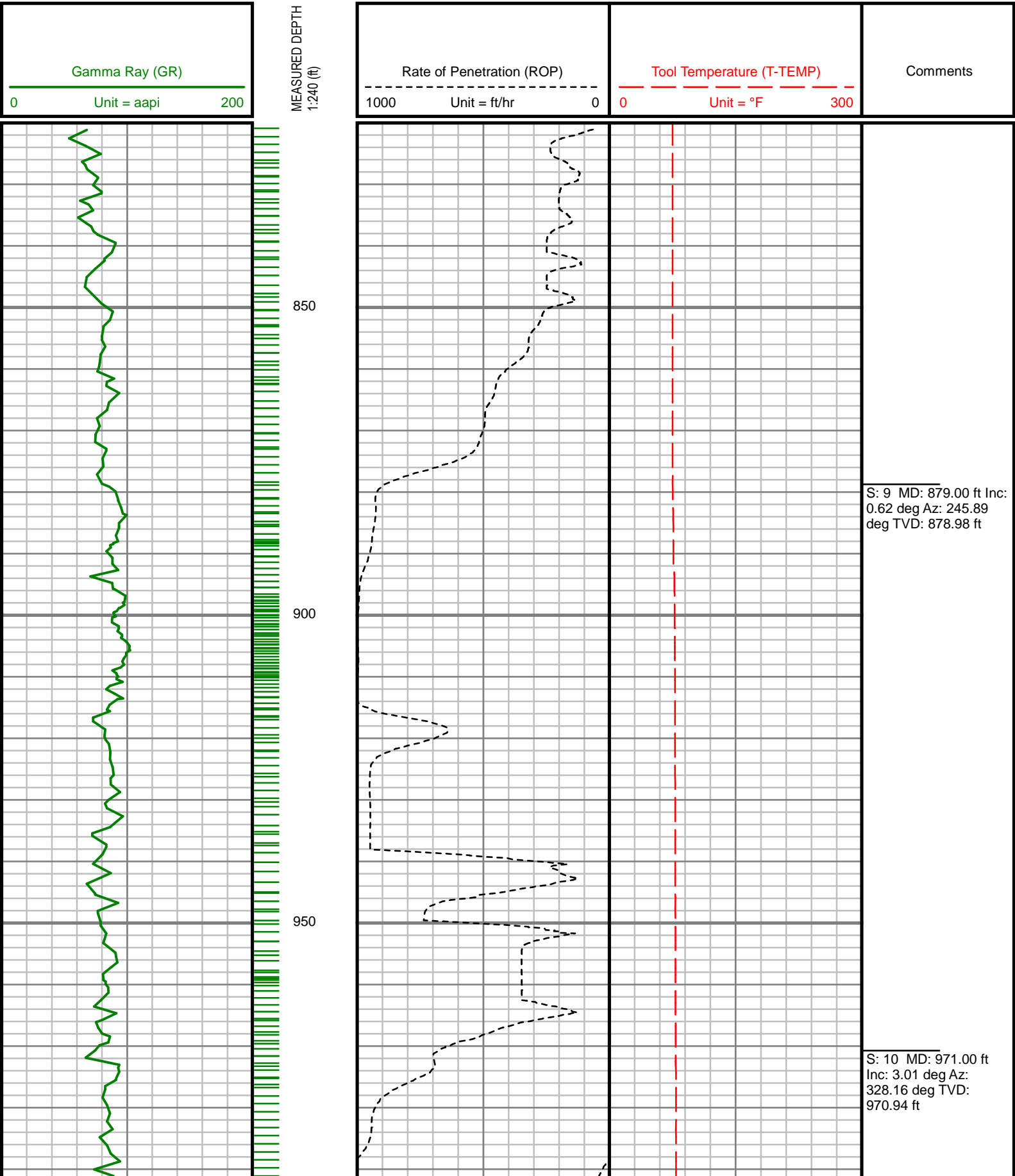


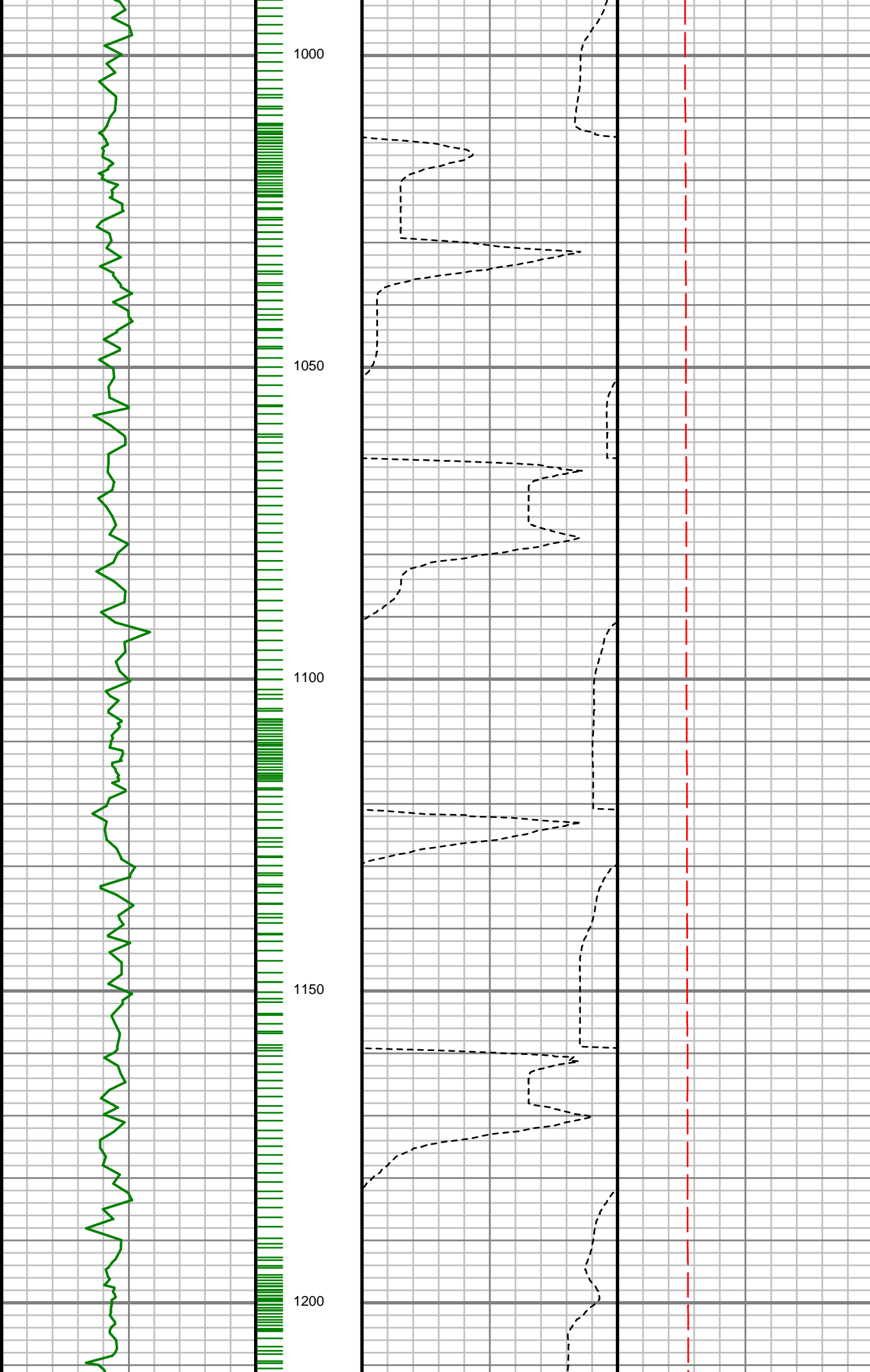
5" = 100' MD

COMPANY : HIGH POINT RESOURCES WELL : ANSCHUTZ EQUUS FARMS 4-62-28-6457CB FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A. UWI : 05-123-43721										COMPANY : HIGH POINT RESOURCES WELL : ANSCHUTZ EQUUS FARMS 4-62-28-6457CB FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A. UWI : 05-123-43721									
DEPTH REF. : RKB REF. HEIGHT : 20.000 ft GROUND LEVEL : 4634.900 ft										RKB to Ground Level G.L. to MEAN SEA LEVEL									
BOREHOLE RECORD										DEVIATION RECORD									
HOLE SIZE in		FROM ft		TO ft		INCLINATION deg		FROM ft		TO ft									
12.75		0		821		0 - 13		0		2716									
8.75		821		6673		13 - 0		2716		4691									
6.125		6673		16322		0 - 0		4691		5817									
						0 - 83		5817		6614									
						83 - 93		6614		16322									
CASING RECORD																			
CASING SIZE in		FROM ft		TO ft															
9.625		0		820															
7		0		6653															
										DRILLING CO.: SAVANNA RIG: 802 LMD UNIT NO.: KIT MUD PIDISTRICT: CASPER SPUD DATE: 01/20/2018 LMD START DATE: 03/25/2018 LMD END DATE: 04/01/2018									
										DEPTH: 821 ft DEPTH: 16322 ft TOTAL DEPTH: 16322 ft									

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.

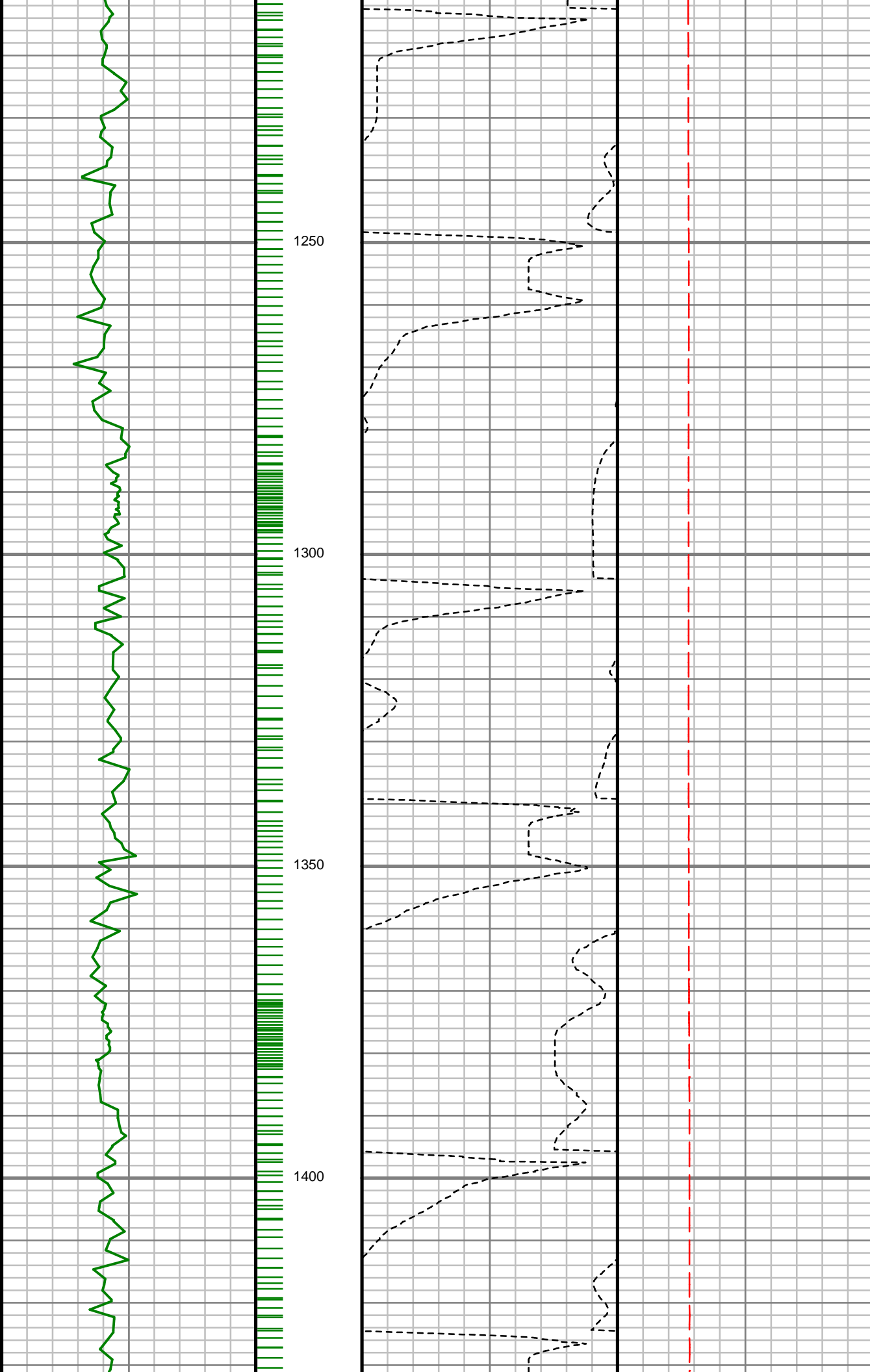
HIGH POINT RESOURCES
ANSCHUTZ EQUUS FARMS 4-62-28-6457CB
WATTENBERG FIELD
WELD COUNTY, COLORADO
05-123-43721





S: 11 MD: 1062.00 ft
Inc: 4.69 deg Az:
330.98 deg TVD:
1061.73 ft

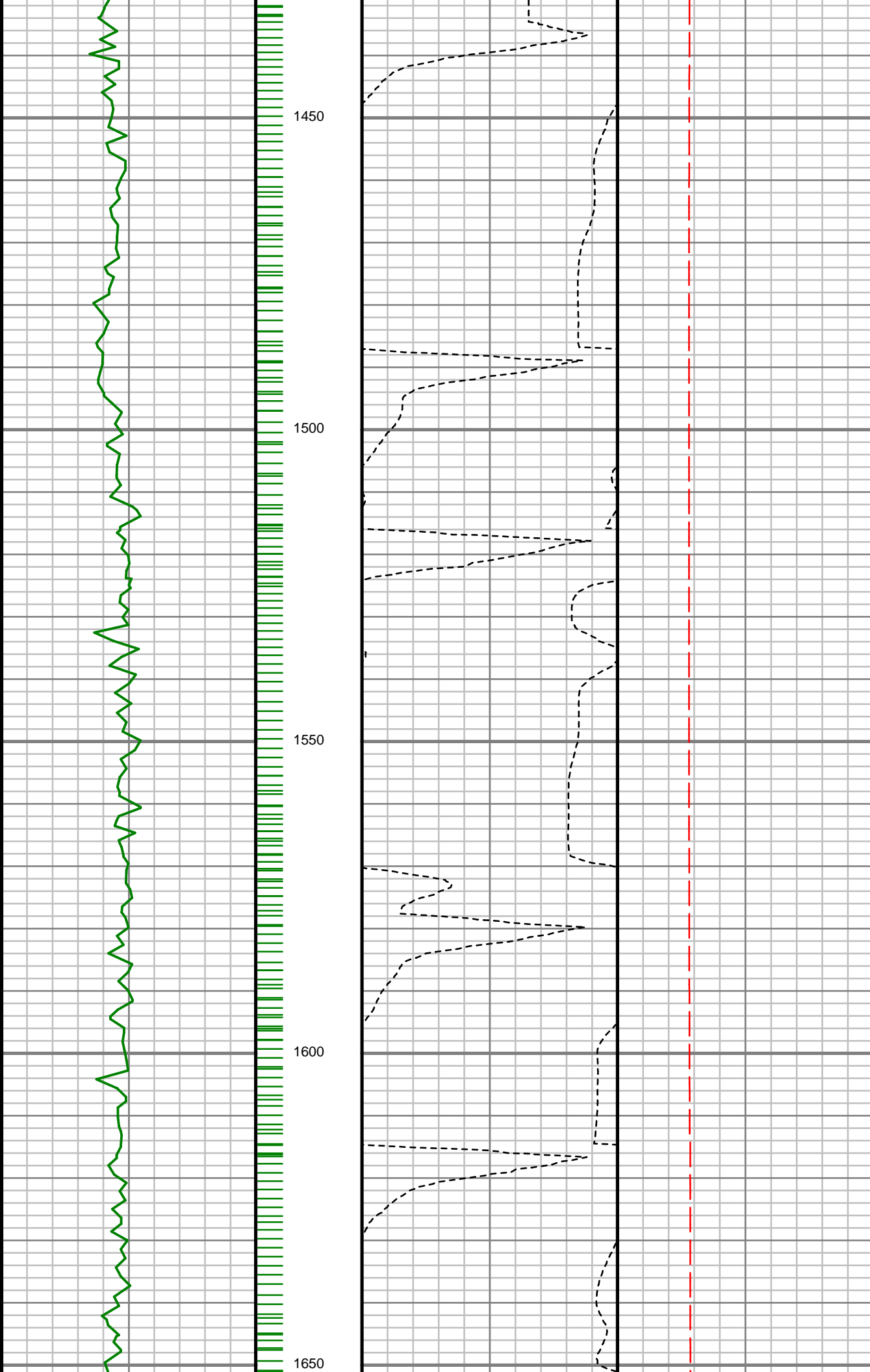
S: 12 MD: 1153.00 ft
Inc: 6.48 deg Az:
327.33 deg TVD:
1152.29 ft



S: 13 MD: 1245.00 ft
Inc: 7.59 deg Az:
324.64 deg TVD:
1243.60 ft

S: 14 MD: 1337.00 ft
Inc: 9.24 deg Az:
324.67 deg TVD:
1334.61 ft

S: 15 MD: 1428.00 ft



Inc: 12.12 deg Az:
322.96 deg TVD:
1424.02 ft

S: 16 MD: 1519.00 ft
Inc: 12.19 deg Az:
318.66 deg TVD:
1512.98 ft

S: 17 MD: 1610.00 ft
Inc: 11.85 deg Az:
318.13 deg TVD:
1601.99 ft

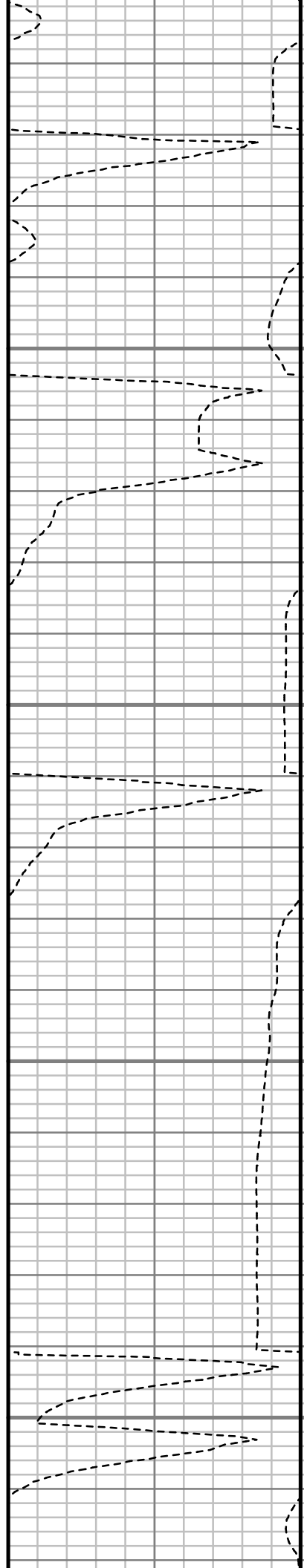


1700

1750

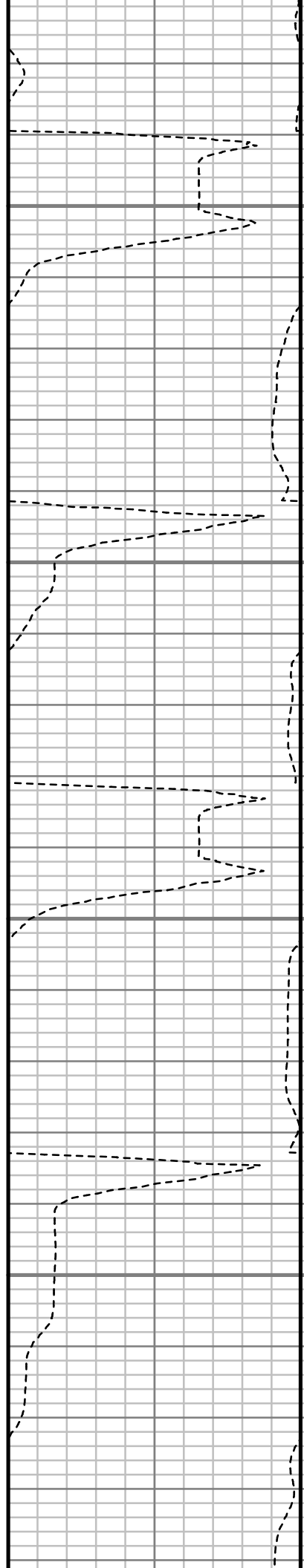
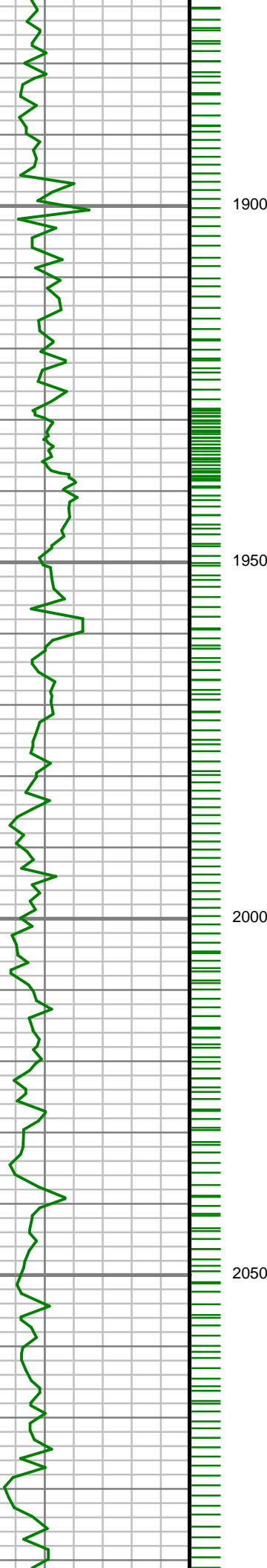
1800

1850



S: 18 MD: 1701.00 ft
Inc: 12.25 deg Az:
314.88 deg TVD:
1690.99 ft

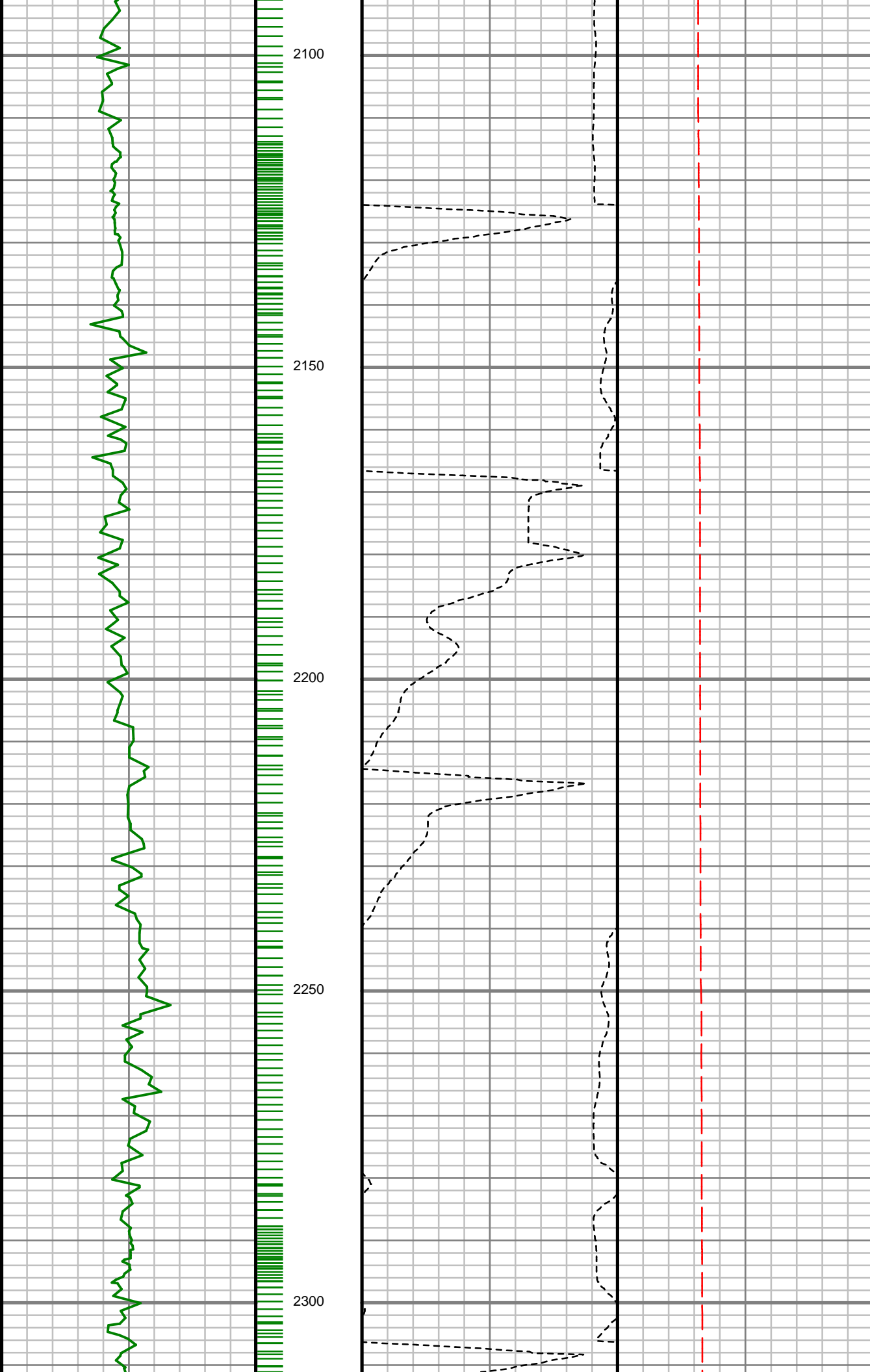
S: 19 MD: 1793.00 ft
Inc: 12.44 deg Az:
312.81 deg TVD:
1780.86 ft



S: 20 MD: 1884.00 ft
Inc: 12.19 deg Az:
311.41 deg TVD:
1869.76 ft

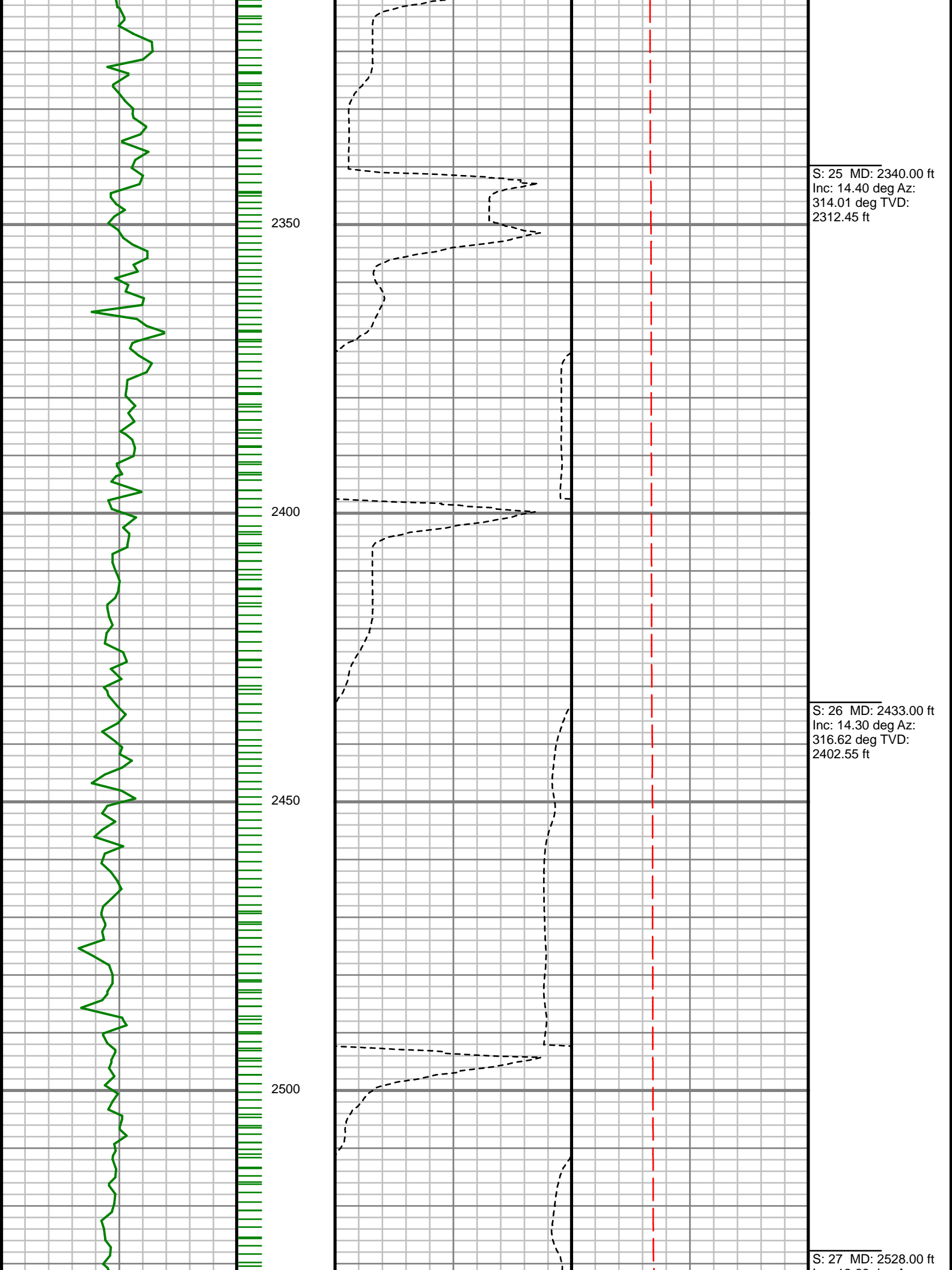
S: 21 MD: 1975.00 ft
Inc: 13.65 deg Az:
310.49 deg TVD:
1958.46 ft

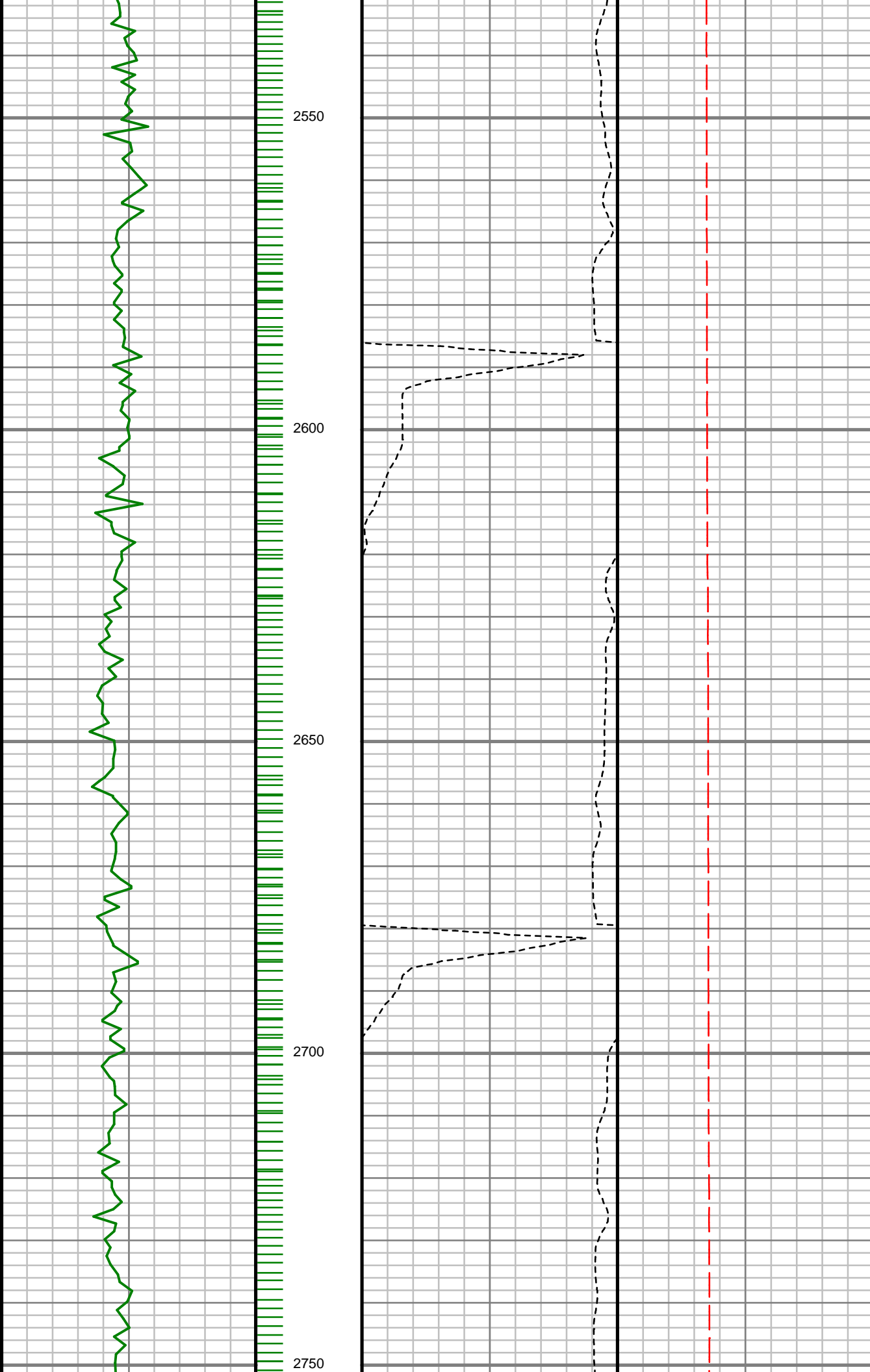
S: 22 MD: 2067.00 ft
Inc: 13.97 deg Az:
312.41 deg TVD:
2047.80 ft



S: 23 MD: 2158.00 ft
Inc: 13.83 deg Az:
311.74 deg TVD:
2136.13 ft

S: 24 MD: 2249.00 ft
Inc: 14.60 deg Az:
312.98 deg TVD:
2224.35 ft





Inc: 13.66 deg Az:
316.10 deg TVD:
2494.73 ft

S: 28 MD: 2621.00 ft
Inc: 13.38 deg Az:
313.71 deg TVD:
2585.16 ft

S: 29 MD: 2716.00 ft
Inc: 13.27 deg Az:
312.92 deg TVD:
2677.60 ft

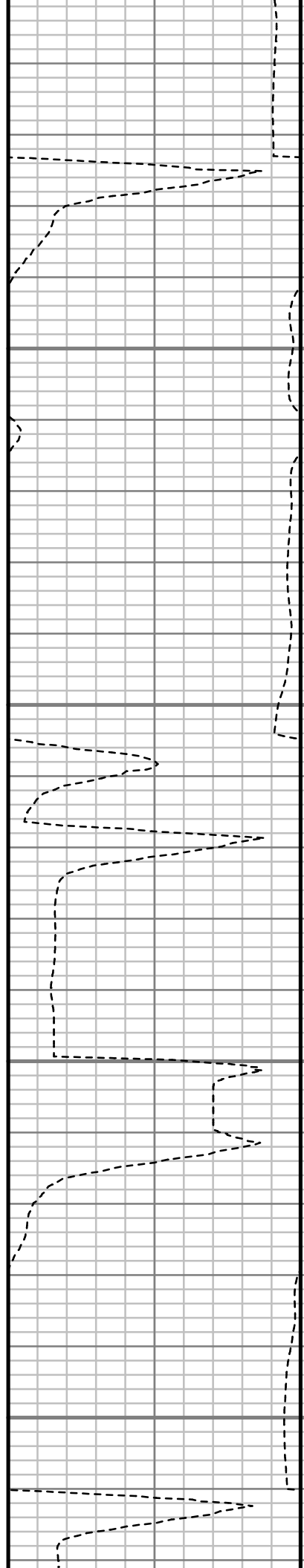


2800

2850

2900

2950



S: 30 MD: 2810.00 ft
Inc: 12.54 deg Az:
311.44 deg TVD:
2769.22 ft

S: 31 MD: 2904.00 ft
Inc: 12.64 deg Az:
308.30 deg TVD:
2860.96 ft

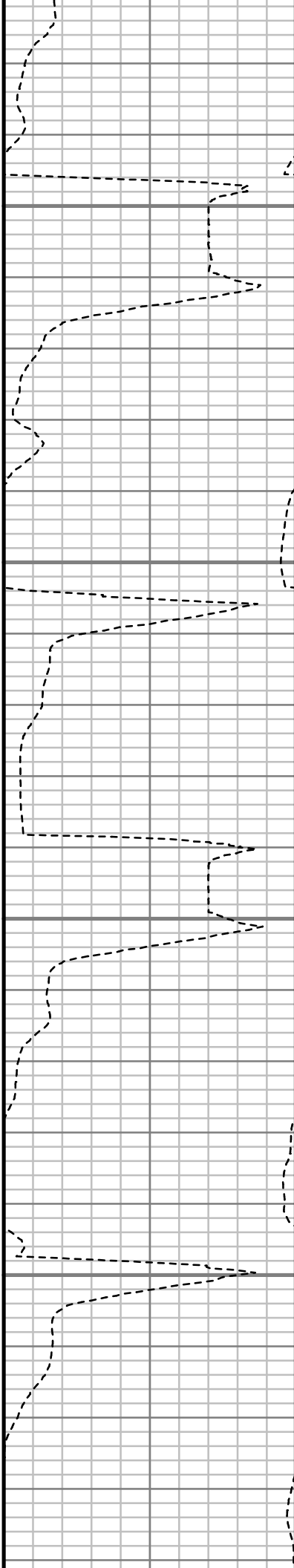


3000

3050

3100

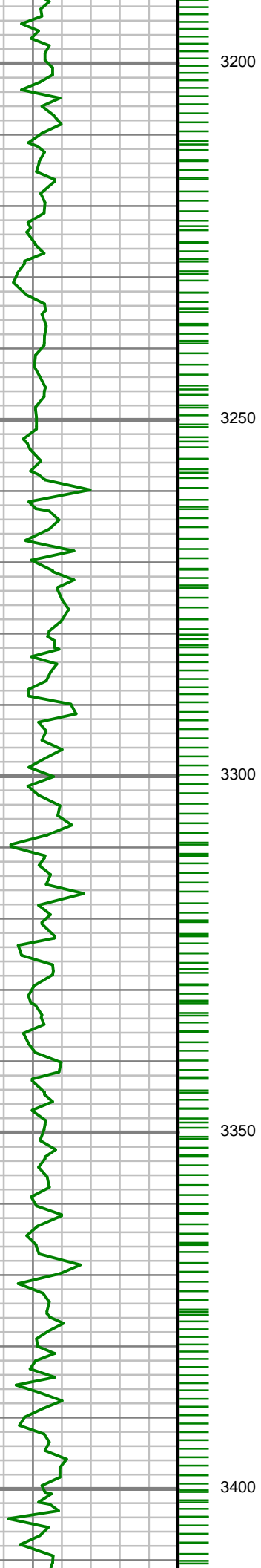
3150



S: 32 MD: 2998.00 ft
Inc: 12.38 deg Az:
301.61 deg TVD:
2952.73 ft

S: 33 MD: 3092.00 ft
Inc: 12.32 deg Az:
296.69 deg TVD:
3044.56 ft

S: 34 MD: 3186.00 ft
Inc: 11.99 deg Az:



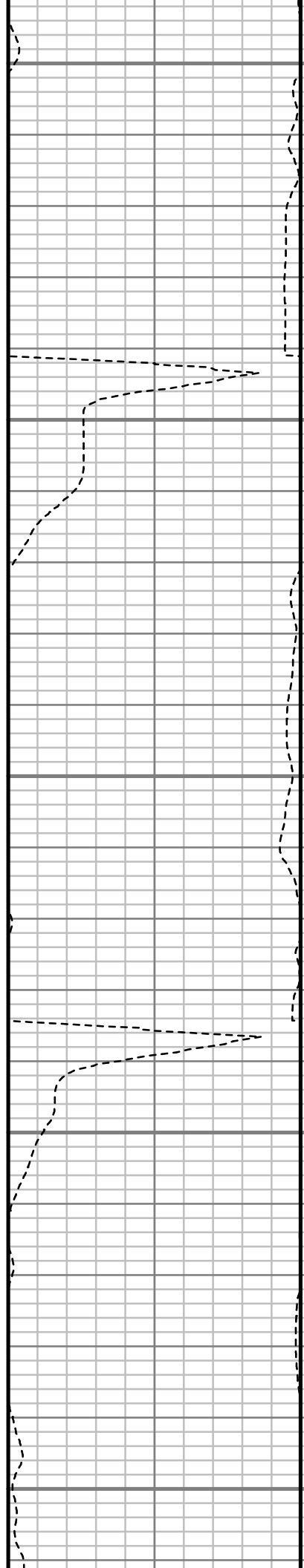
3200

3250

3300

3350

3400



294.55 deg TVD:
3136.45 ft

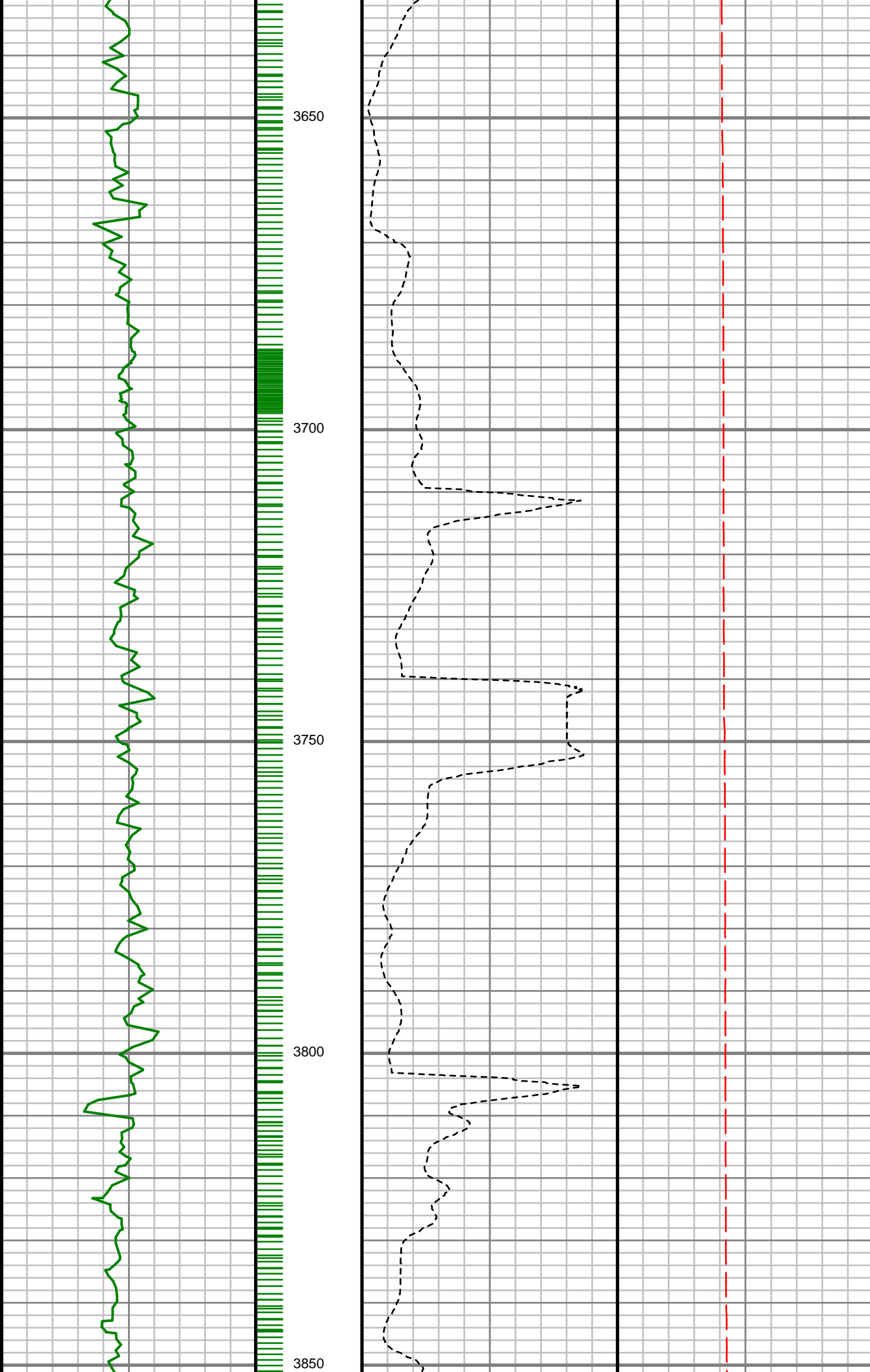
S: 35 MD: 3281.00 ft
Inc: 10.92 deg Az:
292.45 deg TVD:
3229.56 ft

S: 36 MD: 3374.00 ft
Inc: 10.00 deg Az:
287.95 deg TVD:
3321.02 ft



S: 37 MD: 3468.00 ft
Inc: 9.44 deg Az:
287.04 deg TVD:
3413.67 ft

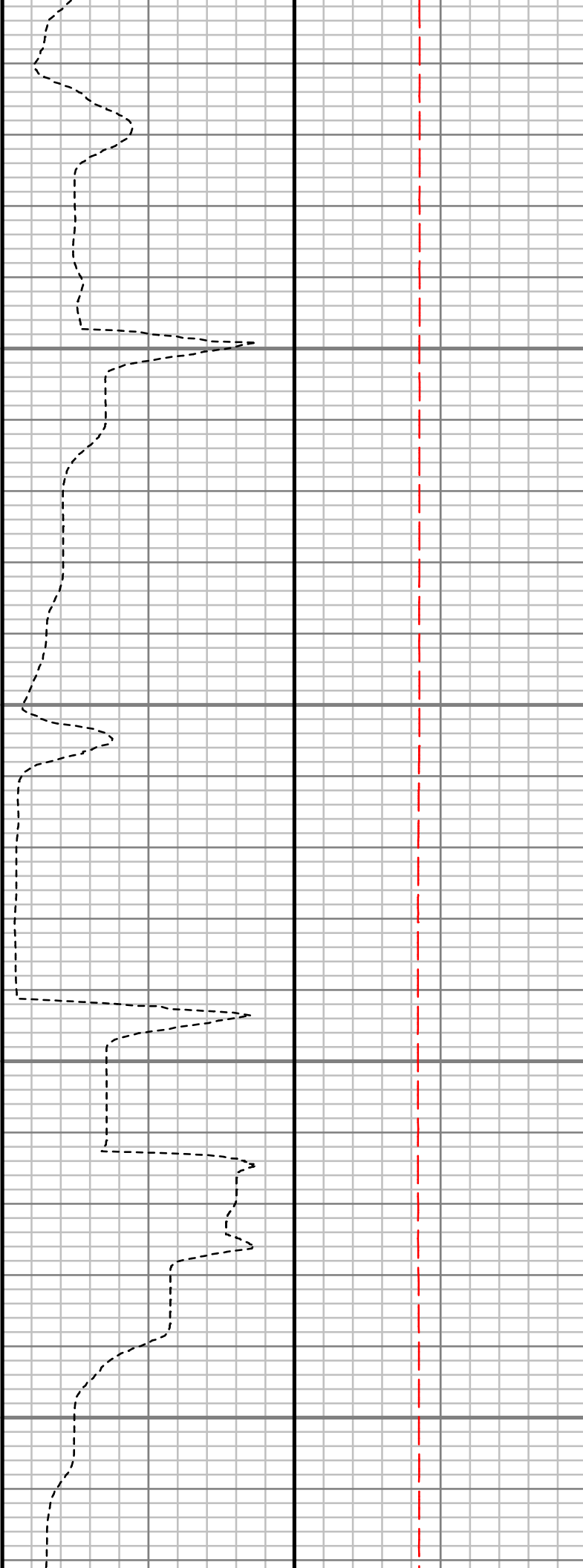
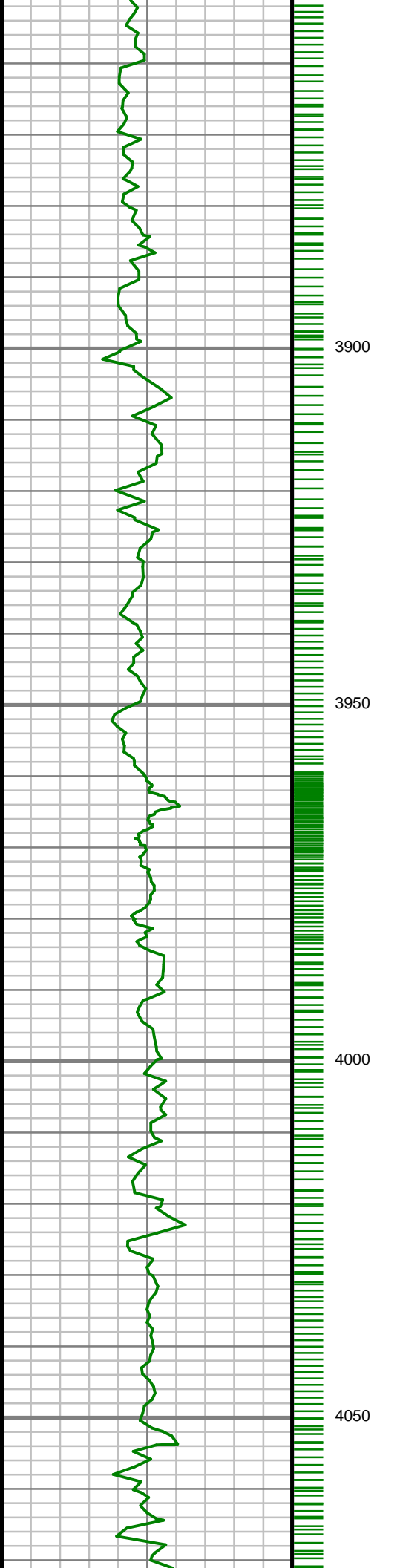
S: 38 MD: 3562.00 ft
Inc: 10.06 deg Az:
287.58 deg TVD:
3506.31 ft



S: 39 MD: 3656.00 ft
Inc: 9.53 deg Az:
284.84 deg TVD:
3598.94 ft

S: 40 MD: 3750.00 ft
Inc: 9.73 deg Az:
291.58 deg TVD:
3691.62 ft

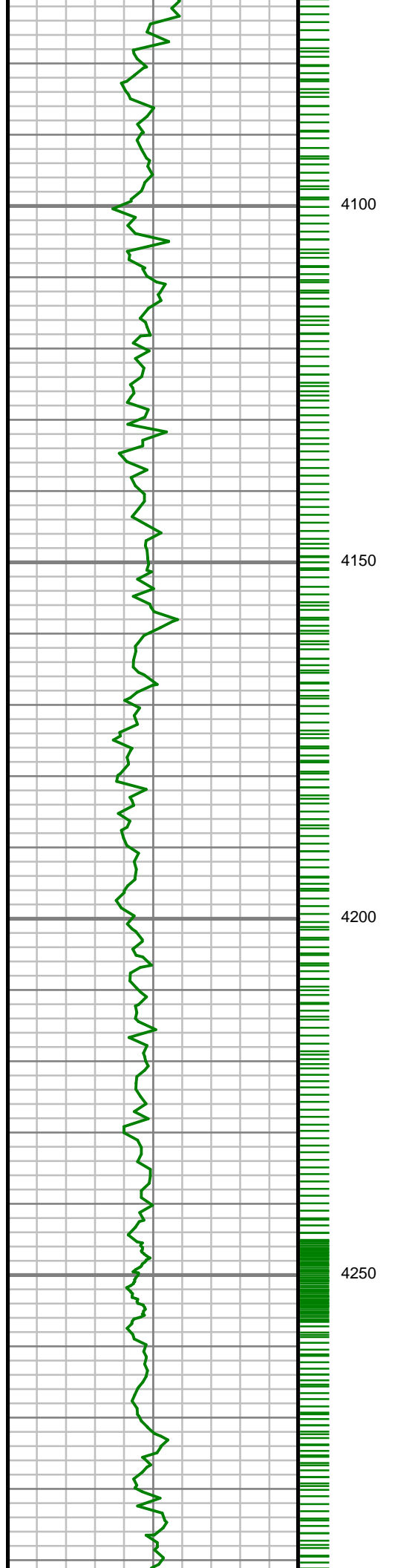
S: 41 MD: 3844.00 ft
Inc: 9.36 deg Az:
296.62 deg TVD:



3784.32 ft

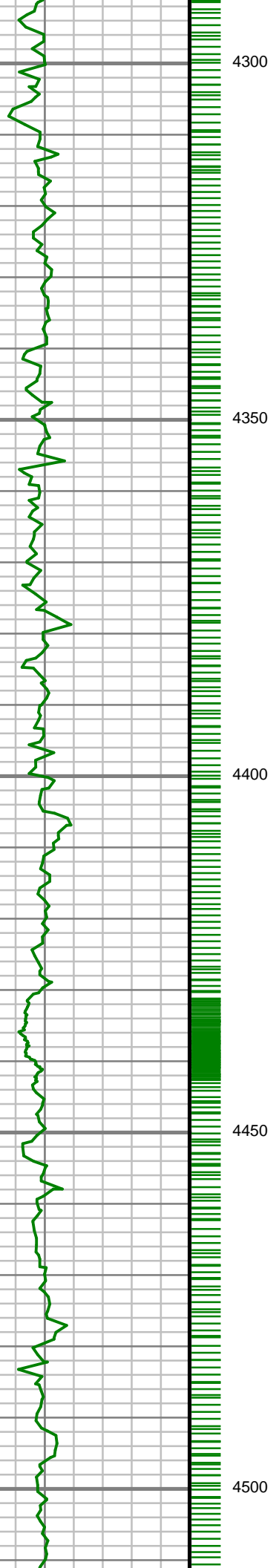
S: 42 MD: 3939.00 ft
Inc: 8.93 deg Az:
294.41 deg TVD:
3878.11 ft

S: 43 MD: 4033.00 ft
Inc: 6.80 deg Az:
293.28 deg TVD:
3971.22 ft



S: 44 MD: 4126.00 ft
Inc: 6.41 deg Az:
296.91 deg TVD:
4063.61 ft

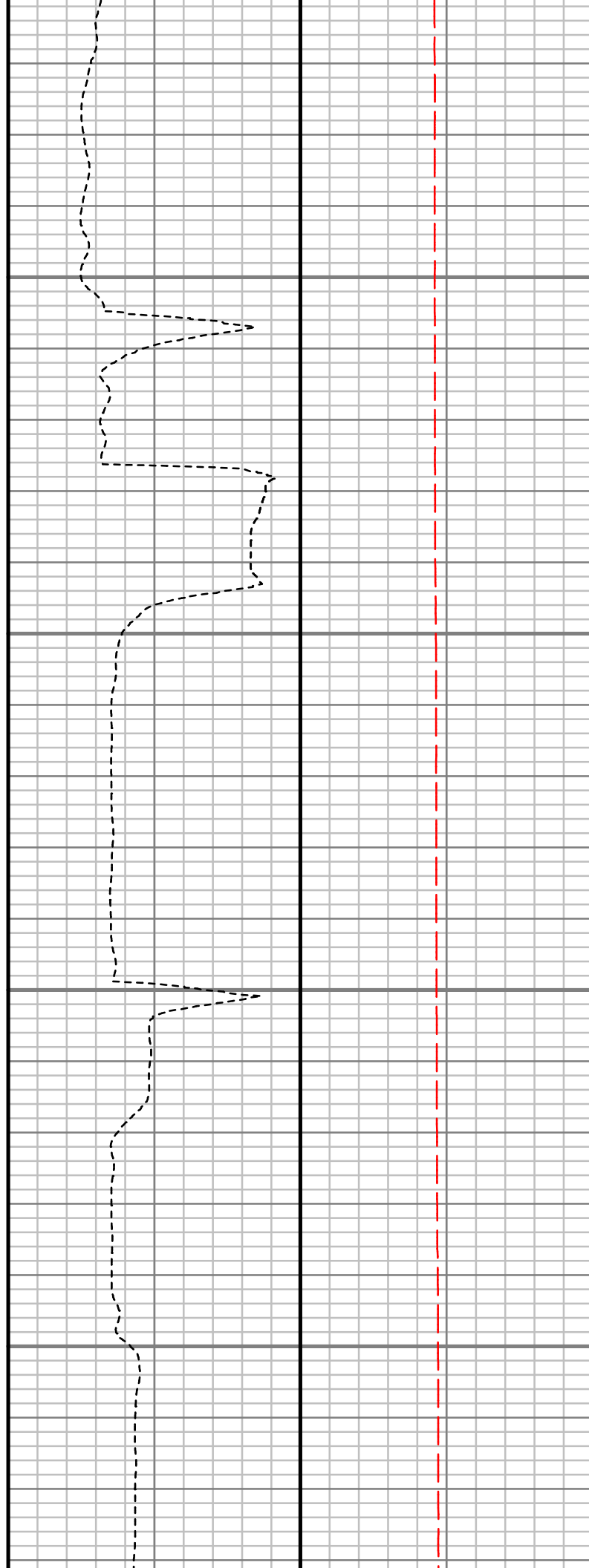
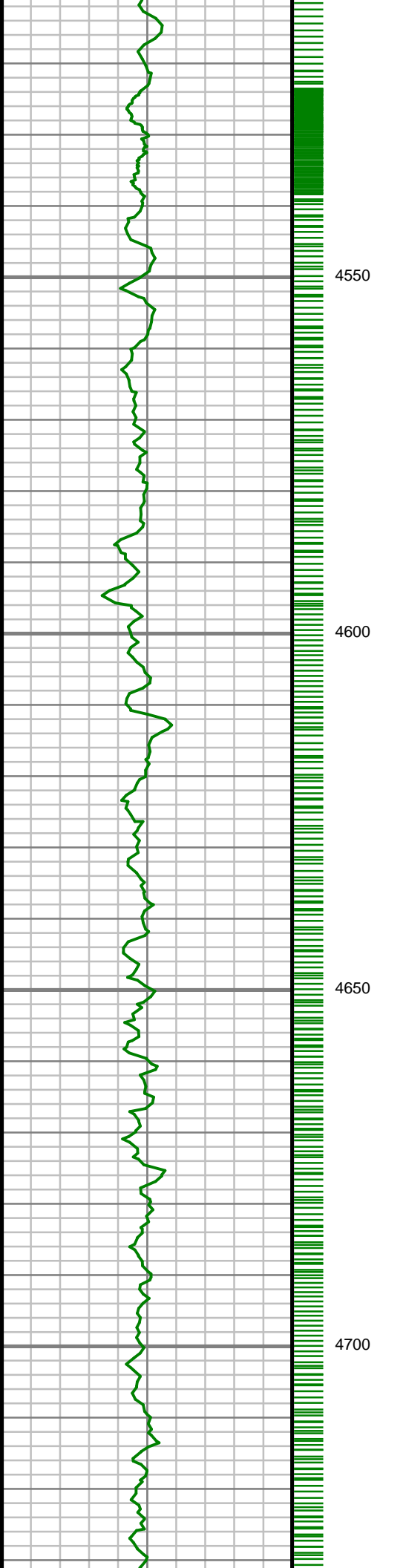
S: 45 MD: 4221.00 ft
Inc: 5.75 deg Az:
298.95 deg TVD:
4158.07 ft



S: 46 MD: 4315.00 ft
Inc: 4.46 deg Az:
306.31 deg TVD:
4251.70 ft

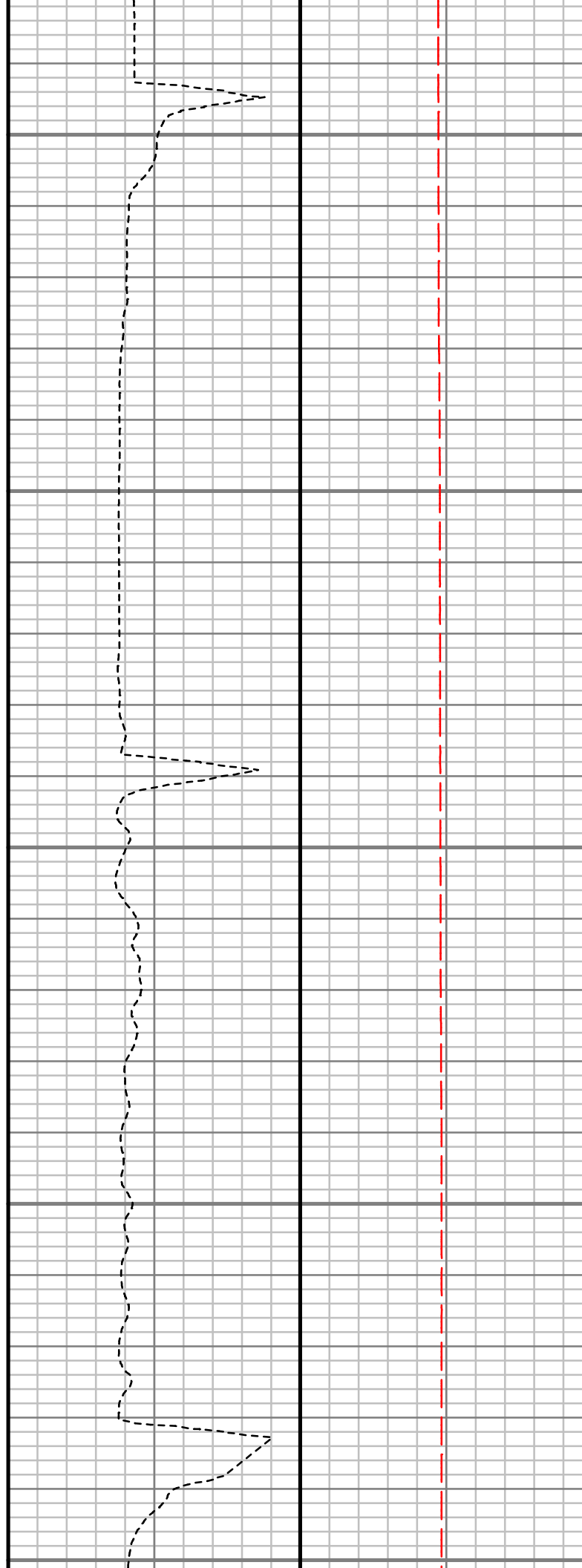
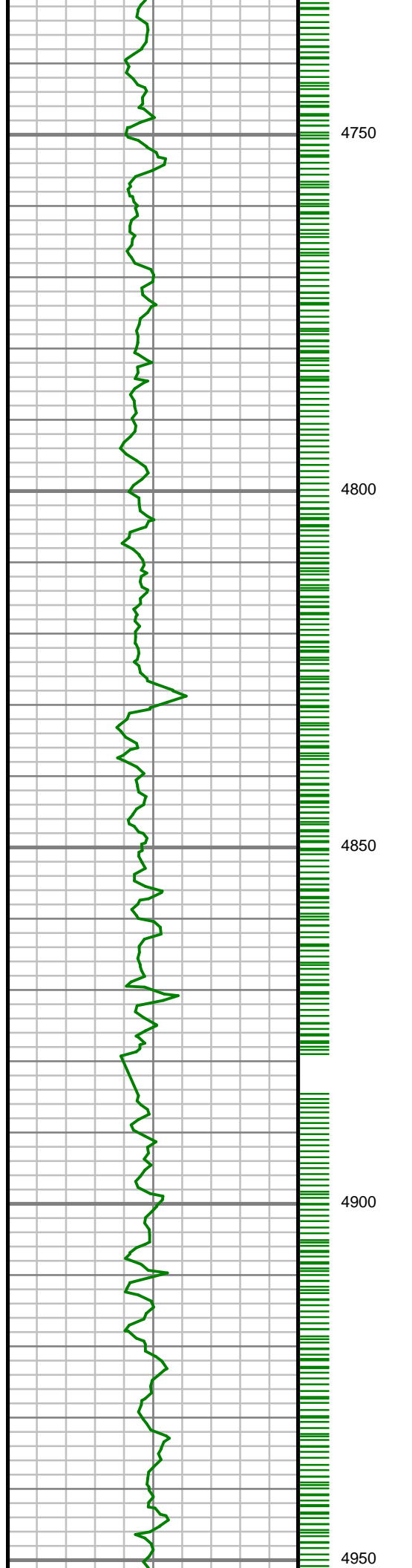
S: 47 MD: 4409.00 ft
Inc: 4.29 deg Az:
303.34 deg TVD:
4345.42 ft

S: 48 MD: 4503.00 ft
Inc: 3.35 deg Az:
315.22 deg TVD:



S: 49 MD: 4597.00 ft
Inc: 1.09 deg Az:
253.94 deg TVD:
4533.15 ft

S: 50 MD: 4691.00 ft
Inc: 0.97 deg Az:
236.87 deg TVD:
4627.13 ft



S: 51 MD: 4785.00 ft
Inc: 0.72 deg Az:
237.38 deg TVD:
4721.12 ft

S: 52 MD: 4878.00 ft
Inc: 1.01 deg Az:
283.58 deg TVD:
4814.11 ft



5000

5050

5100

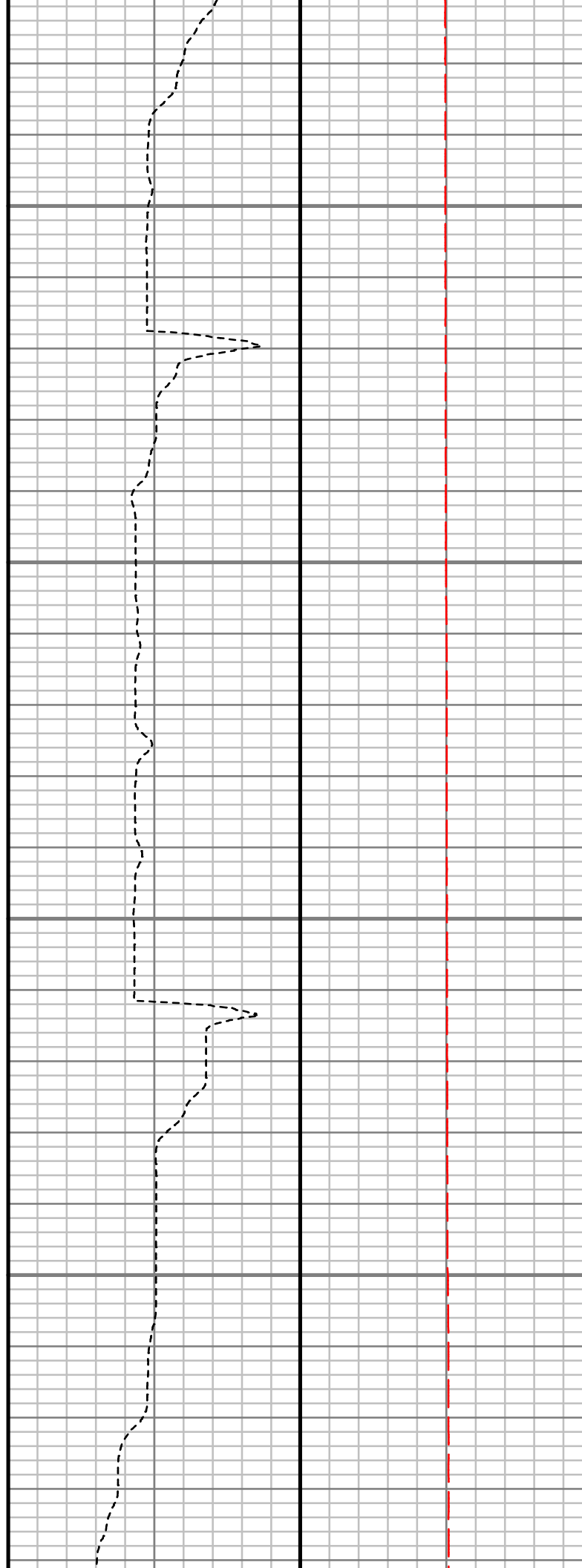
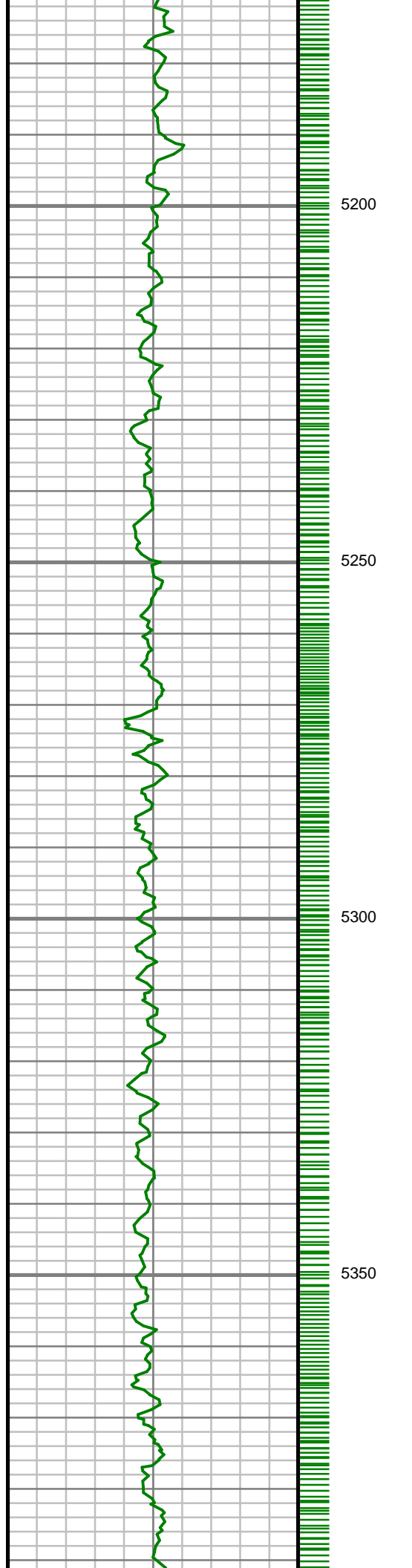
5150



S: 53 MD: 4972.00 ft
Inc: 0.95 deg Az:
294.43 deg TVD:
4908.10 ft

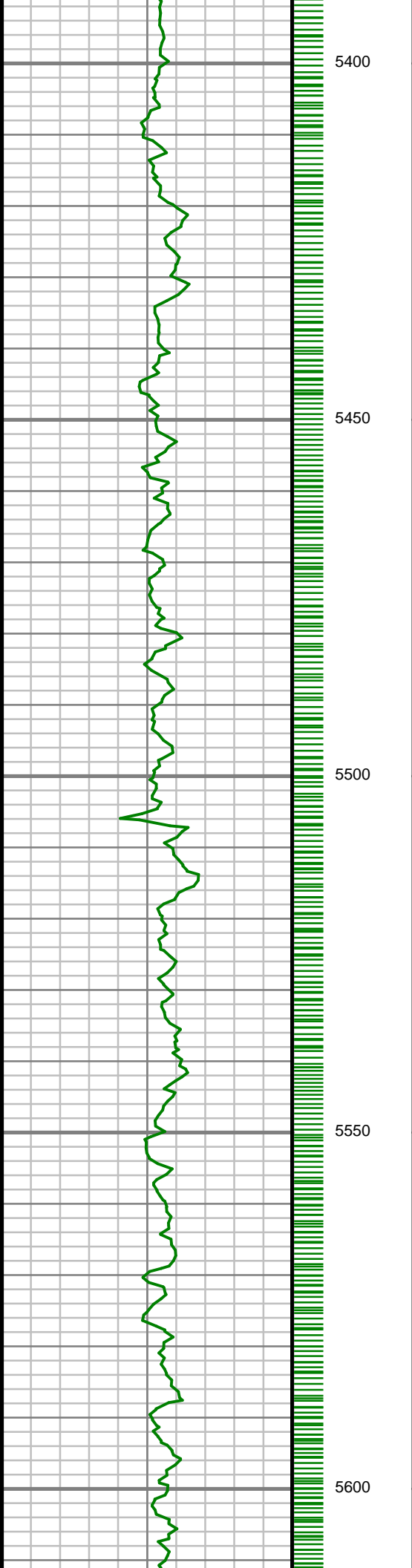
S: 54 MD: 5066.00 ft
Inc: 0.74 deg Az:
279.13 deg TVD:
5002.09 ft

S: 55 MD: 5160.00 ft
Inc: 0.26 deg Az:
354.56 deg TVD:
5096.09 ft



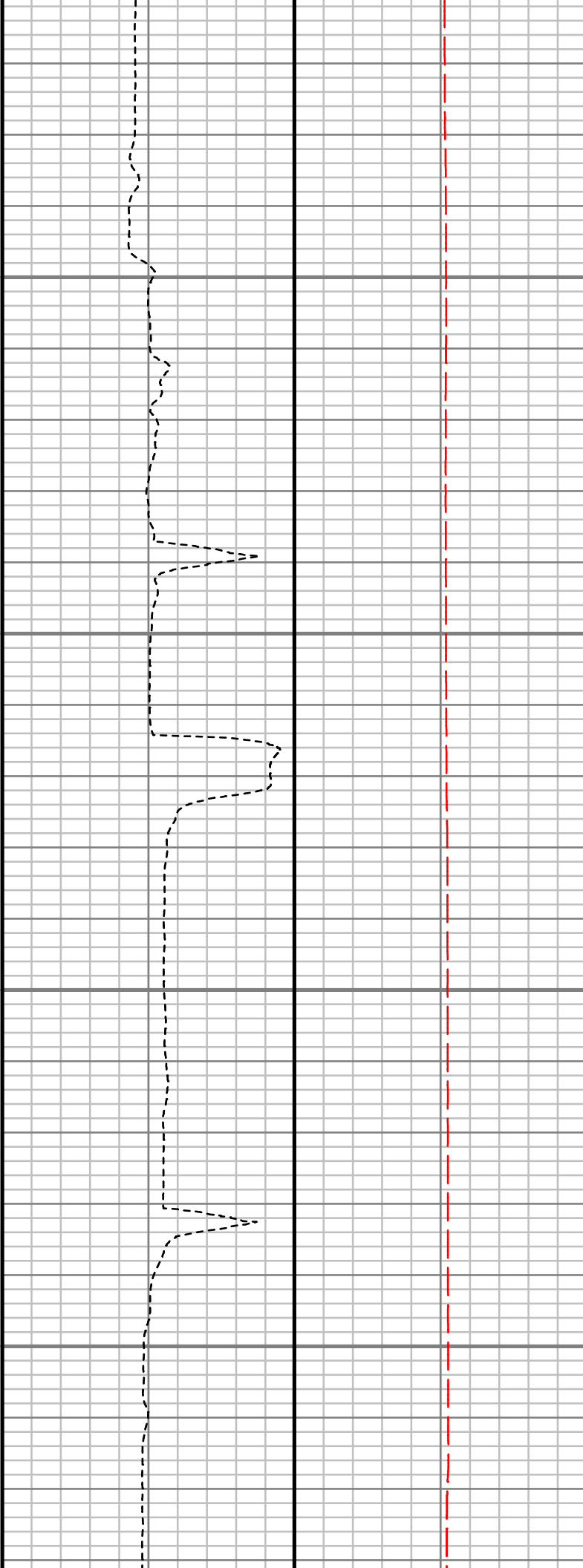
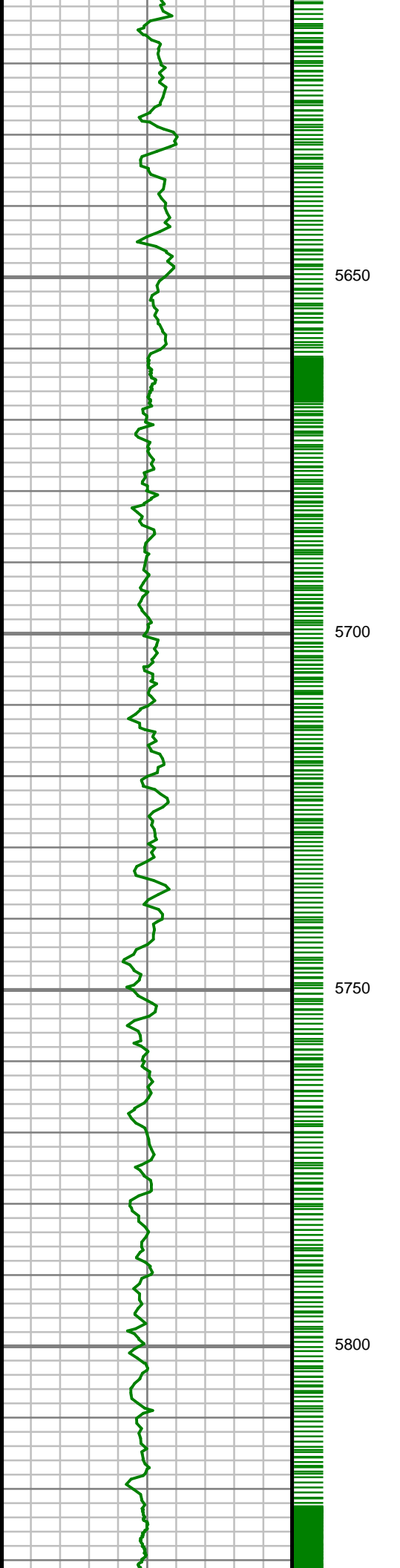
S: 56 MD: 5254.00 ft
Inc: 0.41 deg Az:
348.68 deg TVD:
5190.08 ft

S: 57 MD: 5348.00 ft
Inc: 0.63 deg Az:
335.14 deg TVD:
5284.08 ft



S: 58 MD: 5443.00 ft
Inc: 0.60 deg Az:
349.74 deg TVD:
5379.07 ft

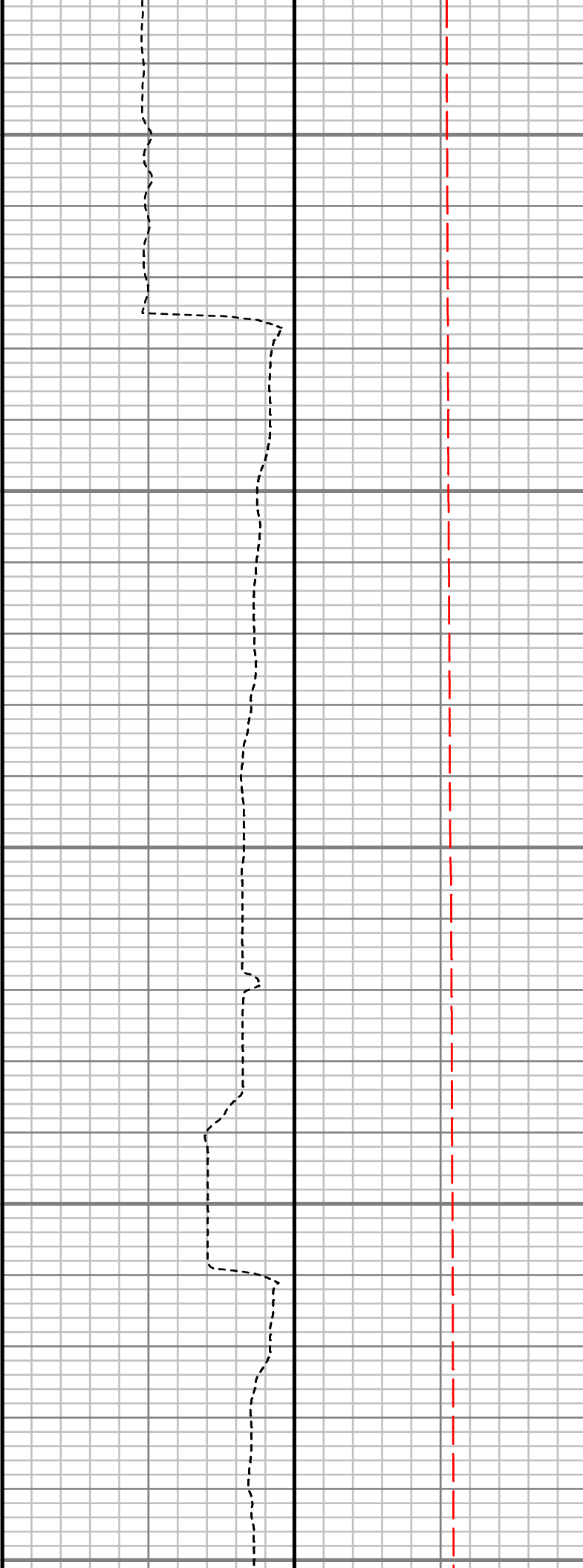
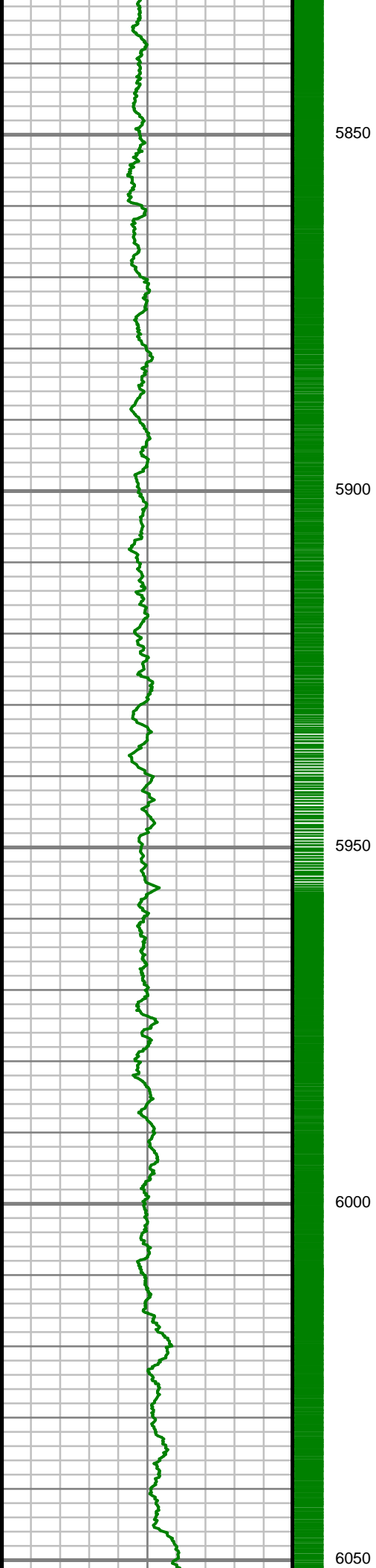
S: 59 MD: 5536.00 ft
Inc: 0.73 deg Az:
340.48 deg TVD:
5472.07 ft



S: 60 MD: 5630.00 ft
Inc: 0.36 deg Az:
316.77 deg TVD:
5566.06 ft

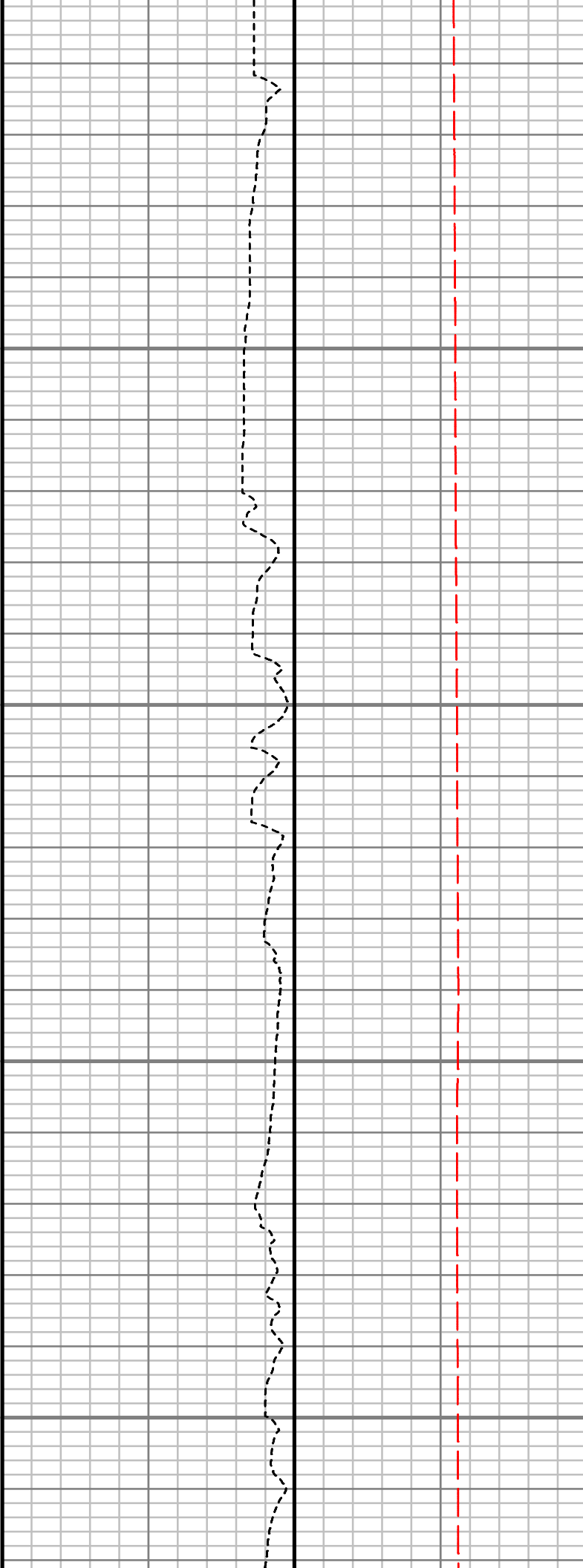
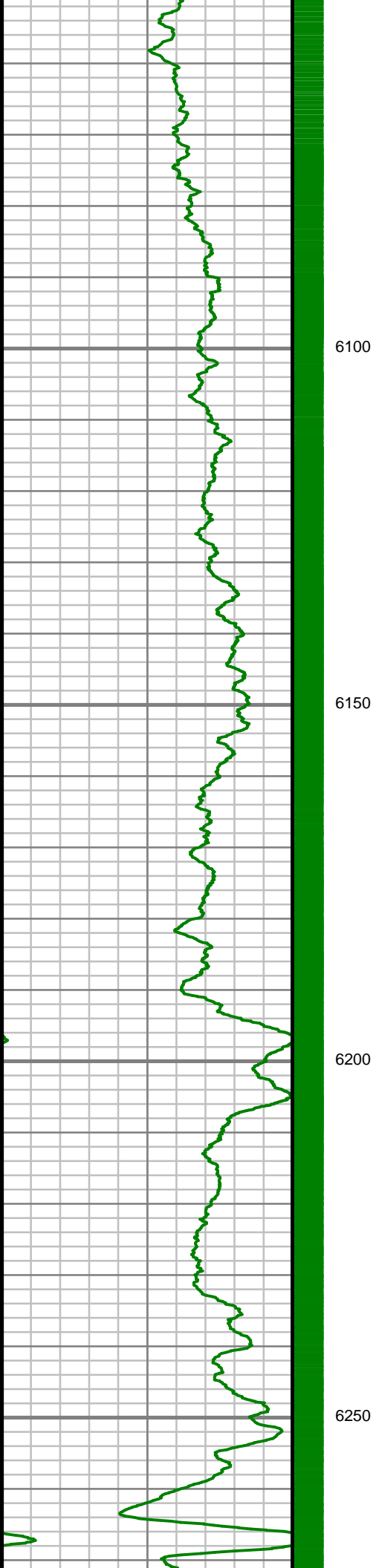
S: 61 MD: 5723.00 ft
Inc: 1.40 deg Az: 57.05
deg TVD: 5659.05 ft

S: 62 MD: 5817.00 ft
Inc: 1.31 deg Az: 80.52
deg TVD: 5753.03 ft



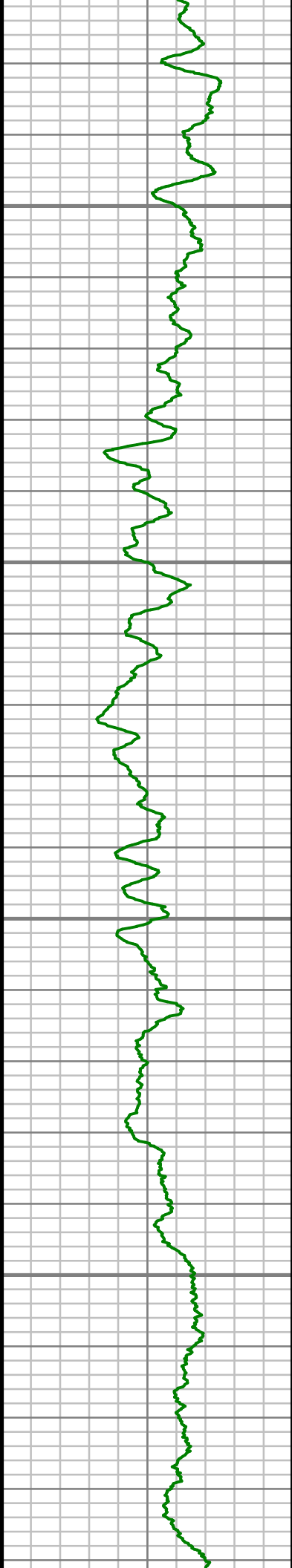
S: 63 MD: 5911.00 ft
Inc: 7.40 deg Az: 85.85
deg TVD: 5846.71 ft

S: 64 MD: 6006.00 ft
Inc: 13.99 deg Az:
82.18 deg TVD:
5940.01 ft



S: 65 MD: 6099.00 ft
Inc: 25.77 deg Az:
92.33 deg TVD:
6027.34 ft

S: 66 MD: 6193.00 ft
Inc: 35.60 deg Az:
99.08 deg TVD:
6108.11 ft

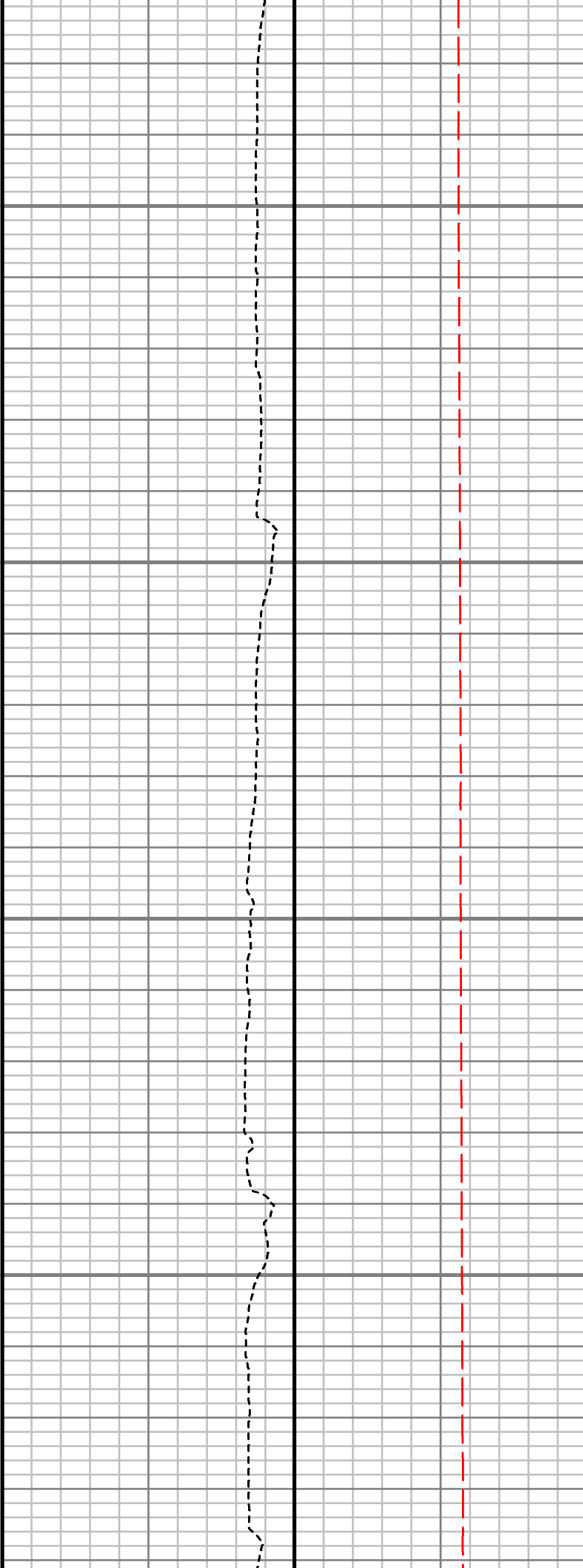


6300

6350

6400

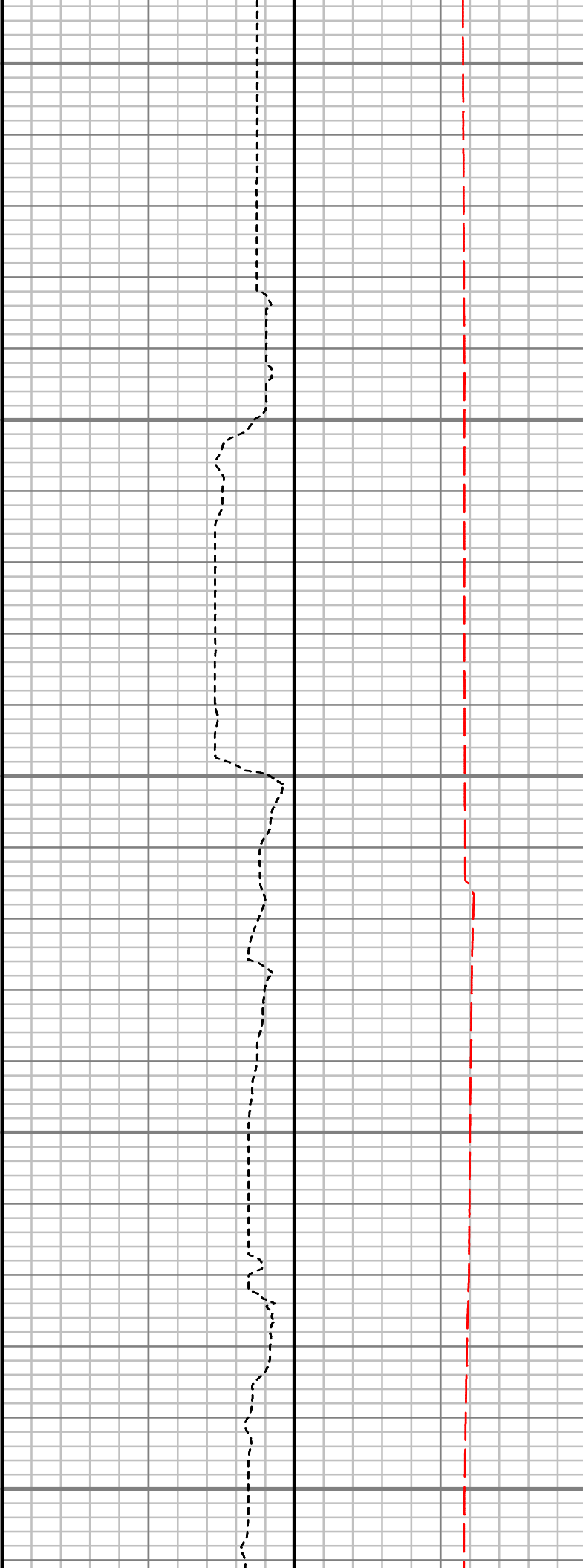
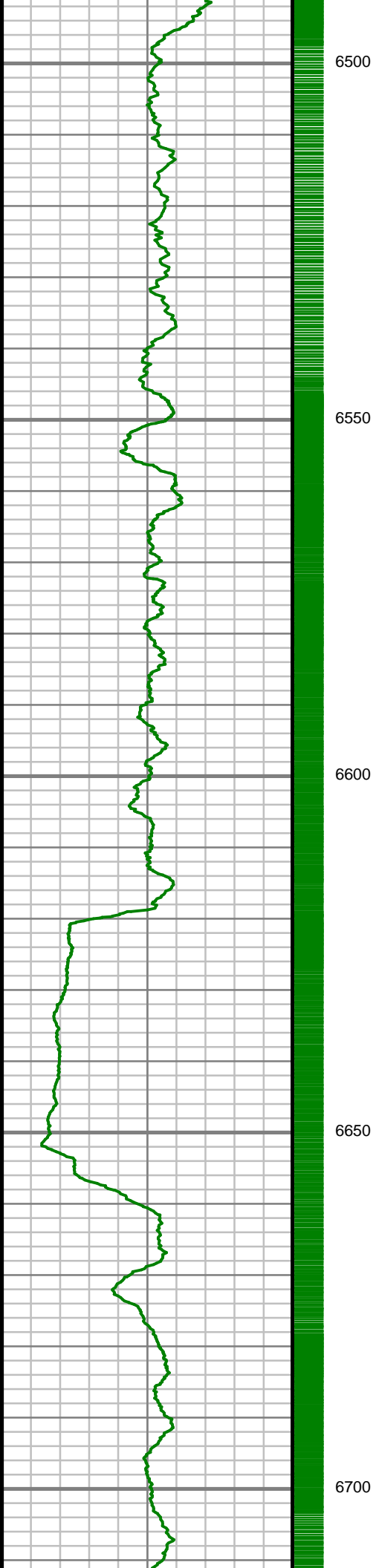
6450



S: 67 MD: 6287.00 ft
Inc: 47.12 deg Az:
103.91 deg TVD:
6178.56 ft

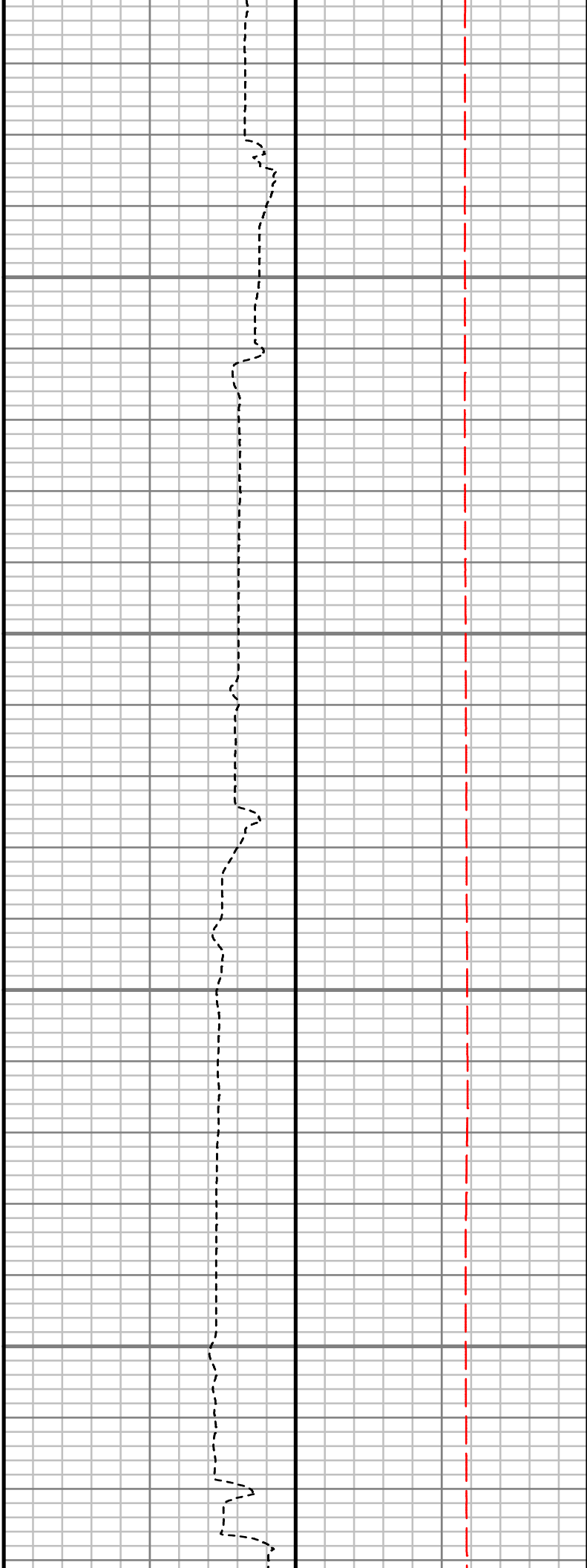
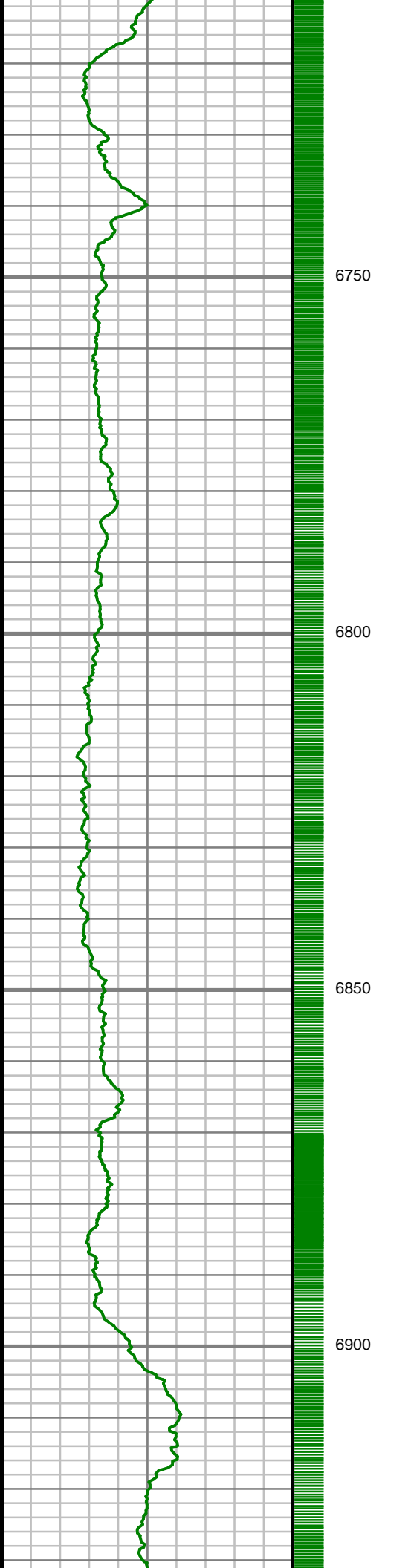
S: 68 MD: 6381.00 ft
Inc: 58.89 deg Az:
98.84 deg TVD:
6235.05 ft

S: 69 MD: 6475.00 ft
Inc: 73.38 deg Az:
99.84 deg TVD:
6272.98 ft



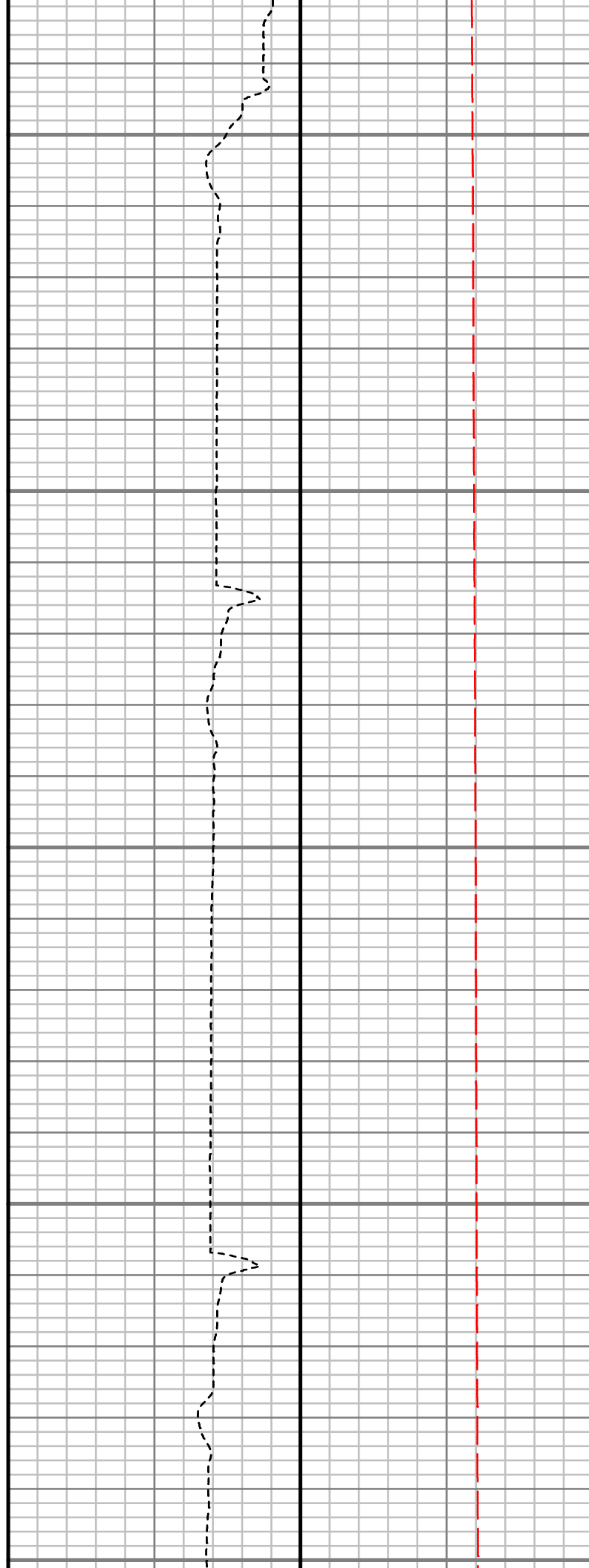
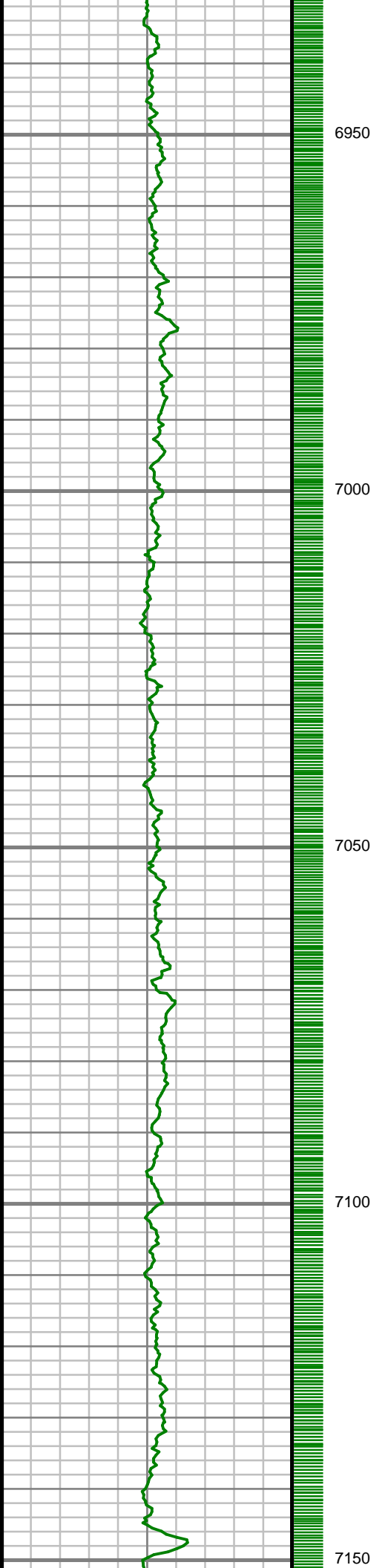
S: 70 MD: 6569.00 ft
Inc: 79.64 deg Az:
105.41 deg TVD:
6294.91 ft

S: 71 MD: 6614.00 ft
Inc: 83.41 deg Az:
102.49 deg TVD:
6301.54 ft



S: 72 MD: 6765.00 ft
Inc: 90.13 deg Az:
100.73 deg TVD:
6310.03 ft

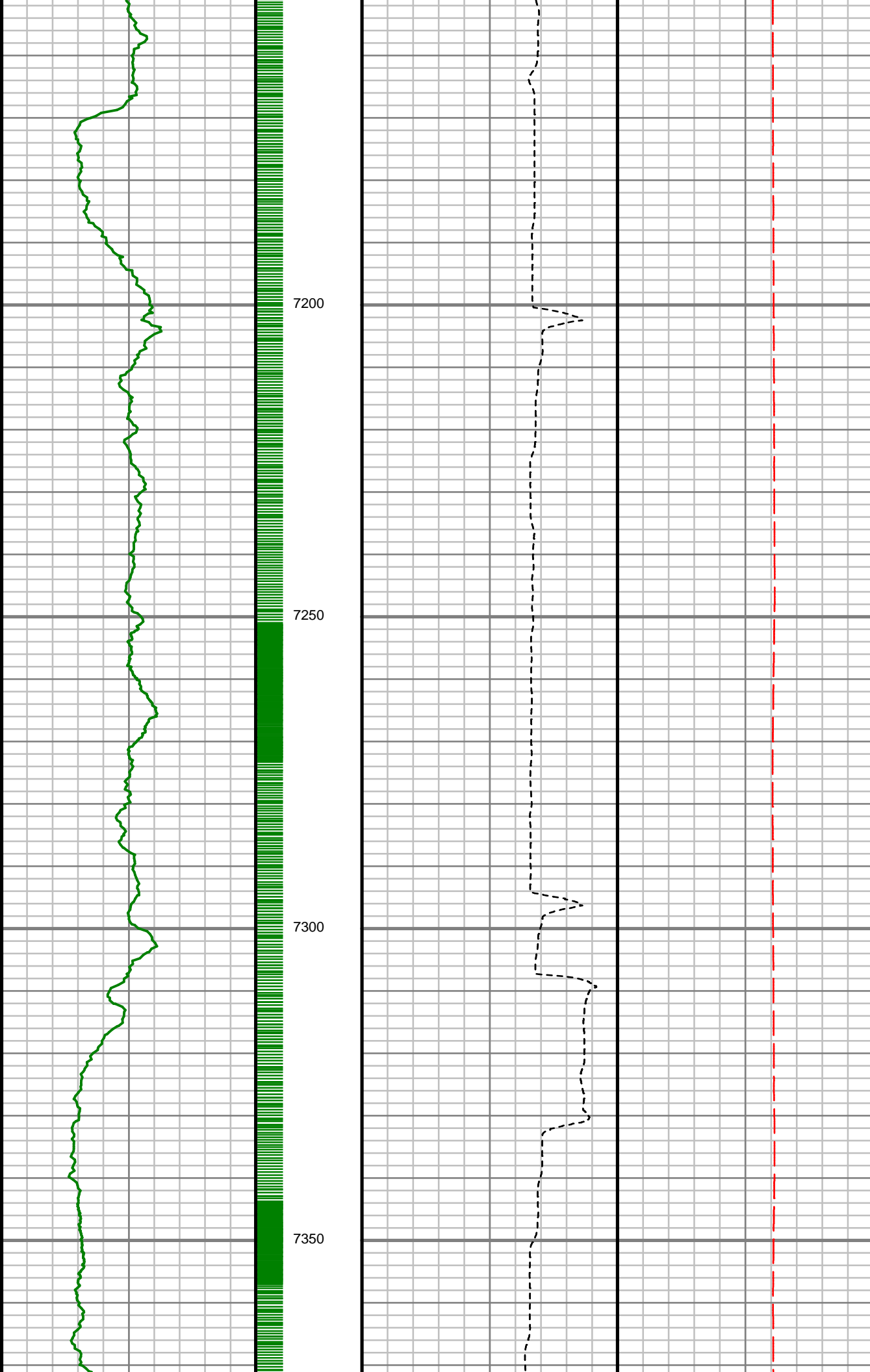
S: 73 MD: 6858.00 ft
Inc: 91.54 deg Az:
99.26 deg TVD:
6308.67 ft



S: 74 MD: 6953.00 ft
Inc: 90.10 deg Az:
99.15 deg TVD:
6307.31 ft

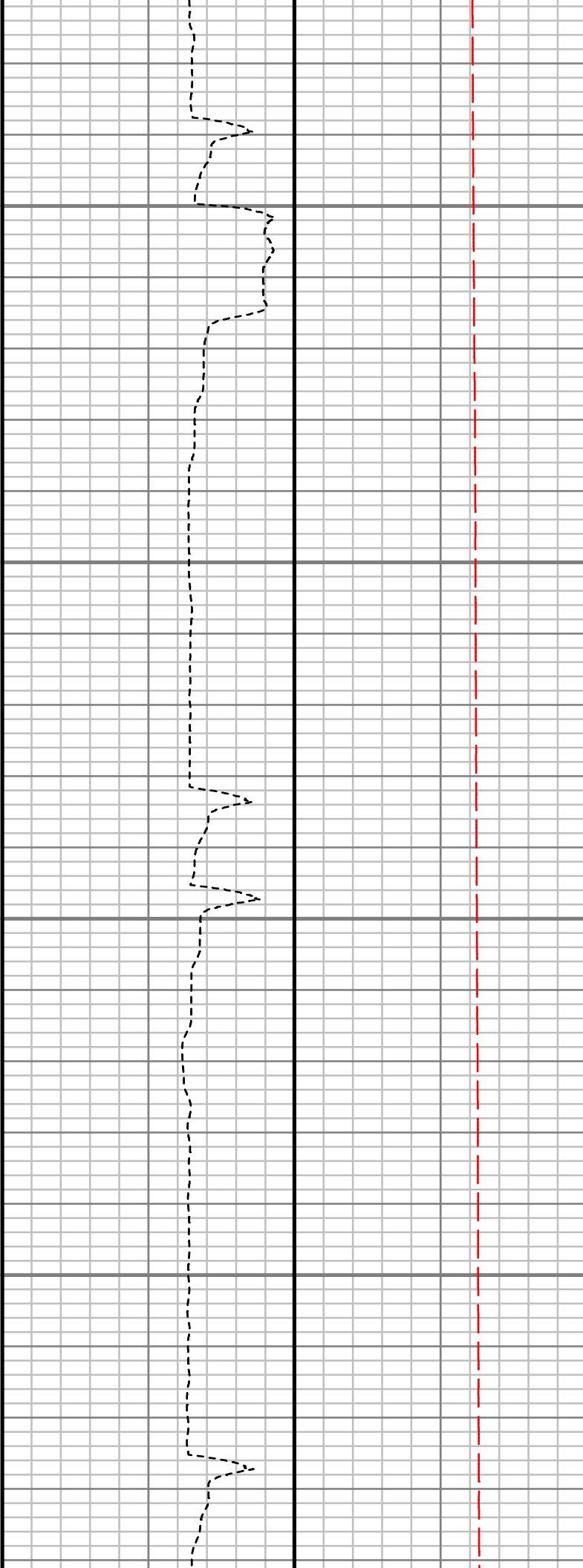
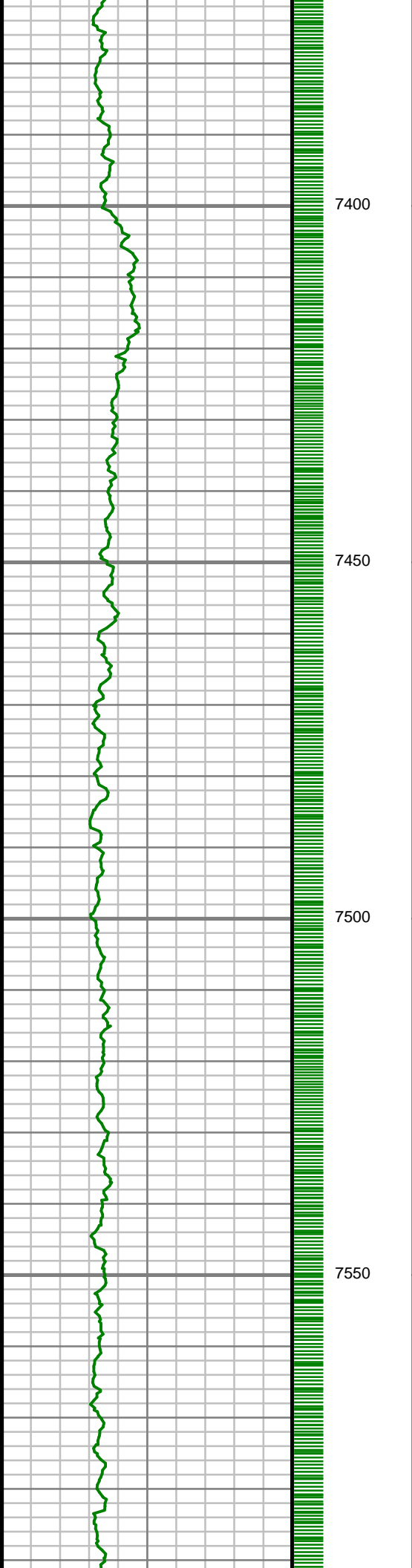
S: 75 MD: 7047.00 ft
Inc: 90.27 deg Az:
97.52 deg TVD:
6307.00 ft

S: 76 MD: 7141.00 ft
Inc: 90.87 deg Az:
97.25 deg TVD:
6306.07 ft



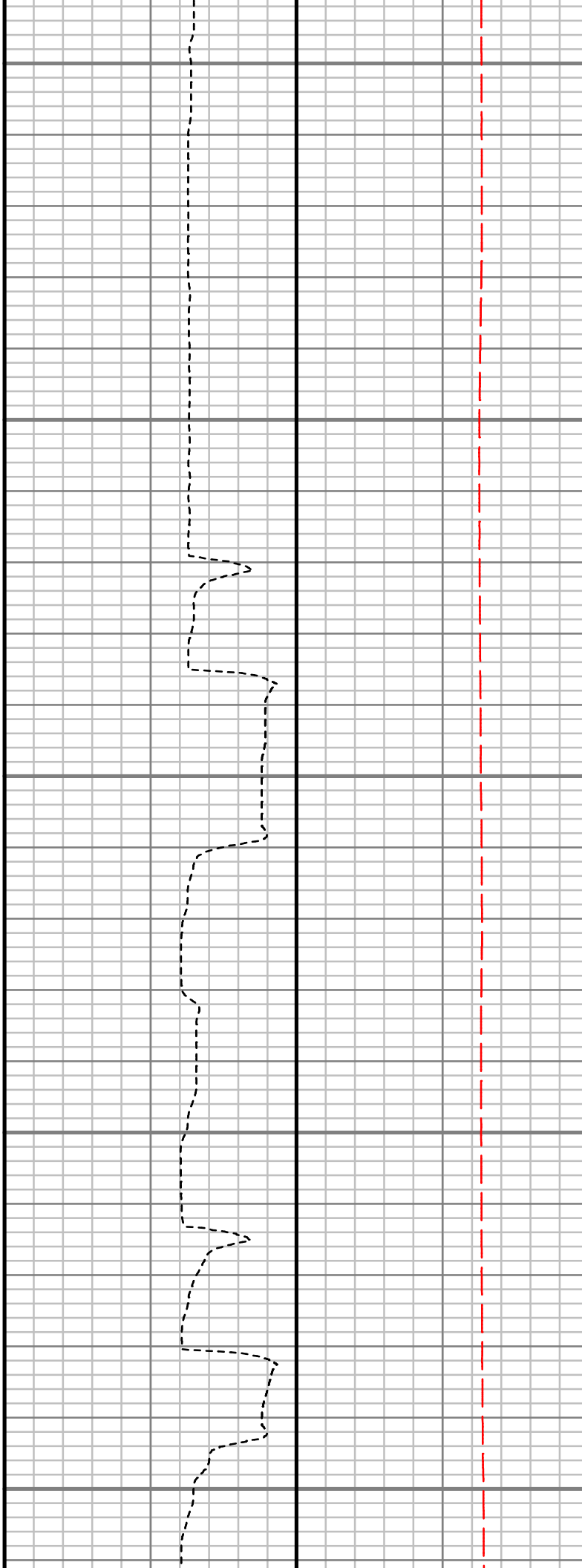
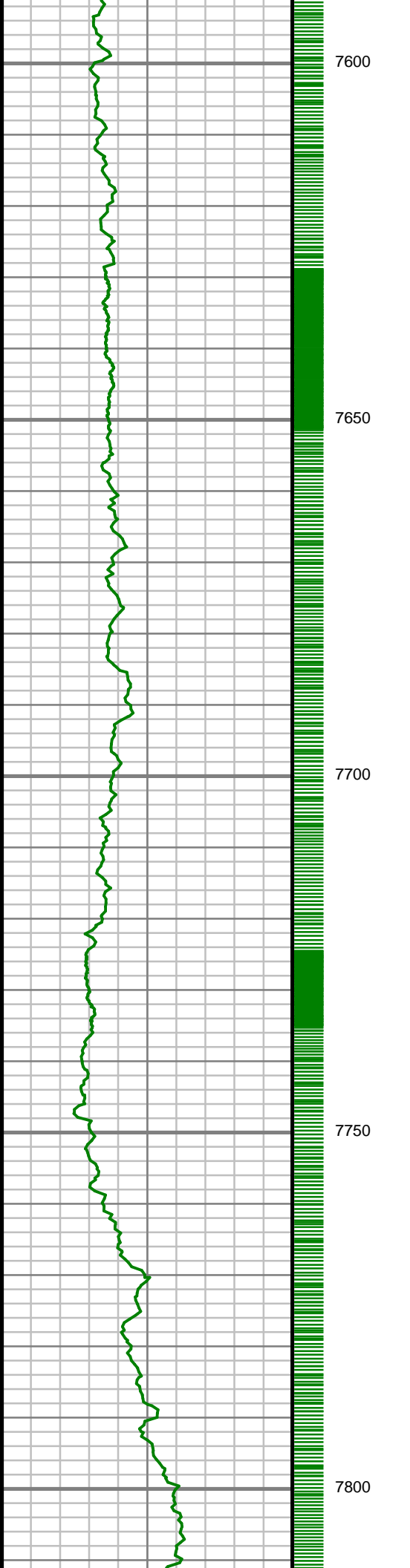
S: 77 MD: 7235.00 ft
Inc: 92.02 deg Az:
97.89 deg TVD:
6303.70 ft

S: 78 MD: 7329.00 ft
Inc: 91.24 deg Az:
94.51 deg TVD:
6301.03 ft



S: 79 MD: 7423.00 ft
Inc: 90.30 deg Az:
93.51 deg TVD:
6299.76 ft

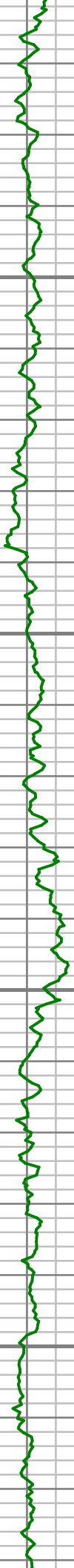
S: 80 MD: 7517.00 ft
Inc: 90.94 deg Az:
92.65 deg TVD:
6298.74 ft



S: 81 MD: 7611.00 ft
Inc: 90.91 deg Az:
94.66 deg TVD:
6297.23 ft

S: 82 MD: 7705.00 ft
Inc: 89.50 deg Az:
91.67 deg TVD:
6296.90 ft

S: 83 MD: 7798.00 ft
Inc: 89.63 deg Az:
88.78 deg TVD:
6297.61 ft

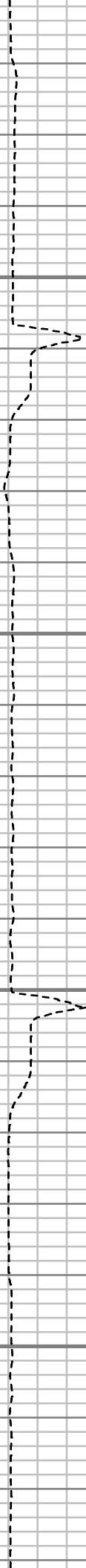


7850

7900

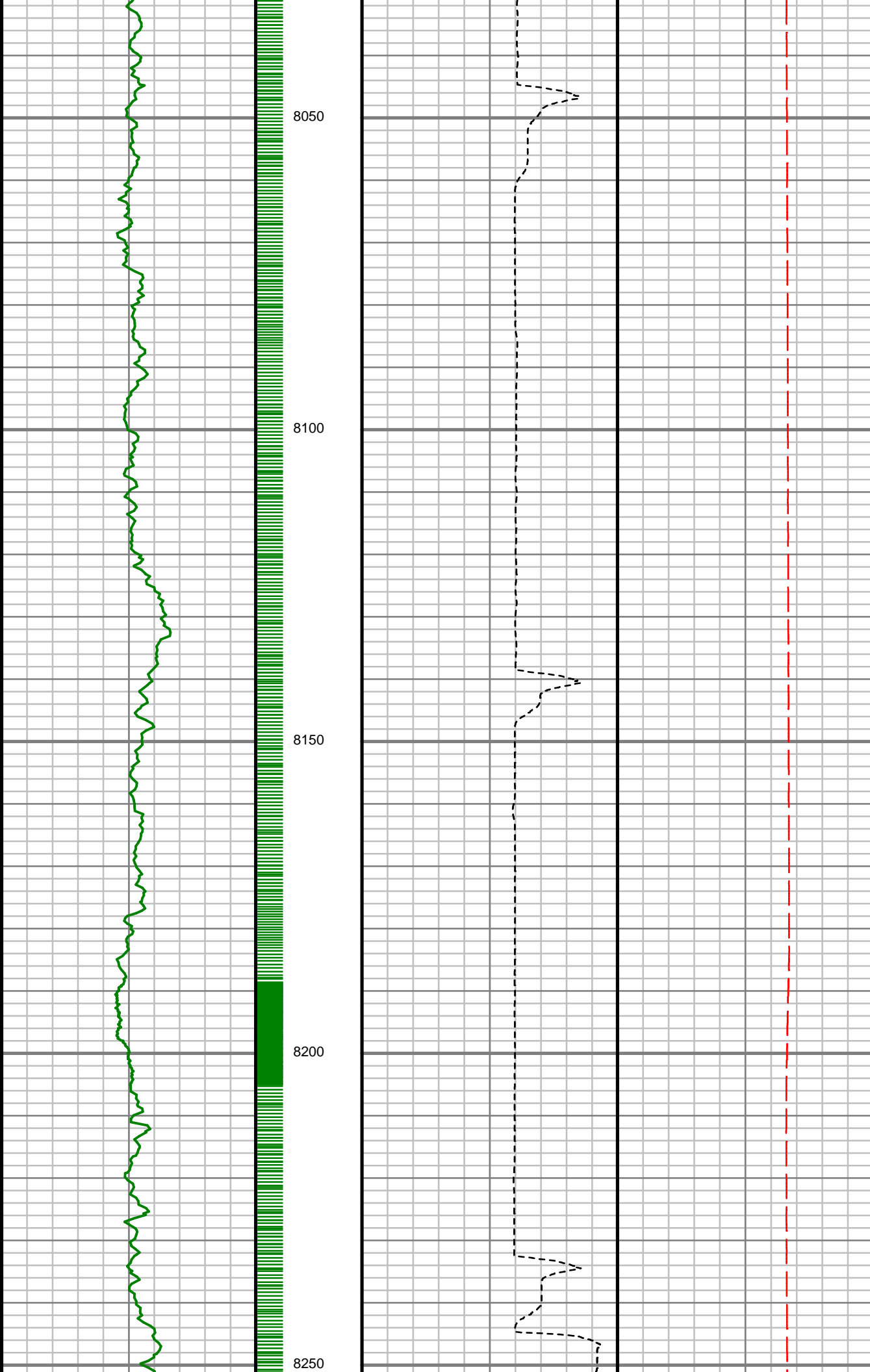
7950

8000



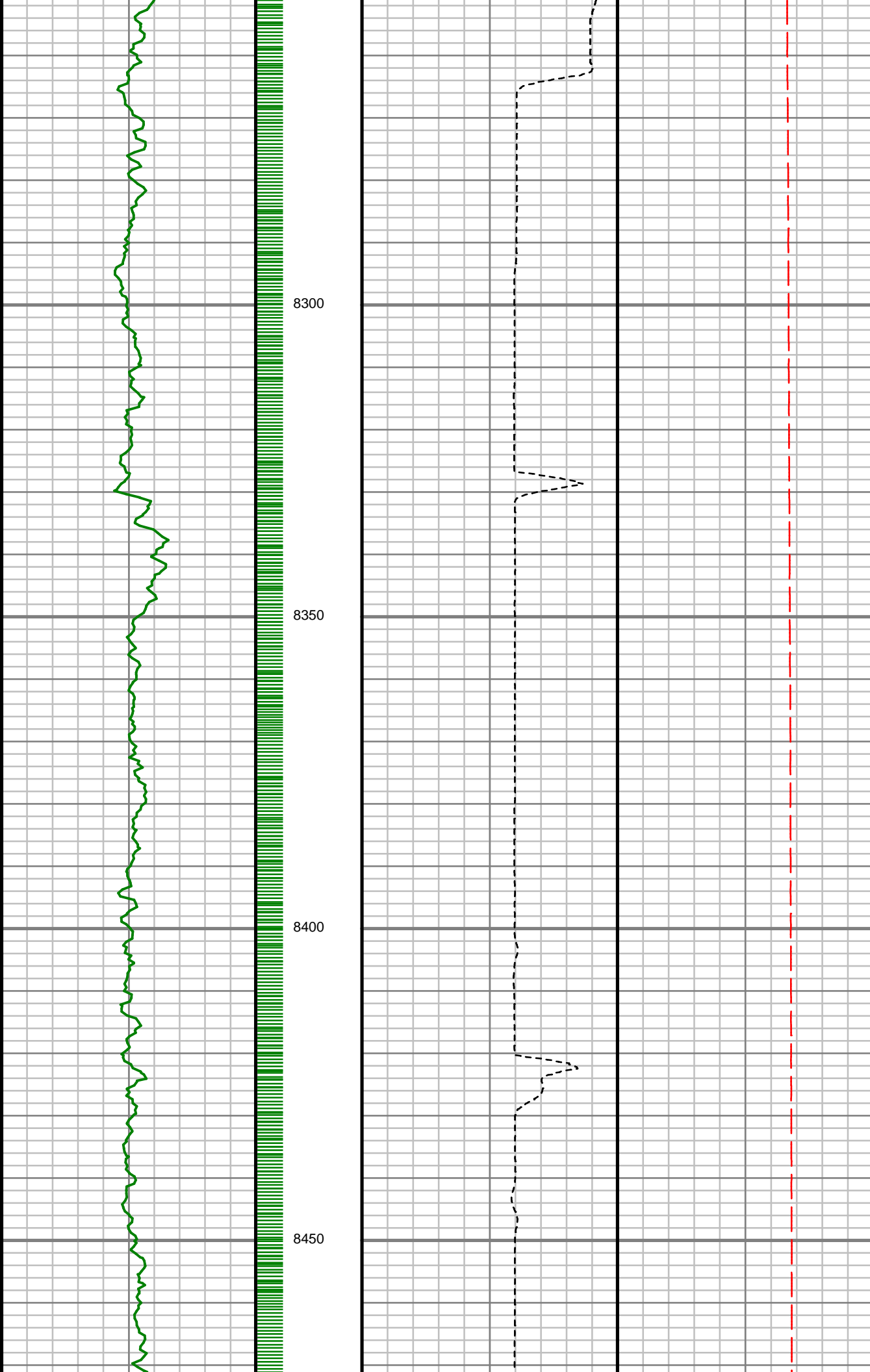
S: 84 MD: 7892.00 ft
Inc: 89.50 deg Az:
88.52 deg TVD:
6298.32 ft

S: 85 MD: 7986.00 ft
Inc: 90.17 deg Az:
87.95 deg TVD:
6298.60 ft



S: 86 MD: 8080.00 ft
Inc: 91.01 deg Az:
89.73 deg TVD:
6297.63 ft

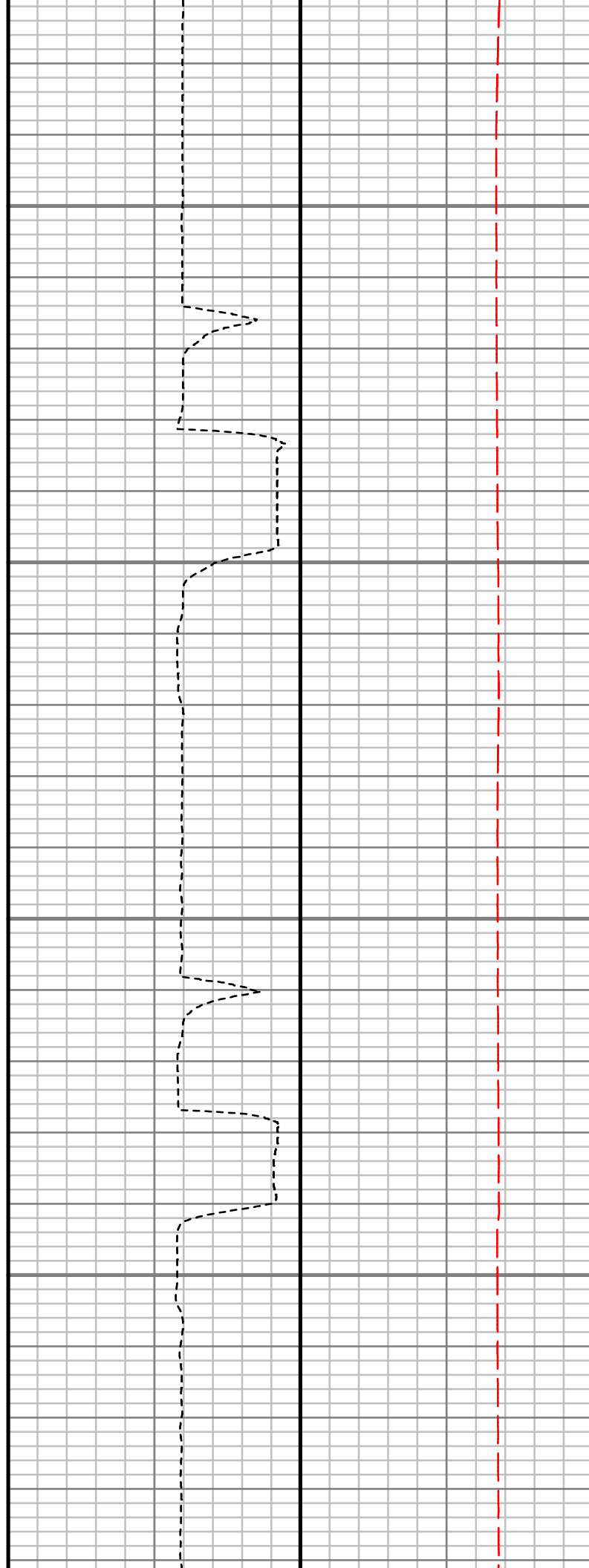
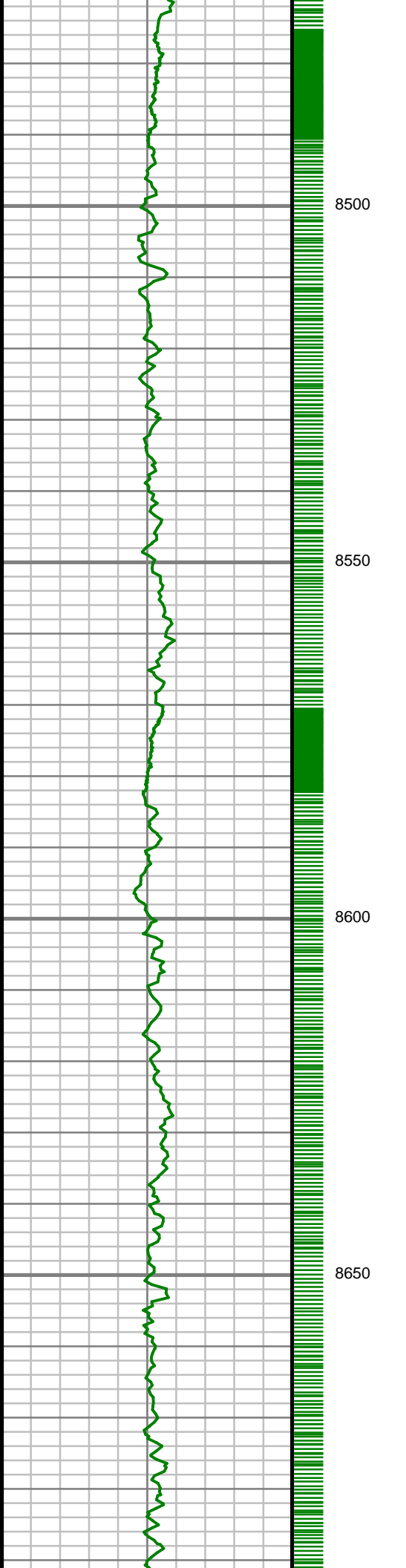
S: 87 MD: 8174.00 ft
Inc: 91.74 deg Az:
89.34 deg TVD:
6295.38 ft



S: 88 MD: 8268.00 ft
Inc: 89.26 deg Az:
91.80 deg TVD:
6294.55 ft

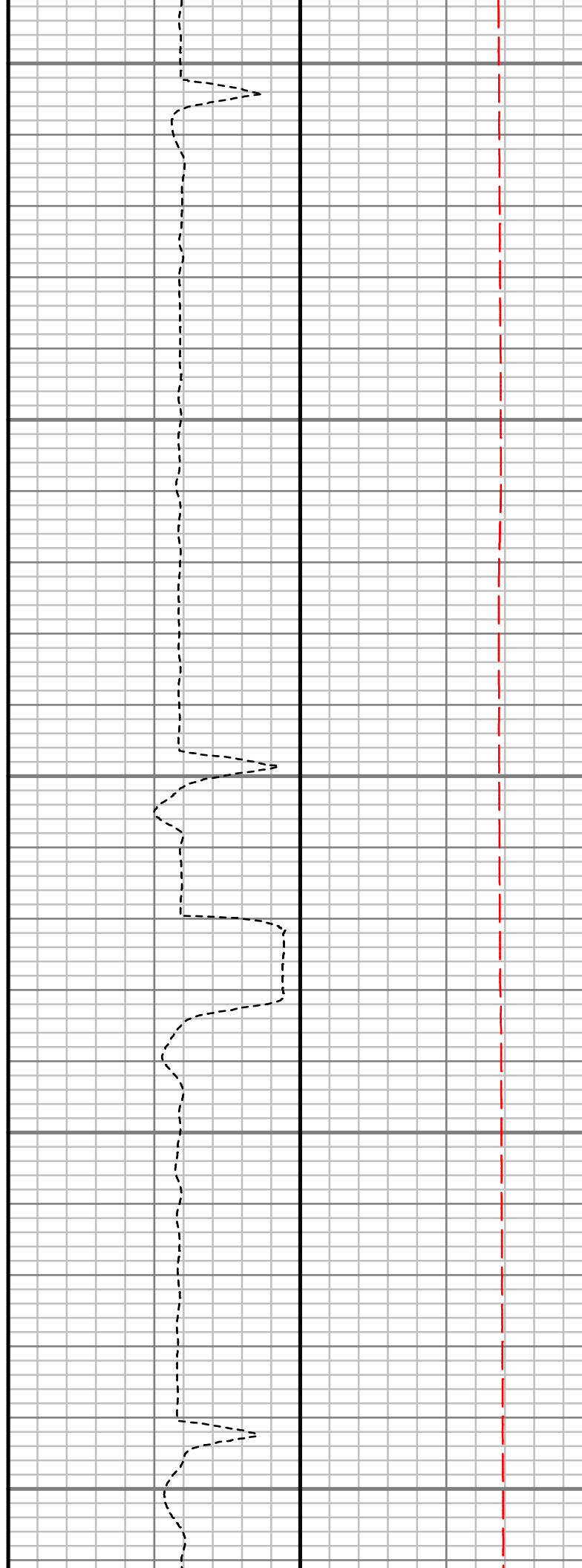
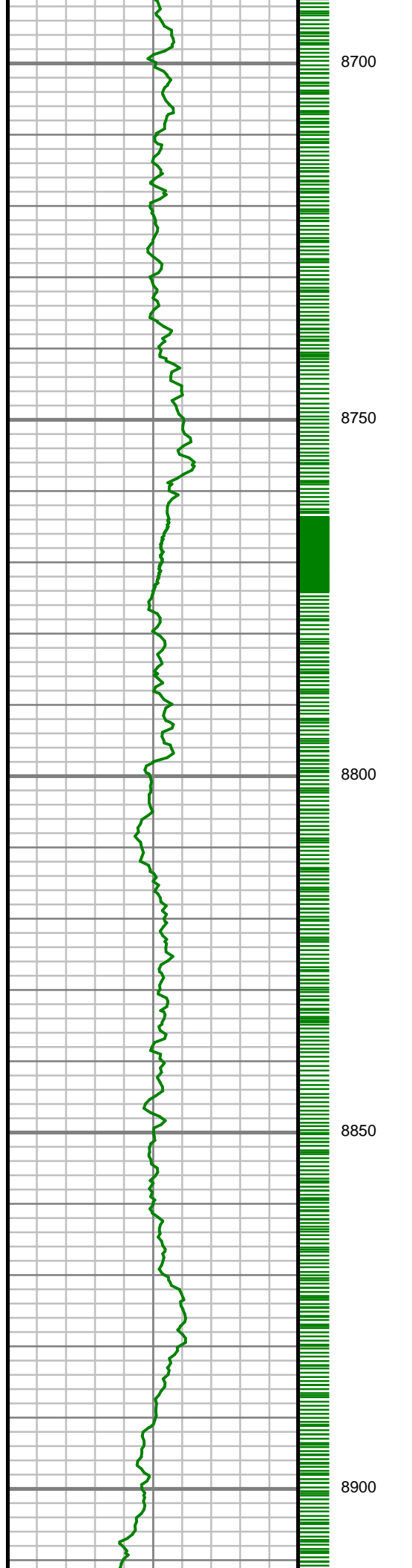
S: 89 MD: 8361.00 ft
Inc: 89.87 deg Az:
91.55 deg TVD:
6295.26 ft

S: 90 MD: 8455.00 ft
Inc: 89.93 deg Az:
91.79 deg TVD:
6295.43 ft



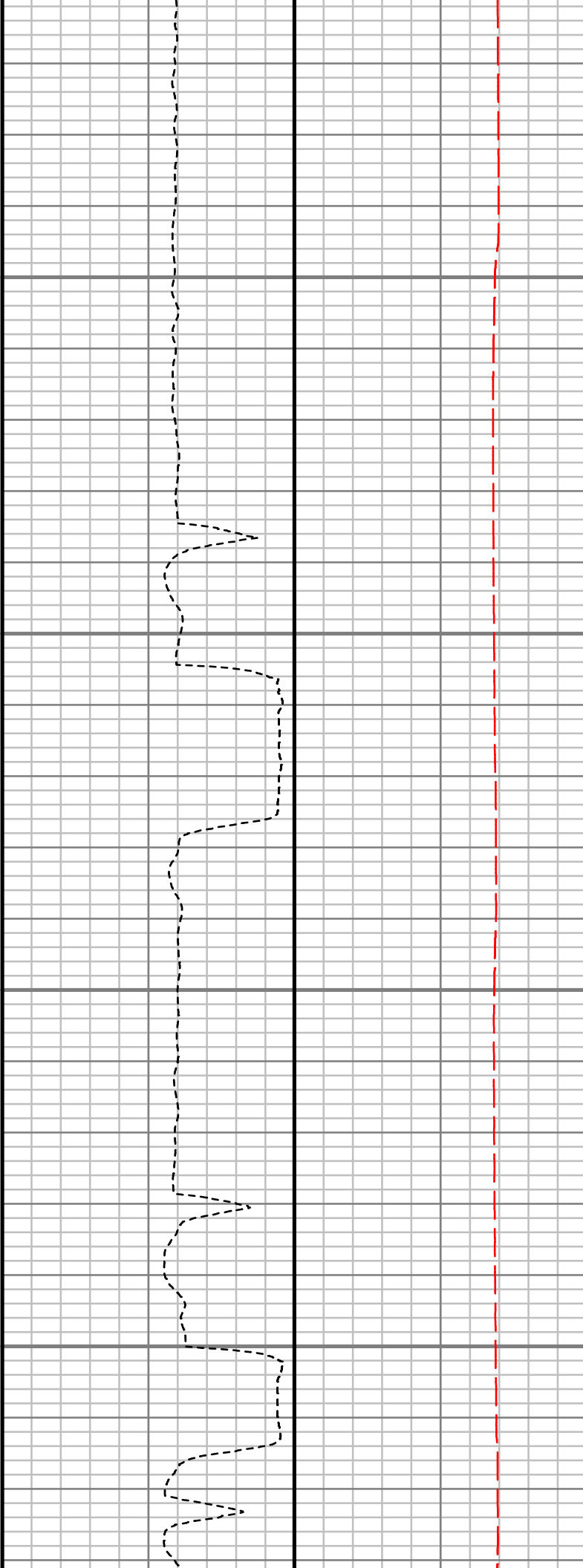
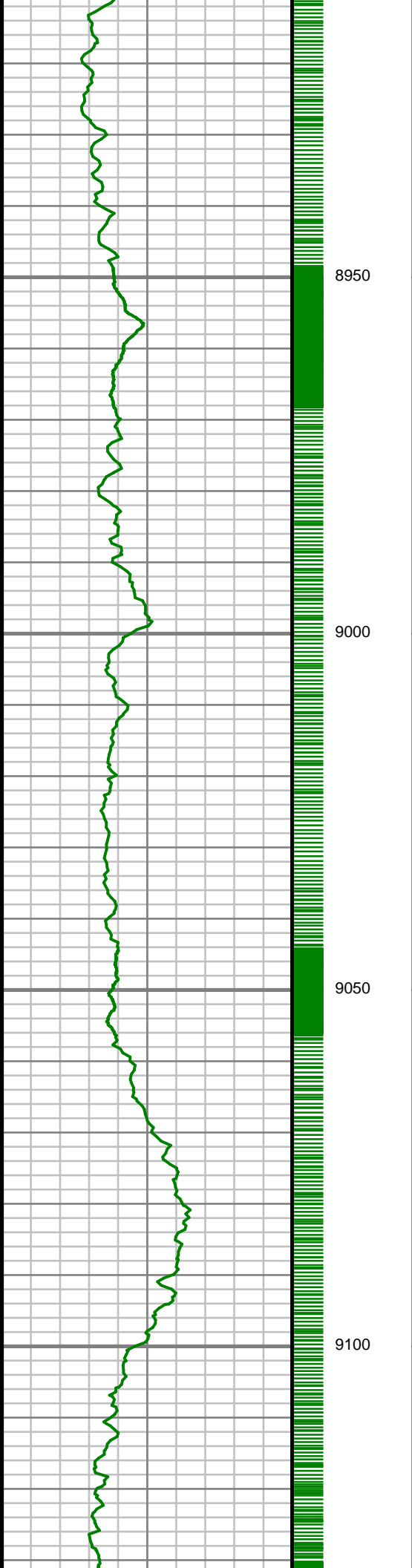
S: 91 MD: 8549.00 ft
Inc: 91.88 deg Az:
89.37 deg TVD:
6293.94 ft

S: 92 MD: 8643.00 ft
Inc: 90.13 deg Az:
89.49 deg TVD:
6292.29 ft



S: 93 MD: 8737.00 ft
Inc: 91.58 deg Az:
90.52 deg TVD:
6290.88 ft

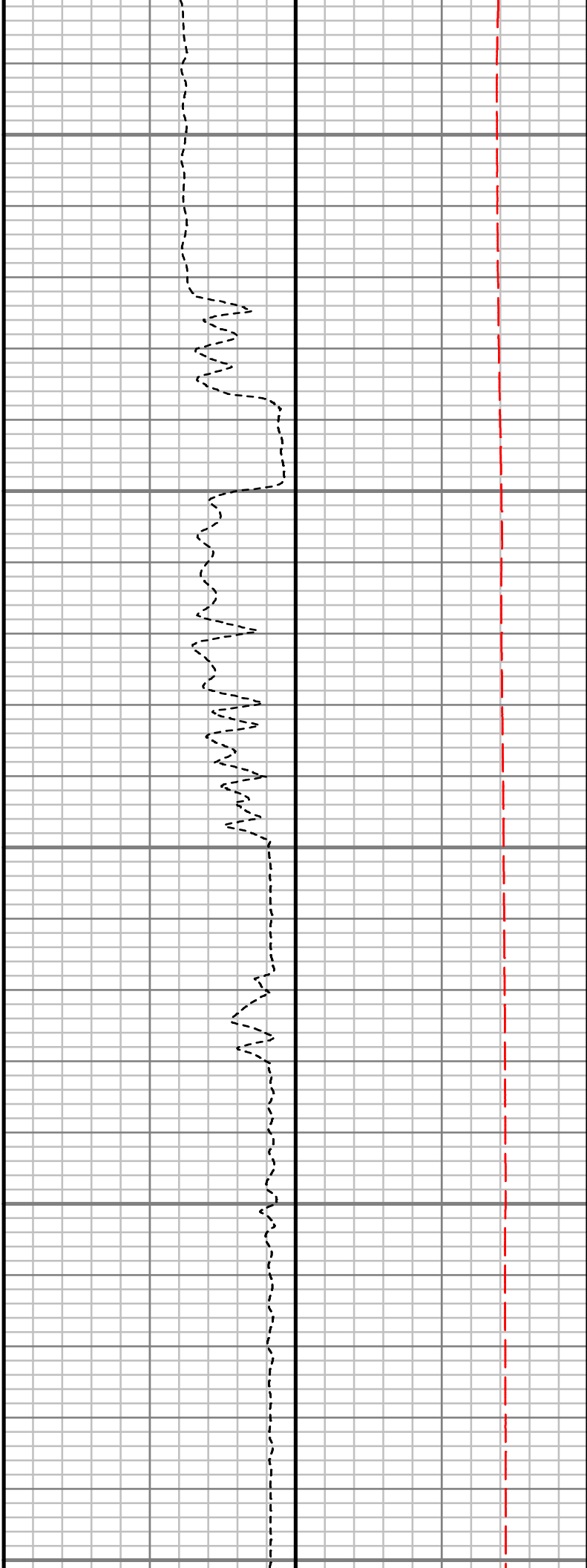
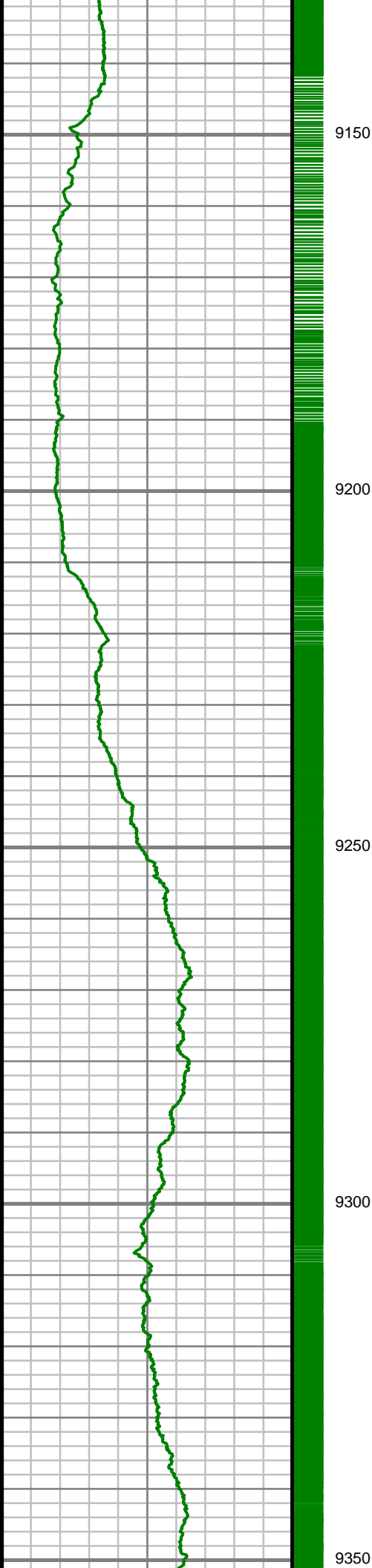
S: 94 MD: 8831.00 ft
Inc: 91.34 deg Az:
88.99 deg TVD:
6288.49 ft



S: 95 MD: 8925.00 ft
Inc: 92.39 deg Az:
87.25 deg TVD:
6285.43 ft

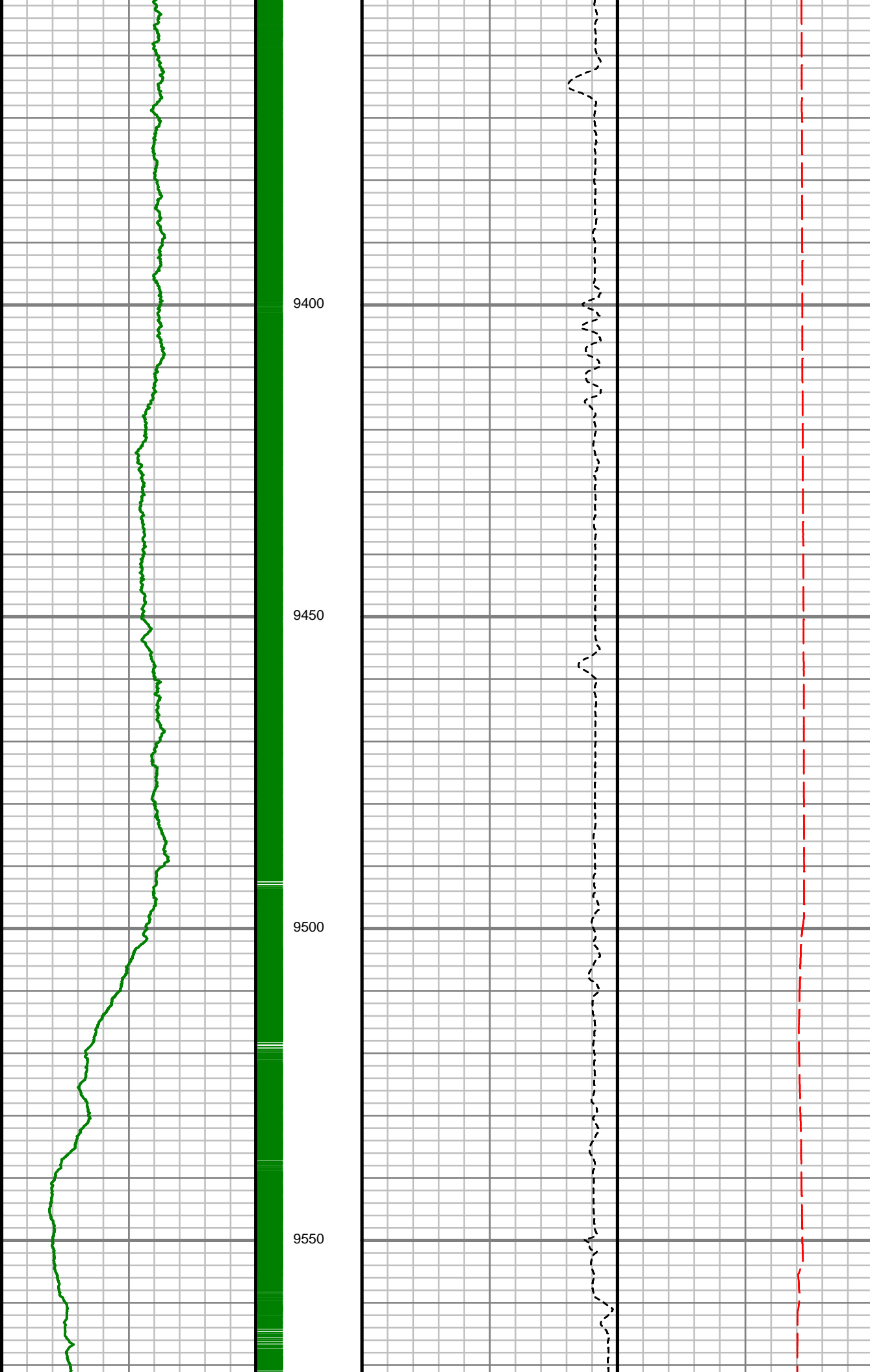
S: 96 MD: 9019.00 ft
Inc: 91.95 deg Az:
89.82 deg TVD:
6281.88 ft

S: 97 MD: 9113.00 ft
Inc: 91.11 deg Az:
89.97 deg TVD:
6279.37 ft



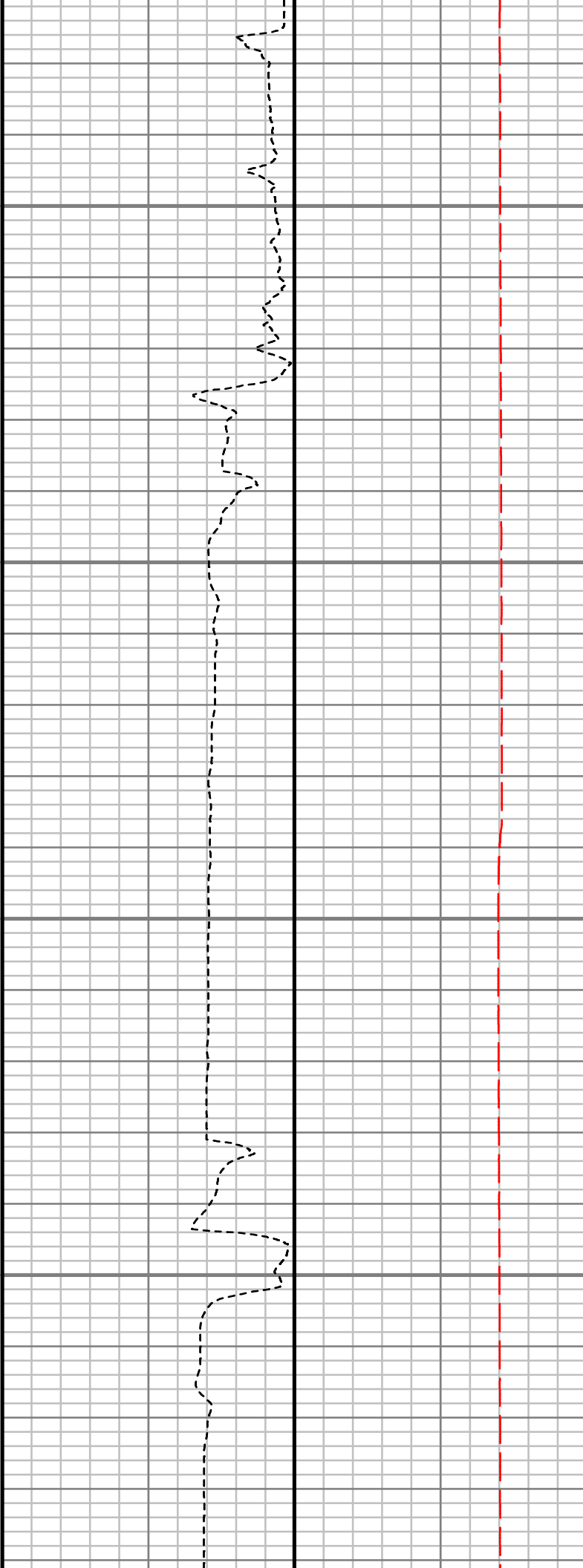
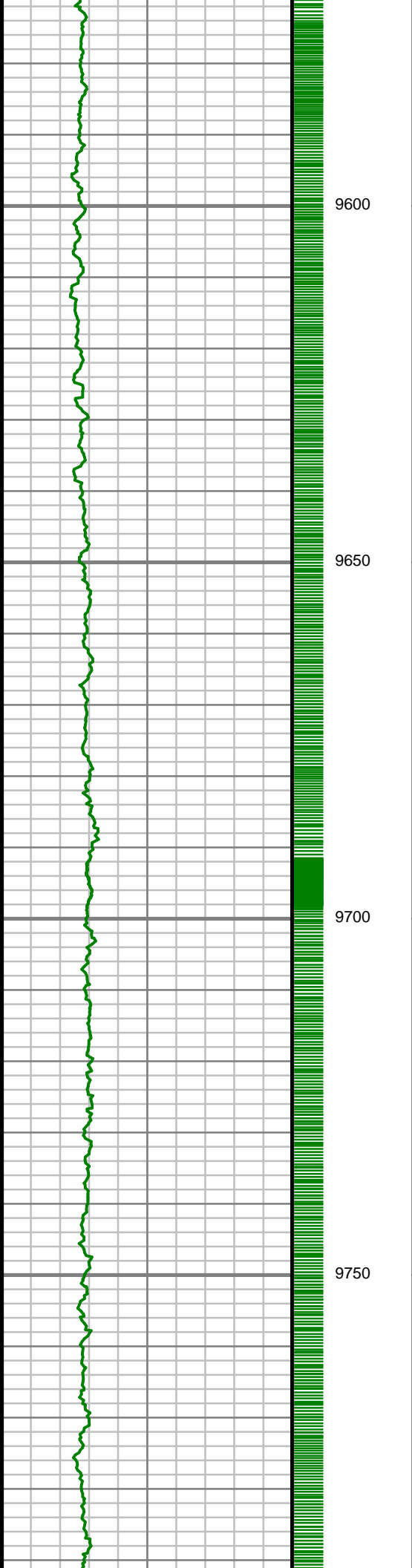
S: 98 MD: 9207.00 ft
Inc: 88.89 deg Az:
89.37 deg TVD:
6279.37 ft

S: 99 MD: 9300.00 ft
Inc: 89.93 deg Az:
90.34 deg TVD:
6280.32 ft



S: 100 MD: 9394.00 ft
Inc: 89.33 deg Az:
87.66 deg TVD:
6280.93 ft

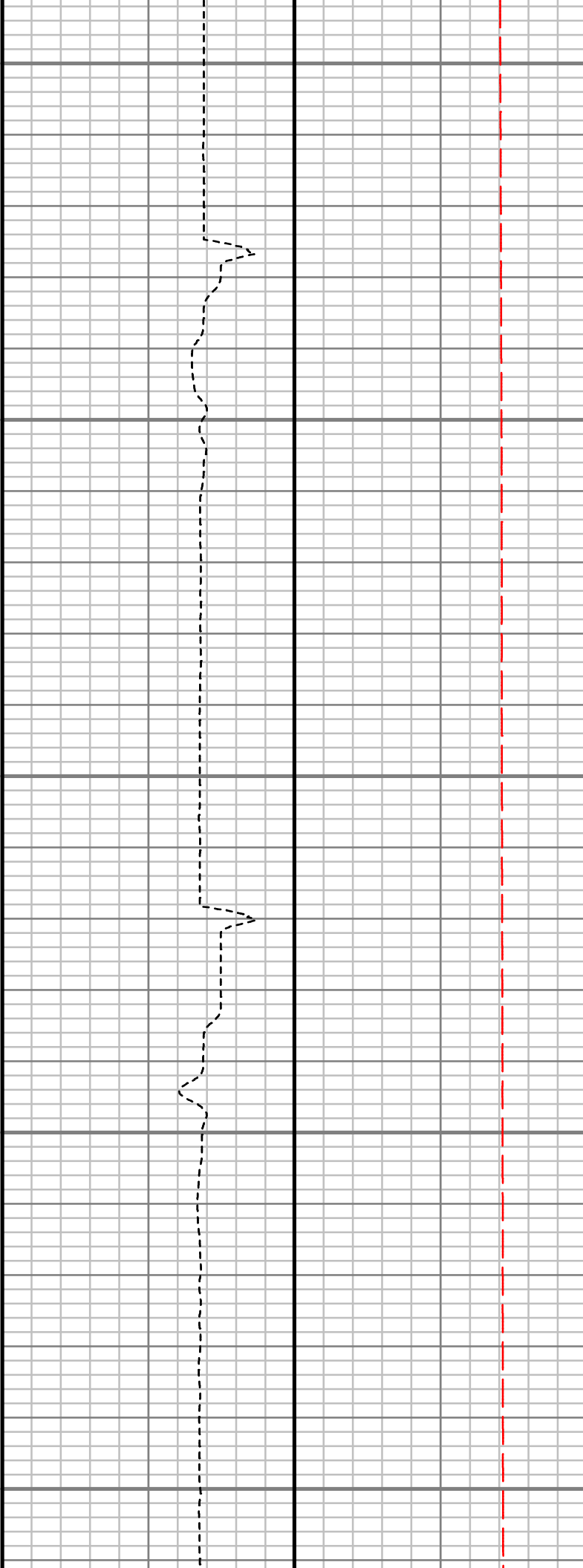
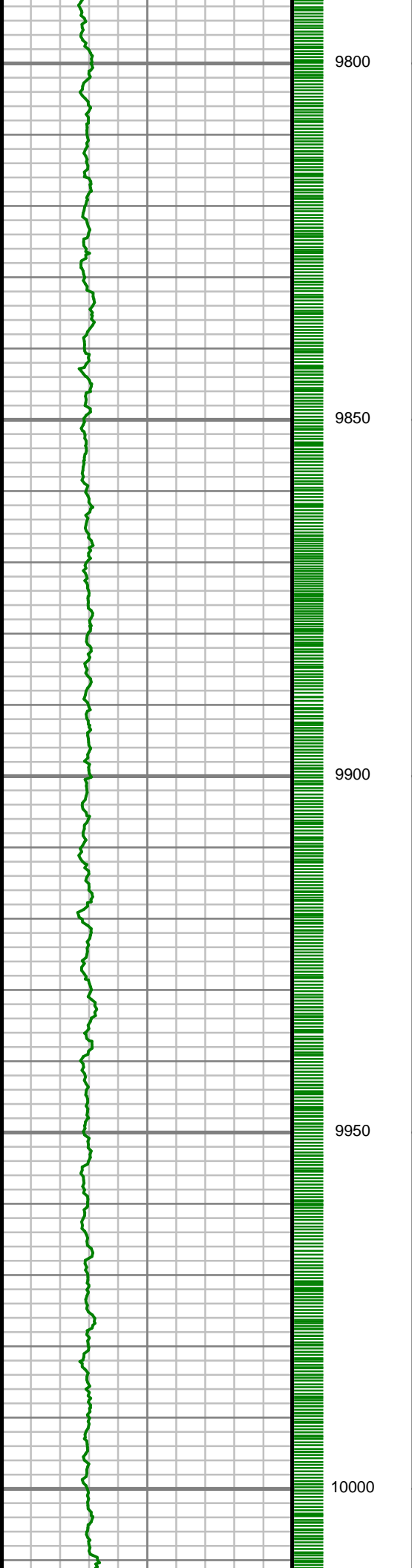
S: 101 MD: 9488.00 ft
Inc: 91.31 deg Az:
89.52 deg TVD:
6280.41 ft



S: 102 MD: 9581.00 ft
Inc: 90.00 deg Az:
92.44 deg TVD:
6279.35 ft

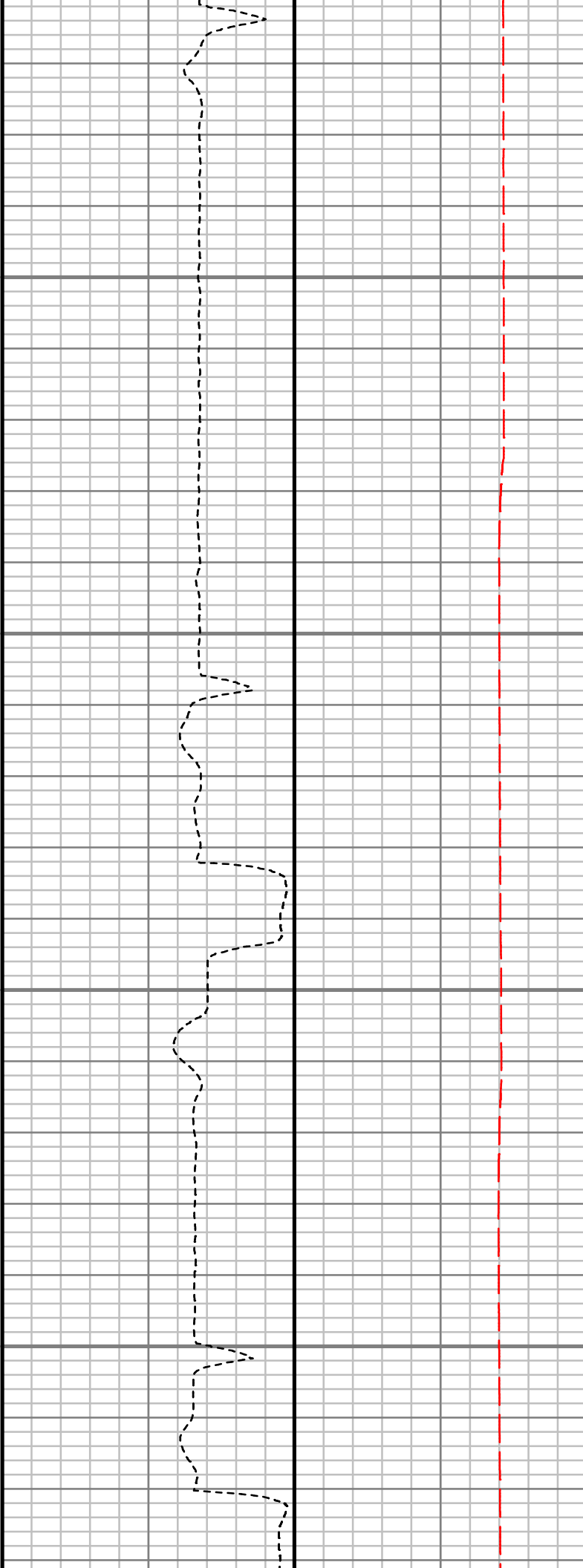
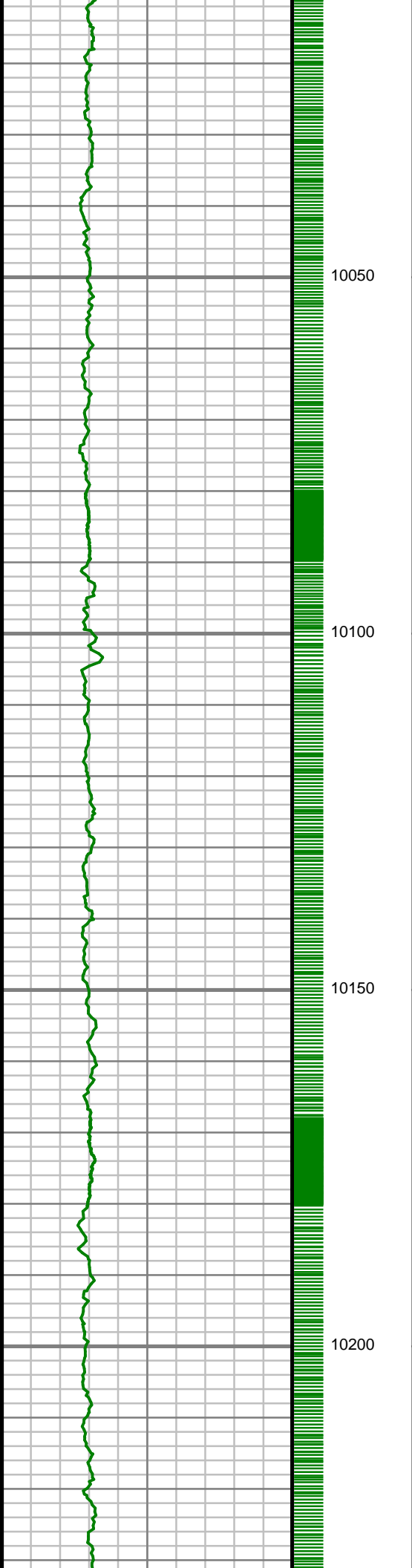
S: 103 MD: 9674.00 ft
Inc: 90.54 deg Az:
92.45 deg TVD:
6278.91 ft

S: 104 MD: 9768.00 ft
Inc: 90.37 deg Az:
90.67 deg TVD:
6278.17 ft



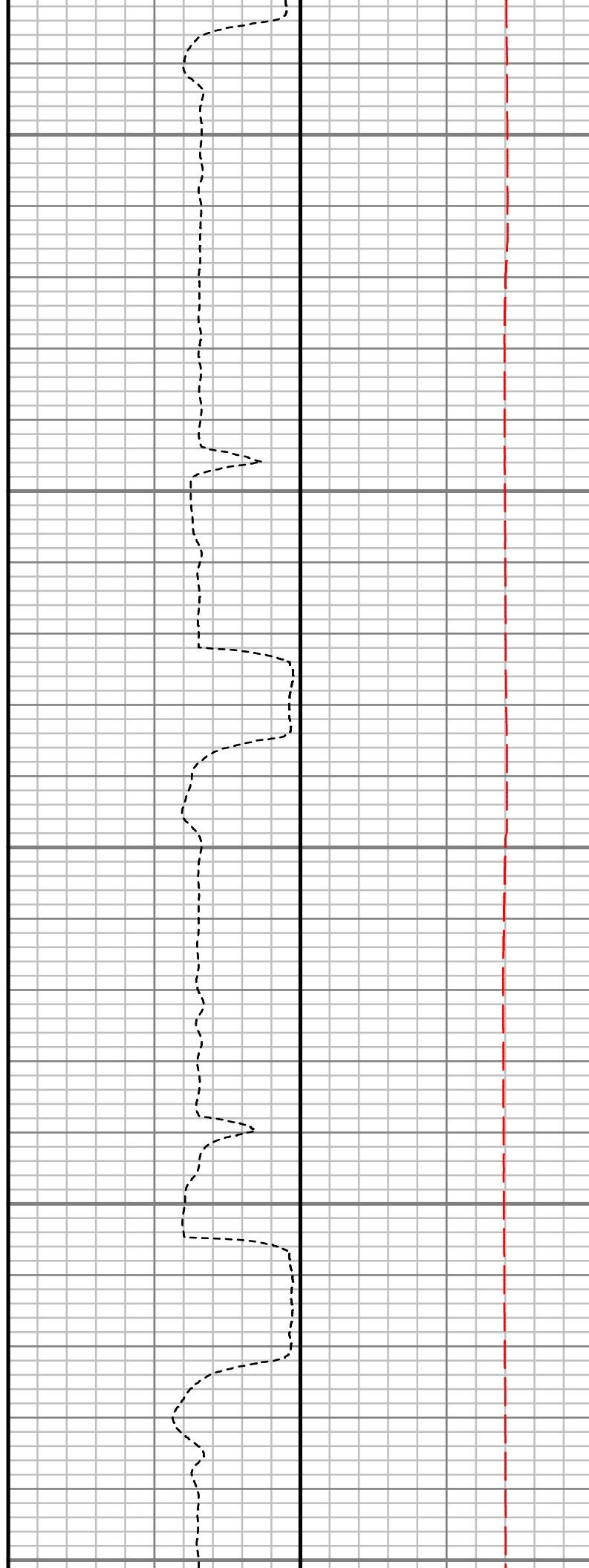
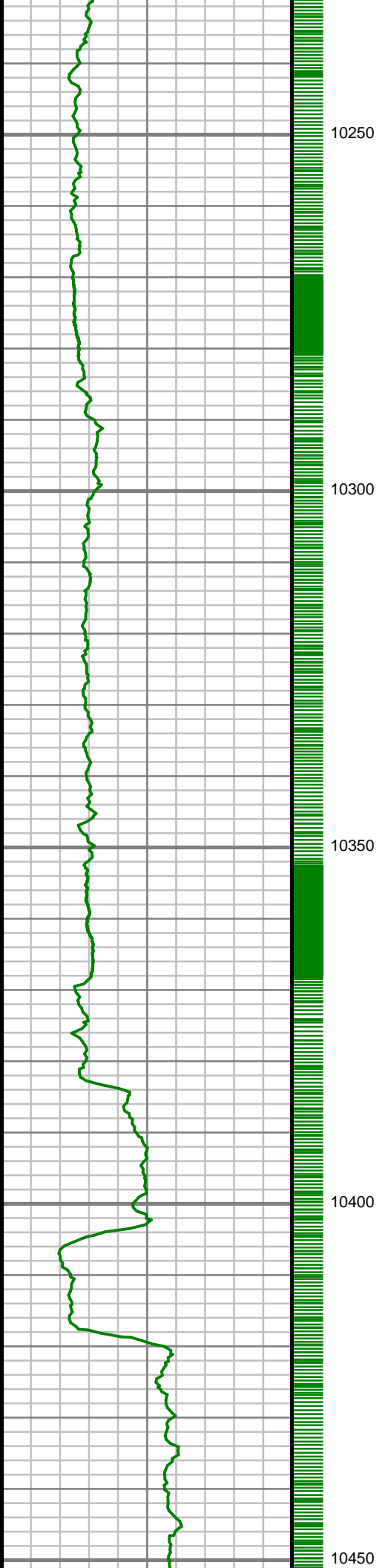
S: 105 MD: 9862.00 ft
Inc: 90.30 deg Az:
89.99 deg TVD:
6277.62 ft

S: 106 MD: 9955.00 ft
Inc: 90.47 deg Az:
88.29 deg TVD:
6276.99 ft



S: 107 MD: 10049.00 ft
Inc: 90.40 deg Az:
86.75 deg TVD:
6276.27 ft

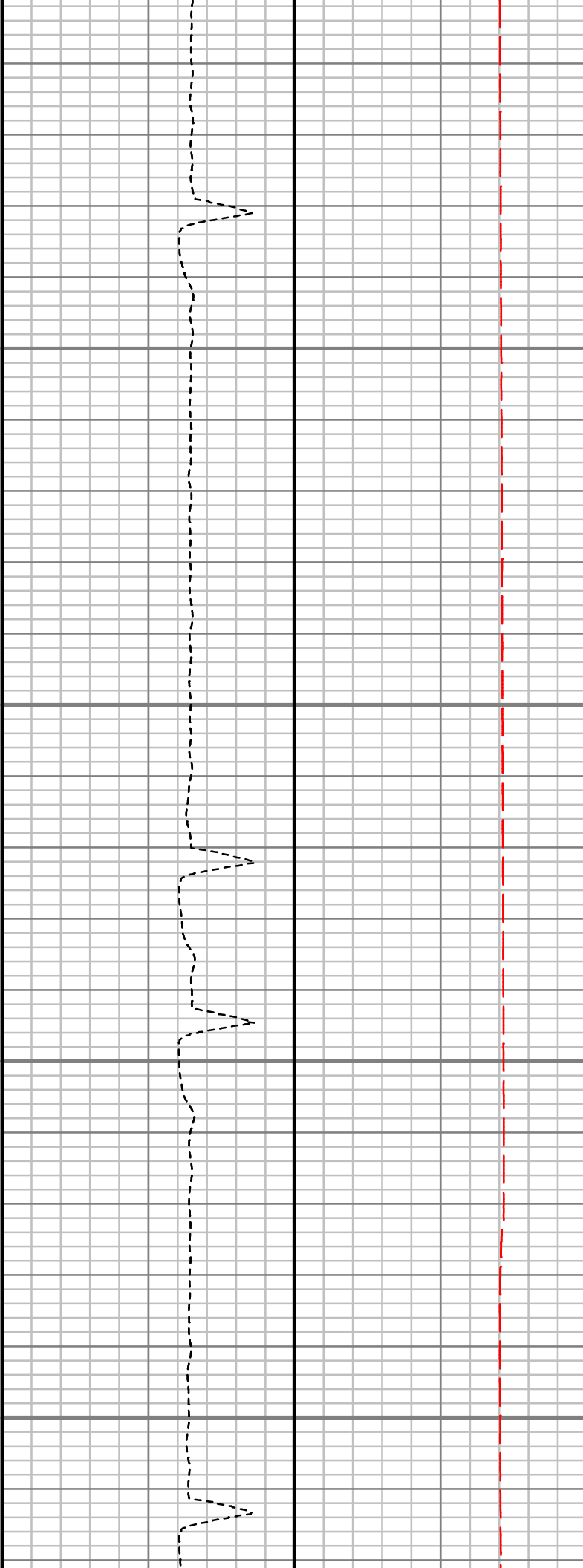
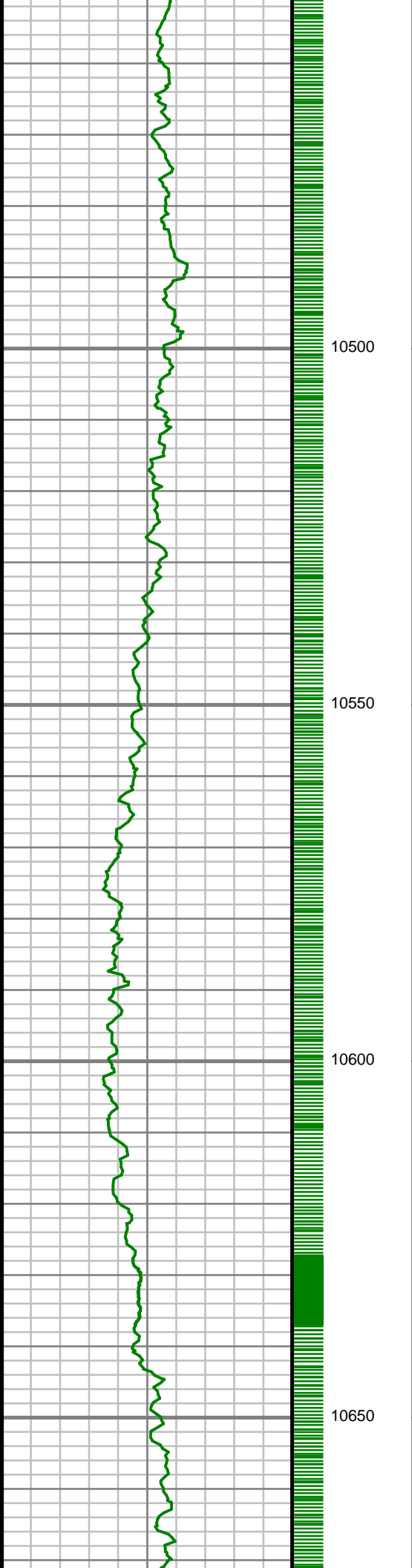
S: 108 MD: 10142.00 ft
Inc: 90.54 deg Az:
86.87 deg TVD:
6275.51 ft



S: 109 MD: 10237.00 ft
Inc: 90.94 deg Az:
88.46 deg TVD:
6274.29 ft

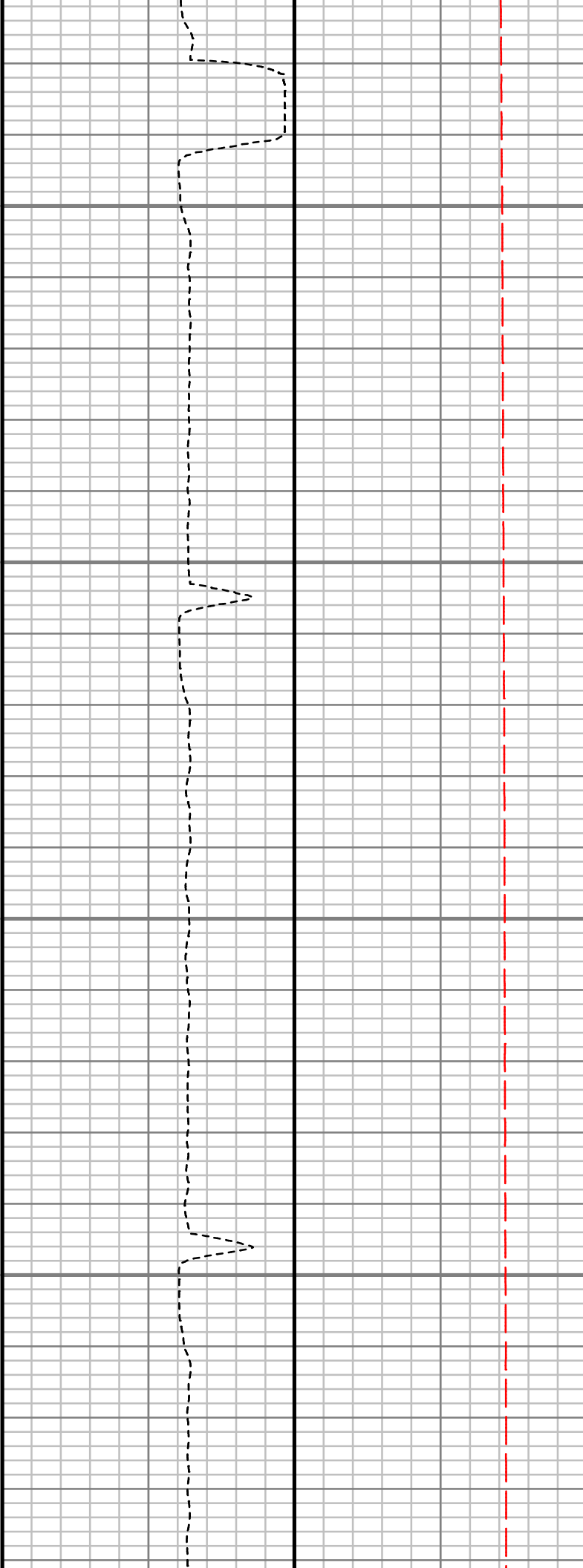
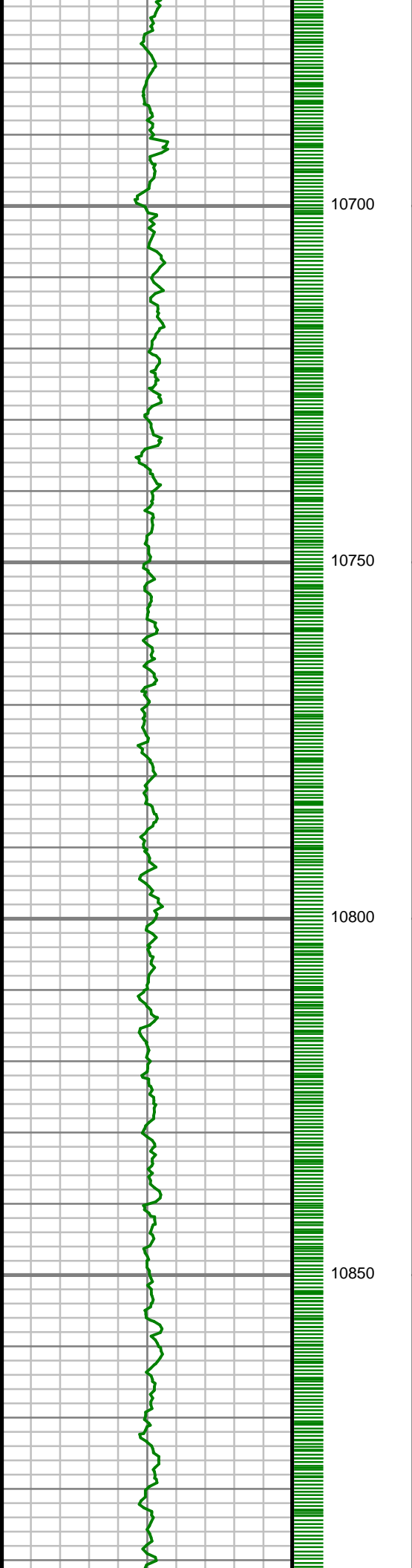
S: 110 MD: 10331.00 ft
Inc: 89.09 deg Az:
87.79 deg TVD:
6274.26 ft

S: 111 MD: 10422.00 ft
Inc: 88.83 deg Az:
90.18 deg TVD:
6275.91 ft



S: 112 MD: 10513.00 ft
Inc: 89.73 deg Az:
90.72 deg TVD:
6277.06 ft

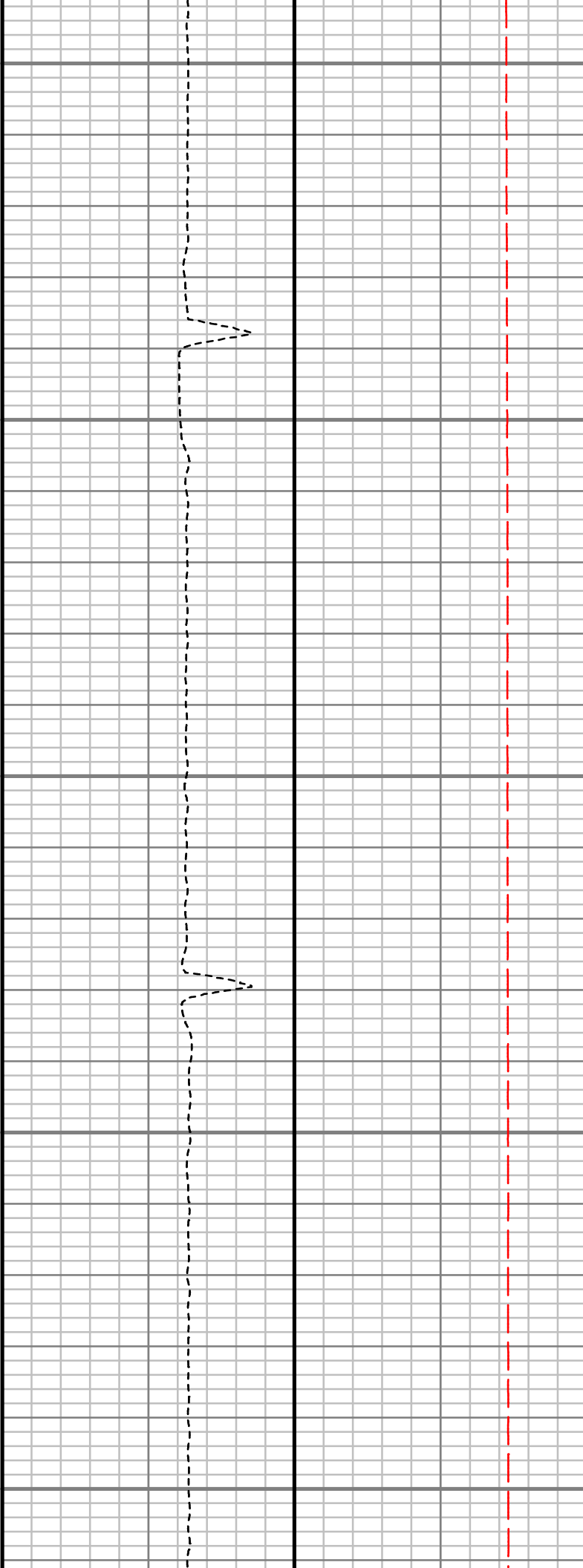
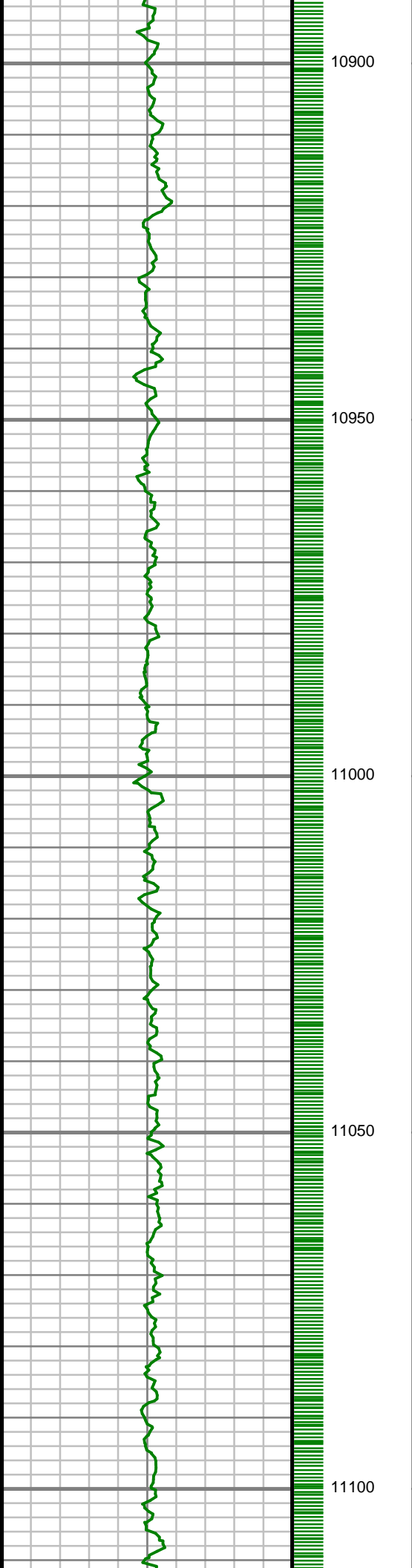
S: 113 MD: 10604.00 ft
Inc: 91.68 deg Az:
91.49 deg TVD:
6275.94 ft



S: 114 MD: 10695.00 ft
Inc: 90.44 deg Az:
91.34 deg TVD:
6274.26 ft

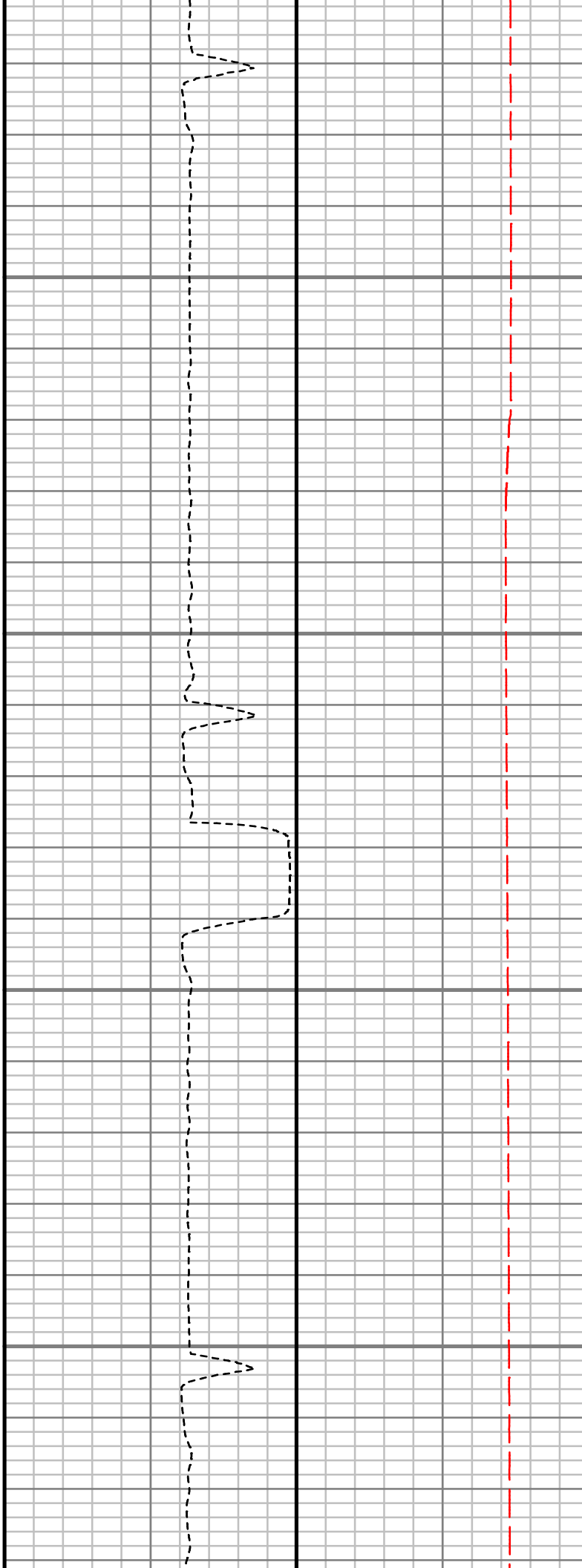
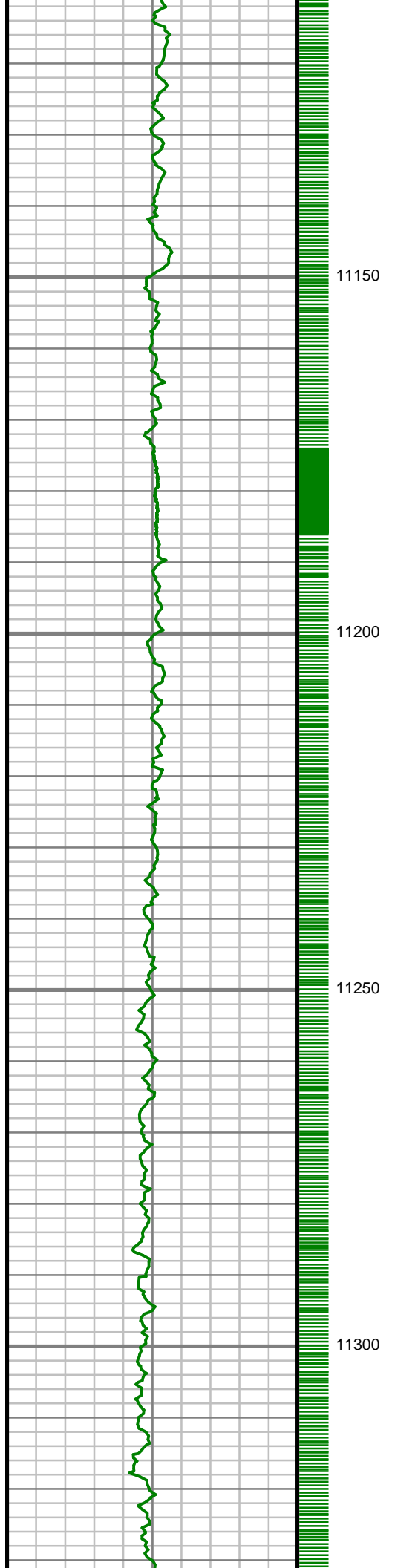
S: 115 MD: 10786.00 ft
Inc: 90.44 deg Az:
91.16 deg TVD:
6273.57 ft

S: 116 MD: 10877.00 ft
Inc: 90.13 deg Az:
89.84 deg TVD:
6273.11 ft



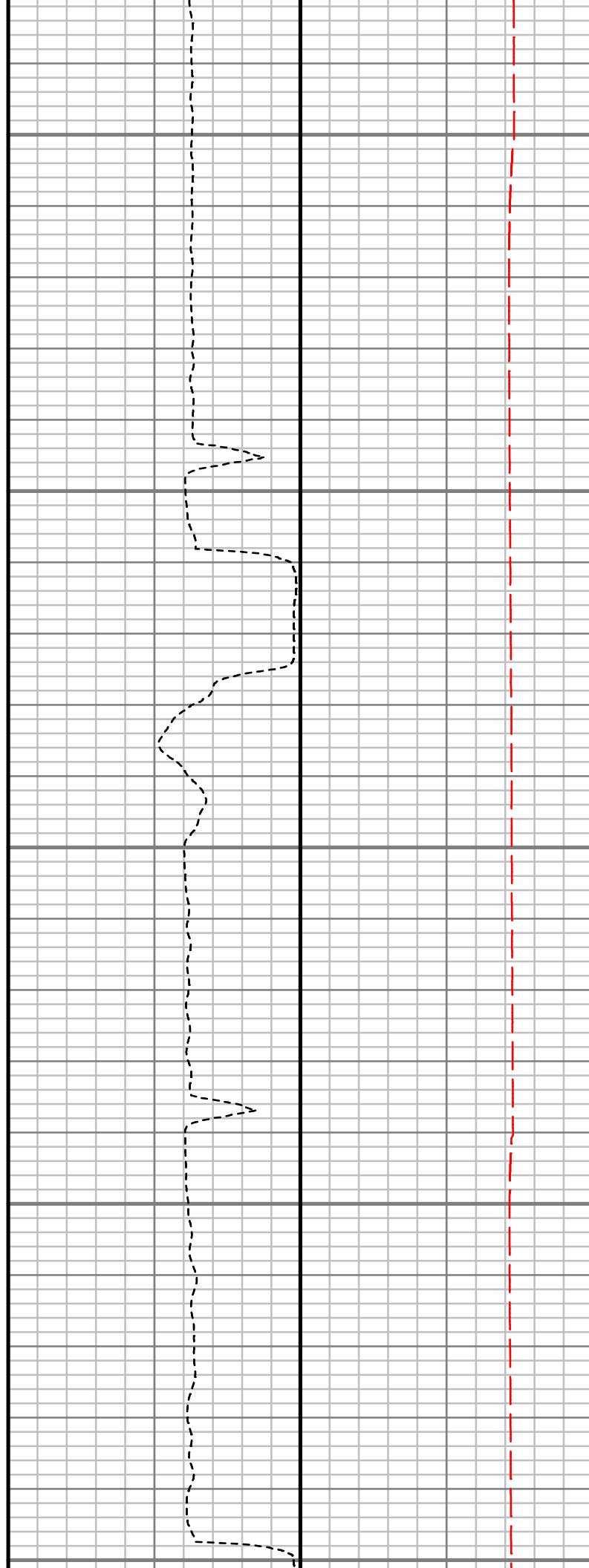
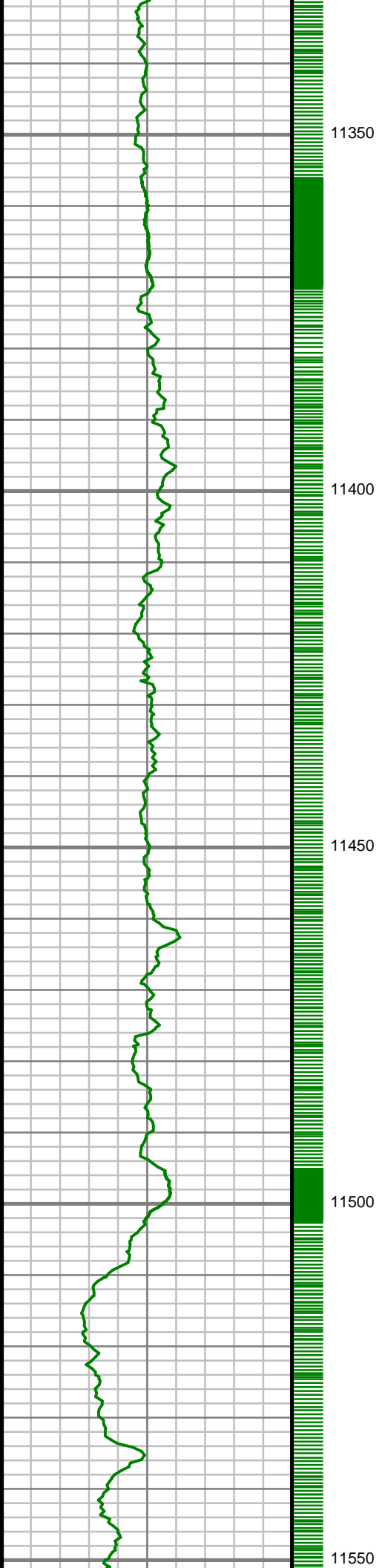
S: 117 MD: 10968.00 ft
Inc: 90.23 deg Az:
89.83 deg TVD:
6272.82 ft

S: 118 MD: 11059.00 ft
Inc: 90.34 deg Az:
89.39 deg TVD:
6272.37 ft



S: 119 MD: 11150.00 ft
Inc: 90.13 deg Az:
88.60 deg TVD:
6271.99 ft

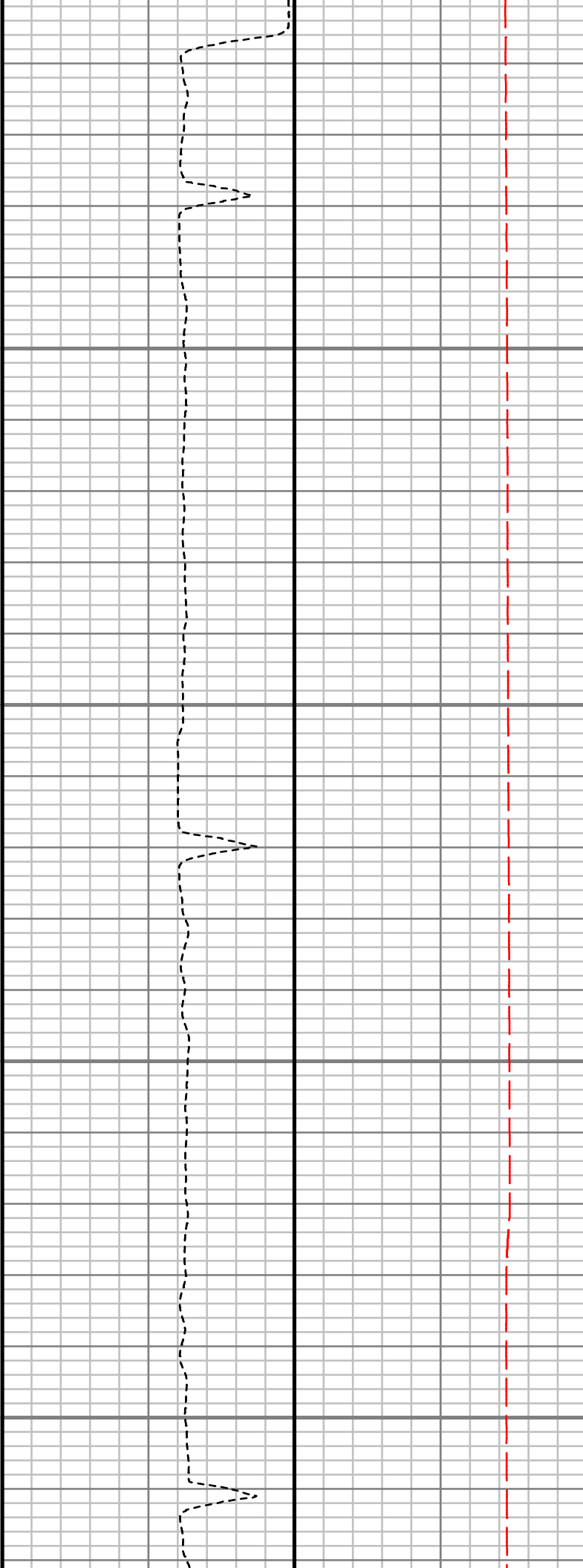
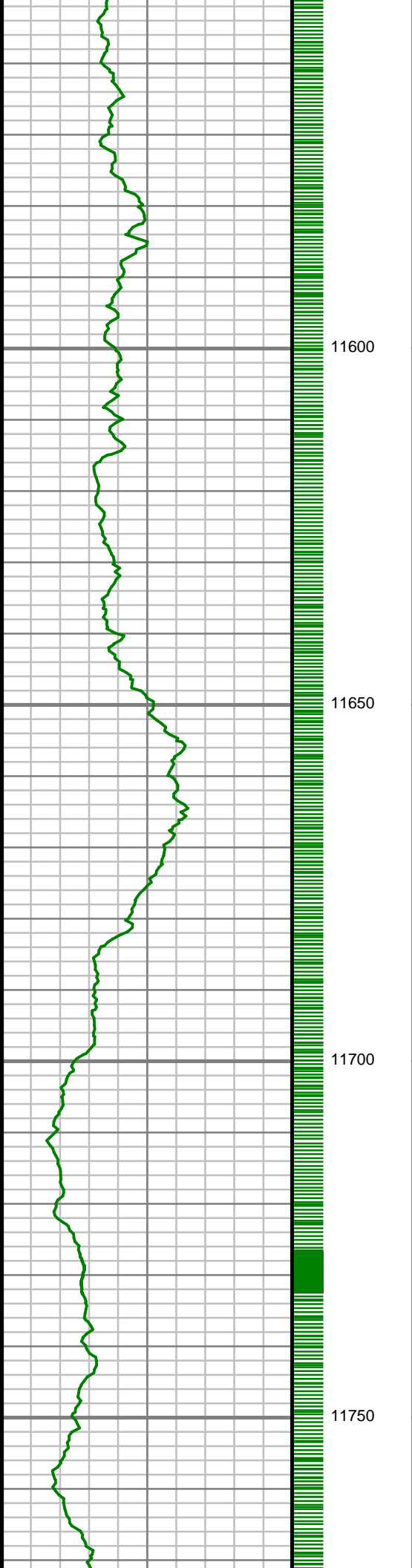
S: 120 MD: 11241.00 ft
Inc: 90.47 deg Az:
89.97 deg TVD:
6271.51 ft



S: 121 MD: 11333.00 ft
Inc: 89.73 deg Az:
89.43 deg TVD:
6271.35 ft

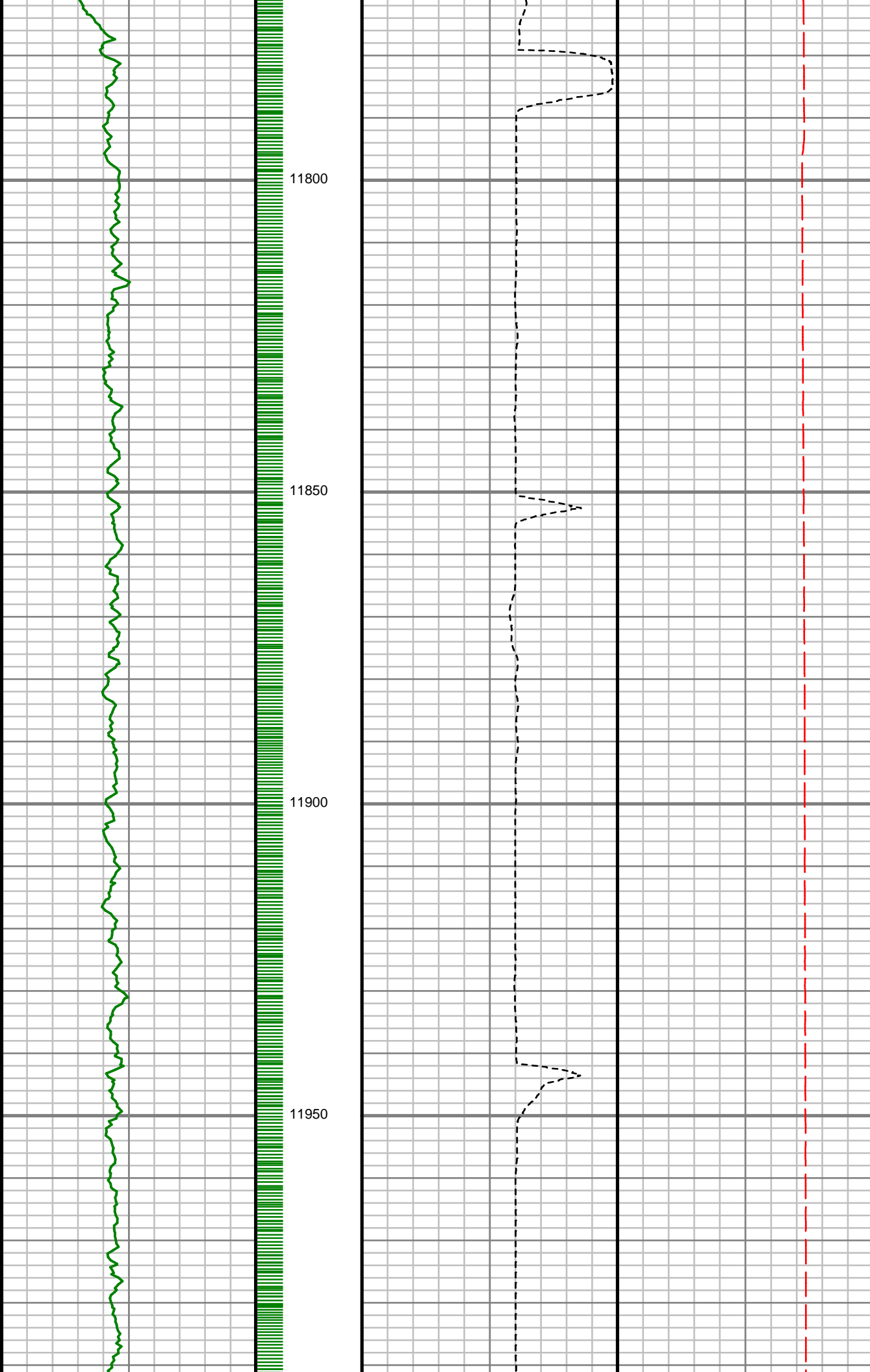
S: 122 MD: 11424.00 ft
Inc: 92.72 deg Az:
90.37 deg TVD:
6269.41 ft

S: 123 MD: 11516.00 ft
Inc: 93.39 deg Az:
90.09 deg TVD:
6264.50 ft



S: 124 MD: 11607.00 ft
Inc: 91.98 deg Az:
90.10 deg TVD:
6260.24 ft

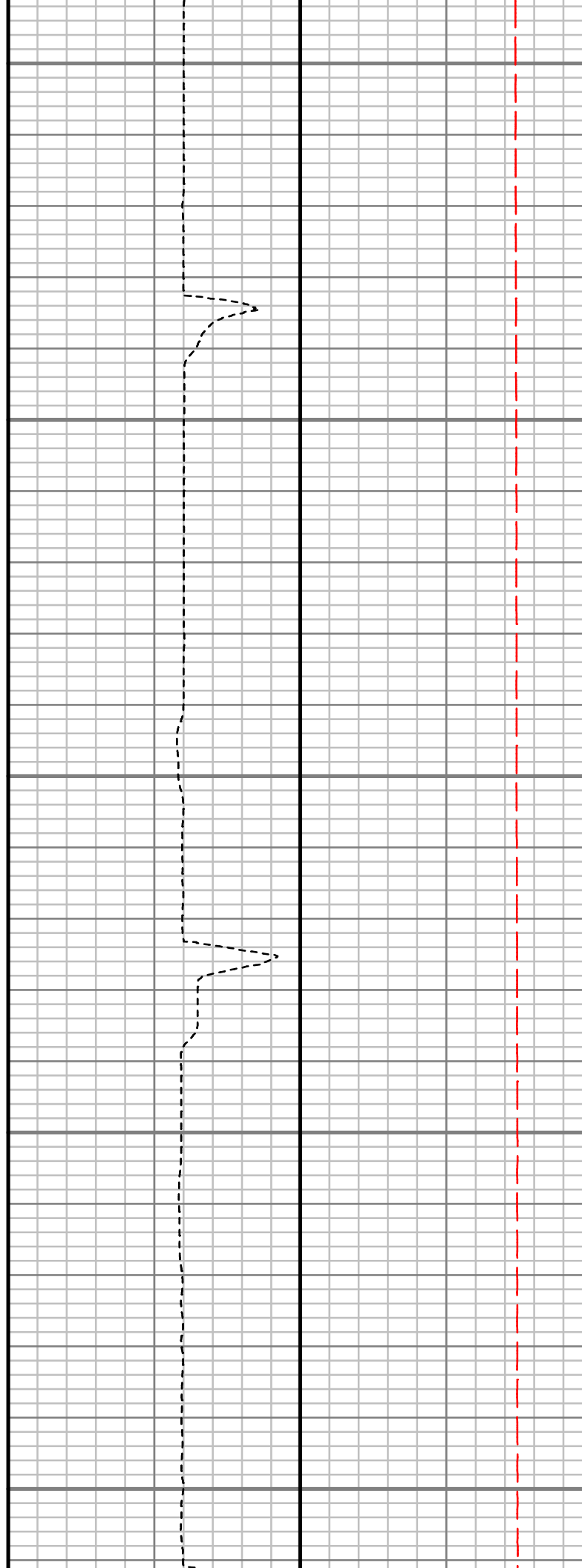
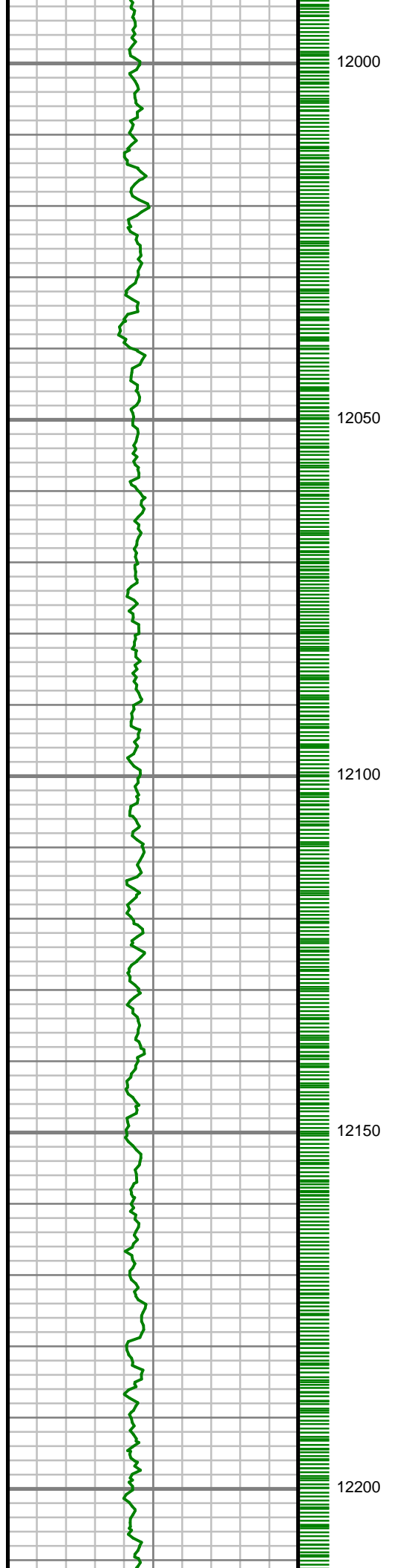
S: 125 MD: 11698.00 ft
Inc: 92.42 deg Az:
88.76 deg TVD:
6256.75 ft



S: 126 MD: 11789.00 ft
Inc: 90.70 deg Az:
89.32 deg TVD:
6254.27 ft

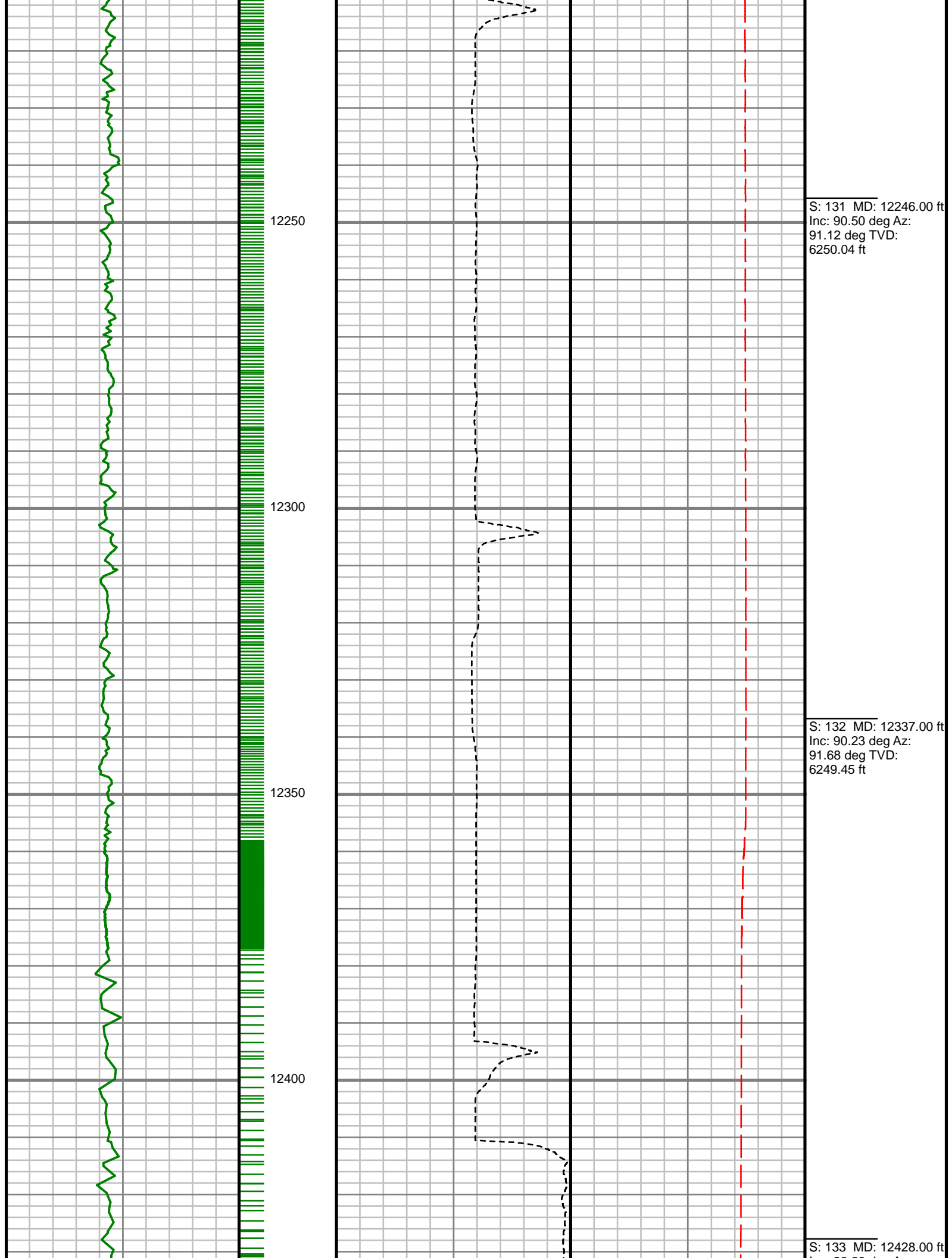
S: 127 MD: 11881.00 ft
Inc: 90.67 deg Az:
89.38 deg TVD:
6253.16 ft

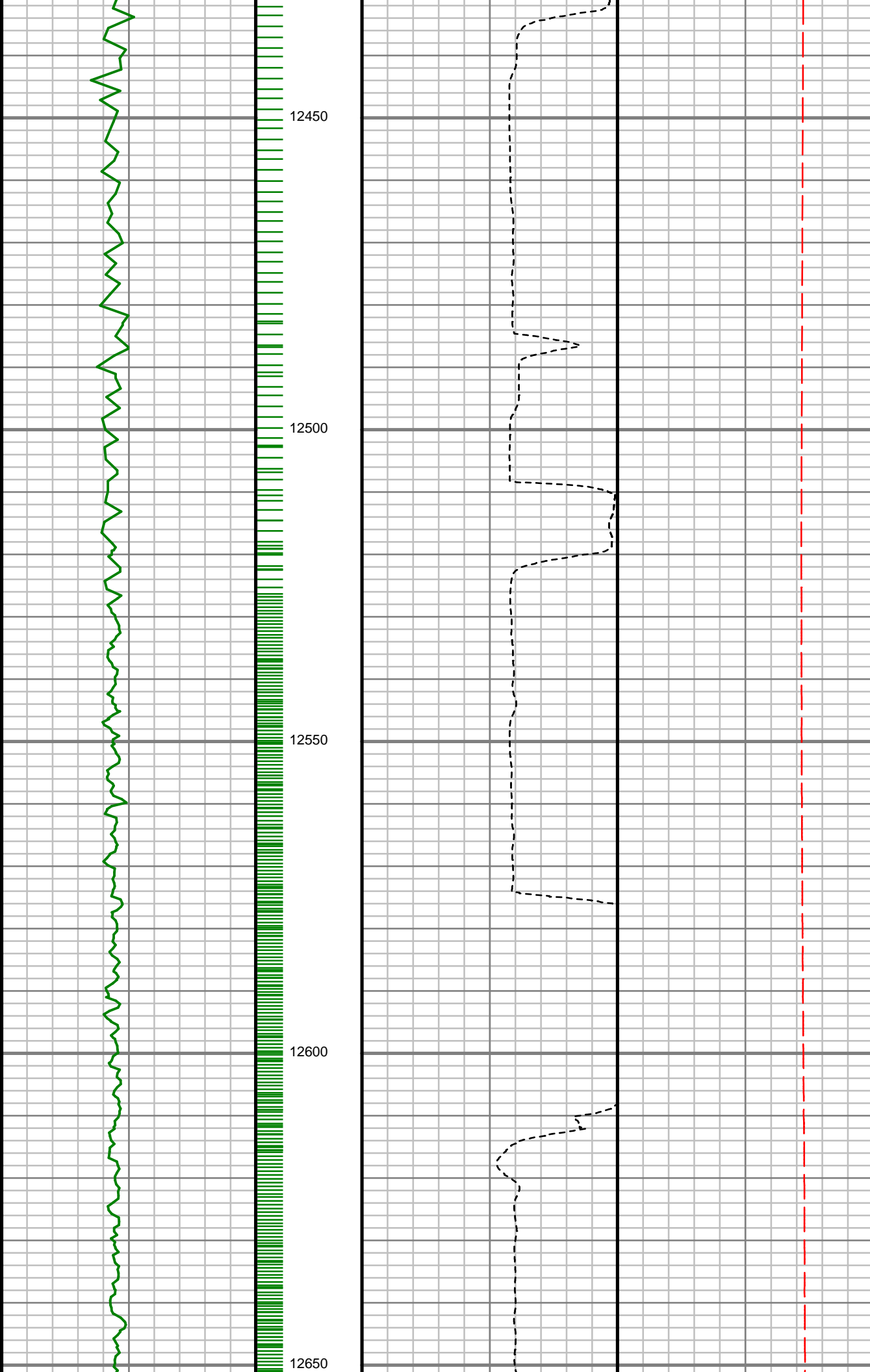
S: 128 MD: 11972.00 ft
Inc: 90.10 deg Az:
87.83 deg TVD:
6252.55 ft



S: 129 MD: 12063.00 ft
Inc: 90.54 deg Az:
88.90 deg TVD:
6252.04 ft

S: 130 MD: 12154.00 ft
Inc: 90.74 deg Az:
90.13 deg TVD:
6251.03 ft

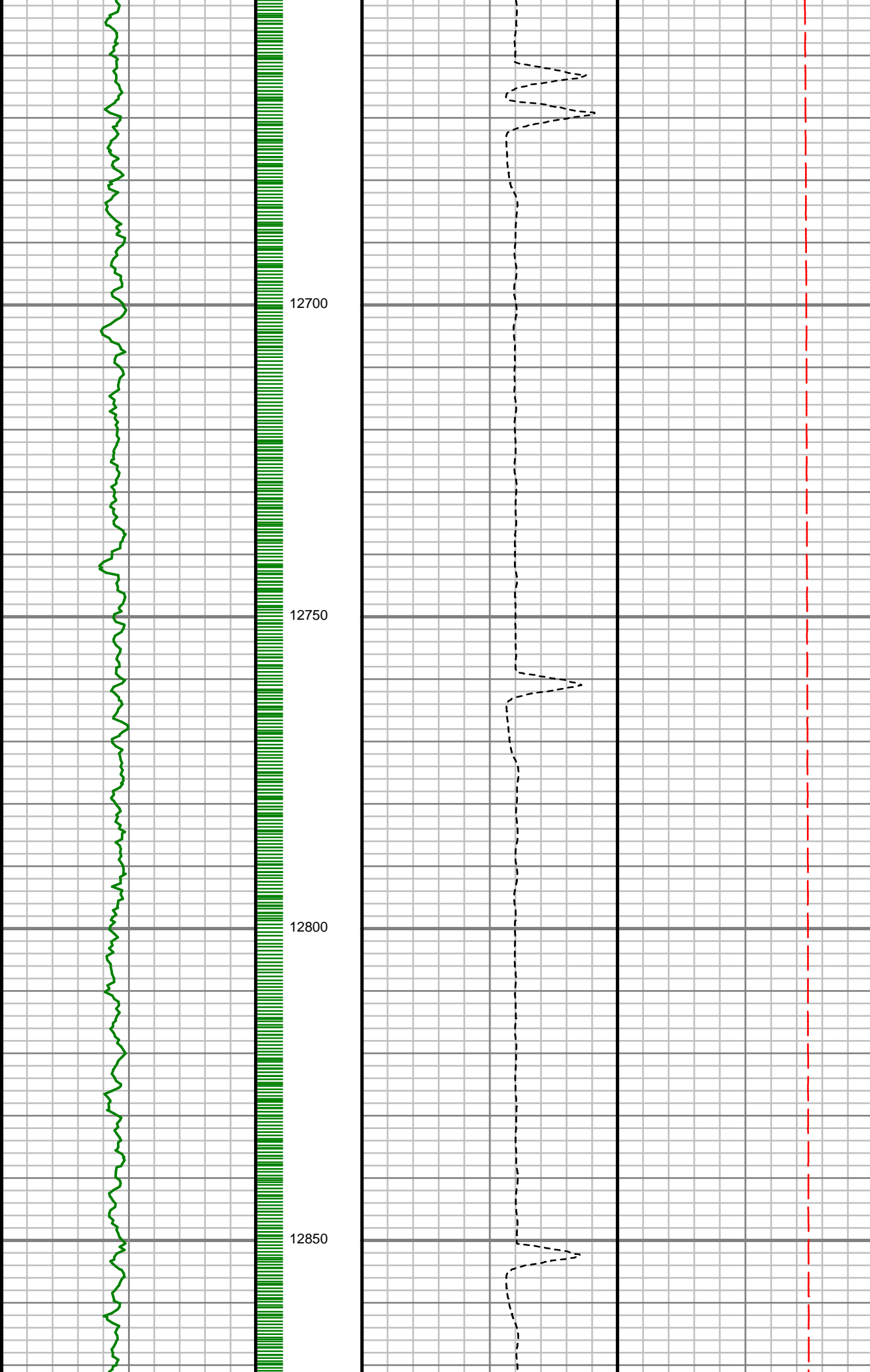




Inc: 90.60 deg Az:
92.40 deg TVD:
6248.78 ft

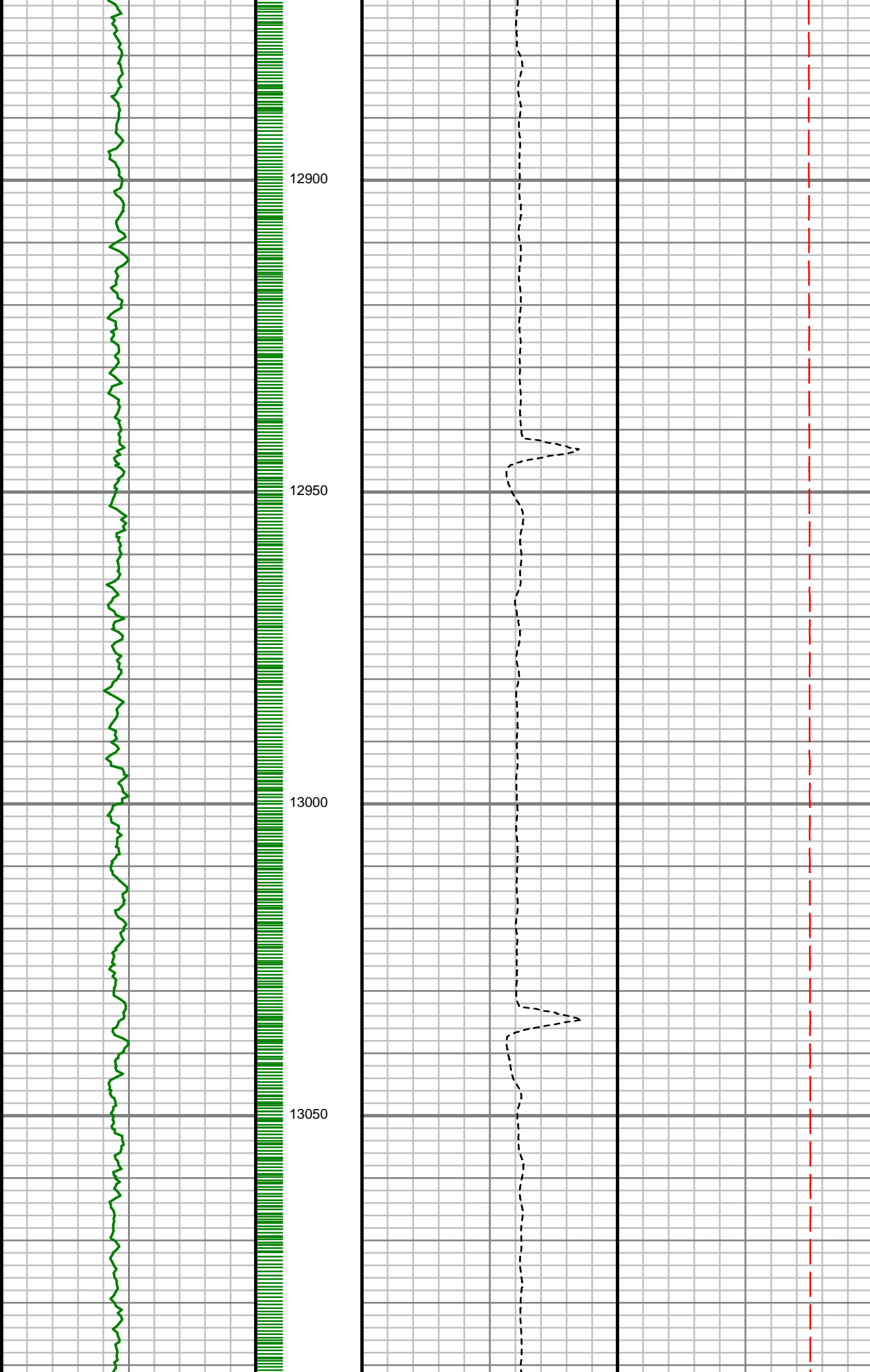
S: 134 MD: 12519.00 ft
Inc: 90.67 deg Az:
90.69 deg TVD:
6247.77 ft

S: 135 MD: 12610.00 ft
Inc: 90.44 deg Az:
87.28 deg TVD:
6246.89 ft



S: 136 MD: 12701.00 ft
Inc: 90.87 deg Az:
90.15 deg TVD:
6245.85 ft

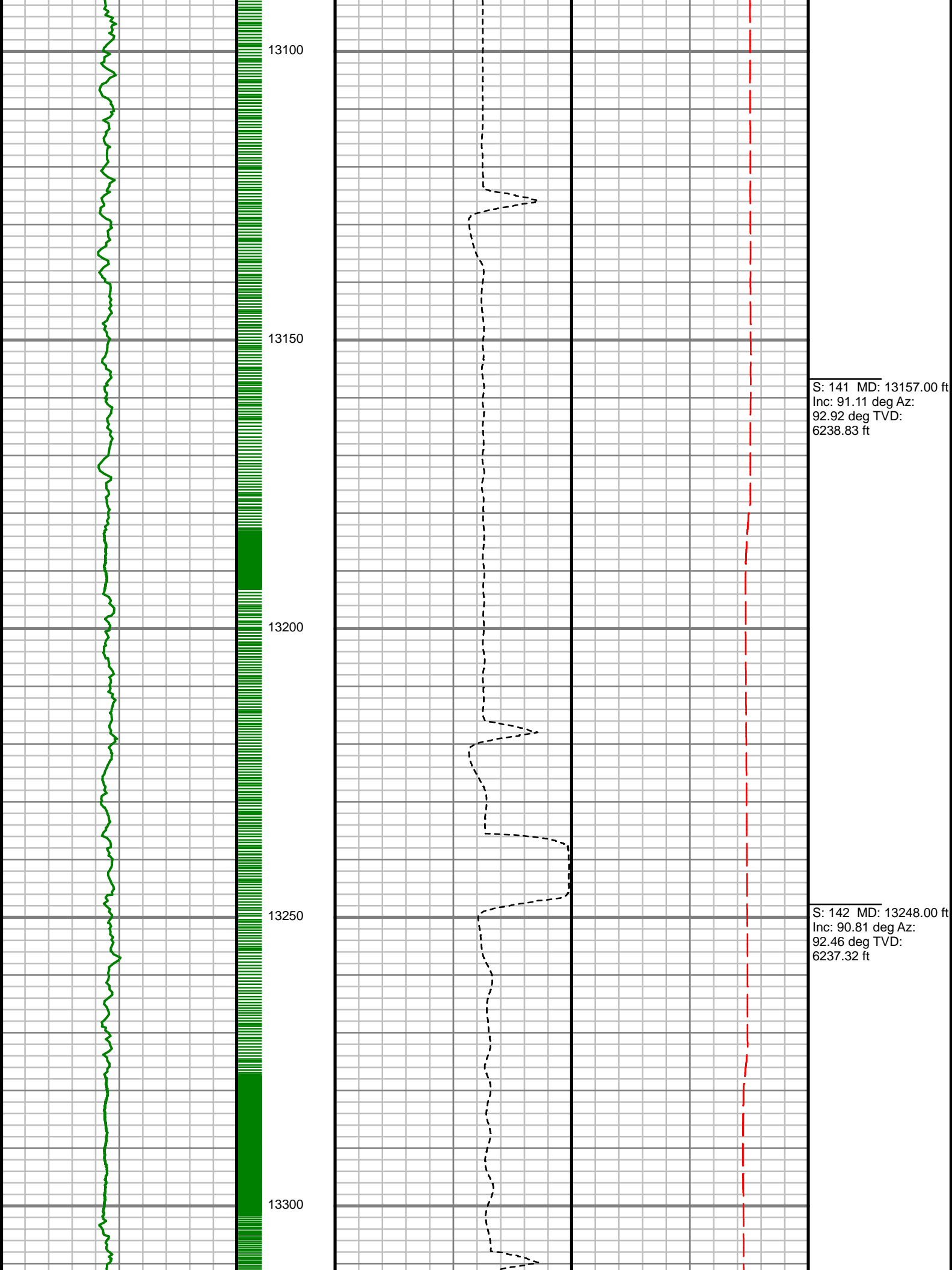
S: 137 MD: 12793.00 ft
Inc: 91.07 deg Az:
90.51 deg TVD:
6244.29 ft

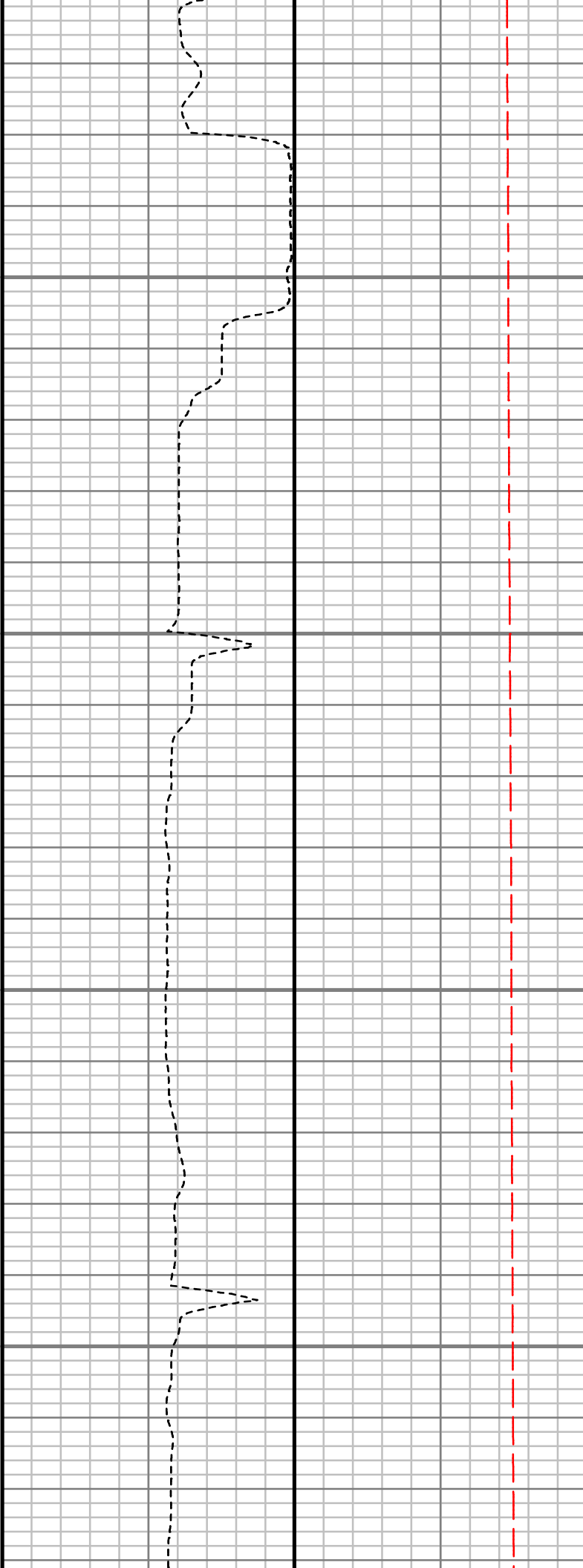
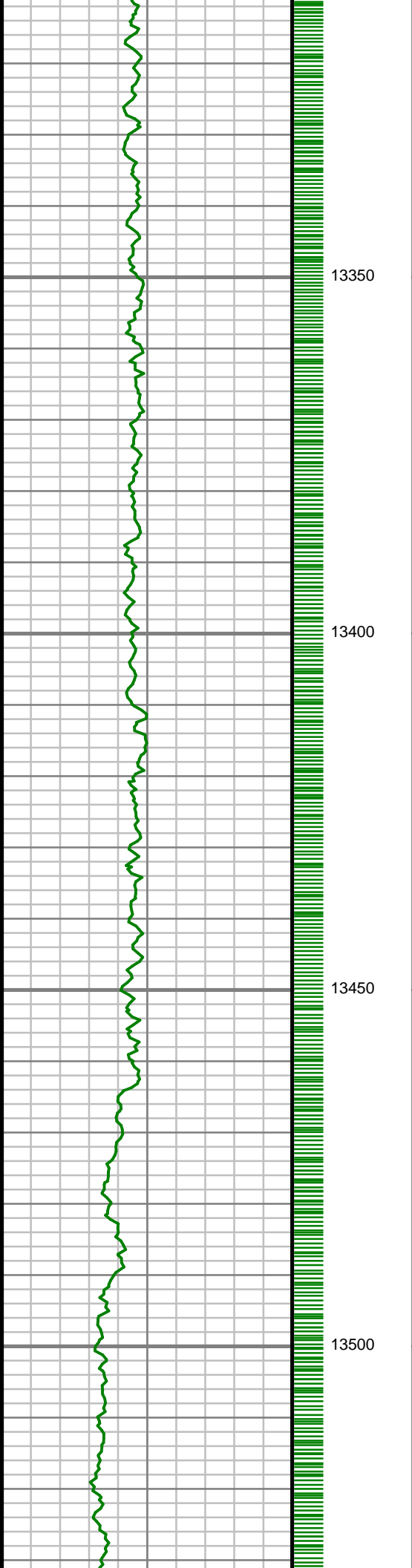


S: 138 MD: 12883.00 ft
Inc: 90.64 deg Az:
87.34 deg TVD:
6242.95 ft

S: 139 MD: 12975.00 ft
Inc: 90.90 deg Az:
91.68 deg TVD:
6241.71 ft

S: 140 MD: 13066.00 ft
Inc: 90.81 deg Az:
90.75 deg TVD:
6240.35 ft

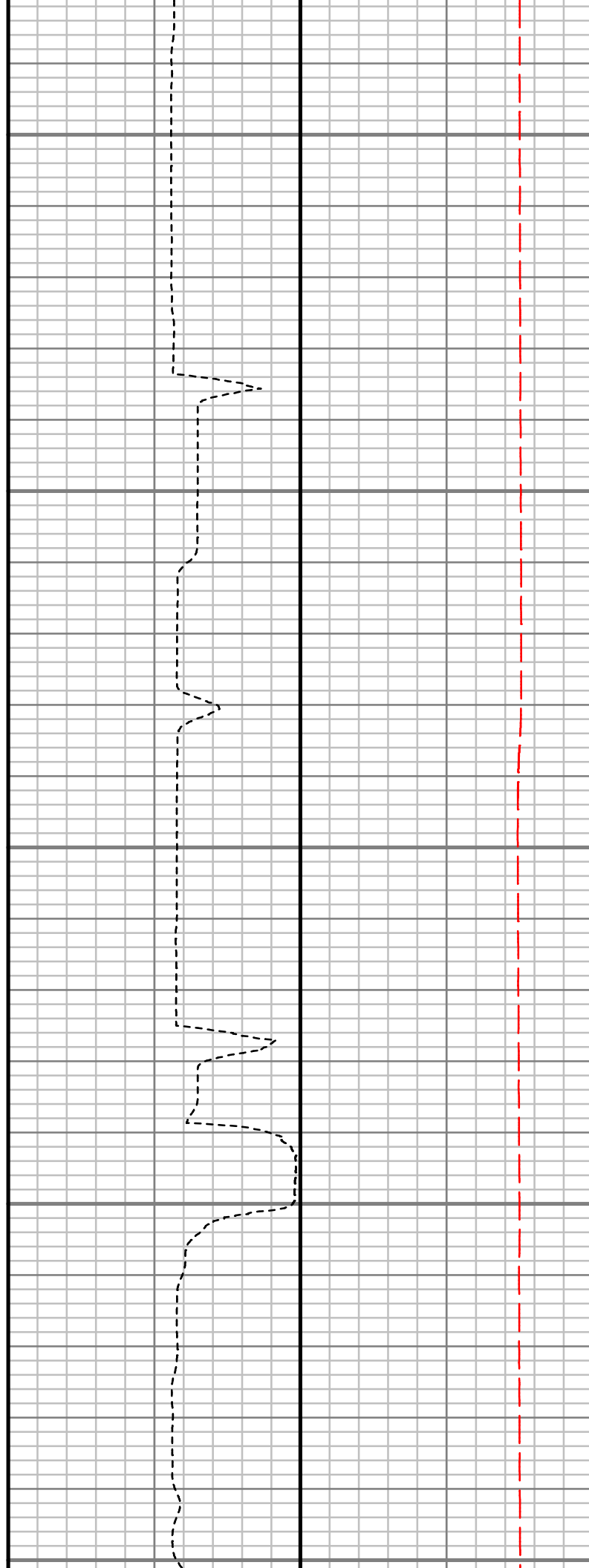
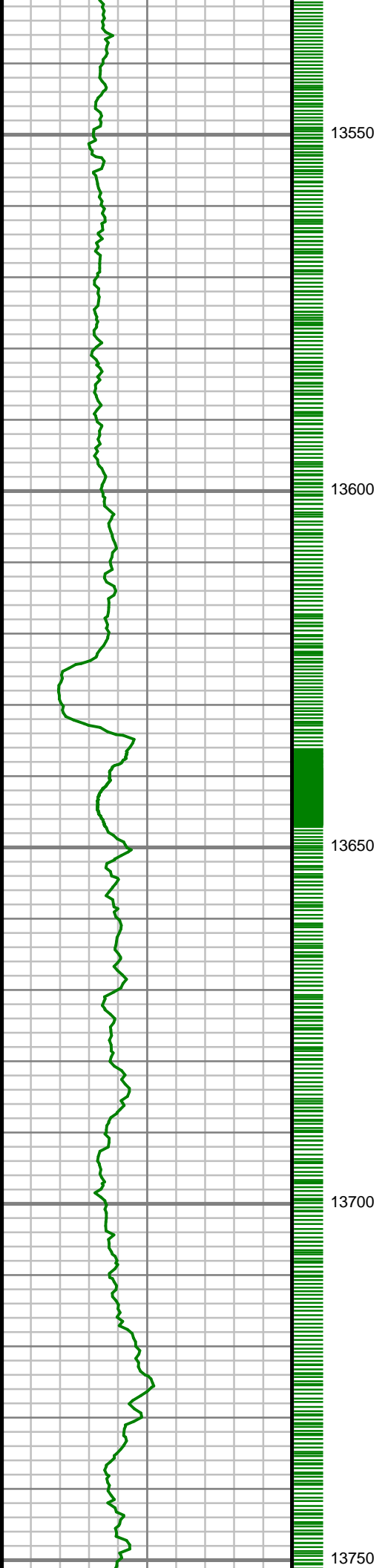




S: 143 MD: 13340.00 ft
Inc: 90.24 deg Az:
89.52 deg TVD:
6236.48 ft

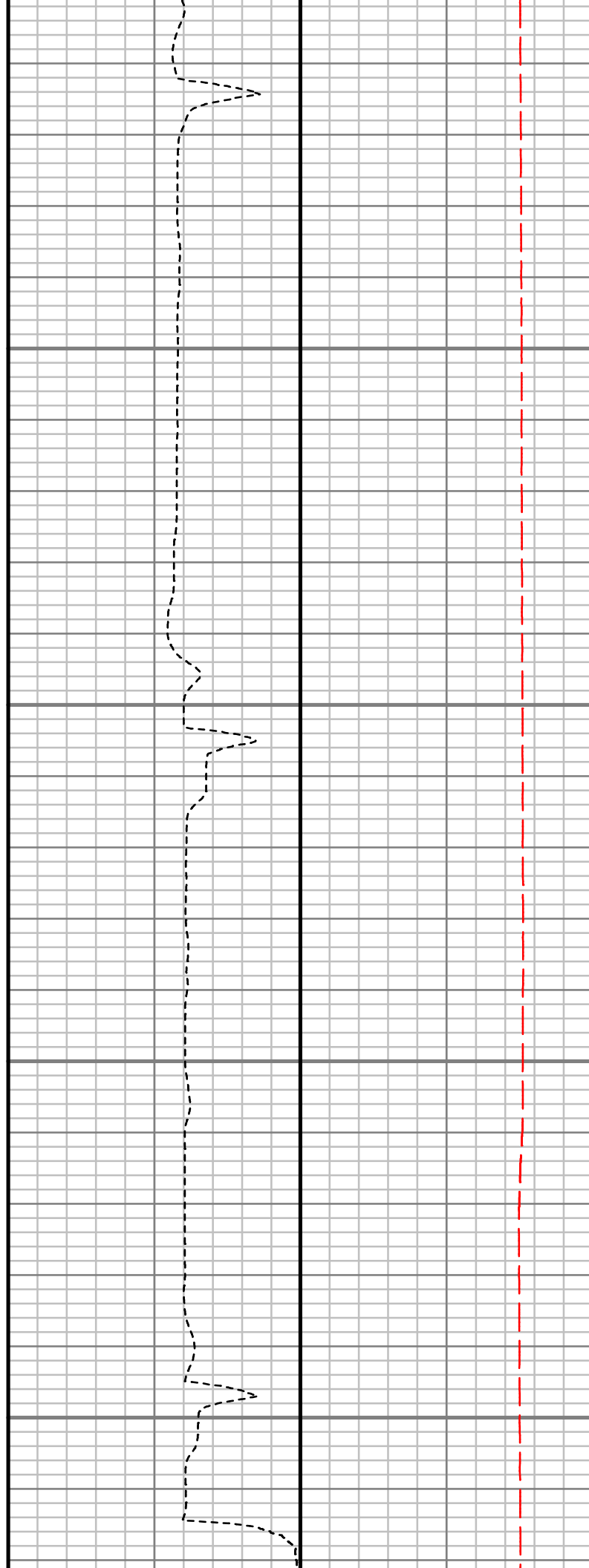
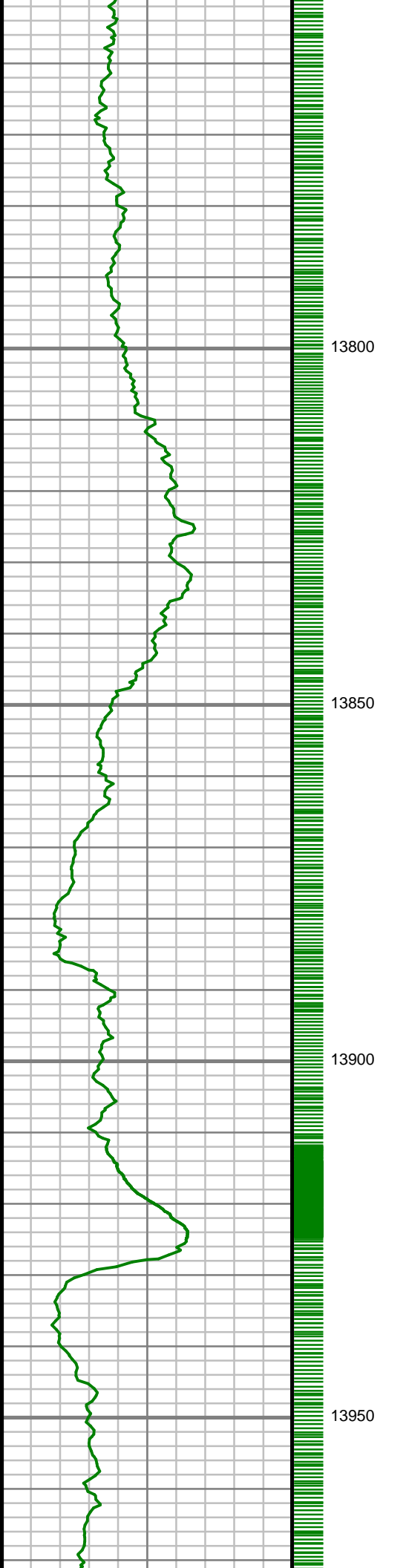
S: 144 MD: 13431.00 ft
Inc: 89.26 deg Az:
88.03 deg TVD:
6236.88 ft

S: 145 MD: 13523.00 ft
Inc: 89.87 deg Az:
87.01 deg TVD:



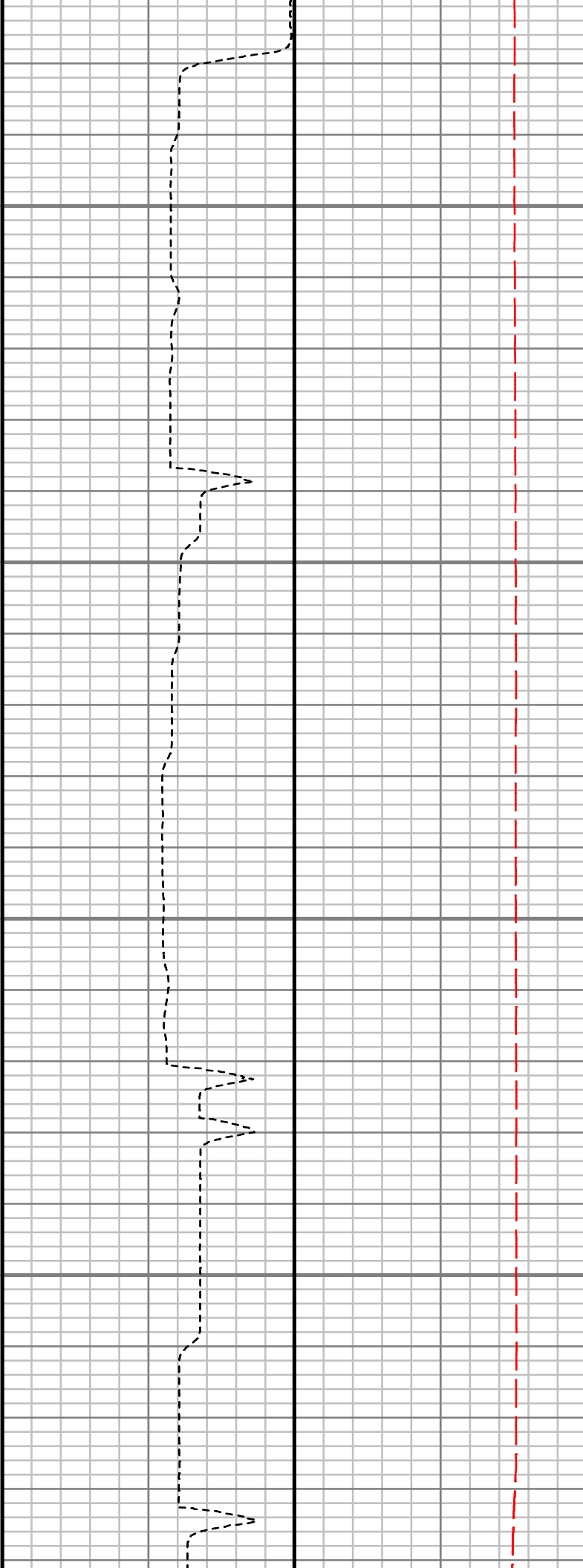
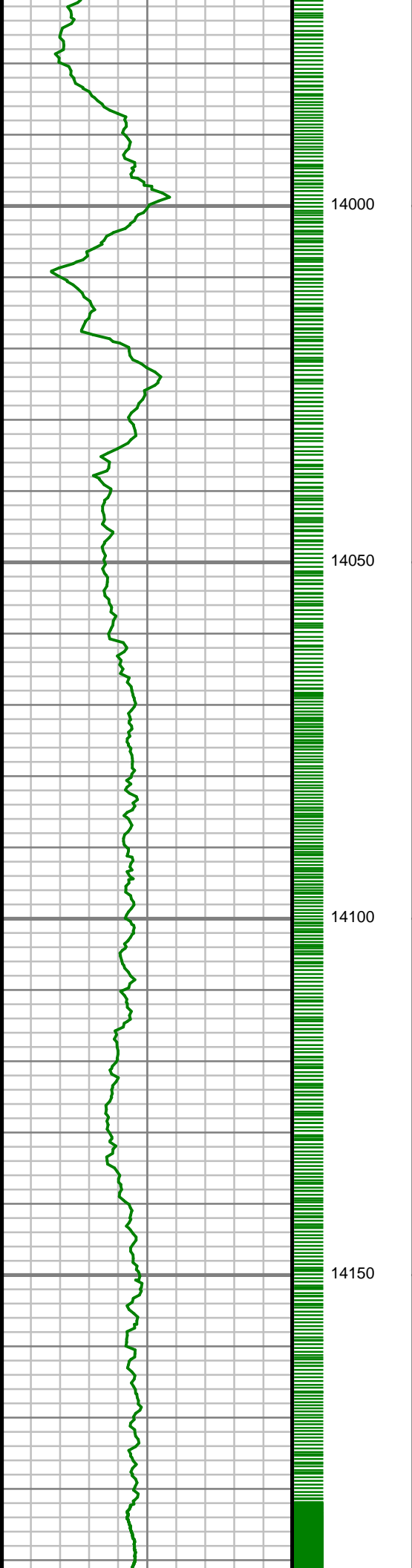
S: 146 MD: 13614.00 ft
Inc: 90.91 deg Az:
85.54 deg TVD:
6236.97 ft

S: 147 MD: 13705.00 ft
Inc: 91.11 deg Az:
87.63 deg TVD:
6235.37 ft



S: 148 MD: 13796.00 ft
Inc: 91.27 deg Az:
87.35 deg TVD:
6233.47 ft

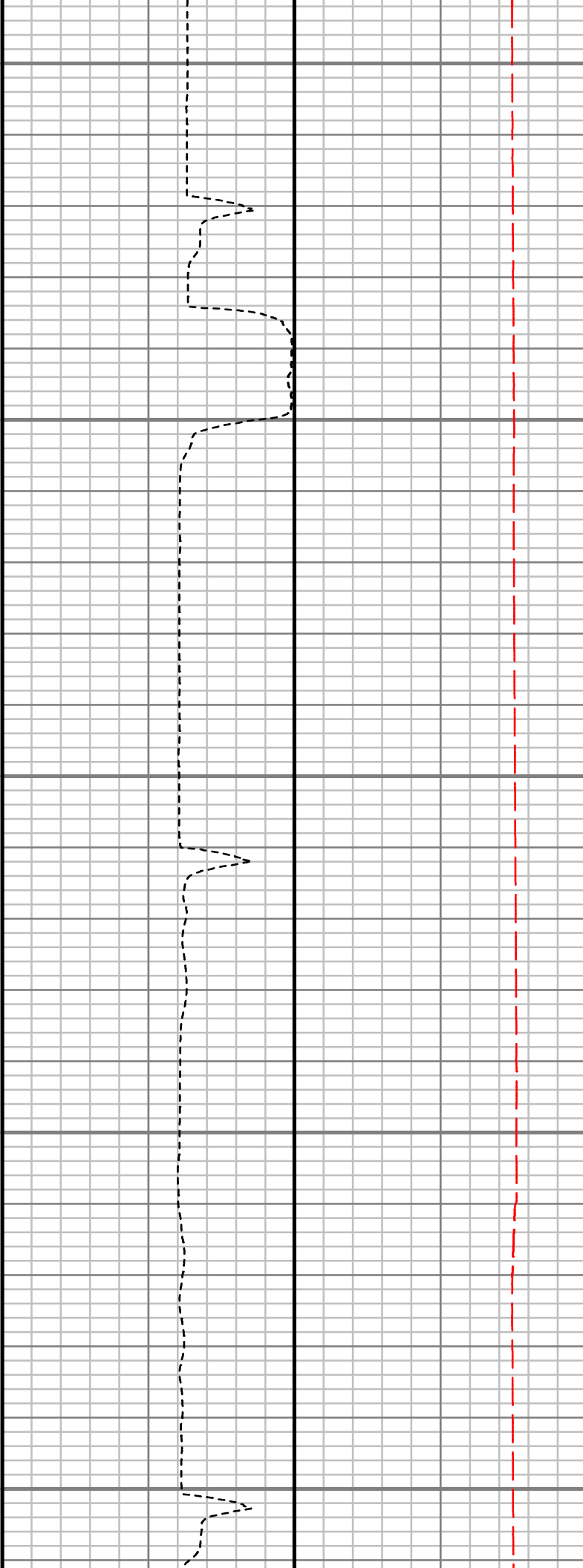
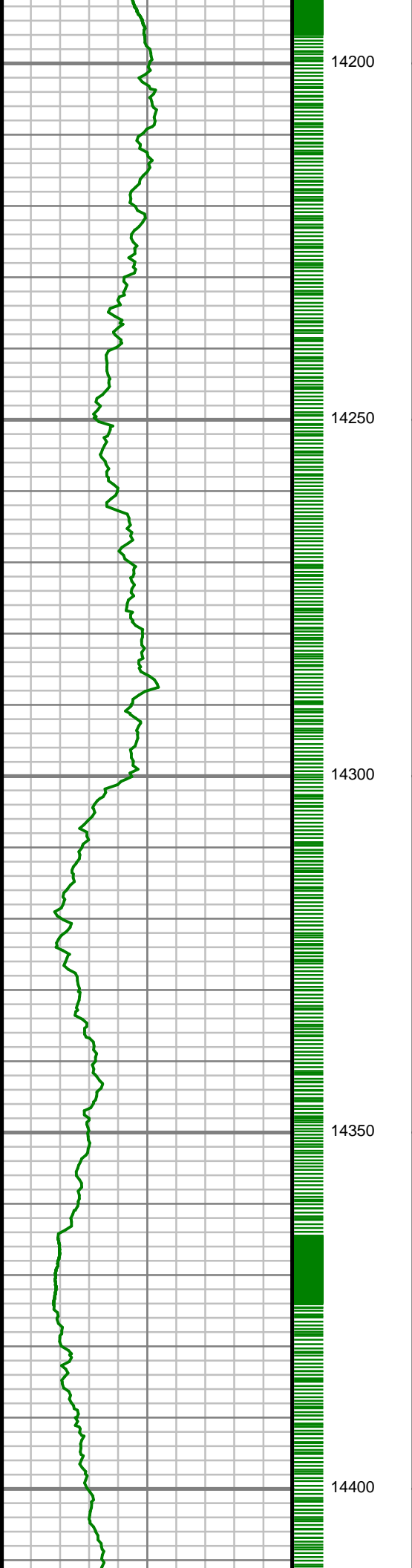
S: 149 MD: 13888.00 ft
Inc: 91.44 deg Az:
87.15 deg TVD:
6231.29 ft



S: 150 MD: 13979.00 ft
Inc: 91.81 deg Az:
88.33 deg TVD:
6228.71 ft

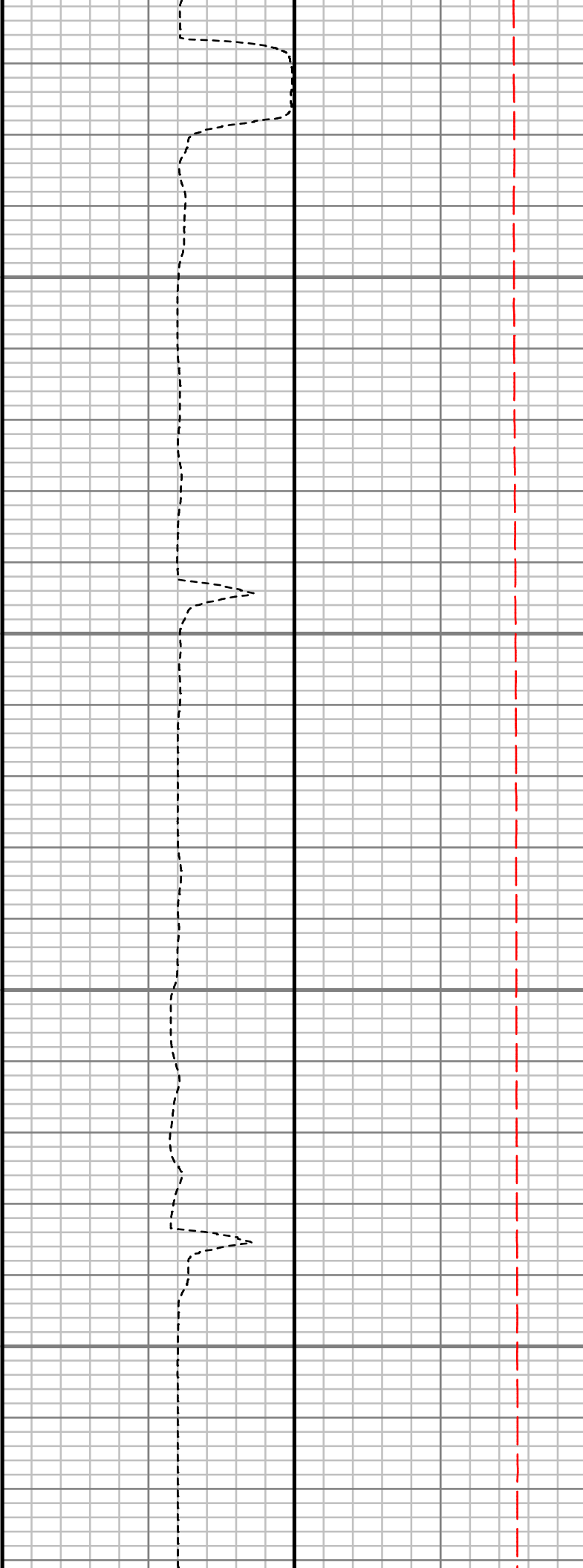
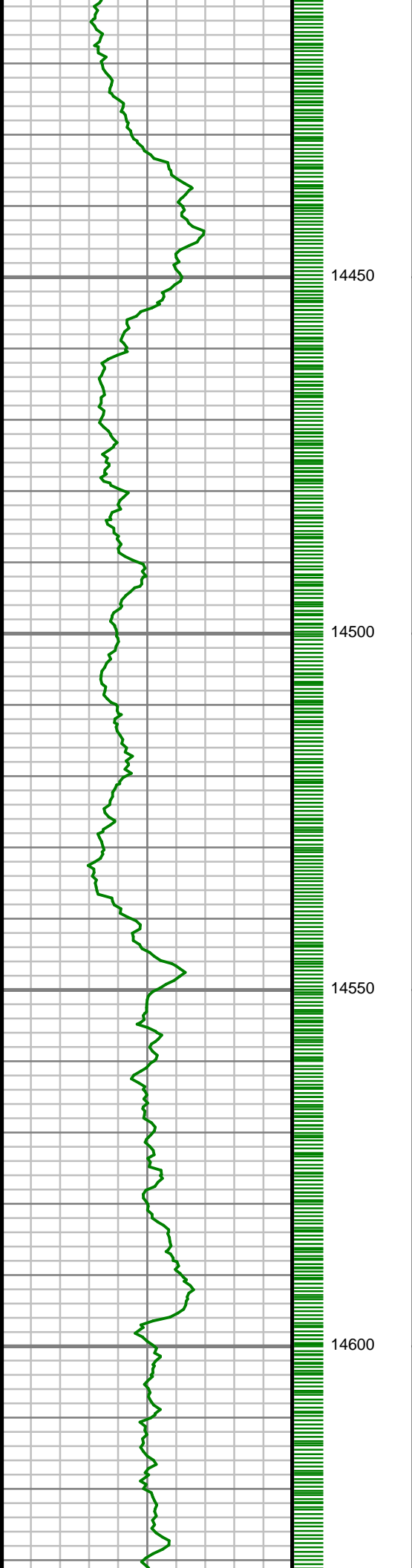
S: 151 MD: 14070.00 ft
Inc: 93.02 deg Az:
89.16 deg TVD:
6224.87 ft

S: 152 MD: 14161.00 ft
Inc: 93.48 deg Az:
89.64 deg TVD:
6219.71 ft



S: 153 MD: 14252.00 ft
Inc: 90.77 deg Az:
88.46 deg TVD:
6216.33 ft

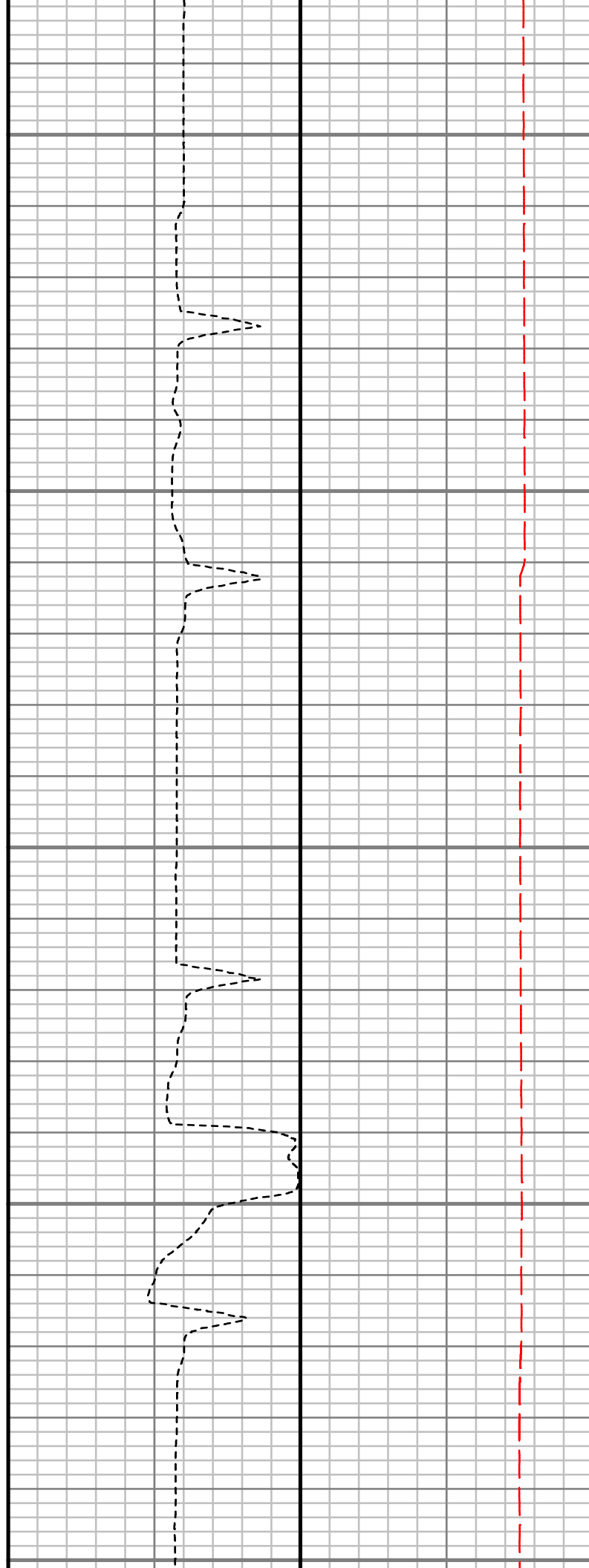
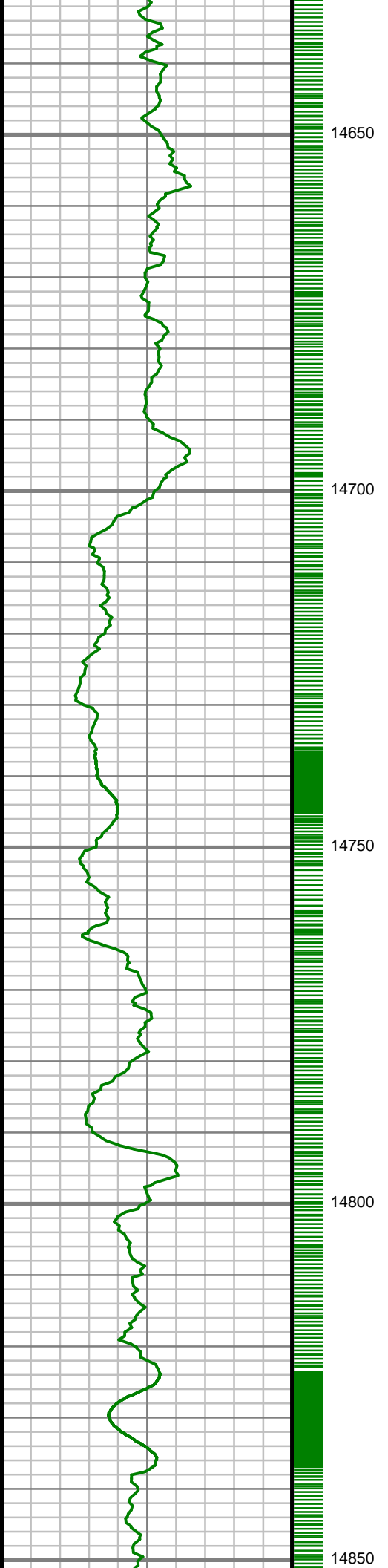
S: 154 MD: 14343.00 ft
Inc: 90.80 deg Az:
88.24 deg TVD:
6215.08 ft



S: 155 MD: 14435.00 ft
Inc: 88.96 deg Az:
87.65 deg TVD:
6215.27 ft

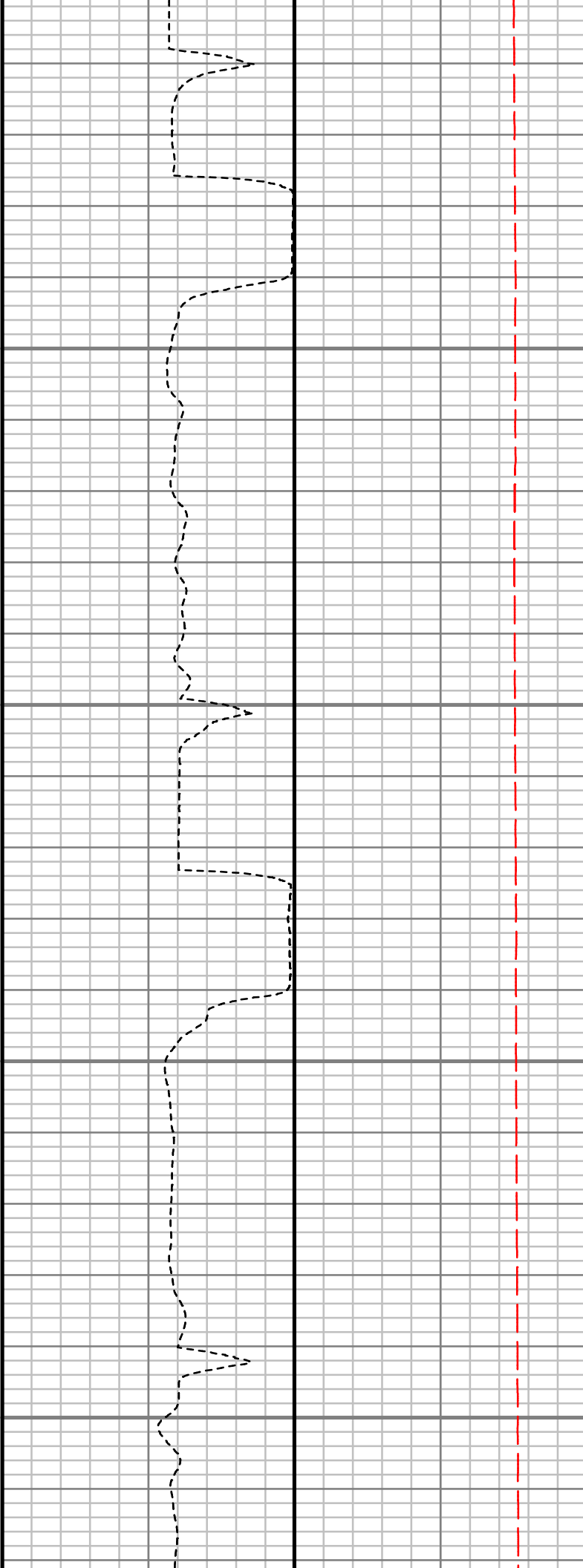
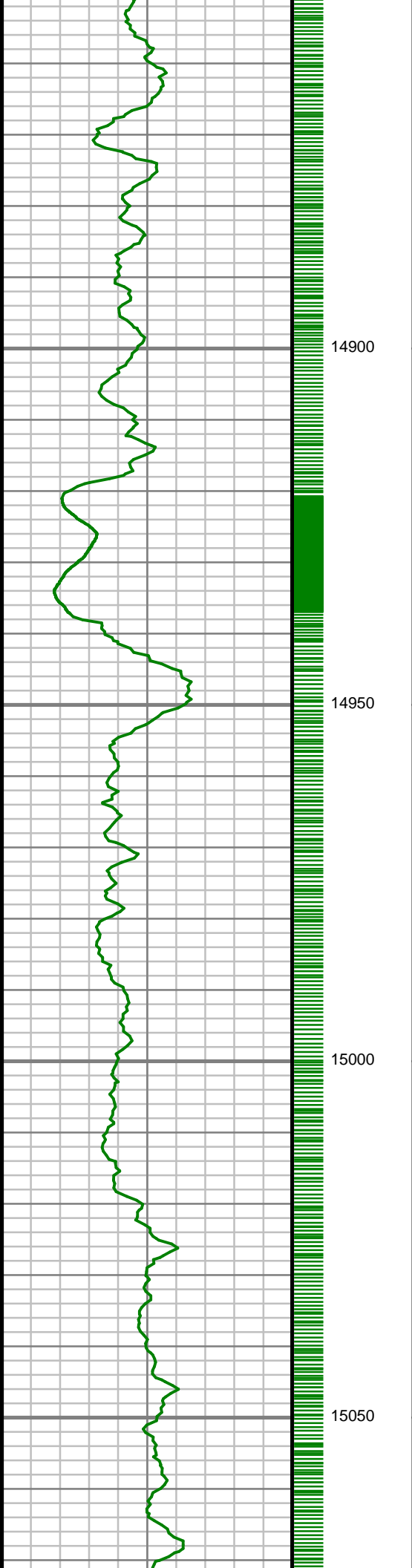
S: 156 MD: 14526.00 ft
Inc: 88.96 deg Az:
87.30 deg TVD:
6216.93 ft

S: 157 MD: 14617.00 ft
Inc: 88.93 deg Az:
87.28 deg TVD:
6218.60 ft



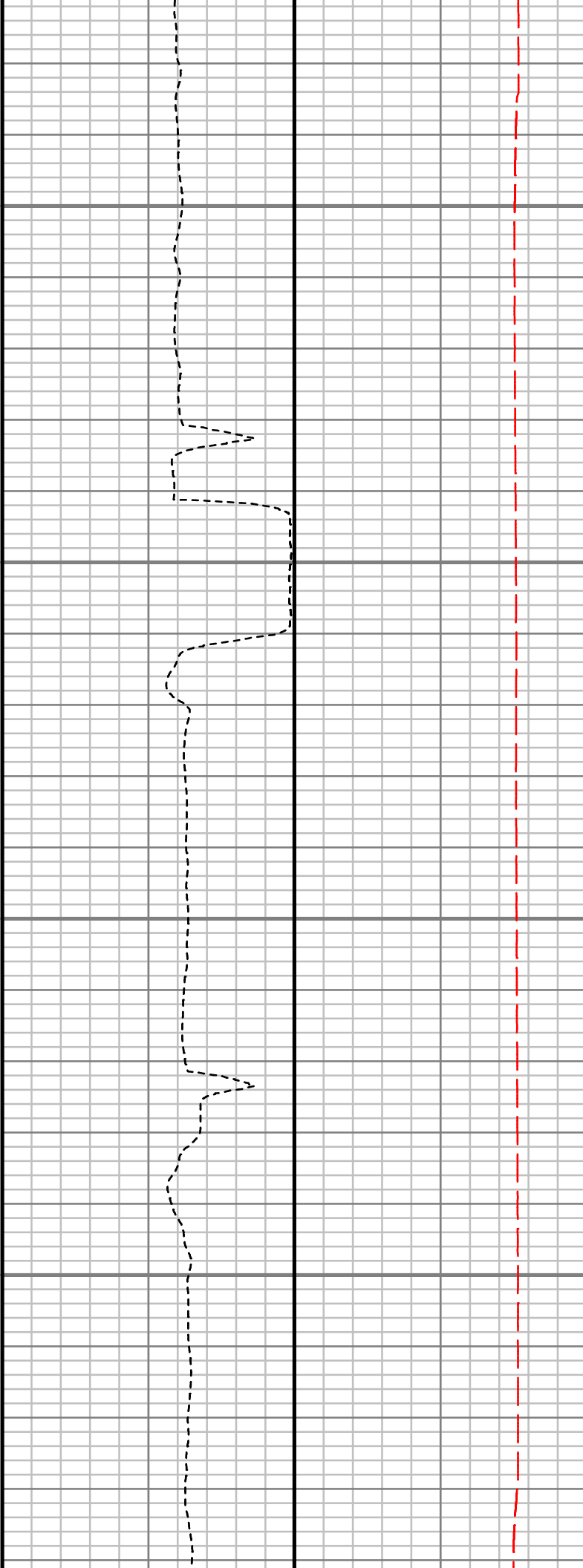
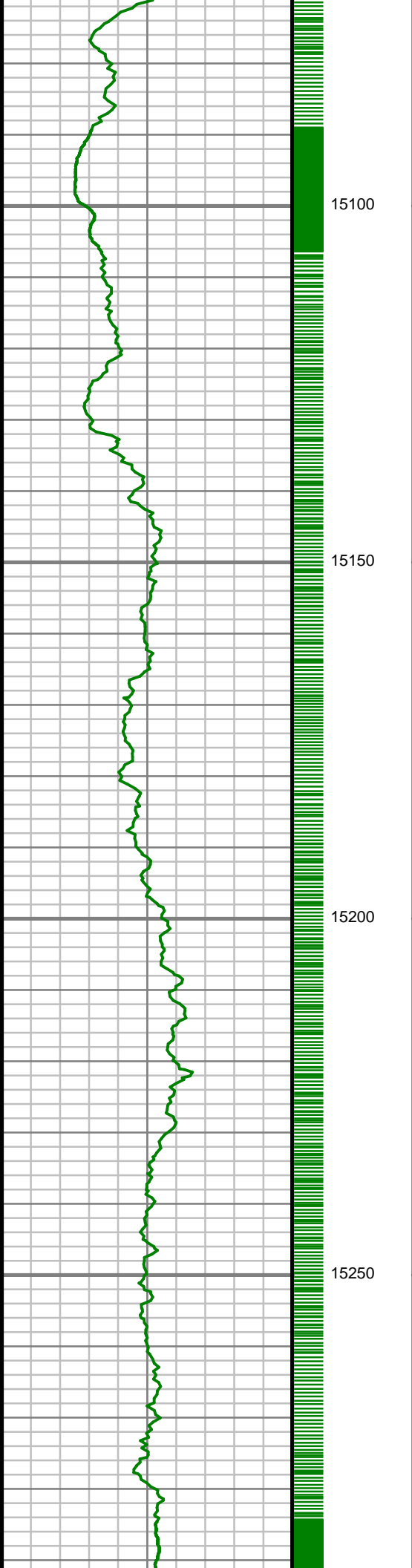
S: 158 MD: 14708.00 ft
Inc: 89.03 deg Az:
87.54 deg TVD:
6220.22 ft

S: 159 MD: 14799.00 ft
Inc: 88.05 deg Az:
88.19 deg TVD:
6222.54 ft

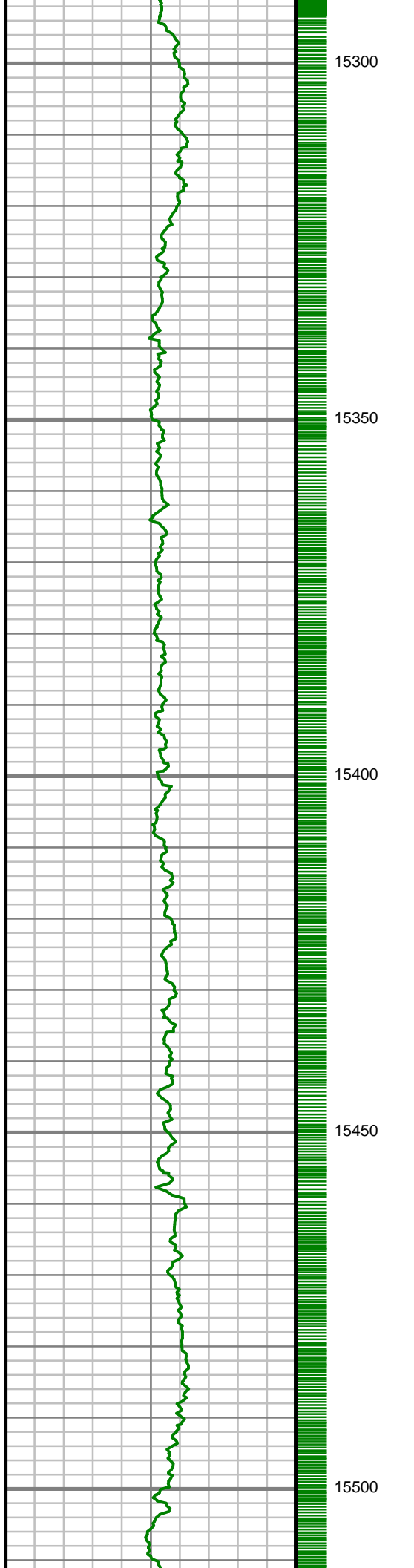


S: 160 MD: 14891.00 ft
Inc: 87.25 deg Az:
89.95 deg TVD:
6226.31 ft

S: 161 MD: 14982.00 ft
Inc: 88.43 deg Az:
90.38 deg TVD:
6229.74 ft

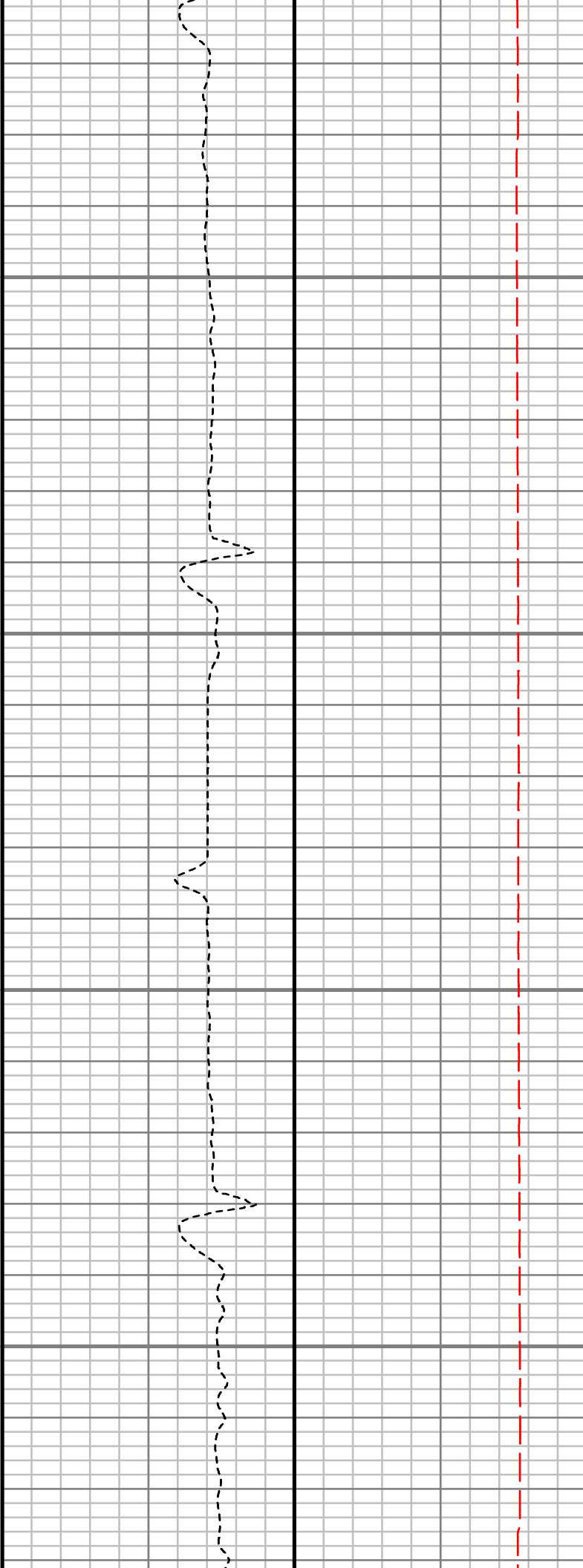
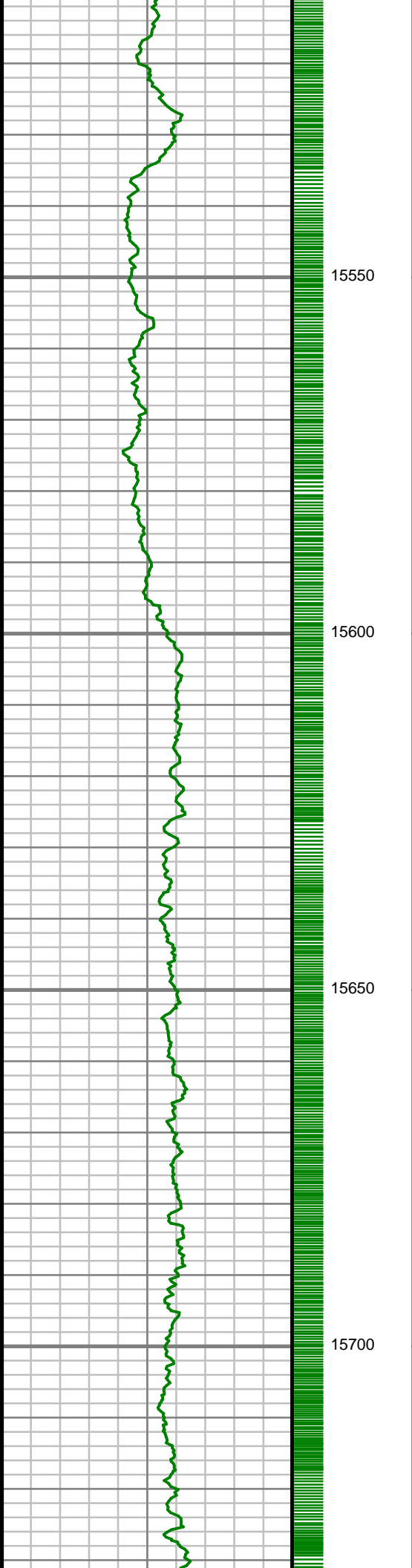


S: 162 MD: 15073.00 ft Inc: 87.89 deg Az: 89.95 deg TVD: 6232.67 ft
S: 163 MD: 15163.00 ft Inc: 89.56 deg Az: 91.22 deg TVD: 6234.67 ft
S: 164 MD: 15255.00 ft Inc: 89.50 deg Az: 91.16 deg TVD: 6235.42 ft



S: 165 MD: 15346.00 ft
Inc: 91.07 deg Az:
90.90 deg TVD:
6234.97 ft

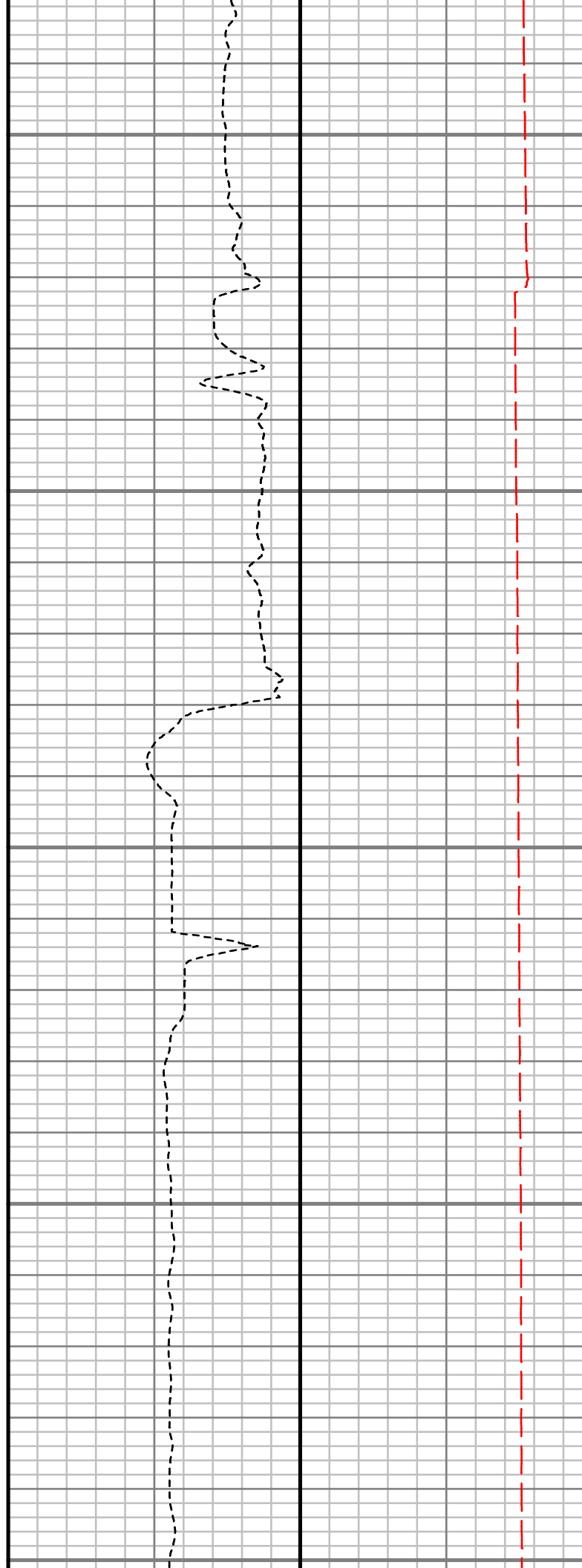
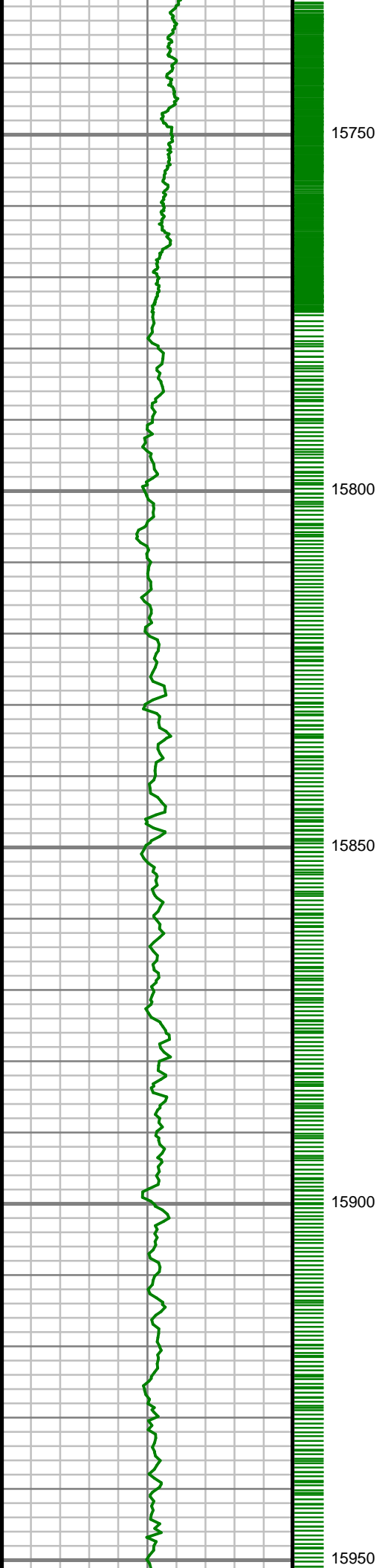
S: 166 MD: 15438.00 ft
Inc: 91.27 deg Az:
91.31 deg TVD:
6233.09 ft



S: 167 MD: 15529.00 ft
Inc: 91.24 deg Az:
91.59 deg TVD:
6231.09 ft

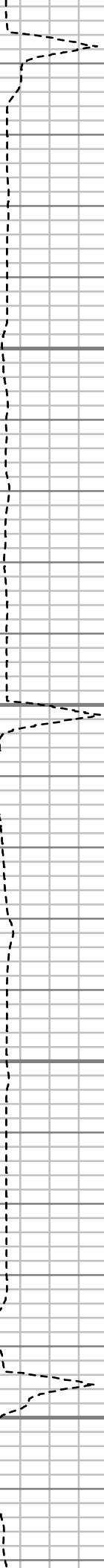
S: 168 MD: 15621.00 ft
Inc: 91.04 deg Az:
90.80 deg TVD:
6229.26 ft

S: 169 MD: 15711.00 ft
Inc: 89.97 deg Az:
89.66 deg TVD:
6228.47 ft



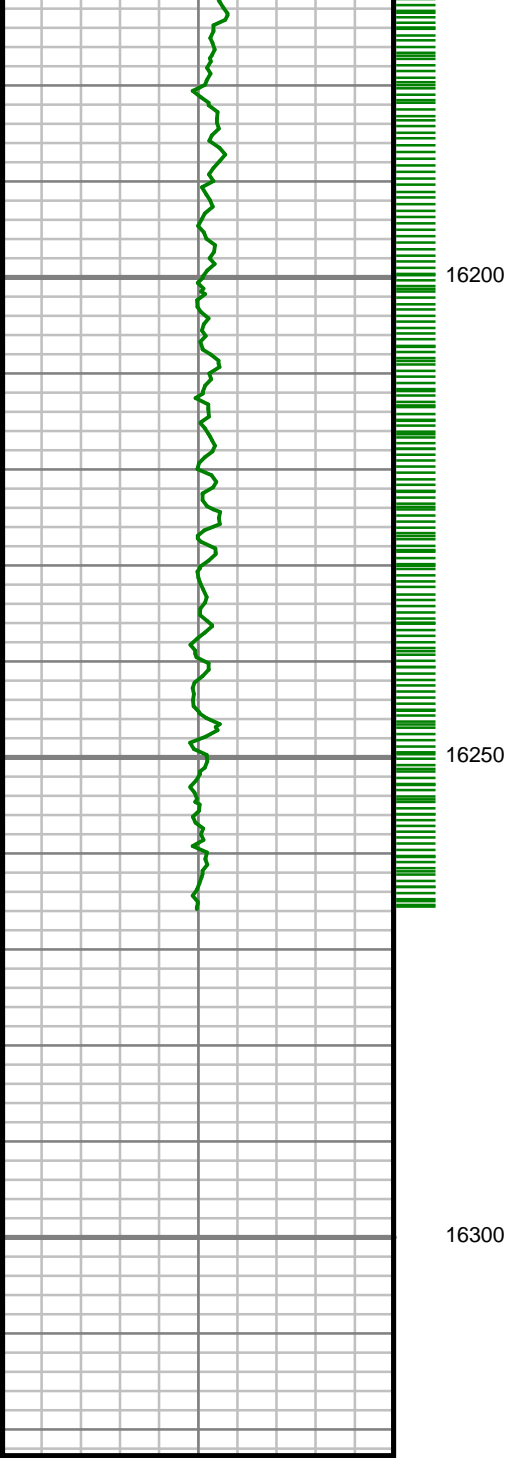
S: 170 MD: 15803.00 ft
Inc: 90.33 deg Az:
88.19 deg TVD:
6228.23 ft

S: 171 MD: 15896.00 ft
Inc: 90.80 deg Az:
87.96 deg TVD:
6227.31 ft

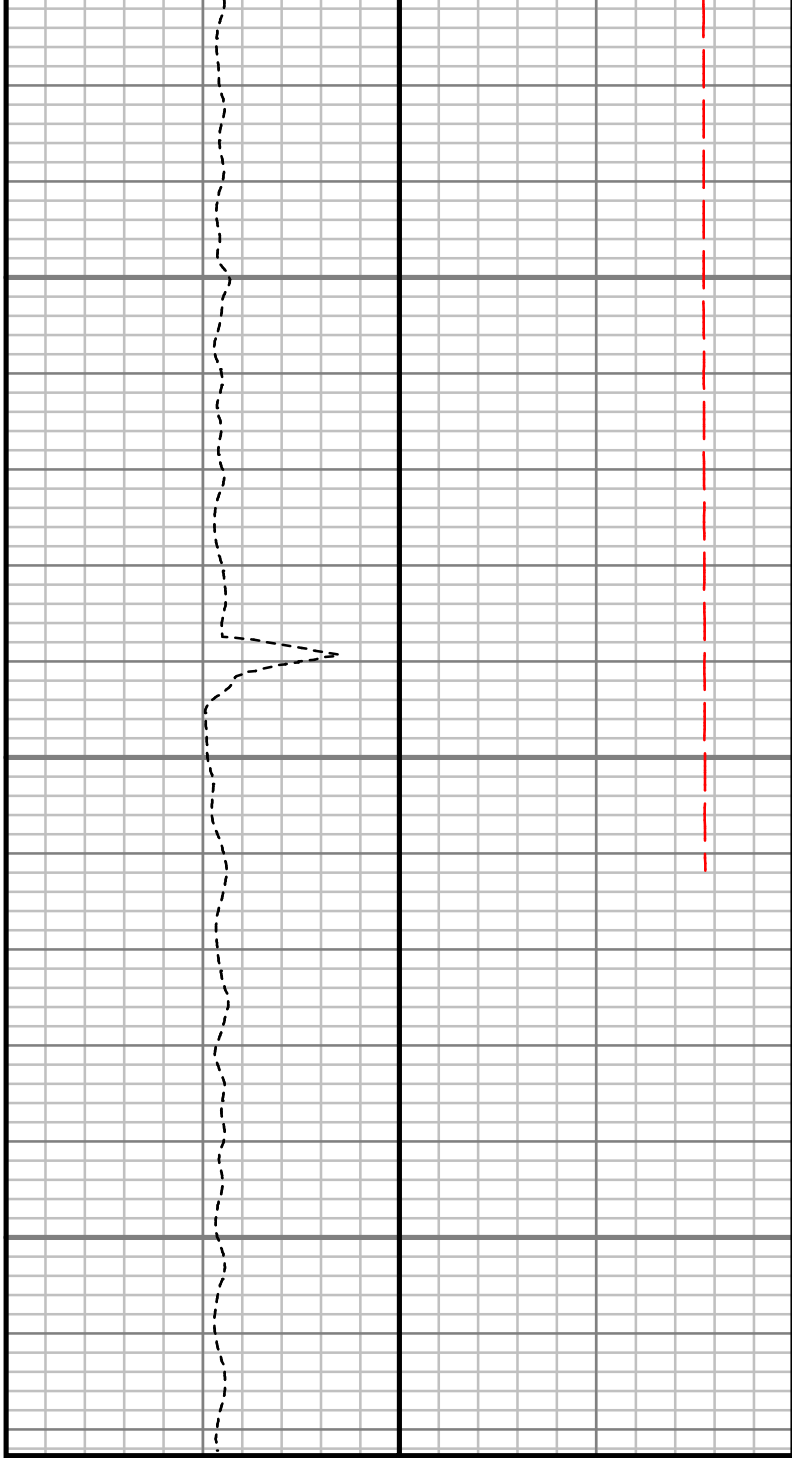


S: 172 MD: 15990.00 ft
Inc: 90.87 deg Az:
87.18 deg TVD:
6225.94 ft

S: 173 MD: 16084.00 ft
Inc: 90.27 deg Az:
86.09 deg TVD:
6225.00 ft



Gamma Ray (GR)		
0	Unit = aapi	200



Rate of Penetration (ROP)	Tool Temperature (T-TEMP)	Comments
1000 Unit = ft/hr 0	0 Unit = °F 300	

S: 174 MD: 16178.00 ft
Inc: 90.97 deg Az:
86.40 deg TVD:
6223.99 ft

S: 175 MD: 16260.00 ft
Inc: 90.64 deg Az:
84.83 deg TVD:
6222.83 ft

SURVEY REPORT

ANSCHUTZ EQUUS FARMS 4-62-28-6457CB

ANSCHUTZ EQUUS FARMS 4-62-28-6457C

CUSTOMER HIGH POINT RESOURCES
PROJECT ANSCHUTZ EQUUS FARMS
FIELD WATTENBERG

WELL INFORMATION

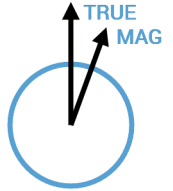
Lat/Long 40° 16' 34.769" N, 104° 20' 12.401" W
Northing 1,345,635.24 ft
Easting 3,324,551.08 ft
UWI 05-123-43721

MAP INFORMATION

North Reference True North
Grid Correction
System US State Plane 1983
Datum North American Datum 1983 (GRS 1980)
Map Zone Colorado North: 0501

VERTICAL SECTION REFERENCE

+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 89.55°
Calculation Method Minimum Curvature



GEOMAGNETIC REFERENCE INFORMATION

Local Gravity: 999.087 mG [computed]

MD	MODEL	DATE	DECLINATION	MAG TO TRUE
0-16260 ft	HDGM2018	23 Mar 2018	8.22°	add 8.22°

WELL NOTES

OPERATORS

A. CARTER, D. GEYER, G. SAKOU, J. PARISE, M. SMITH

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
116.00	0.10	296.50	116.00	-0.09	0.05	-0.09	0.09
211.00	0.30	310.30	211.00	-0.35	0.24	-0.35	0.22
306.00	0.20	322.30	306.00	-0.64	0.54	-0.65	0.12
401.00	0.30	333.80	401.00	-0.85	0.89	-0.86	0.12
496.00	0.20	253.80	496.00	-1.12	1.07	-1.13	0.35
592.00	0.70	260.30	591.99	-1.86	0.92	-1.86	0.52
687.00	0.60	313.80	686.99	-2.79	1.17	-2.80	0.62
767.00	0.40	247.40	766.99	-3.35	1.35	-3.36	0.72
879.00	0.62	245.89	878.98	-4.26	0.95	-4.27	0.20
971.00	3.01	328.16	970.94	-5.98	2.80	-6.00	3.25
1062.00	4.69	330.98	1061.73	-9.01	8.08	-9.07	1.85
1153.00	6.48	327.33	1152.29	-13.52	15.66	-13.64	2.00
1245.00	7.59	324.64	1243.60	-19.76	24.98	-19.96	1.26
1337.00	9.24	324.67	1334.61	-27.46	35.96	-27.75	1.79
1428.00	12.12	322.96	1424.02	-37.33	49.54	-37.73	3.19
1519.00	12.19	318.66	1512.98	-49.32	64.38	-49.83	1.00
1610.00	11.85	318.13	1601.99	-61.78	78.55	-62.41	0.40
1701.00	12.25	314.88	1690.99	-74.75	92.32	-75.48	0.87
1793.00	12.44	312.81	1780.86	-88.82	105.94	-89.67	0.53

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
1884.00	12.19	311.41	1869.76	-103.12	118.95	-104.07	0.43
1975.00	13.65	310.49	1958.46	-118.39	132.28	-119.44	1.62
2067.00	13.97	312.41	2047.80	-134.73	146.82	-135.90	0.61
2158.00	13.83	311.74	2136.13	-150.83	161.46	-152.12	0.24
2249.00	14.60	312.98	2224.35	-167.22	176.52	-168.63	0.92
2340.00	14.40	314.01	2312.45	-183.63	192.20	-185.16	0.36
2433.00	14.30	316.62	2402.55	-199.70	208.59	-201.37	0.70
2528.00	13.66	316.10	2494.73	-215.41	225.20	-217.21	0.69
2621.00	13.38	313.71	2585.16	-230.68	240.55	-232.60	0.67
2716.00	13.27	312.92	2677.60	-246.49	255.57	-248.53	0.22
2810.00	12.54	311.44	2769.22	-261.94	269.67	-264.09	0.85
2904.00	12.64	308.30	2860.96	-277.56	282.81	-279.81	0.74
2998.00	12.38	301.61	2952.73	-294.12	294.46	-296.47	1.57
3092.00	12.32	296.69	3044.56	-311.58	304.25	-314.01	1.12
3186.00	11.99	294.55	3136.45	-329.36	312.81	-331.85	0.60
3281.00	10.92	292.45	3229.56	-346.59	320.34	-349.14	1.21
3374.00	10.00	287.95	3321.02	-362.36	326.19	-364.96	1.32
3468.00	9.44	287.04	3413.67	-377.45	330.96	-380.09	0.62
3562.00	10.06	287.58	3506.31	-392.60	335.70	-395.28	0.67
3656.00	9.53	284.84	3598.94	-407.92	340.17	-410.63	0.75

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
3750.00	9.73	291.58	3691.62	-422.79	345.09	-425.55	1.22
3844.00	9.36	296.62	3784.32	-436.96	351.43	-439.77	0.97
3939.00	8.93	294.41	3878.11	-450.53	357.94	-453.38	0.58
4033.00	6.80	293.28	3971.22	-462.24	363.16	-465.14	2.27
4126.00	6.41	296.91	4063.61	-471.89	367.68	-474.82	0.61
4221.00	5.75	298.95	4158.07	-480.75	372.39	-483.72	0.74
4315.00	4.46	306.31	4251.70	-487.78	376.83	-490.79	1.53
4409.00	4.29	303.34	4345.42	-493.64	380.93	-496.68	0.30
4503.00	3.35	315.22	4439.21	-498.48	384.82	-501.55	1.31
4597.00	1.09	253.94	4533.15	-501.26	386.52	-504.34	3.17
4691.00	0.97	236.87	4627.13	-502.79	385.83	-505.87	0.35
4785.00	0.72	237.38	4721.12	-503.96	385.08	-507.03	0.26
4878.00	1.01	283.58	4814.11	-505.25	384.96	-508.32	0.78
4972.00	0.95	294.43	4908.10	-506.75	385.48	-509.83	0.21
5066.00	0.74	279.13	5002.09	-508.06	385.90	-511.14	0.32
5160.00	0.26	354.56	5096.09	-508.68	386.21	-511.76	0.77
5254.00	0.41	348.68	5190.08	-508.76	386.75	-511.85	0.16
5348.00	0.63	335.14	5284.08	-509.04	387.54	-512.13	0.27
5443.00	0.60	349.74	5379.07	-509.34	388.51	-512.44	0.17
5536.00	0.73	340.48	5472.07	-509.61	389.55	-512.72	0.18

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
5630.00	0.36	316.77	5566.06	-510.01	390.33	-513.13	0.45
5723.00	1.40	57.05	5659.05	-509.26	391.16	-512.38	1.62
5817.00	1.31	80.52	5753.03	-507.23	391.96	-510.36	0.59
5911.00	7.40	85.85	5846.71	-500.12	392.58	-503.26	6.49
6006.00	13.99	82.18	5940.01	-482.61	394.58	-485.76	6.96
6099.00	25.77	92.33	6027.34	-451.16	395.29	-454.31	13.15
6193.00	35.60	99.08	6108.11	-403.64	390.13	-406.75	11.07
6287.00	47.12	103.91	6178.56	-343.07	377.49	-346.08	12.70
6381.00	58.89	98.84	6235.05	-269.71	362.97	-272.60	13.24
6475.00	73.38	99.84	6272.98	-185.23	349.01	-188.01	15.44
6569.00	79.64	105.41	6294.91	-96.29	329.00	-98.91	8.81
6614.00	83.41	102.49	6301.54	-53.19	318.27	-55.72	10.56
6765.00	90.13	100.73	6310.03	94.15	287.96	91.86	4.60
6858.00	91.54	99.26	6308.67	185.59	271.83	183.44	2.19
6953.00	90.10	99.15	6307.31	279.23	256.63	277.20	1.52
7047.00	90.27	97.52	6307.00	372.12	243.01	370.21	1.75
7141.00	90.87	97.25	6306.07	465.24	230.93	463.42	0.70
7235.00	92.02	97.89	6303.70	558.29	218.55	556.57	1.40
7329.00	91.24	94.51	6301.03	651.60	208.41	649.97	3.69
7423.00	90.30	93.51	6299.76	745.31	201.84	743.73	1.46

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
7517.00	90.94	92.65	6298.74	839.12	196.79	837.59	1.14
7611.00	90.91	94.66	6297.23	932.86	190.80	931.38	2.14
7705.00	89.50	91.67	6296.90	1026.66	185.61	1025.22	3.51
7798.00	89.63	88.78	6297.61	1119.64	185.24	1118.21	3.11
7892.00	89.50	88.52	6298.32	1213.63	187.45	1212.18	0.32
7986.00	90.17	87.95	6298.60	1307.60	190.36	1306.13	0.94
8080.00	91.01	89.73	6297.63	1401.59	192.26	1400.10	2.10
8174.00	91.74	89.34	6295.38	1495.56	193.02	1494.07	0.89
8268.00	89.26	91.80	6294.55	1589.53	192.09	1588.05	3.72
8361.00	89.87	91.55	6295.26	1682.46	189.36	1681.01	0.70
8455.00	89.93	91.79	6295.43	1776.39	186.62	1774.97	0.26
8549.00	91.88	89.37	6293.94	1870.35	185.66	1868.94	3.30
8643.00	90.13	89.49	6292.29	1964.34	186.59	1962.92	1.86
8737.00	91.58	90.52	6290.88	2058.32	186.59	2056.90	1.89
8831.00	91.34	88.99	6288.49	2152.28	186.99	2150.87	1.64
8925.00	92.39	87.25	6285.43	2246.20	190.08	2244.76	2.16
9019.00	91.95	89.82	6281.88	2340.11	192.48	2338.66	2.77
9113.00	91.11	89.97	6279.37	2434.07	192.65	2432.62	0.91
9207.00	88.89	89.37	6279.37	2528.07	193.20	2526.61	2.44
9300.00	89.93	90.34	6280.32	2621.06	193.44	2619.61	1.53

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
9394.00	89.33	87.66	6280.93	2715.04	195.08	2713.58	2.92
9488.00	91.31	89.52	6280.41	2809.02	197.39	2807.54	2.89
9581.00	90.00	92.44	6279.35	2901.97	195.80	2900.51	3.44
9674.00	90.54	92.45	6278.91	2994.85	191.83	2993.42	0.58
9768.00	90.37	90.67	6278.17	3088.79	189.27	3087.38	1.90
9862.00	90.30	89.99	6277.62	3182.78	188.73	3181.38	0.73
9955.00	90.47	88.29	6276.99	3275.77	190.12	3274.36	1.83
10049.00	90.40	86.75	6276.27	3369.71	194.19	3368.27	1.65
10142.00	90.54	86.87	6275.51	3462.60	199.37	3461.12	0.20
10237.00	90.94	88.46	6274.29	3557.53	203.24	3556.03	1.72
10331.00	89.09	87.79	6274.26	3651.50	206.31	3649.98	2.09
10422.00	88.83	90.18	6275.91	3742.47	207.93	3740.94	2.64
10513.00	89.73	90.72	6277.06	3833.45	207.21	3831.93	1.16
10604.00	91.68	91.49	6275.94	3924.41	205.46	3922.90	2.30
10695.00	90.44	91.34	6274.26	4015.34	203.22	4013.86	1.37
10786.00	90.44	91.16	6273.57	4106.30	201.24	4104.83	0.20
10877.00	90.13	89.84	6273.11	4197.28	200.44	4195.83	1.48
10968.00	90.23	89.83	6272.82	4288.28	200.71	4286.82	0.11
11059.00	90.34	89.39	6272.37	4379.28	201.33	4377.82	0.49
11150.00	90.13	88.60	6271.99	4470.28	202.92	4468.81	0.89

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
11241.00	90.47	89.97	6271.51	4561.27	204.06	4559.79	1.54
11333.00	89.73	89.43	6271.35	4653.27	204.55	4651.79	0.99
11424.00	92.72	90.37	6269.41	4744.24	204.71	4742.76	3.44
11516.00	93.39	90.09	6264.50	4836.10	204.34	4834.63	0.79
11607.00	91.98	90.10	6260.24	4926.99	204.19	4925.53	1.55
11698.00	92.42	88.76	6256.75	5017.92	205.09	5016.45	1.54
11789.00	90.70	89.32	6254.27	5108.88	206.61	5107.40	1.98
11881.00	90.67	89.38	6253.16	5200.87	207.66	5199.39	0.07
11972.00	90.10	87.83	6252.55	5291.86	209.88	5290.36	1.81
12063.00	90.54	88.90	6252.04	5382.83	212.47	5381.32	1.27
12154.00	90.74	90.13	6251.03	5473.83	213.25	5472.31	1.37
12246.00	90.50	91.12	6250.04	5565.80	212.25	5564.29	1.11
12337.00	90.23	91.68	6249.45	5656.75	210.03	5655.26	0.69
12428.00	90.60	92.40	6248.78	5747.66	206.78	5746.20	0.89
12519.00	90.67	90.69	6247.77	5838.60	204.32	5837.16	1.88
12610.00	90.44	87.28	6246.89	5929.58	205.93	5928.13	3.76
12701.00	90.87	90.15	6245.85	6020.55	207.96	6019.09	3.19
12793.00	91.07	90.51	6244.29	6112.53	207.43	6111.08	0.44
12883.00	90.64	87.34	6242.95	6202.50	209.12	6201.04	3.55
12975.00	90.90	91.68	6241.71	6294.47	209.91	6293.00	4.72

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
13066.00	90.81	90.75	6240.35	6385.42	207.98	6383.97	1.02
13157.00	91.11	92.92	6238.83	6476.33	205.07	6474.91	2.40
13248.00	90.81	92.46	6237.32	6567.18	200.80	6565.79	0.60
13340.00	90.24	89.52	6236.48	6659.14	199.20	6657.77	3.26
13431.00	89.26	88.03	6236.88	6750.13	201.15	6748.74	1.95
13523.00	89.87	87.01	6237.58	6842.06	205.12	6840.65	1.29
13614.00	90.91	85.54	6236.97	6932.91	211.03	6931.45	1.99
13705.00	91.11	87.63	6235.37	7023.77	216.46	7022.27	2.31
13796.00	91.27	87.35	6233.47	7114.69	220.45	7113.16	0.36
13888.00	91.44	87.15	6231.29	7206.59	224.87	7205.03	0.28
13979.00	91.81	88.33	6228.71	7297.51	228.46	7295.92	1.36
14070.00	93.02	89.16	6224.87	7388.42	230.45	7386.82	1.61
14161.00	93.48	89.64	6219.71	7479.27	231.40	7477.67	0.73
14252.00	90.77	88.46	6216.33	7570.19	232.91	7568.58	3.25
14343.00	90.80	88.24	6215.08	7661.16	235.53	7659.53	0.25
14435.00	88.96	87.65	6215.27	7753.12	238.83	7751.47	2.10
14526.00	88.96	87.30	6216.93	7844.05	242.84	7842.37	0.39
14617.00	88.93	87.28	6218.60	7934.96	247.14	7933.25	0.04
14708.00	89.03	87.54	6220.22	8025.88	251.25	8024.14	0.30
14799.00	88.05	88.19	6222.54	8116.81	254.64	8115.05	1.29

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
14891.00	87.25	89.95	6226.31	8208.73	256.13	8206.95	2.10
14982.00	88.43	90.38	6229.74	8299.66	255.87	8297.89	1.37
15073.00	87.89	89.95	6232.67	8390.61	255.61	8388.84	0.76
15163.00	89.56	91.22	6234.67	8480.56	254.70	8478.81	2.34
15255.00	89.50	91.16	6235.42	8572.52	252.78	8570.78	0.10
15346.00	91.07	90.90	6234.97	8663.49	251.15	8661.77	1.76
15438.00	91.27	91.31	6233.09	8755.43	249.38	8753.73	0.50
15529.00	91.24	91.59	6231.09	8846.36	247.08	8844.68	0.31
15621.00	91.04	90.80	6229.26	8938.30	245.17	8936.64	0.89
15711.00	89.97	89.66	6228.47	9028.29	244.81	9026.63	1.73
15803.00	90.33	88.19	6228.23	9120.28	246.54	9118.61	1.65
15896.00	90.80	87.96	6227.31	9213.25	249.67	9211.56	0.56
15990.00	90.87	87.18	6225.94	9307.18	253.66	9305.46	0.83
16084.00	90.27	86.09	6225.00	9401.05	259.17	9399.29	1.32
16178.00	90.97	86.40	6223.99	9494.89	265.32	9493.08	0.82
16260.00	90.64	84.83	6222.83	9576.69	271.59	9574.83	1.96

5" = 100' MD