



GAMMA RAY

5" = 100' MD

COMPANY : ANADARKO E&P ONSHORE LLC  
WELL : MARRS 28N-10HZ  
FIELD : WATTENBERG  
COUNTY : WELD  
STATE : COLORADO  
COUNTRY : U.S.A.  
UWI : 512343270

COMPANY : ANADARKO E&P ONSHORE LLC  
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UWI : 512343270

WELL LOCATION NAD83  
LAT:40.0379460° LONG:-104.8790300°  
N:14540574.18 ft E:1674275.67 ft

SEC:22 TWP:1N RANGE:67W

OTHER SERVICES

DIRECTIONAL  
ROP

DEPTH REF. : KB

REF. HEIGHT : 17.000 ft KB to Ground Level

GROUND LEVEL : 4981.000 ft G.L. to MEAN SEA LEVEL

## BOREHOLE RECORD

HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
13.5	0	1886			
8.5	1886	XXXX			

## CASING RECORD

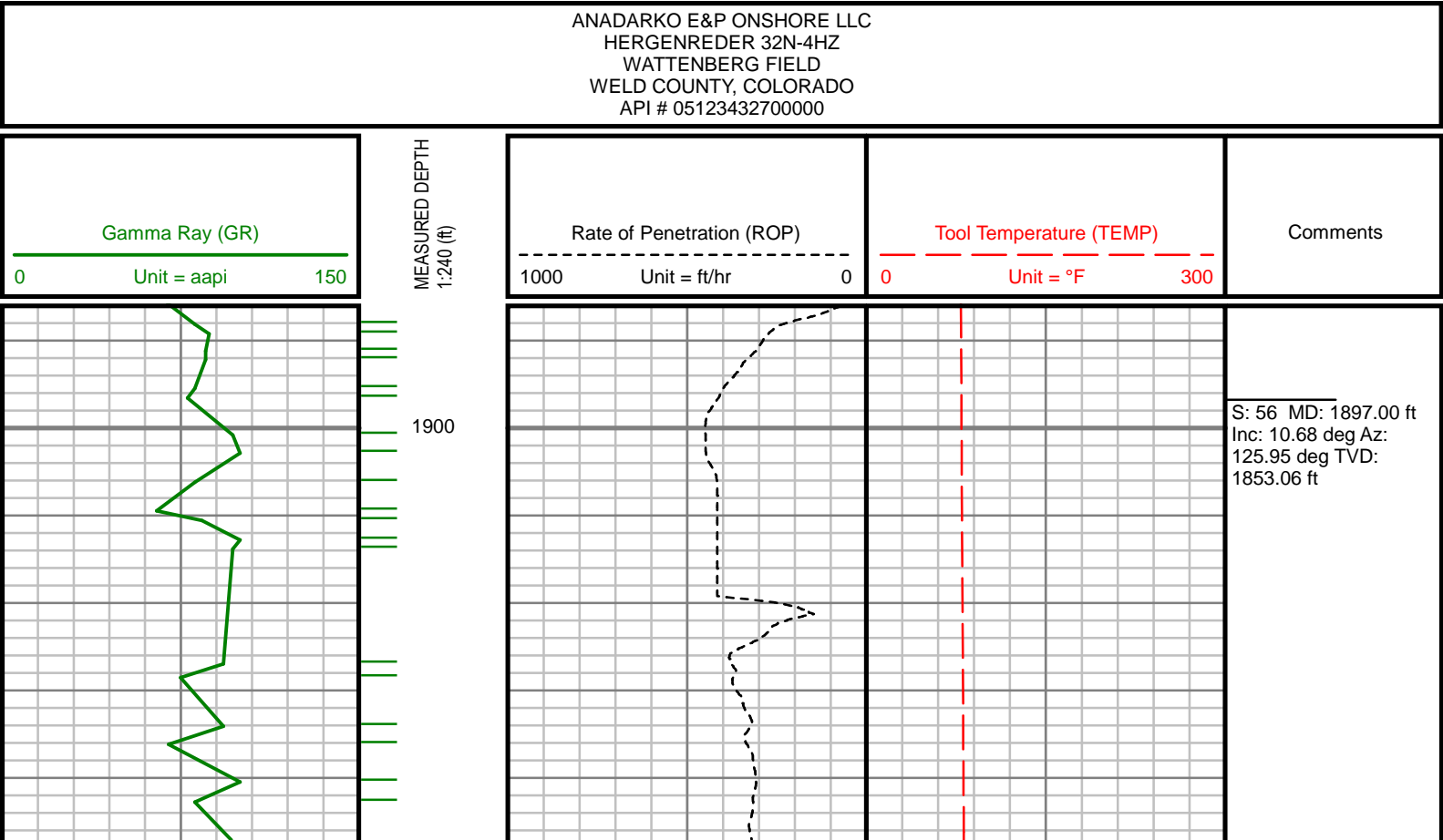
CASING SIZE in	FROM ft	TO ft	DRILLING CO. : XTREME
9.625	0	1878	RIG : 24
			LWD UNIT NO. : KIT MUD PUDISTRICT : CASPER
			SPUD DATE : 02/22/2018
			LWD START DATE : 03/02/2018 DEPTH : 1886 ft
			LWD END DATE : XXXX DEPTH : XXXX ft
			TOTAL DEPTH : XXXX ft

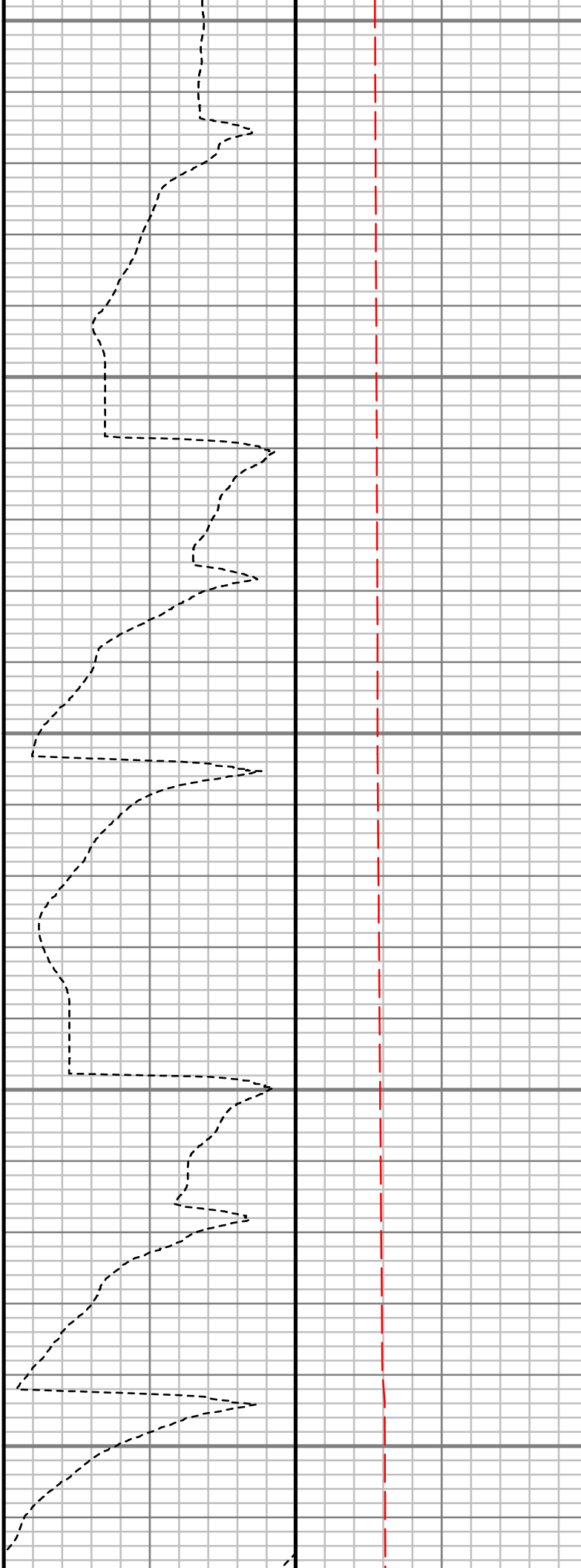
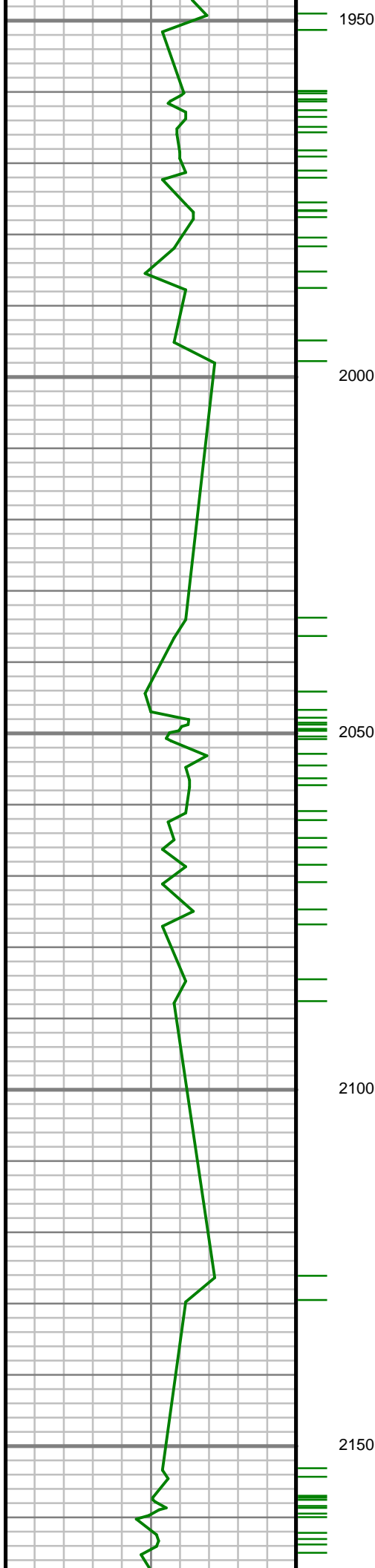
## Run Data

RUN NUMBER	1	2		
START DATE	03/02/2018	03/04/2018		
START TIME	21:00	15:00		
END DATE	03/04/2018	XX		
END TIME	15:00	XX		
DEPTH IN (ft)	1886	7630		
DEPTH OUT (ft)	7630	XX		
LOG TOP (ft)	1983	7581		
LOG BOTTOM (ft)	7581	XX		
HOLE SIZE (in)	8.5	8.5		
MUD DATA @ (ft)	7362	10998		
MUD TYPE	OIL-BASED	OIL-BASED		
DENSITY (lb / gal)	8.8	8.85		
VISCOSITY (s / qt)	60	18		
pH	-	-		
FLUID LOSS (cm <sup>3</sup> / 30)	-	-		
SALINITY (mg/L)	32400	40000		
Rm (ohmm @ deg F)	-	-		
Rmf (ohmm @ deg F)	-	-		
MAX TEMP (deg F)	160	XX		
Rm @ MAX TEMP (ohmm)	-	-		
LWD ENGINEER #1	M. POTTER	J. MEYERS		
LWD ENGINEER #2	J. MEYERS	M. BAILY		
LWD ENGINEER #3	M. BAILY	-		
LOG WITNESS #1	-	-		
LOG WITNESS #2	-	-		

Remarks
ANADARKO E&P ONSHORE LLC PRODUCTION AFE# 2111898
SCIENTIFIC DRILLING INTERNATIONAL JOB# OP.008556
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 / RESISTIVITY / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER=128-232 / CONTROLLER=139 / MWD EYE=1664 / GAMMA RAY=1537
BIT TO SENSOR OFFSETS: MWD EYE=65.59 FT. / GAMMA RAY=48.49 FT. / PRT=55.89 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER=128-178 / CONTROLLER=209 / MWD EYE=1689 / GAMMA RAY=1420
BIT TO SENSOR OFFSETS: MWD EYE=57.83 FT. / GAMMA RAY=62.43 FT.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
TEMP = TOOL TEMPERATURE

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

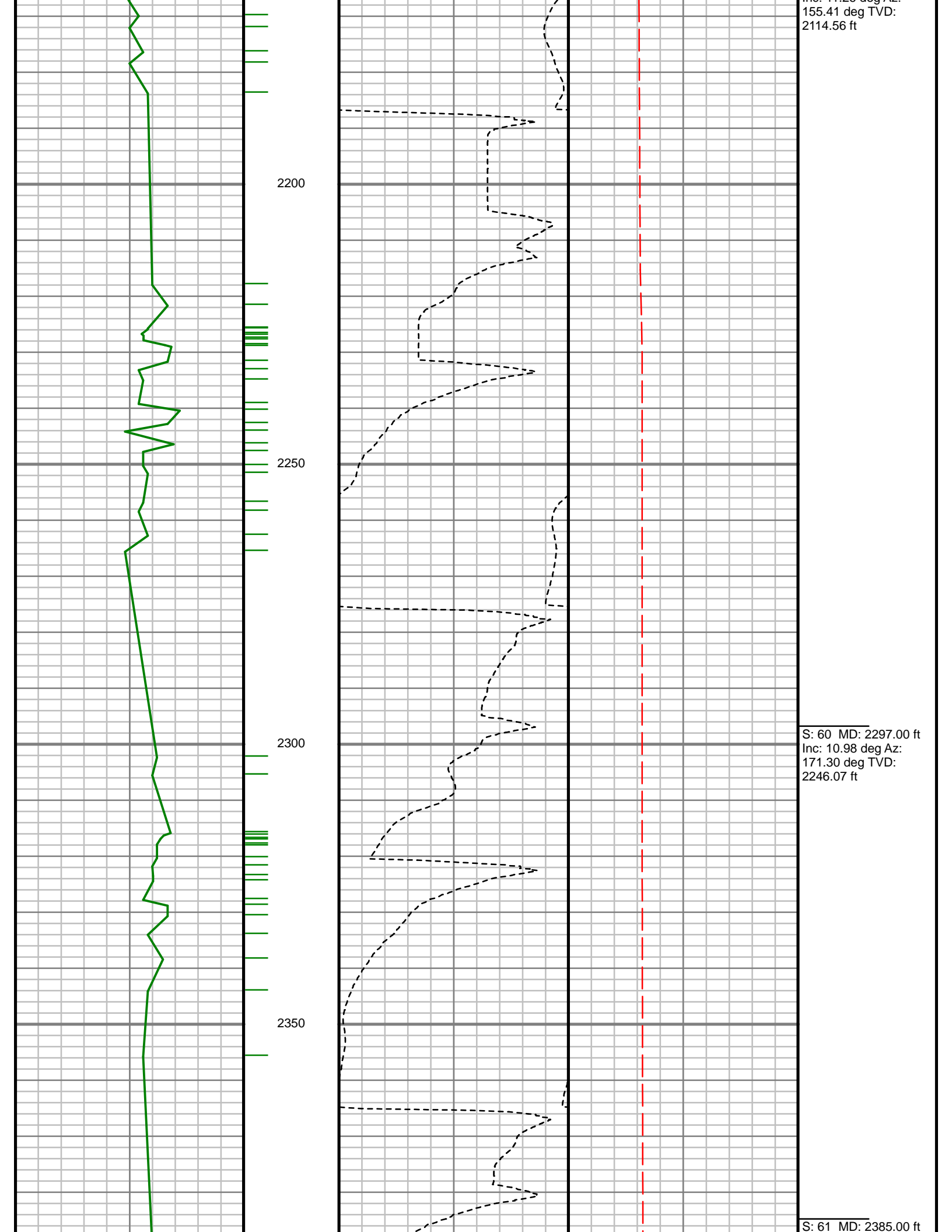


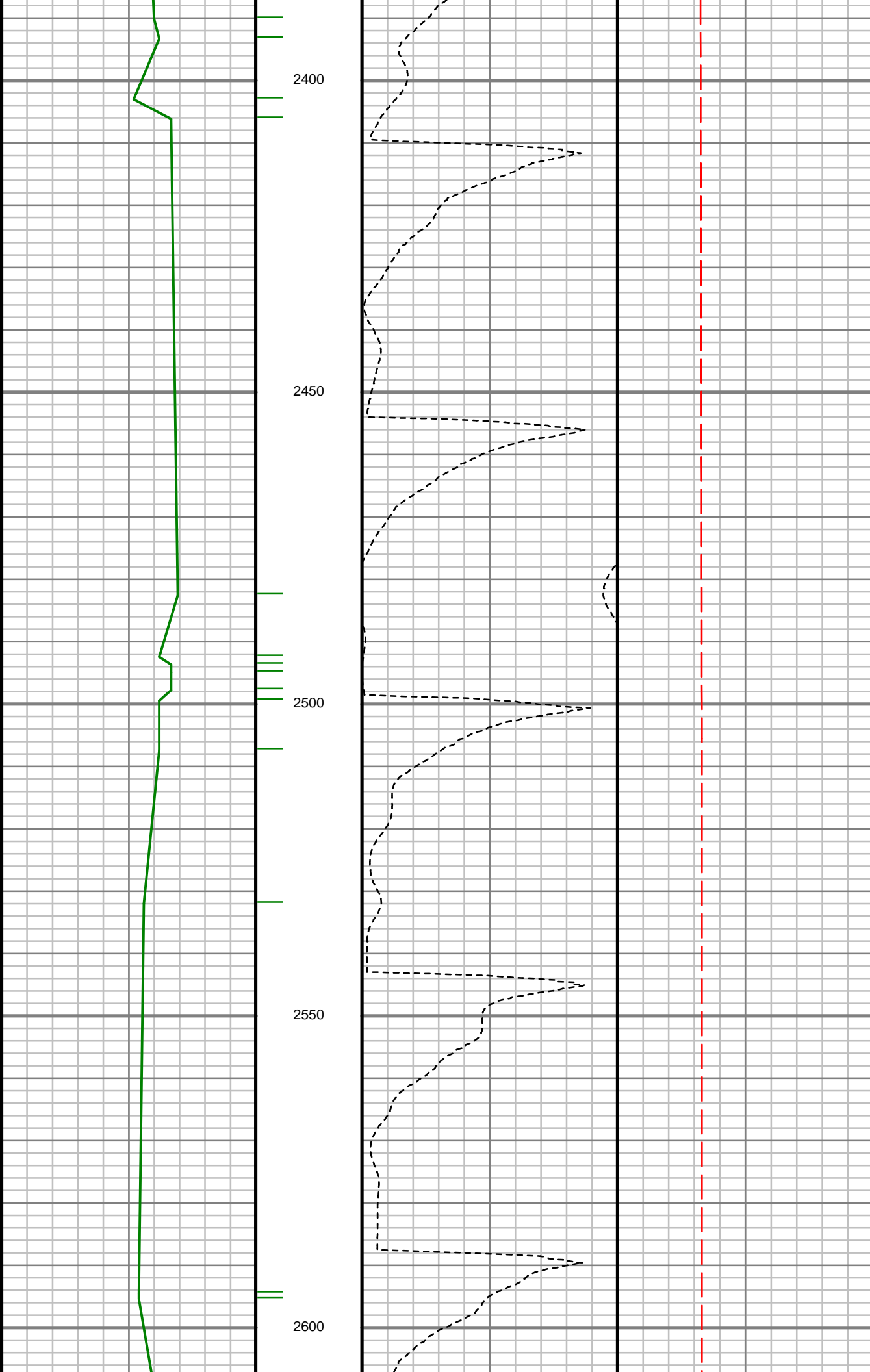


S: 57 MD: 1986.00 ft  
Inc: 10.50 deg Az:  
125.63 deg TVD:  
1940.55 ft

S: 58 MD: 2074.00 ft  
Inc: 10.32 deg Az:  
141.53 deg TVD:  
2027.12 ft

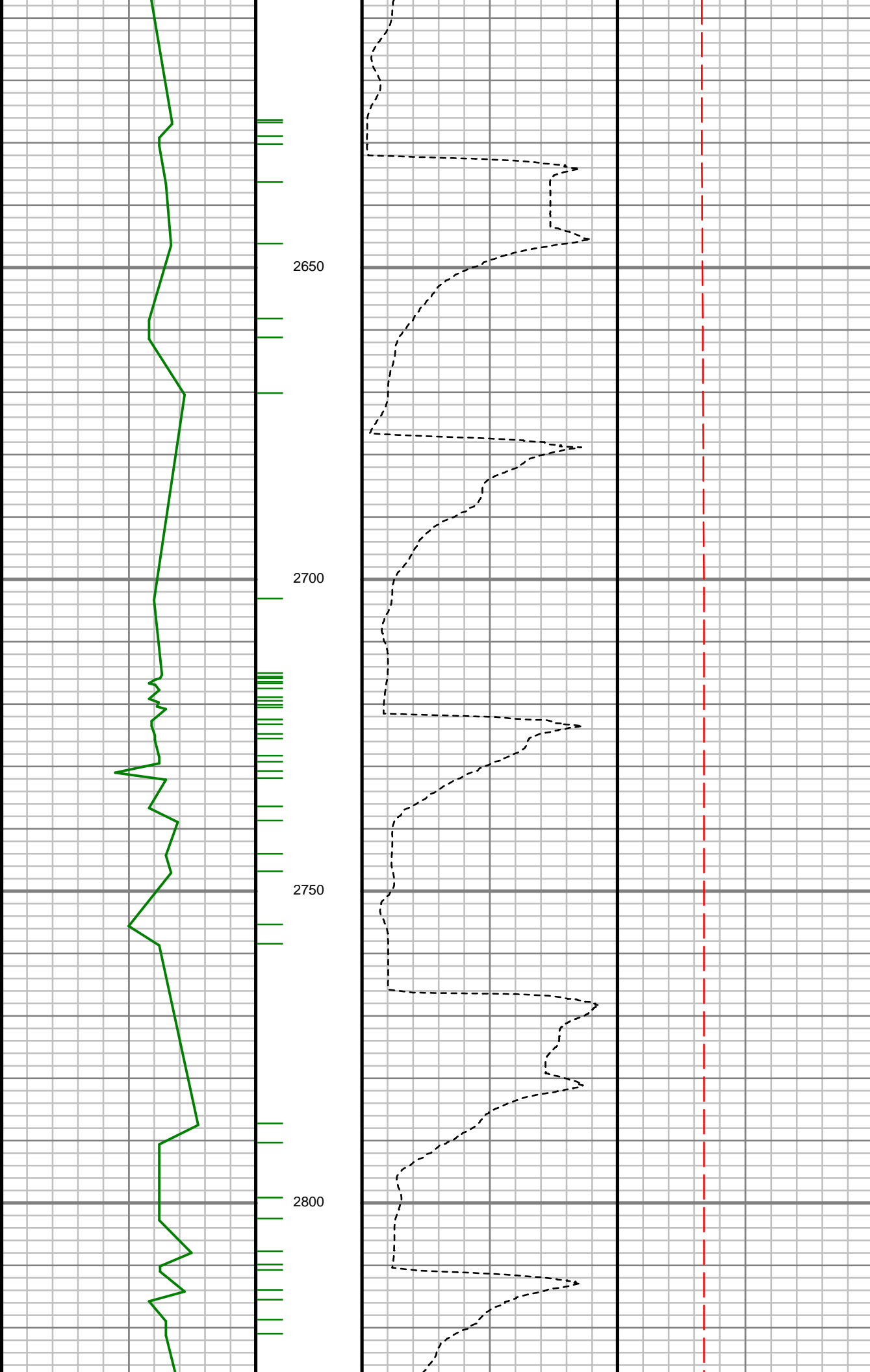
S: 59 MD: 2163.00 ft  
Inc: 11.26 deg Az:





Inc: 11.43 deg Az:  
182.19 deg TVD:  
2332.40 ft

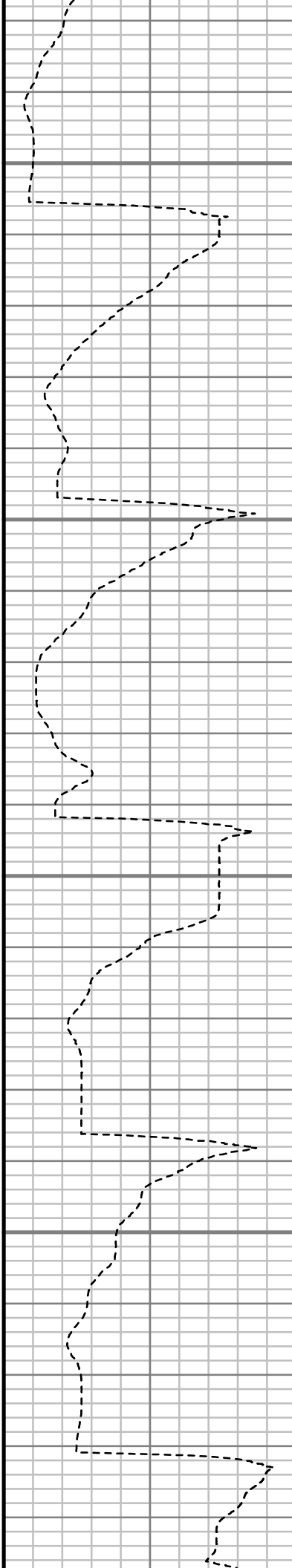
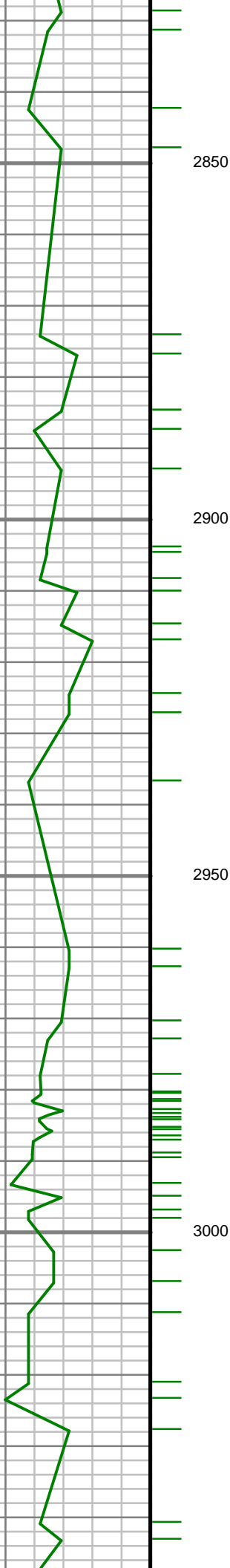
S: 62 MD: 2474.00 ft  
Inc: 11.22 deg Az:  
181.84 deg TVD:  
2419.67 ft



S: 63 MD: 2607.00 ft  
Inc: 10.95 deg Az:  
180.17 deg TVD:  
2550.19 ft

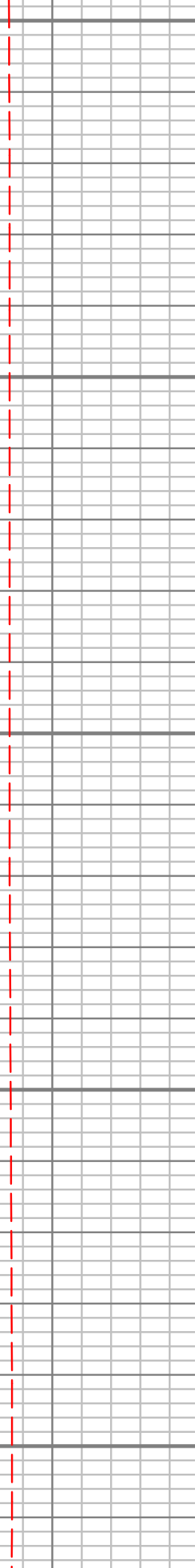
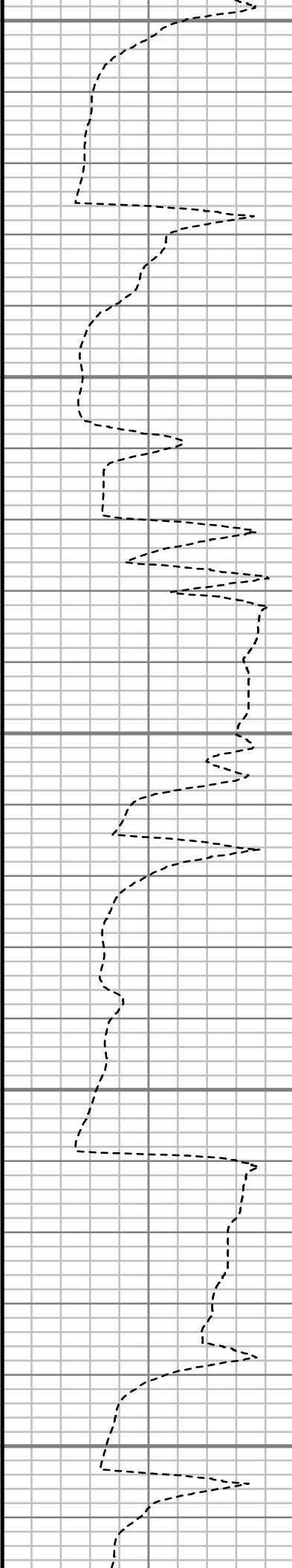
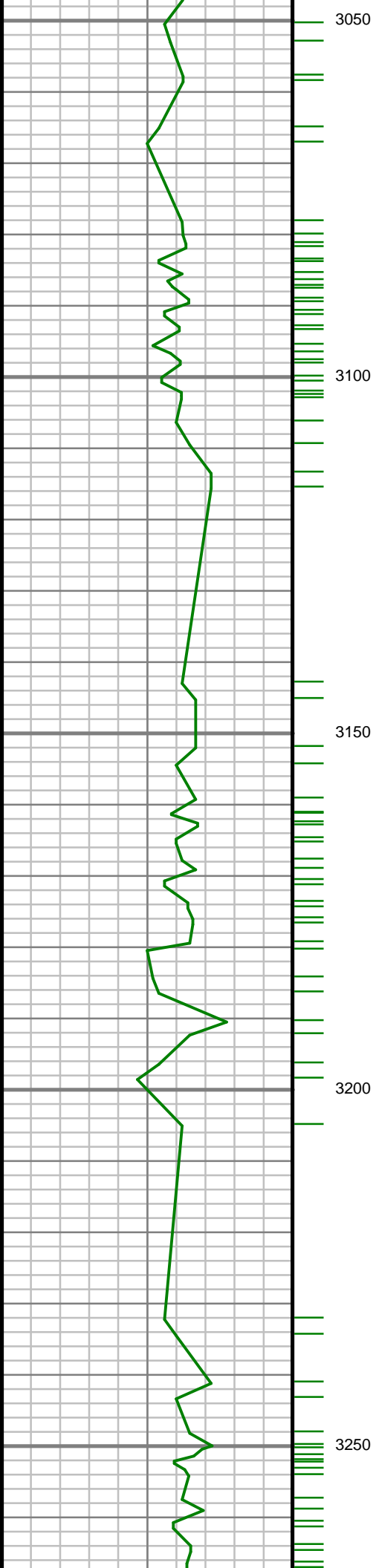
S: 64 MD: 2696.00 ft  
Inc: 10.47 deg Az:  
178.97 deg TVD:  
2637.64 ft

S: 65 MD: 2785.00 ft  
Inc: 10.84 deg Az:  
186.80 deg TVD:  
2725.11 ft



S: 66 MD: 2874.00 ft  
Inc: 10.39 deg Az:  
190.73 deg TVD:  
2812.59 ft

S: 67 MD: 2963.00 ft  
Inc: 9.89 deg Az:  
192.02 deg TVD:  
2900.20 ft

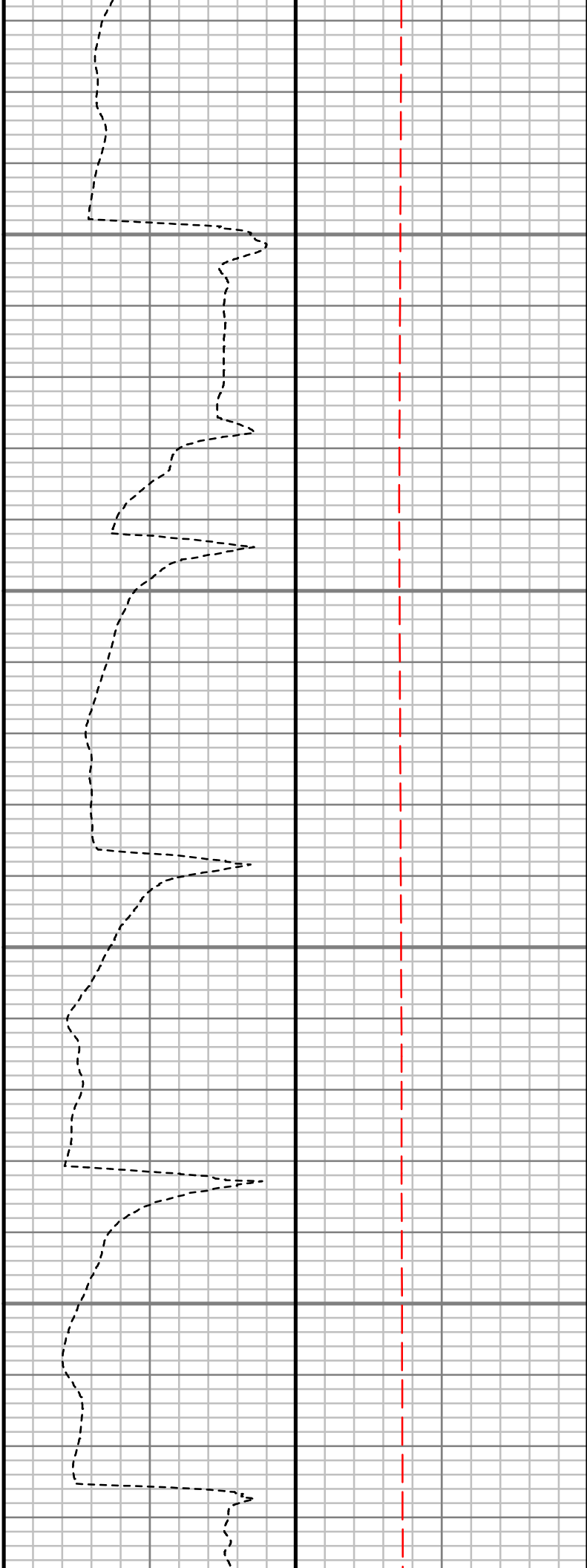
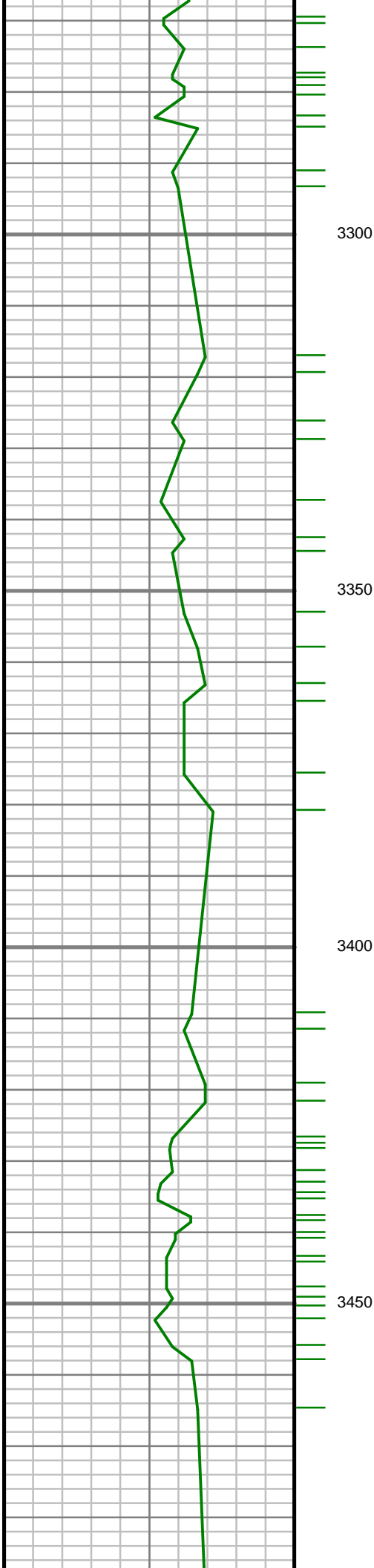


S: 68 MD: 3052.00 ft  
Inc: 8.38 deg Az:  
180.17 deg TVD:  
2988.07 ft

S: 69 MD: 3141.00 ft  
Inc: 6.32 deg Az:  
176.71 deg TVD:  
3076.34 ft

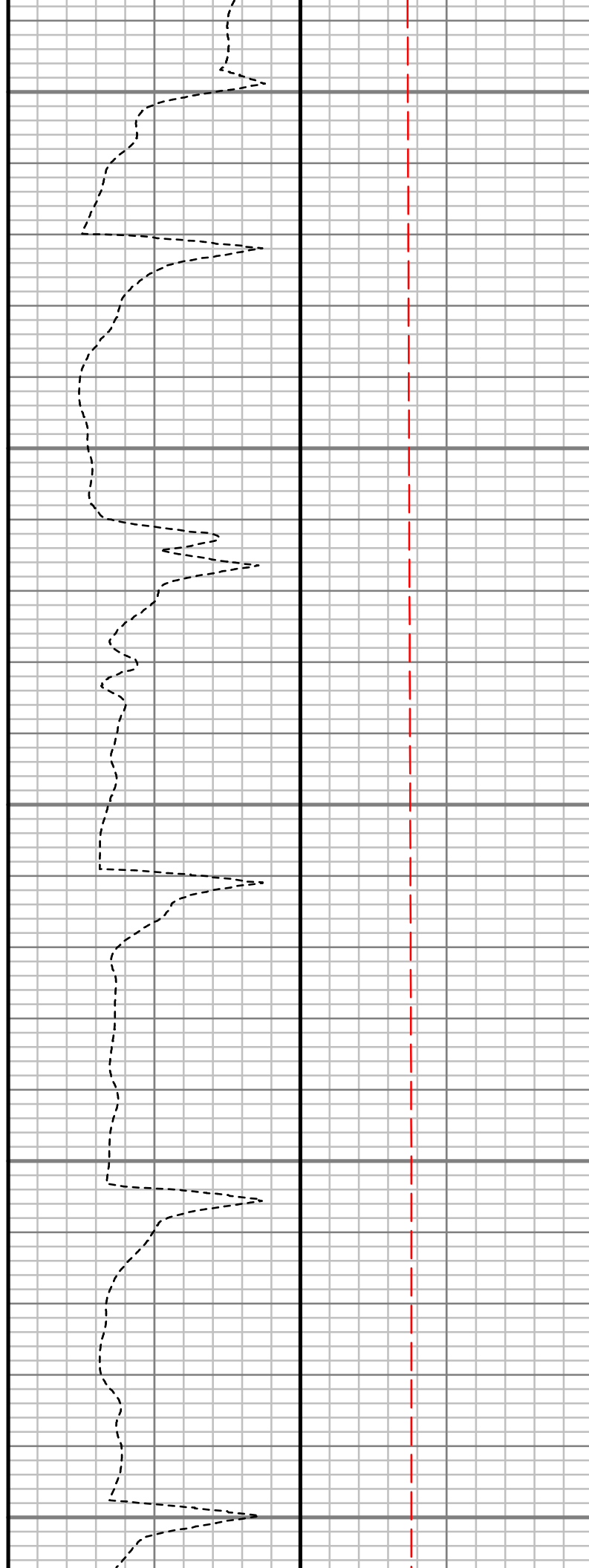
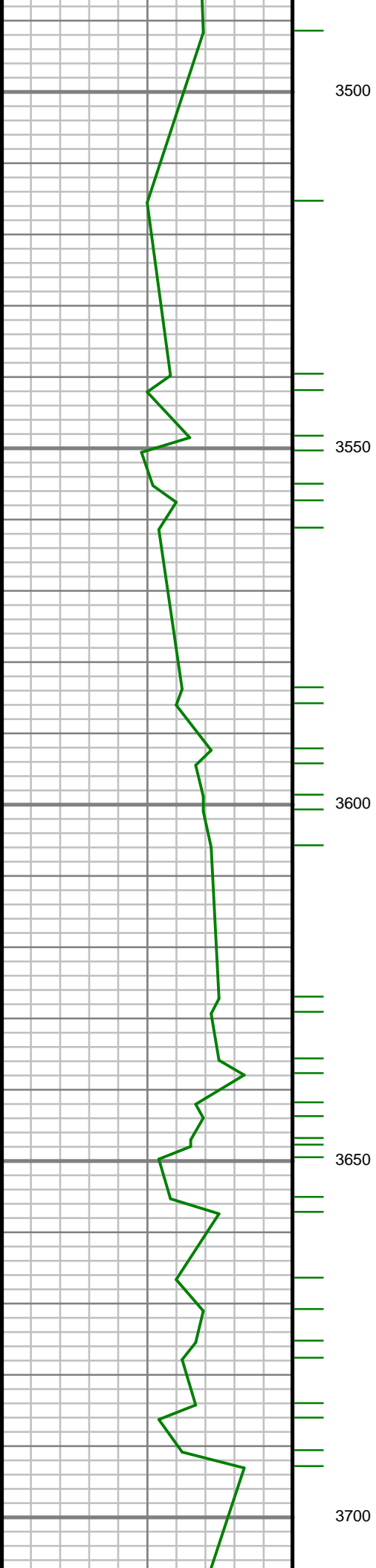
S: 70 MD: 3229.00 ft  
Inc: 3.37 deg Az:  
153.35 deg TVD:  
3164.02 ft





S: 71 MD: 3318.00 ft  
Inc: 0.63 deg Az: 23.39  
deg TVD: 3252.98 ft

S: 72 MD: 3407.00 ft  
Inc: 2.04 deg Az:  
350.89 deg TVD:  
3341.95 ft



S: 73 MD: 3496.00 ft  
Inc: 0.77 deg Az: 10.81  
deg TVD: 3430.92 ft

S: 74 MD: 3629.00 ft  
Inc: 0.34 deg Az: 60.90  
deg TVD: 3563.92 ft

S: 75 MD: 3718.00 ft  
Inc: 0.35 deg Az: 19.28  
deg TVD: 3652.91 ft

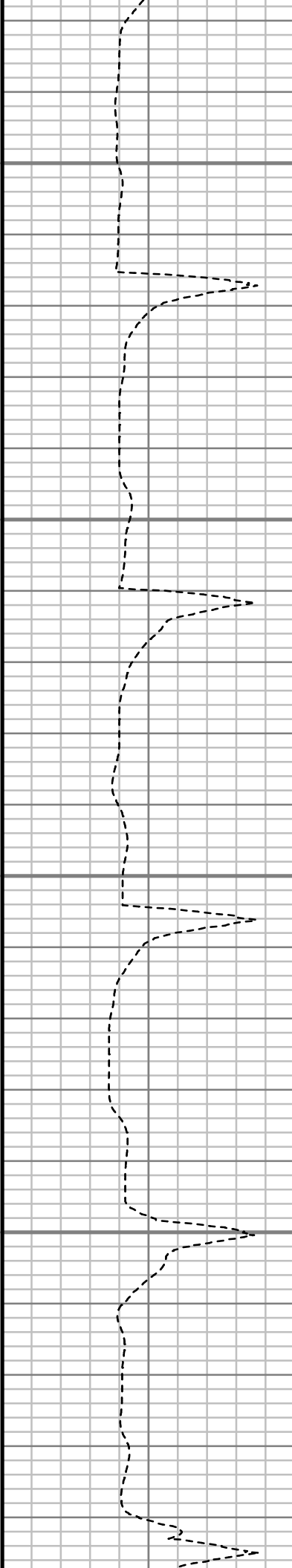
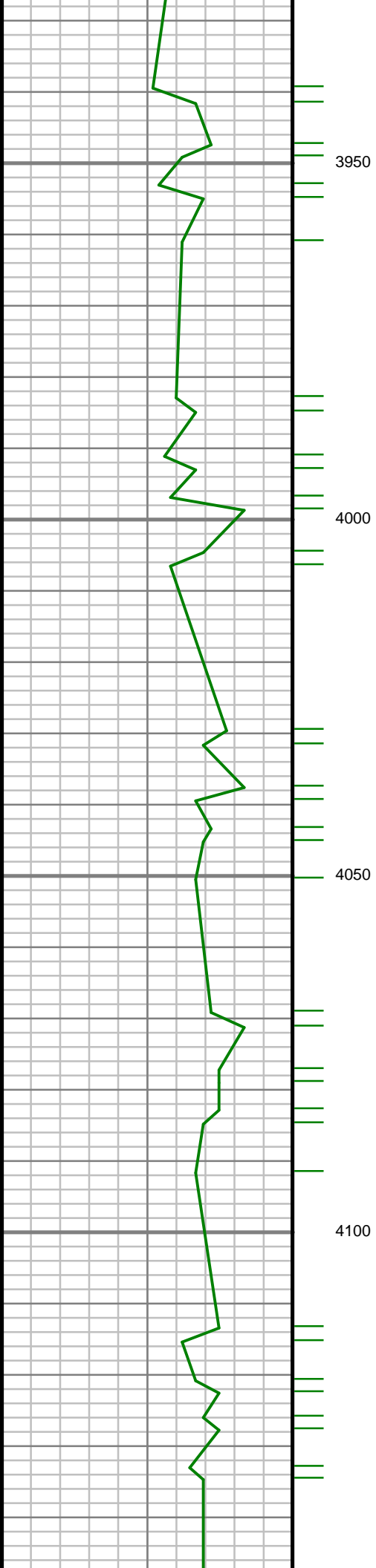
3750

3800

3850

3900

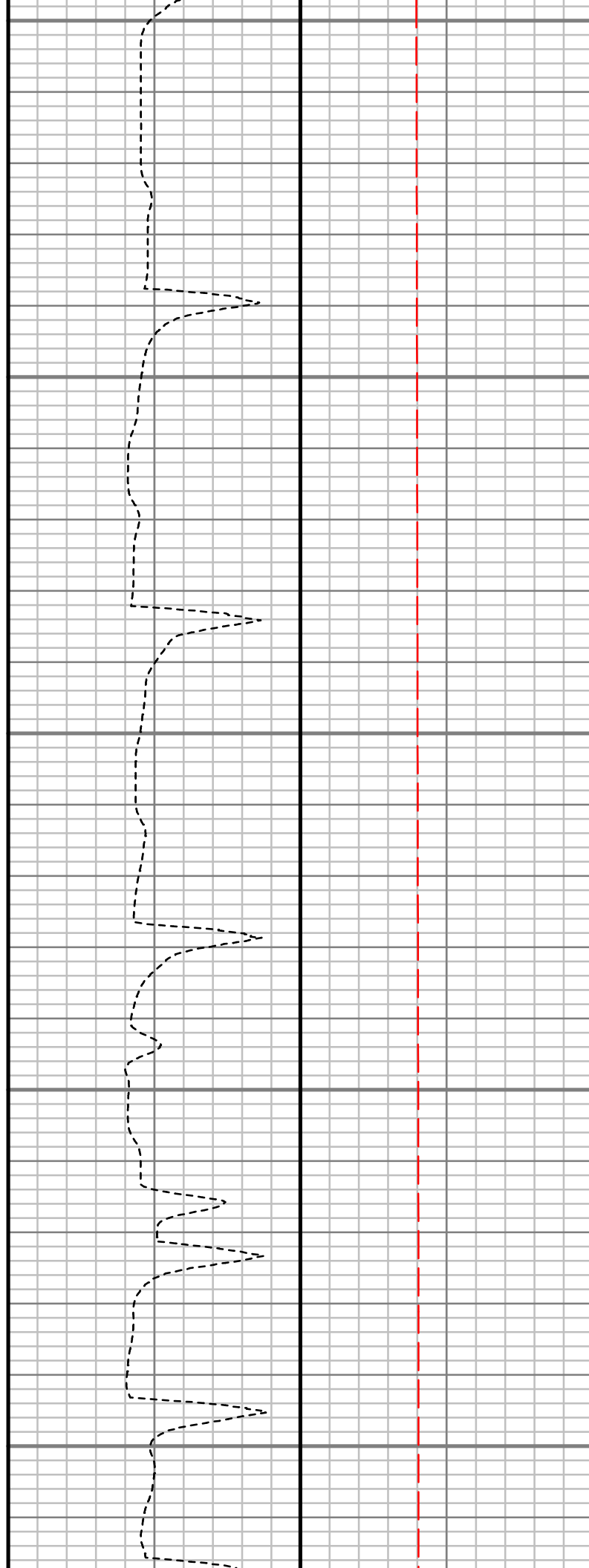
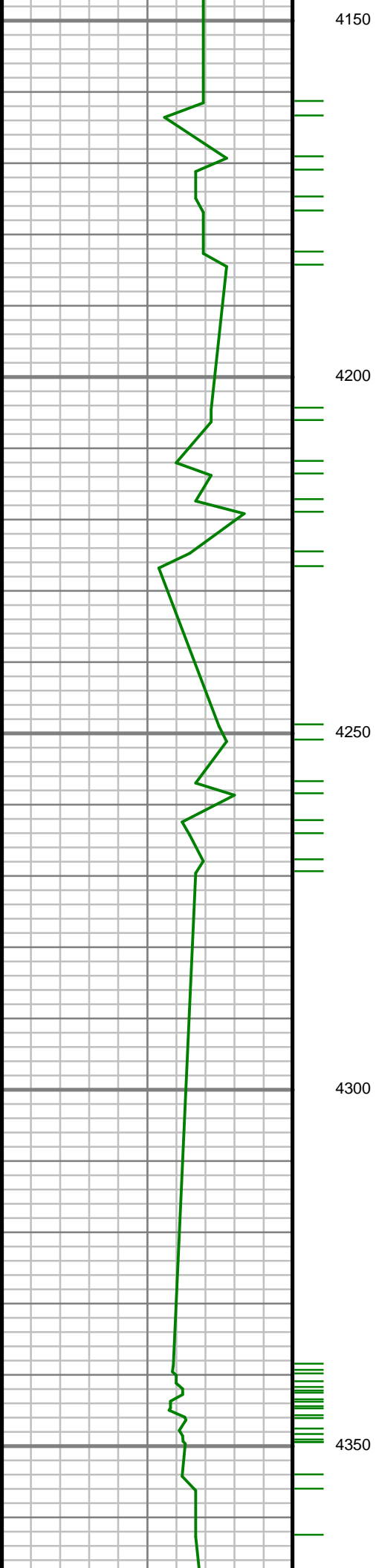
S: 76 MD: 3851.00 ft  
Inc: 1.39 deg Az:  
161.88 deg TVD:  
3785.90 ft



S: 77 MD: 3940.00 ft  
Inc: 1.11 deg Az:  
166.84 deg TVD:  
3874.88 ft

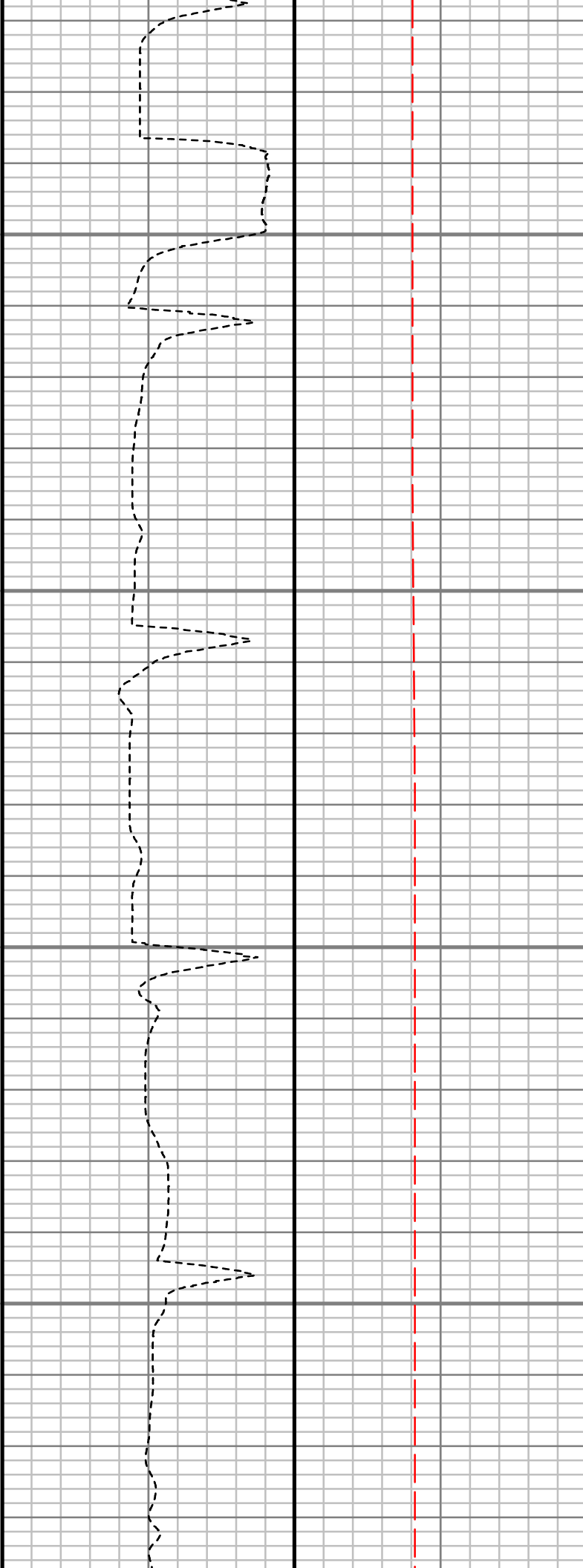
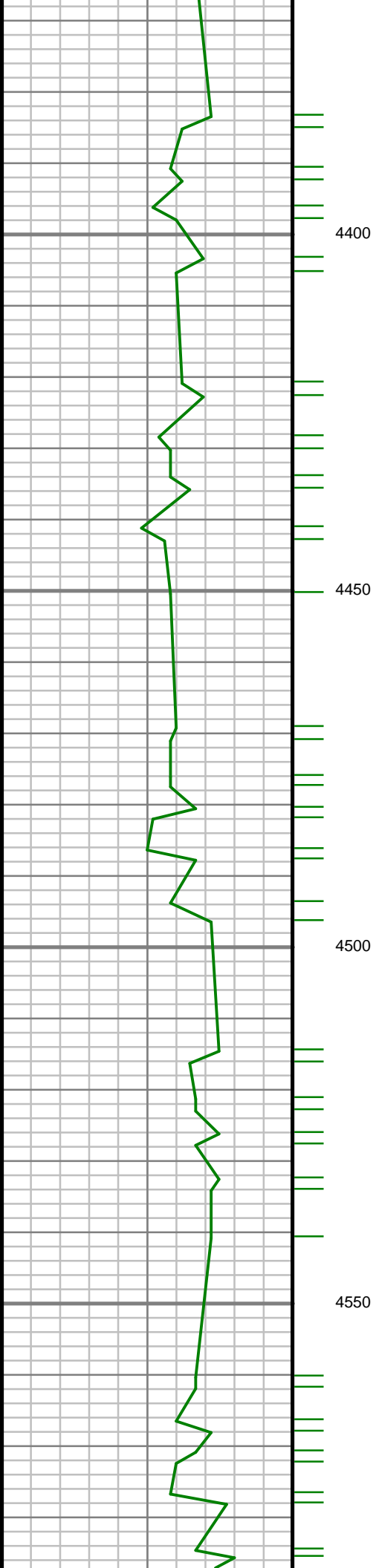
S: 78 MD: 4029.00 ft  
Inc: 1.10 deg Az:  
171.07 deg TVD:  
3963.87 ft

S: 79 MD: 4118.00 ft  
Inc: 1.07 deg Az:  
178.25 deg TVD:  
4052.85 ft



S: 80 MD: 4207.00 ft  
Inc: 1.05 deg Az:  
183.63 deg TVD:  
4141.83 ft

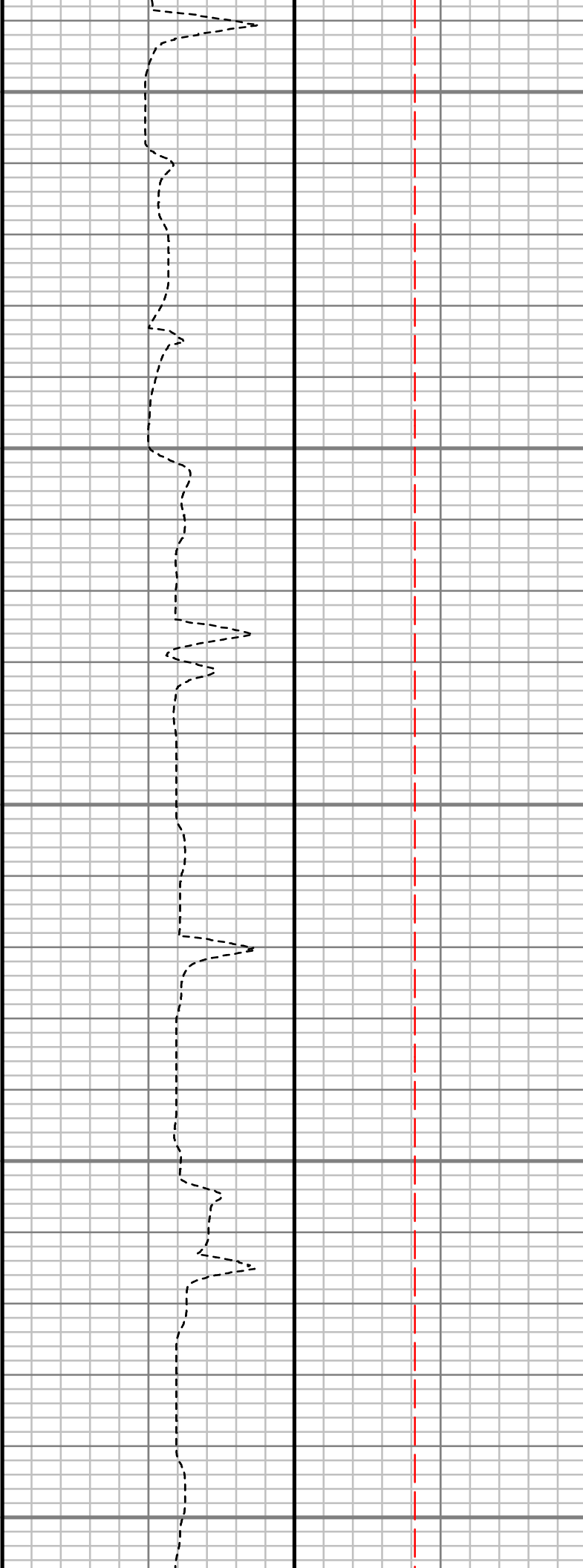
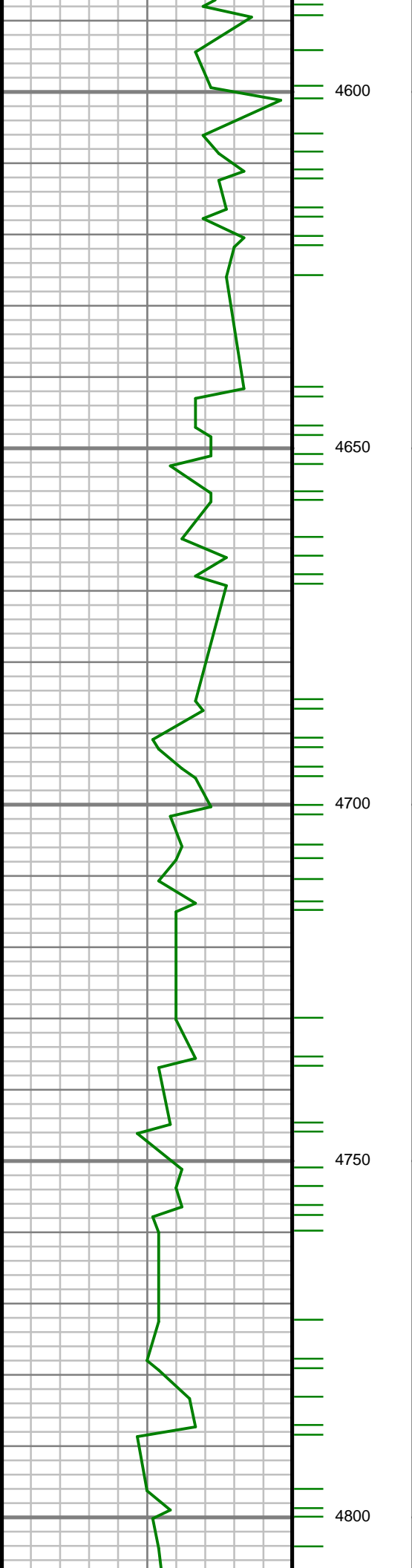
S: 81 MD: 4296.00 ft  
Inc: 0.96 deg Az:  
183.82 deg TVD:  
4230.82 ft



S: 82 MD: 4385.00 ft  
Inc: 0.72 deg Az:  
164.15 deg TVD:  
4319.81 ft

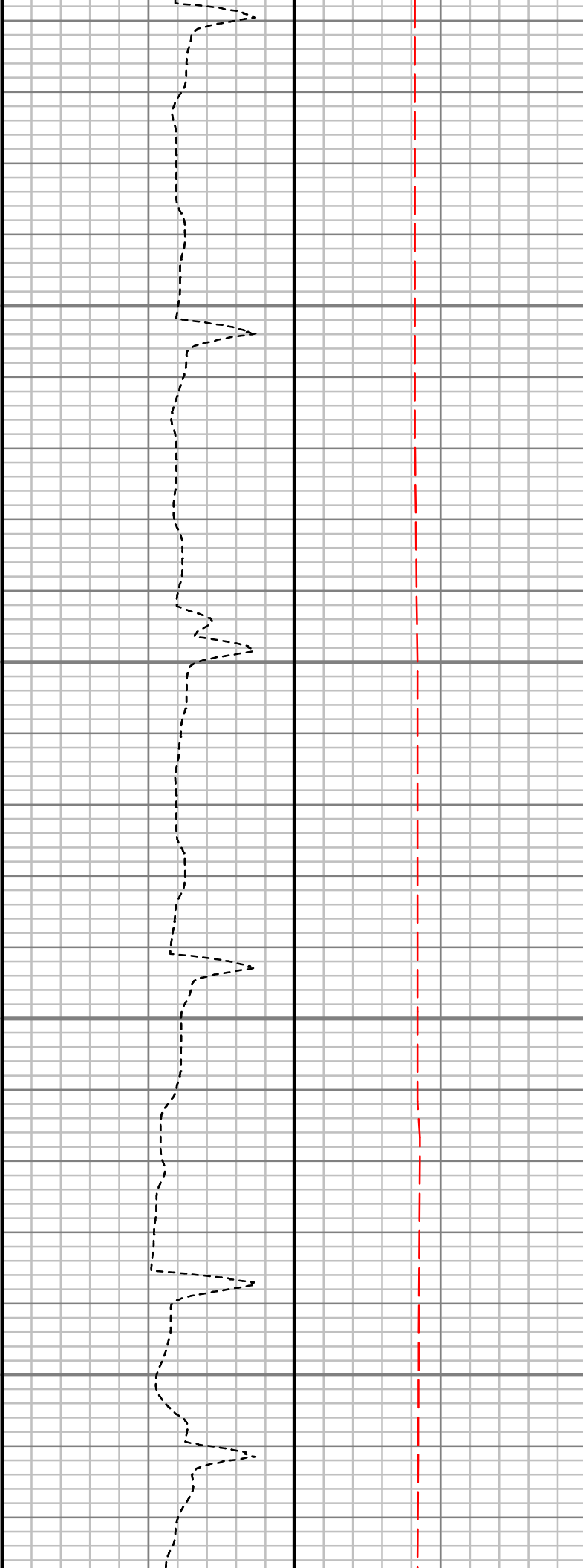
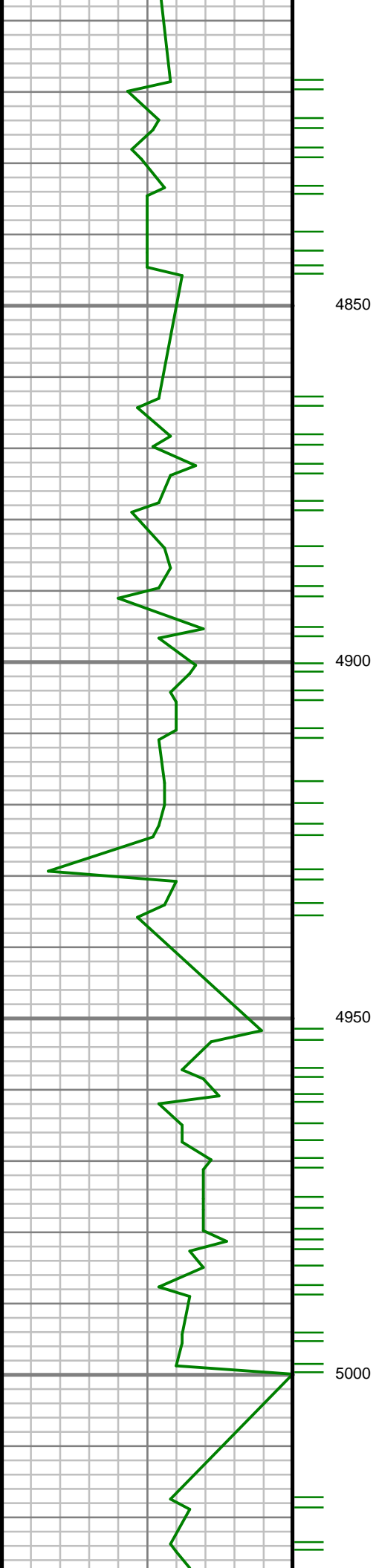
S: 83 MD: 4474.00 ft  
Inc: 0.90 deg Az:  
126.79 deg TVD:  
4408.80 ft

S: 84 MD: 4563.00 ft  
Inc: 0.47 deg Az:  
153.17 deg TVD:  
4497.80 ft



S: 85 MD: 4651.00 ft  
Inc: 0.09 deg Az: 111.62  
deg TVD: 4585.79 ft

S: 86 MD: 4740.00 ft  
Inc: 0.12 deg Az: 311.97  
deg TVD: 4674.79 ft

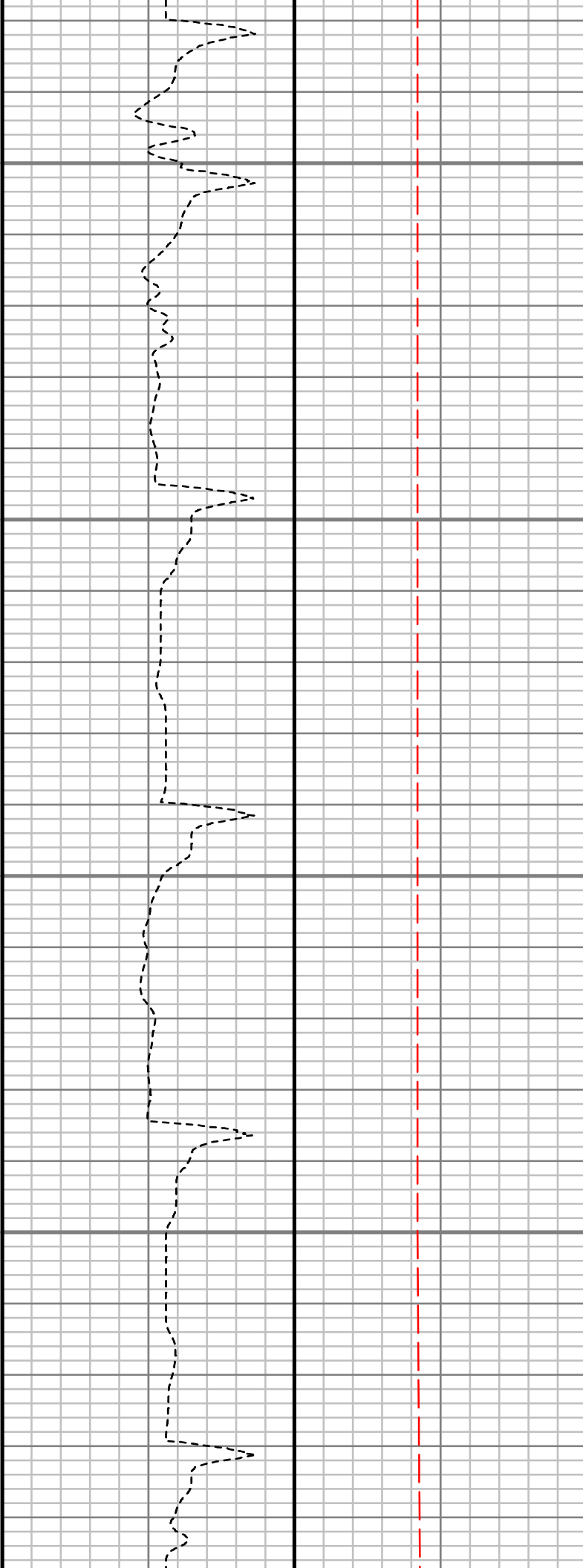
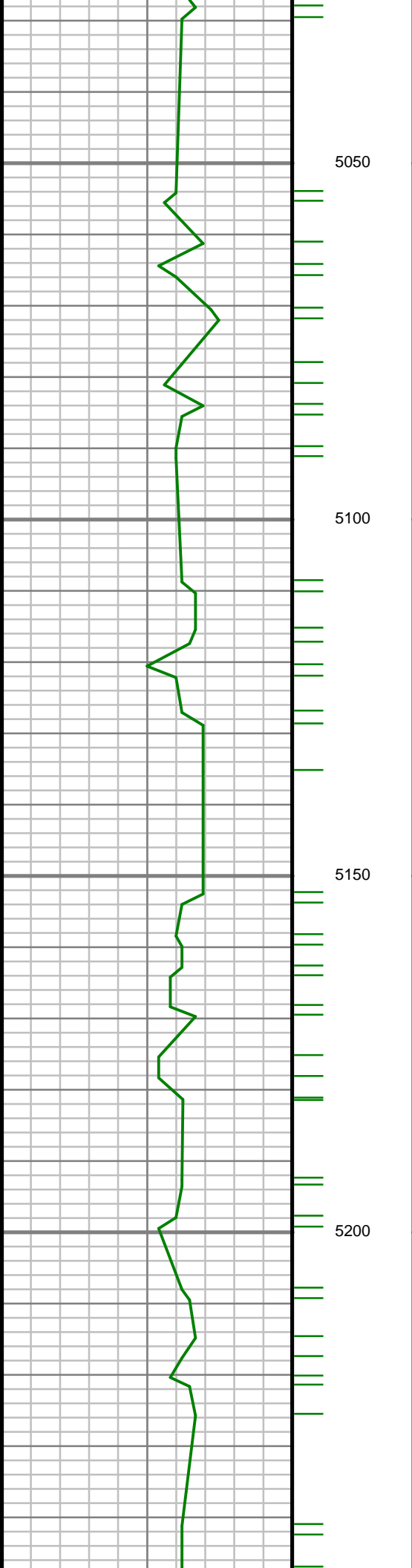


S: 87 MD: 4828.00 ft  
Inc: 0.33 deg Az:  
352.13 deg TVD:  
4762.79 ft

S: 88 MD: 4917.00 ft  
Inc: 0.47 deg Az:  
342.18 deg TVD:  
4851.79 ft

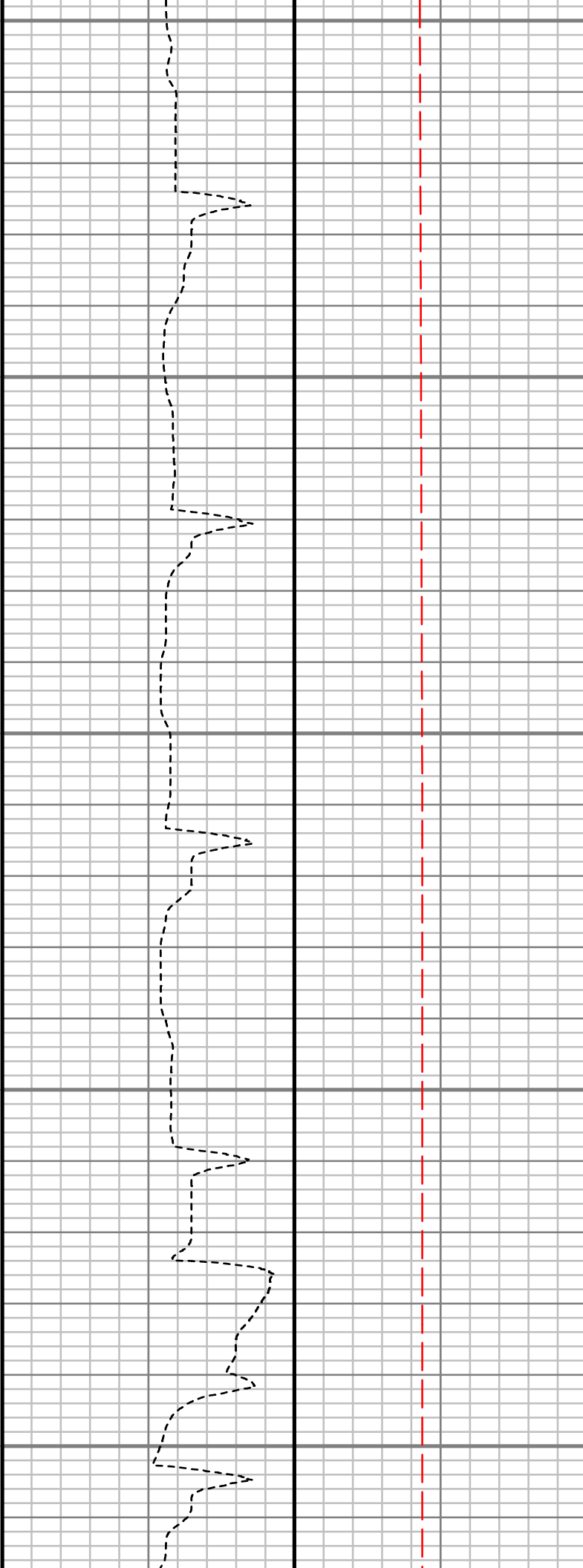
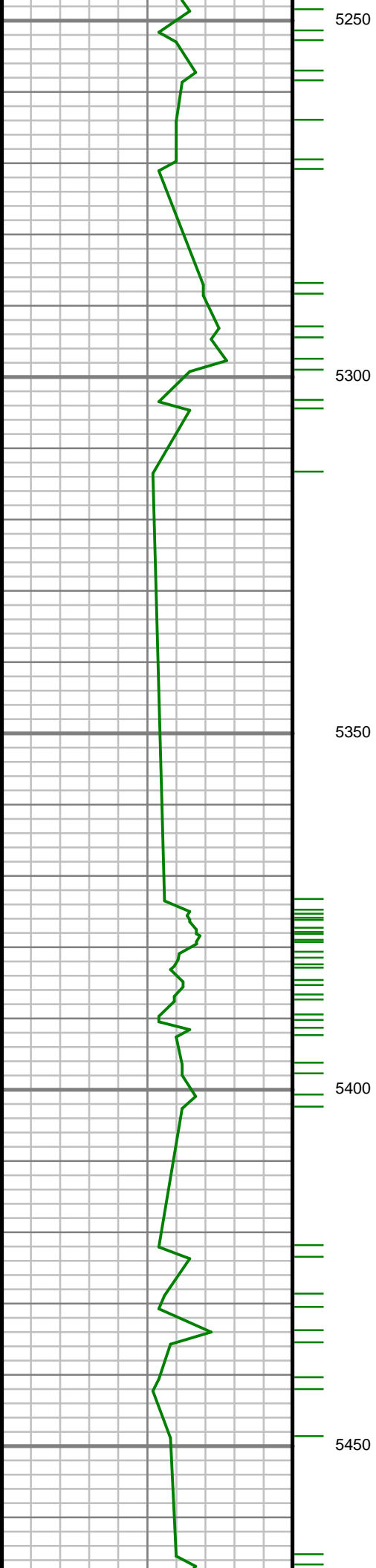
S: 89 MD: 4984.00 ft  
Inc: 0.66 deg Az:  
322.30 deg TVD:  
4918.79 ft





S: 90 MD: 5072.00 ft  
Inc: 0.76 deg Az:  
303.63 deg TVD:  
5006.78 ft

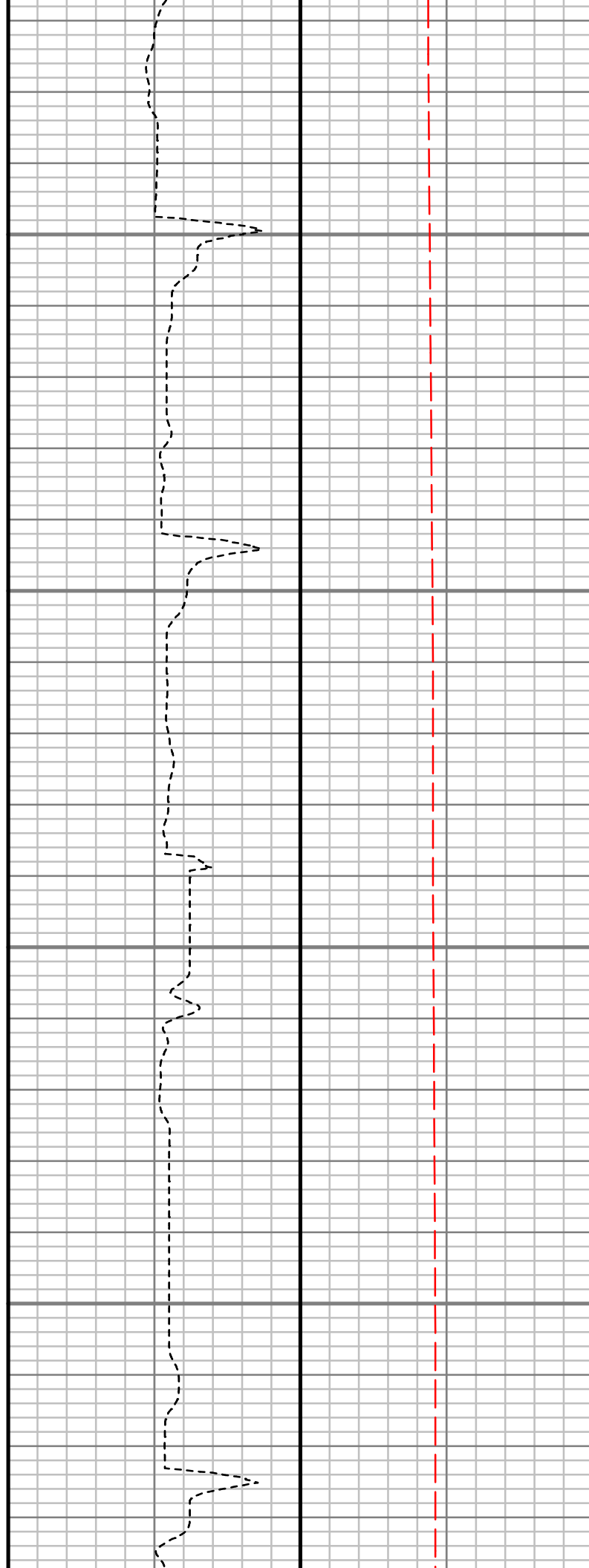
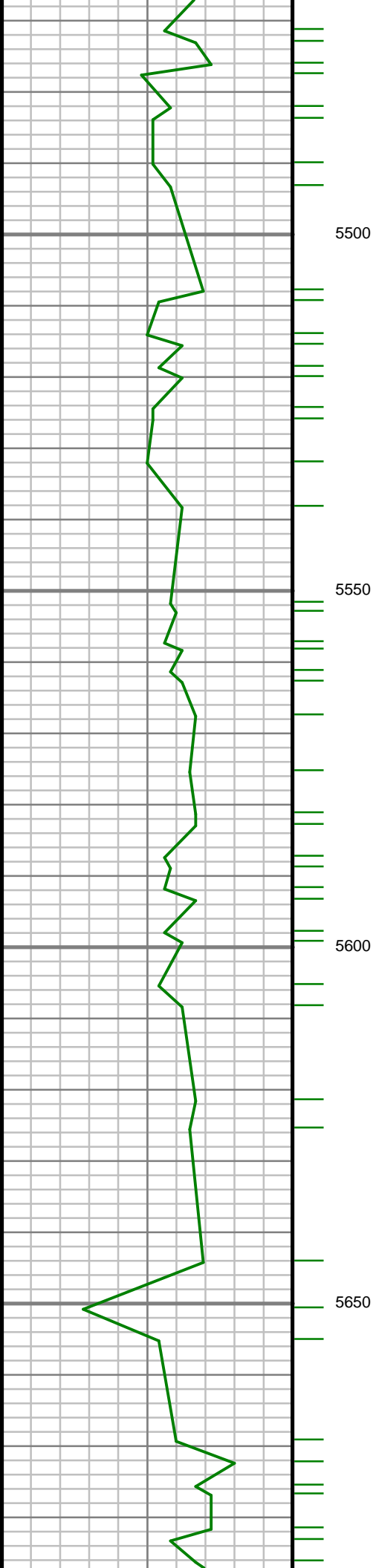
S: 91 MD: 5161.00 ft  
Inc: 0.95 deg Az:  
274.58 deg TVD:  
5095.77 ft



S: 92 MD: 5250.00 ft  
Inc: 1.03 deg Az: 272.58 deg TVD: 5184.76 ft

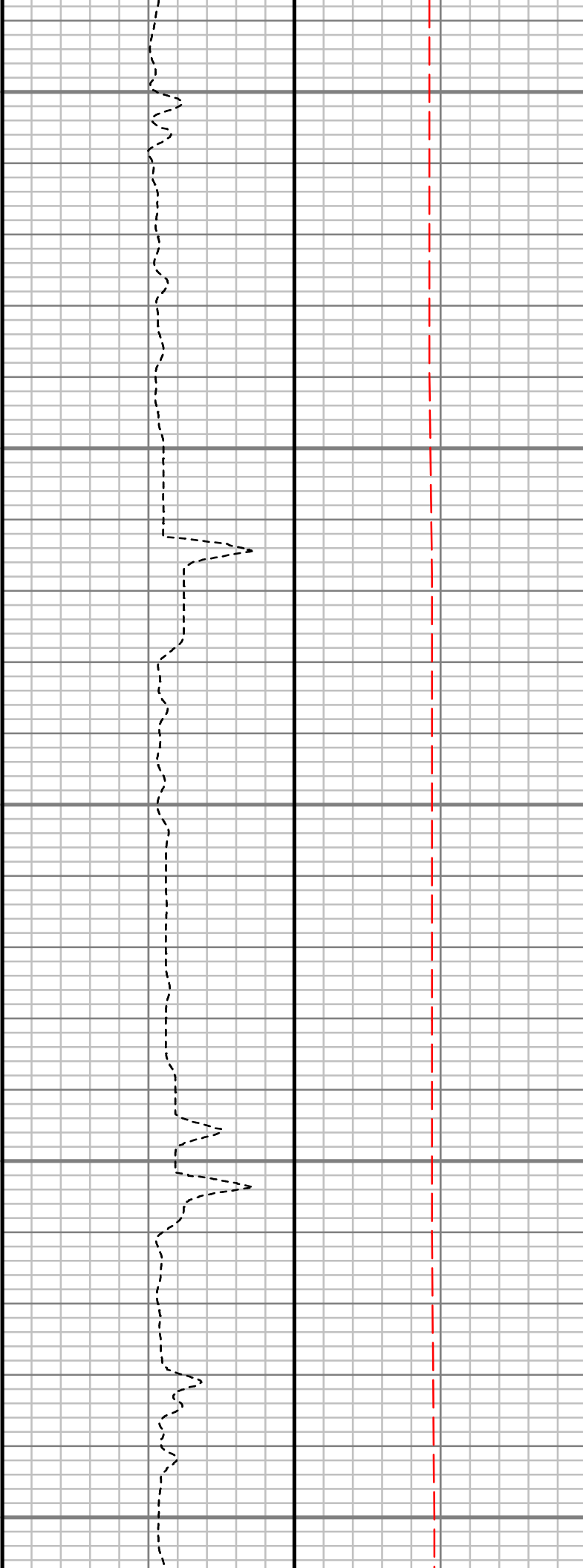
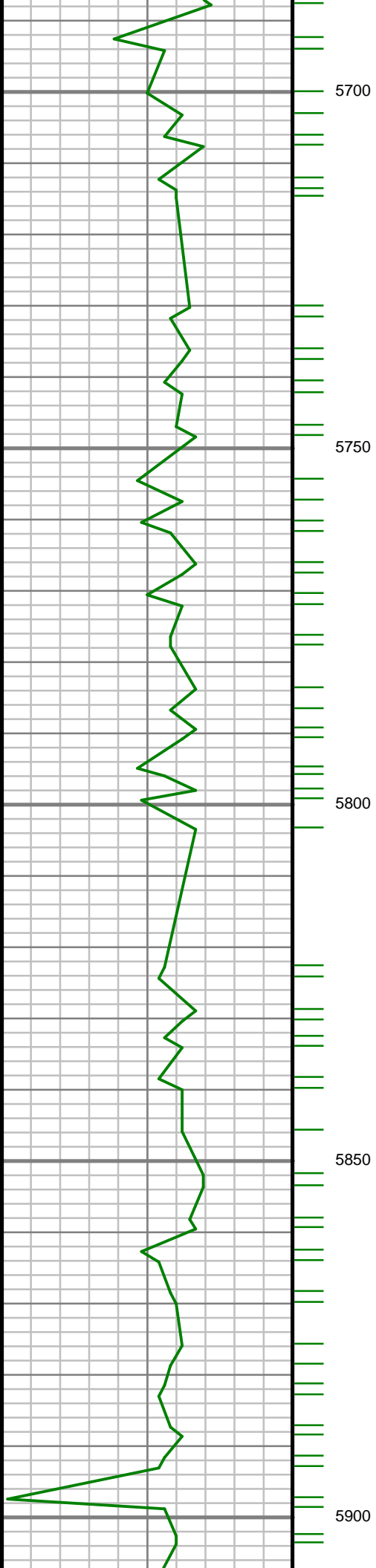
S: 93 MD: 5339.00 ft  
Inc: 1.29 deg Az: 280.20 deg TVD: 5273.74 ft

S: 94 MD: 5428.00 ft  
Inc: 0.48 deg Az: 277.50 deg TVD: 5362.73 ft



S: 95 MD: 5517.00 ft  
Inc: 0.60 deg Az: 69.62  
deg TVD: 5451.73 ft

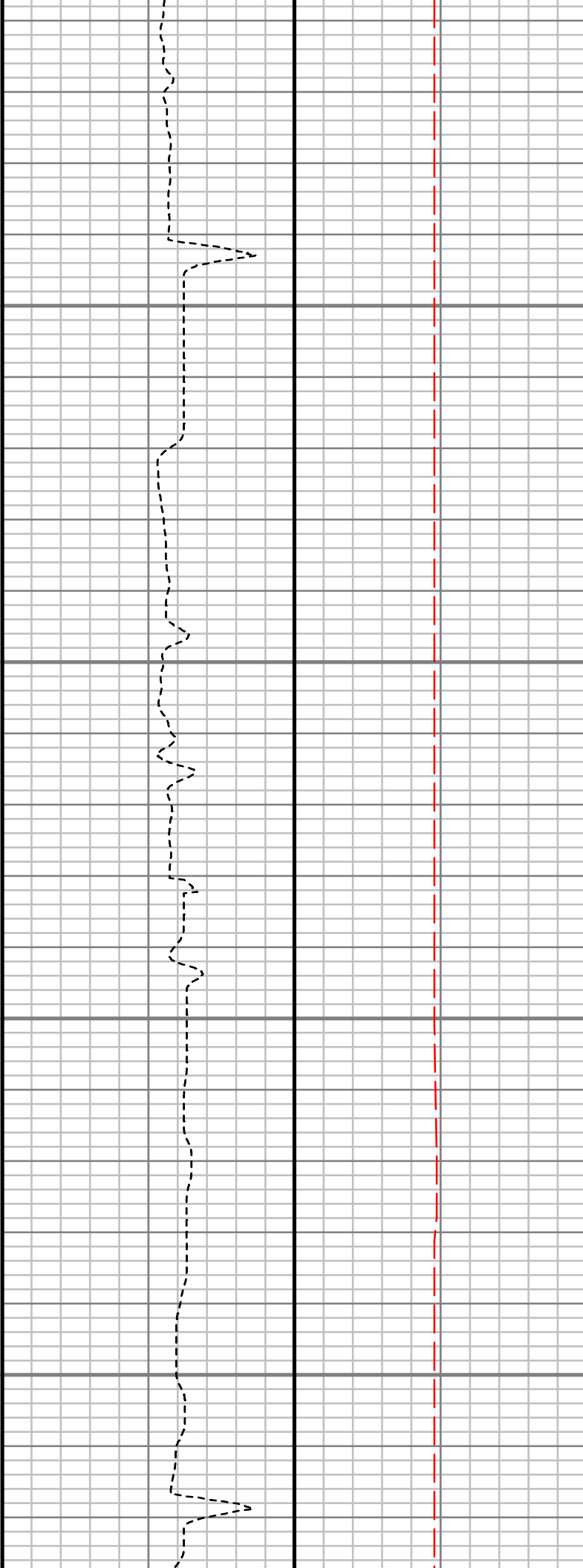
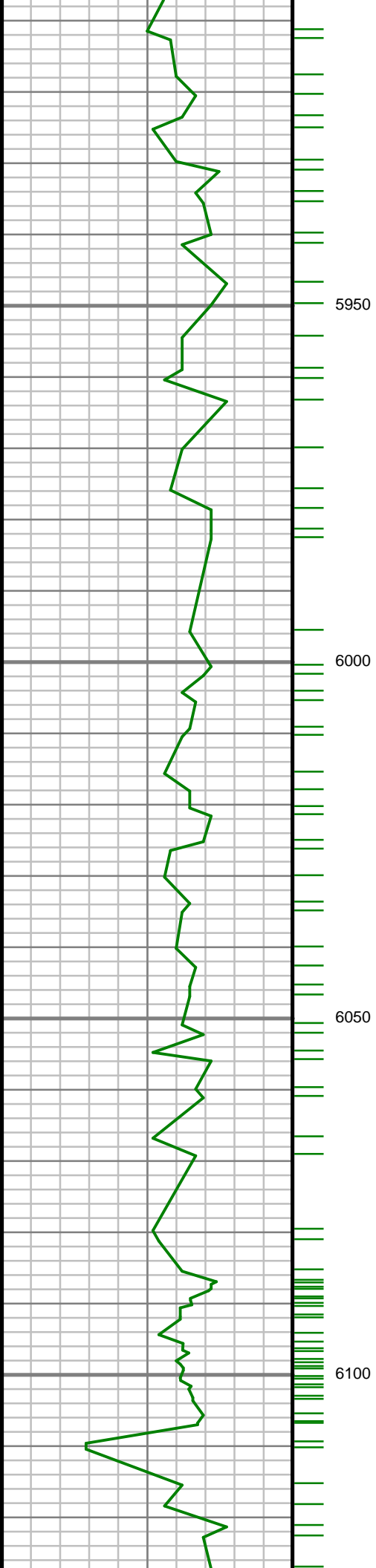
S: 96 MD: 5606.00 ft  
Inc: 0.36 deg Az: 30.39  
deg TVD: 5540.73 ft



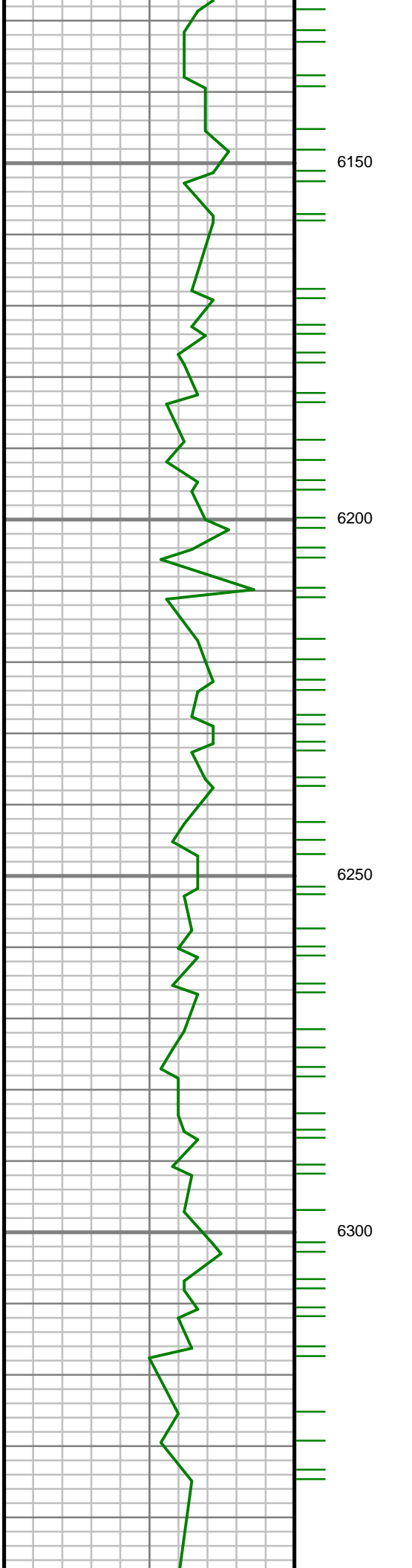
S: 97 MD: 5695.00 ft  
Inc: 0.26 deg Az:  
333.42 deg TVD:  
5629.72 ft

S: 98 MD: 5783.00 ft  
Inc: 0.60 deg Az:  
300.38 deg TVD:  
5717.72 ft

S: 99 MD: 5872.00 ft  
Inc: 0.82 deg Az:  
303.79 deg TVD:  
5806.71 ft



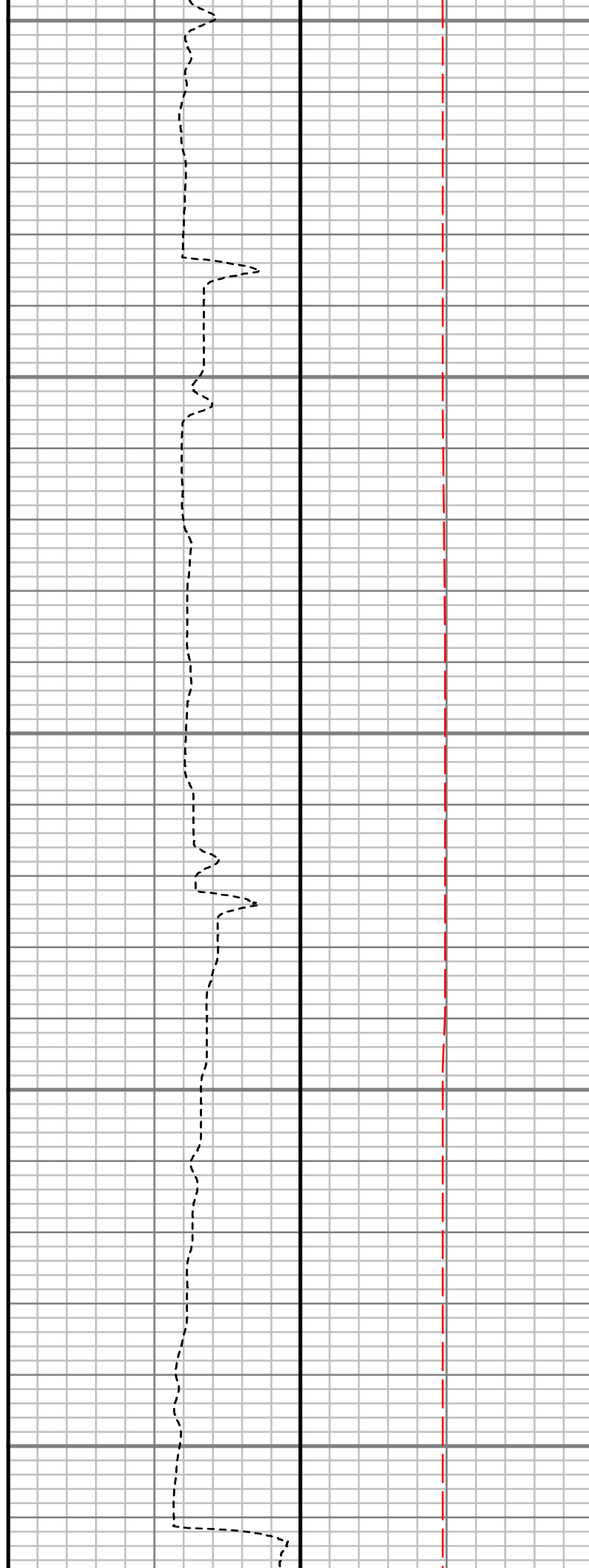
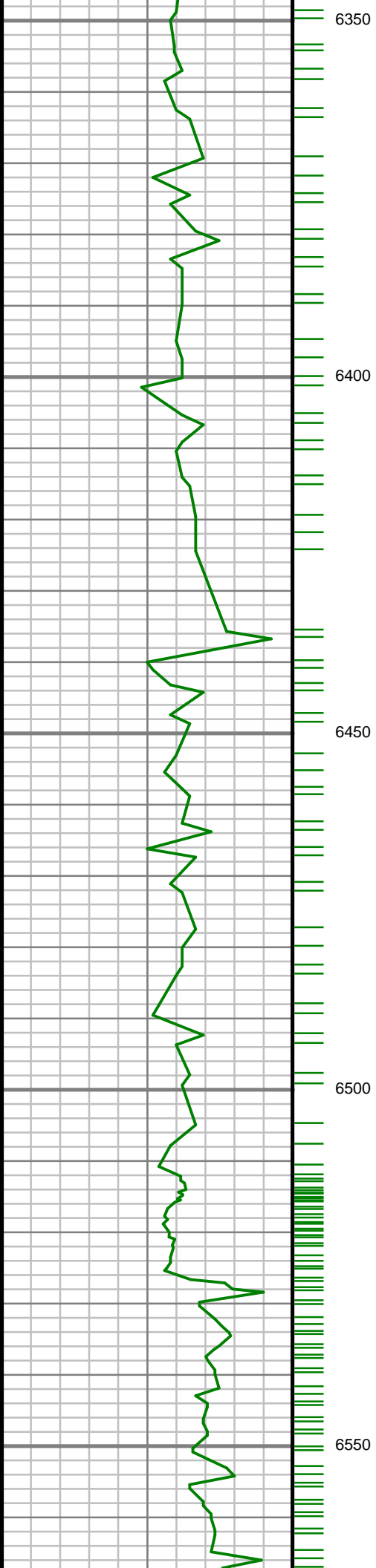
S: 100 MD: 6049.00 ft  
Inc: 1.14 deg Az:  
310.00 deg TVD:  
5983.69 ft



S: 101 MD: 6138.00 ft  
Inc: 0.55 deg Az: 330.31 deg TVD: 6072.68 ft

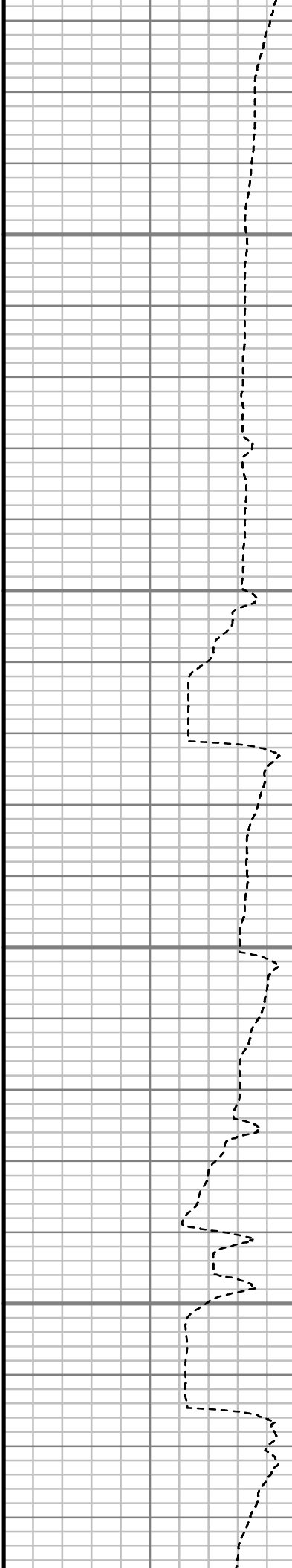
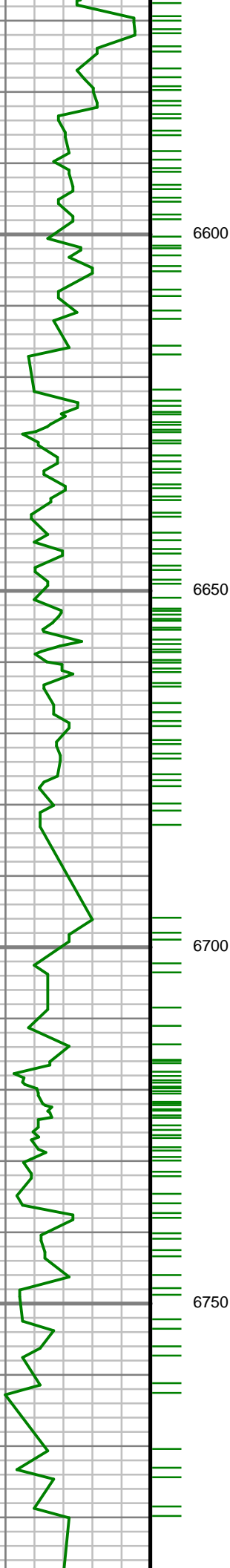
S: 102 MD: 6227.00 ft  
Inc: 0.29 deg Az: 88.29 deg TVD: 6161.68 ft

S: 103 MD: 6316.00 ft  
Inc: 0.60 deg Az: 9.80 deg TVD: 6250.68 ft



S: 104 MD: 6405.00 ft  
Inc: 0.94 deg Az:  
358.43 deg TVD:  
6339.67 ft

S: 105 MD: 6494.00 ft  
Inc: 0.97 deg Az:  
353.85 deg TVD:  
6428.65 ft

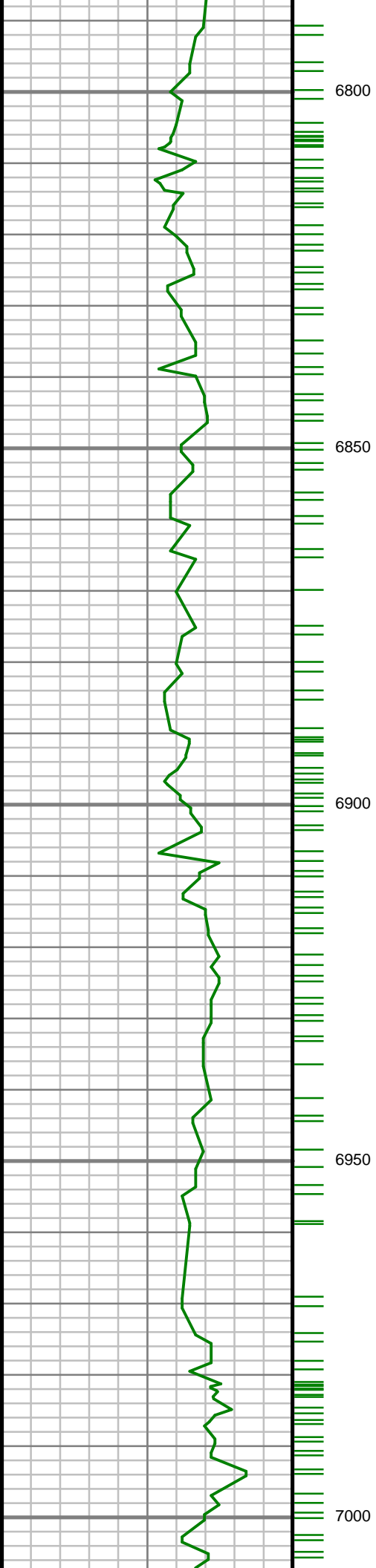


S: 106 MD: 6583.00 ft  
Inc: 3.18 deg Az: 4.26  
deg TVD: 6517.59 ft

S: 107 MD: 6672.00 ft  
Inc: 12.76 deg Az: 8.73  
deg TVD: 6605.63 ft

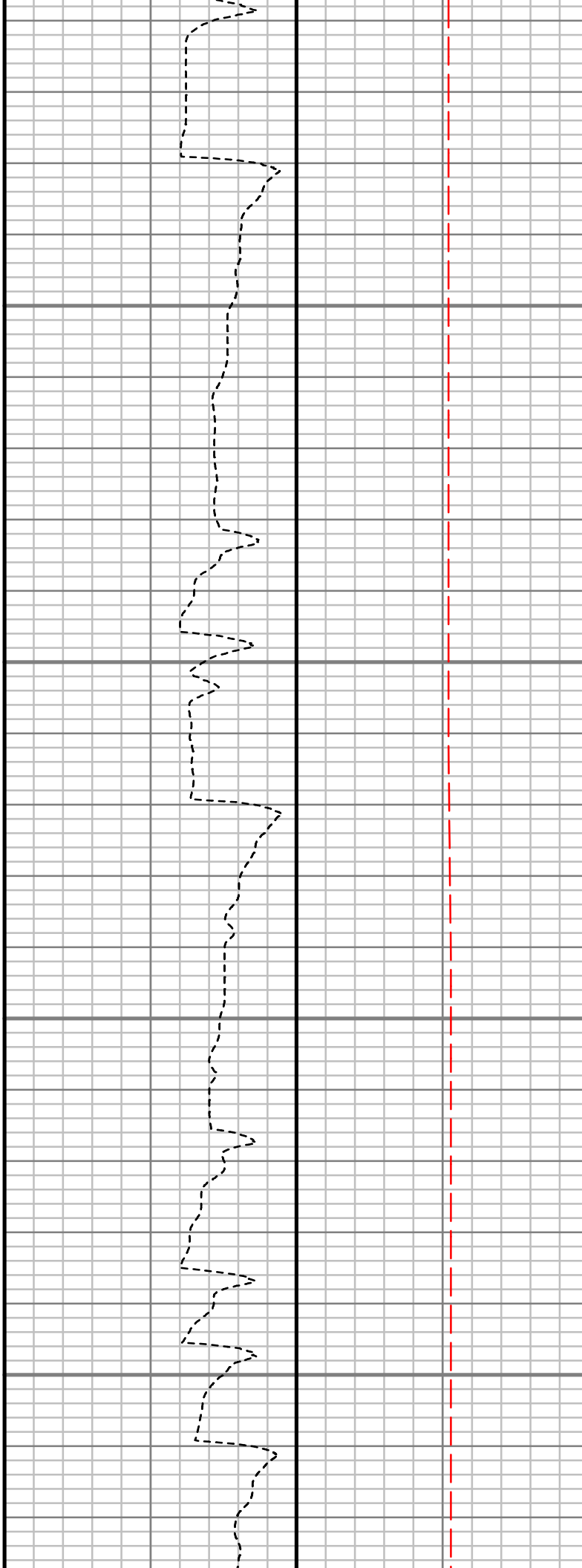
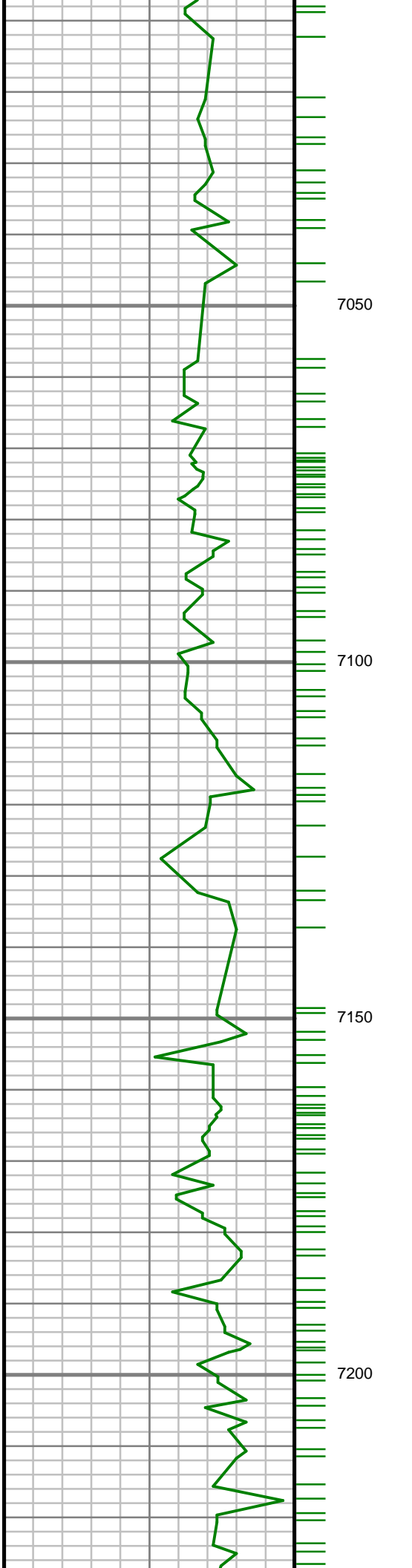
S: 108 MD: 6761.00 ft  
Inc: 18.71 deg Az: 3.24  
deg TVD: 6691.26 ft





S: 109 MD: 6850.00 ft  
Inc: 20.30 deg Az: 6.20  
deg TVD: 6775.15 ft

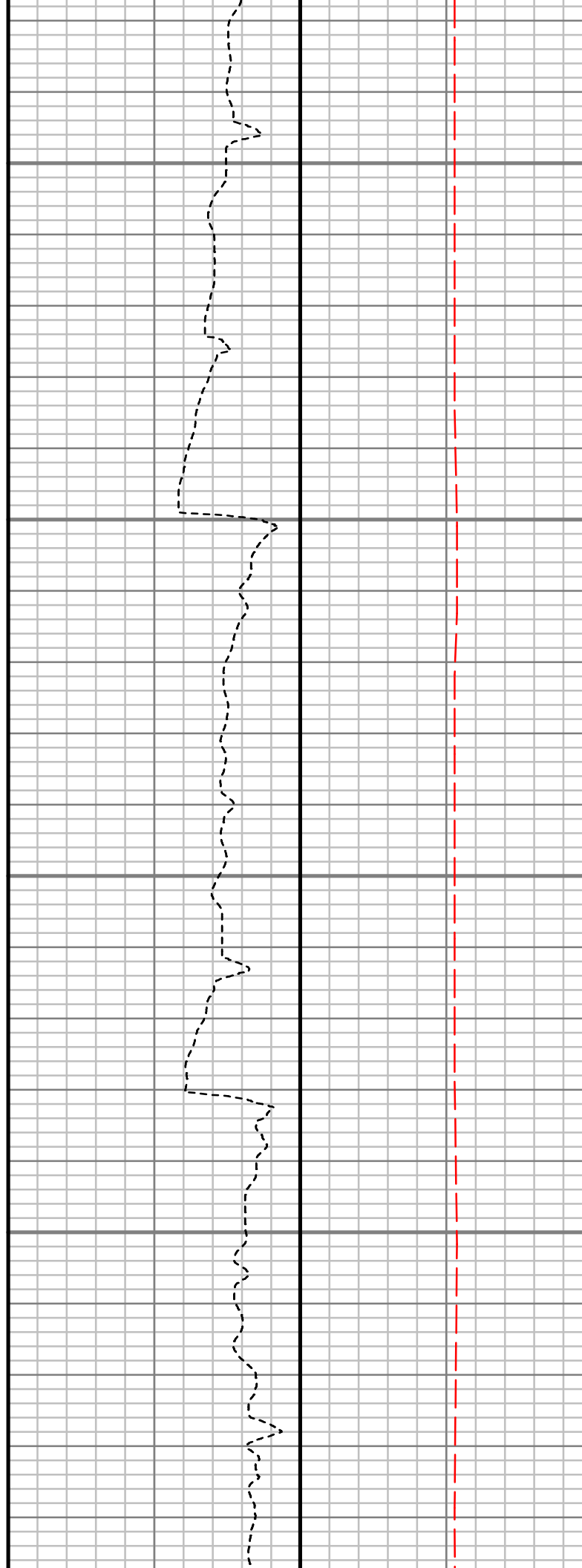
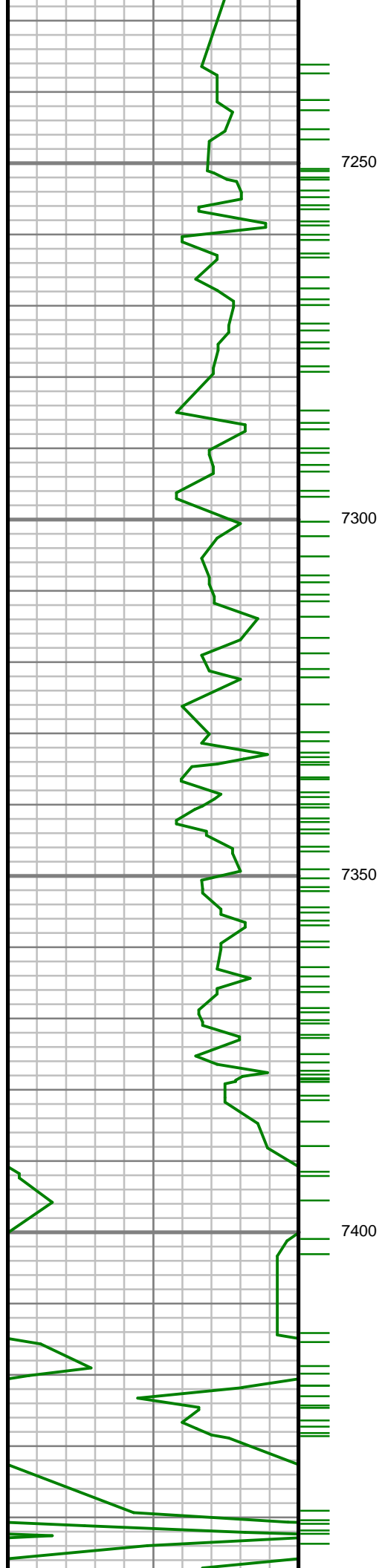
S: 110 MD: 6938.00 ft  
Inc: 25.21 deg Az: 3.01  
deg TVD: 6856.28 ft



S: 111 MD: 7027.00 ft  
Inc: 30.77 deg Az: 4.97  
deg TVD: 6934.84 ft

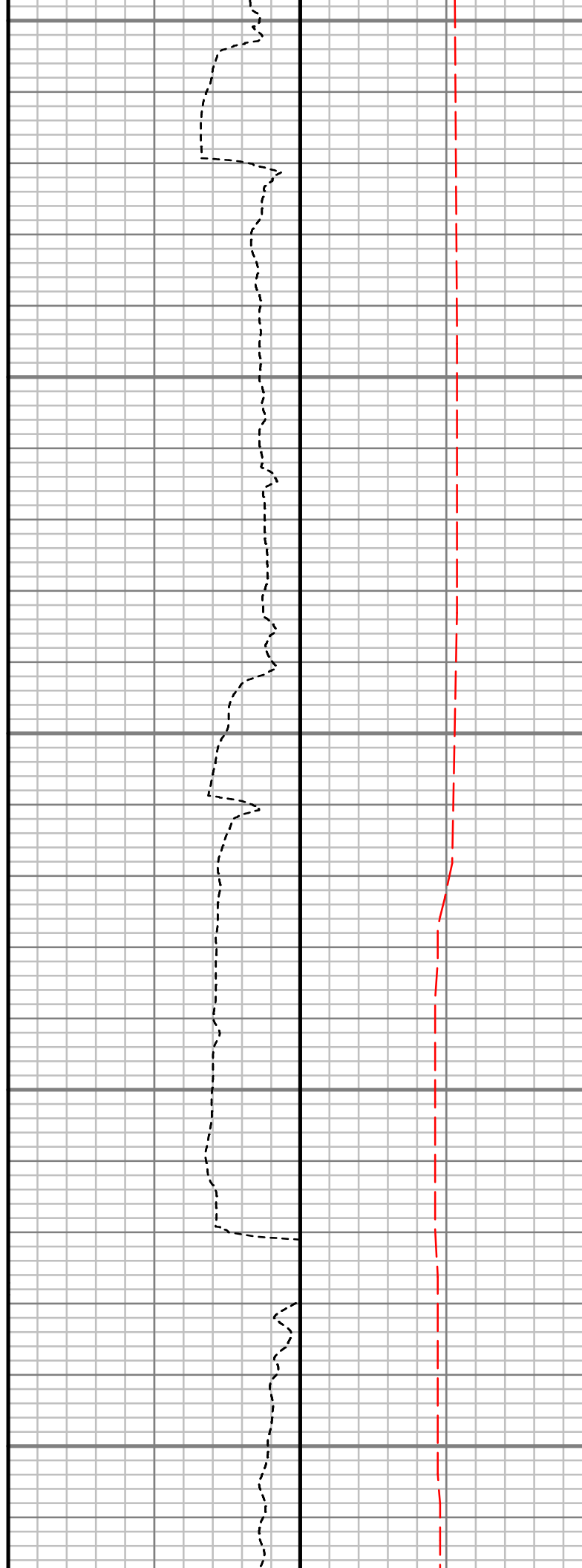
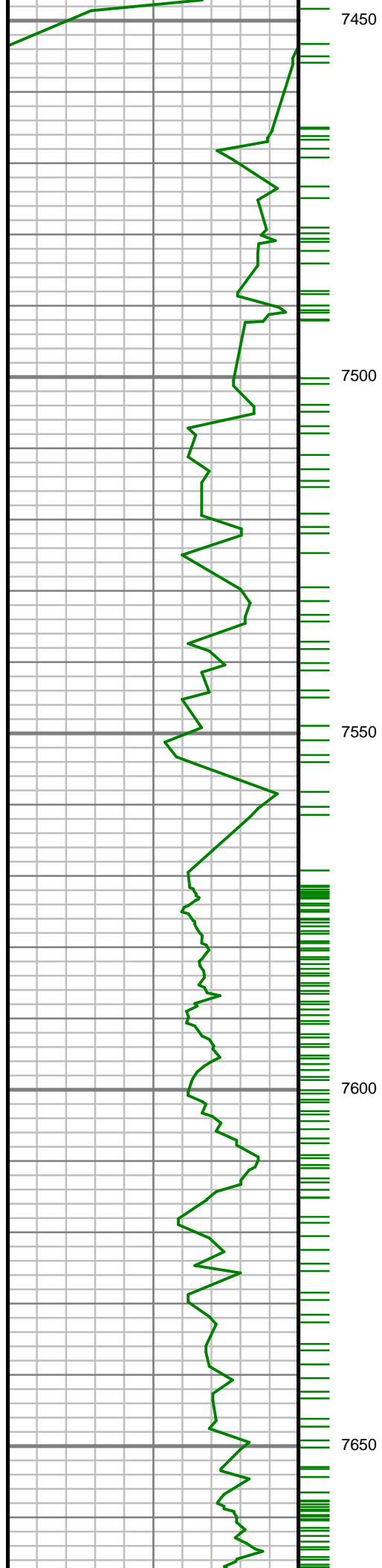
S: 112 MD: 7116.00 ft  
Inc: 37.49 deg Az: 6.97  
deg TVD: 7008.47 ft

S: 113 MD: 7205.00 ft  
Inc: 41.37 deg Az: 5.88  
deg TVD: 7077.20 ft



S: 114 MD: 7293.00 ft  
Inc: 45.01 deg Az: 1.64  
deg TVD: 7141.37 ft

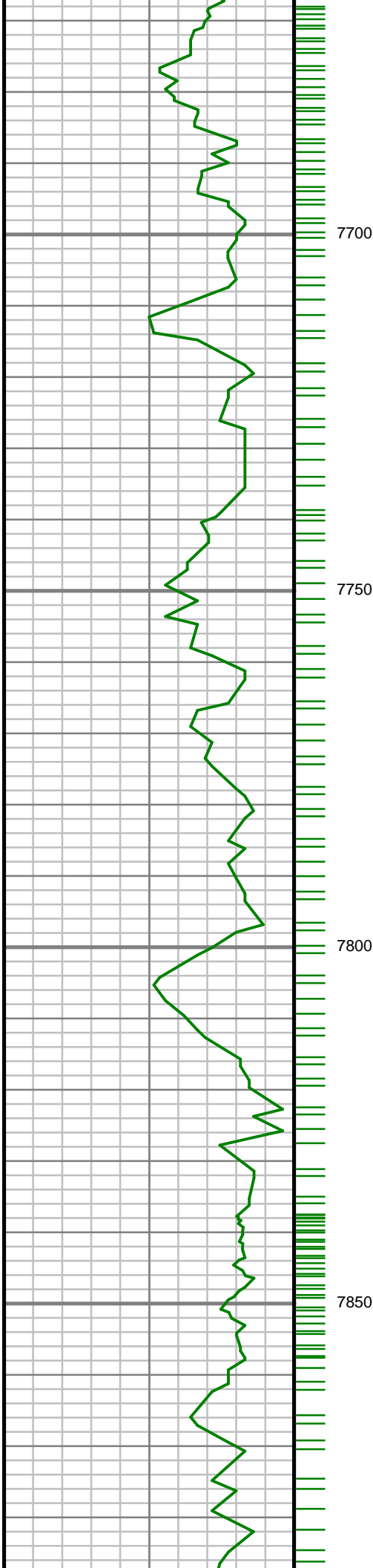
S: 115 MD: 7382.00 ft  
Inc: 51.63 deg Az:  
357.89 deg TVD:  
7200.53 ft



S: 116 MD: 7471.00 ft  
Inc: 62.84 deg Az:  
354.21 deg TVD:  
7248.63 ft

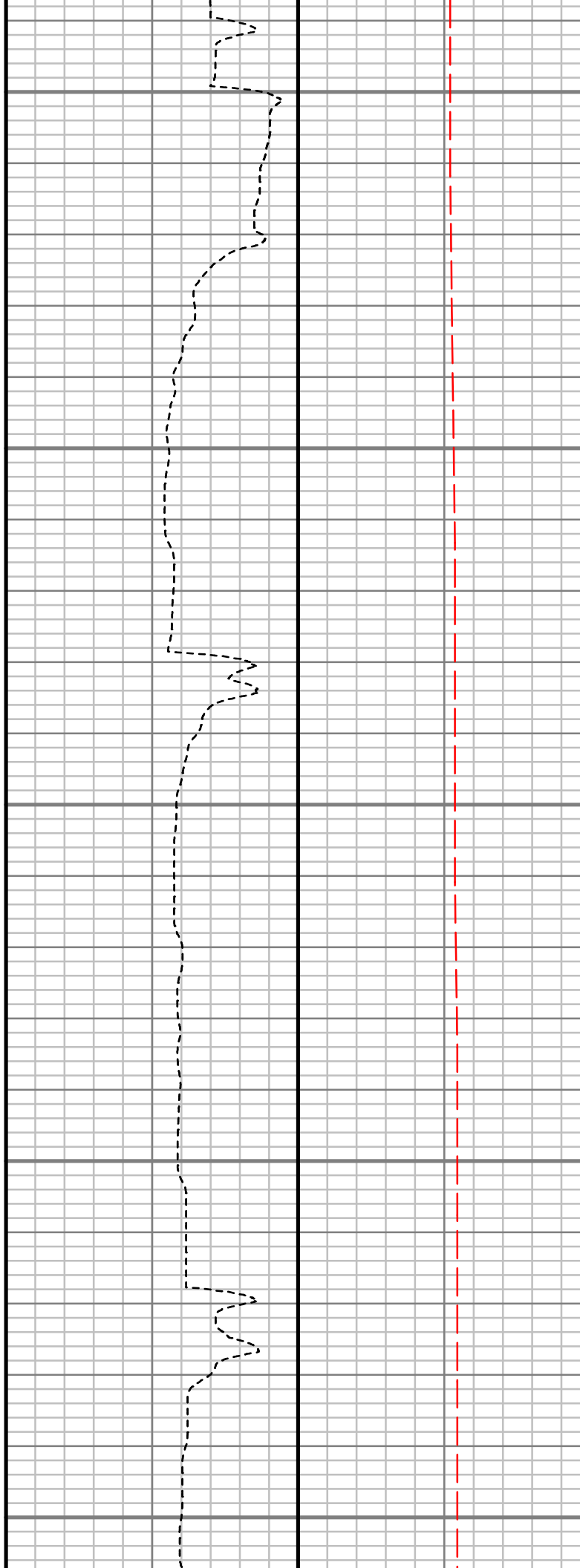
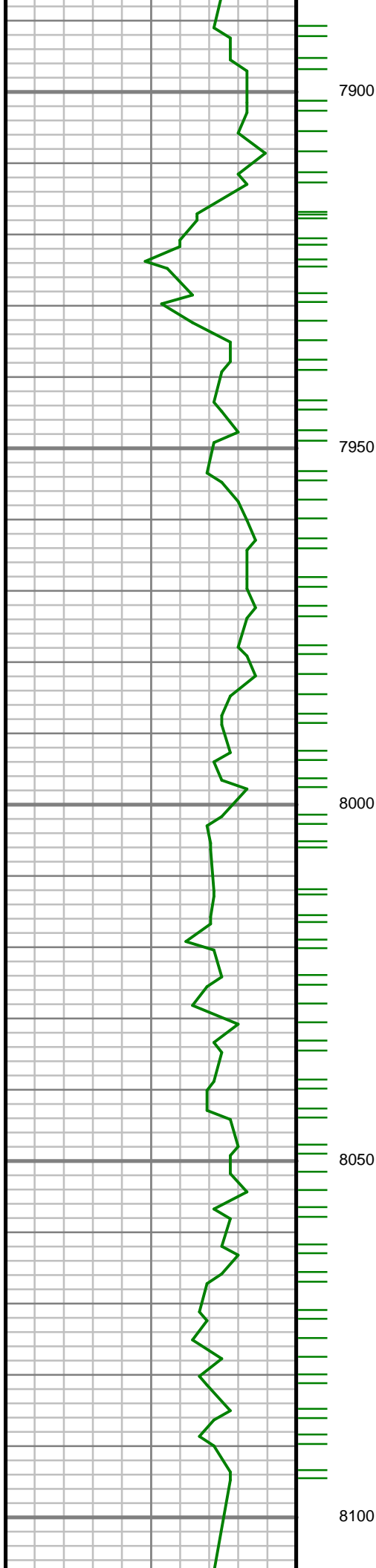
S: 117 MD: 7563.00 ft  
Inc: 76.96 deg Az:  
351.15 deg TVD:  
7280.17 ft

S: 118 MD: 7652.00 ft  
Inc: 80.14 deg Az:  
354.70 deg TVD:  
7297.84 ft



S: 119 MD: 7741.00 ft  
Inc: 82.83 deg Az: 1.57  
deg TVD: 7311.04 ft

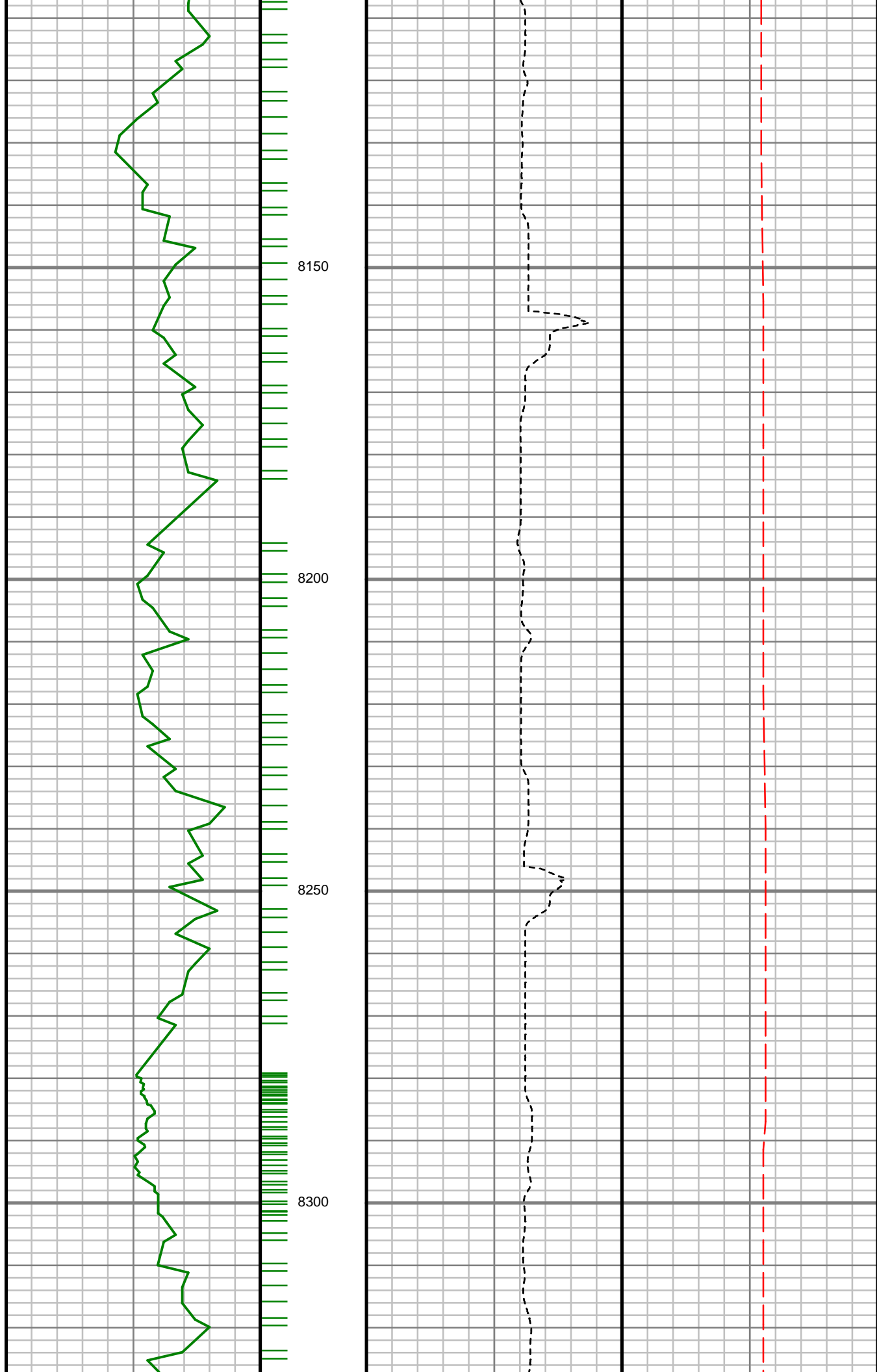
S: 120 MD: 7830.00 ft  
Inc: 84.58 deg Az: 5.07  
deg TVD: 7320.80 ft



S: 121 MD: 7918.00 ft  
Inc: 85.19 deg Az: 1.85  
deg TVD: 7328.64 ft

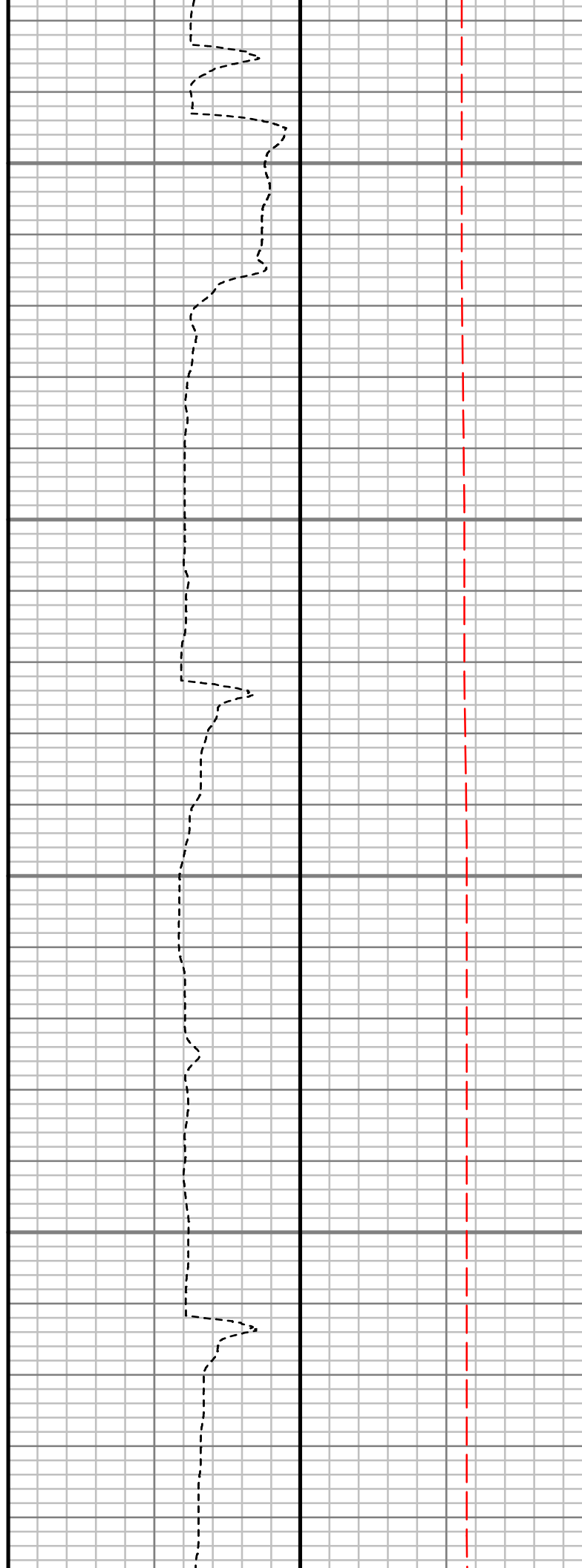
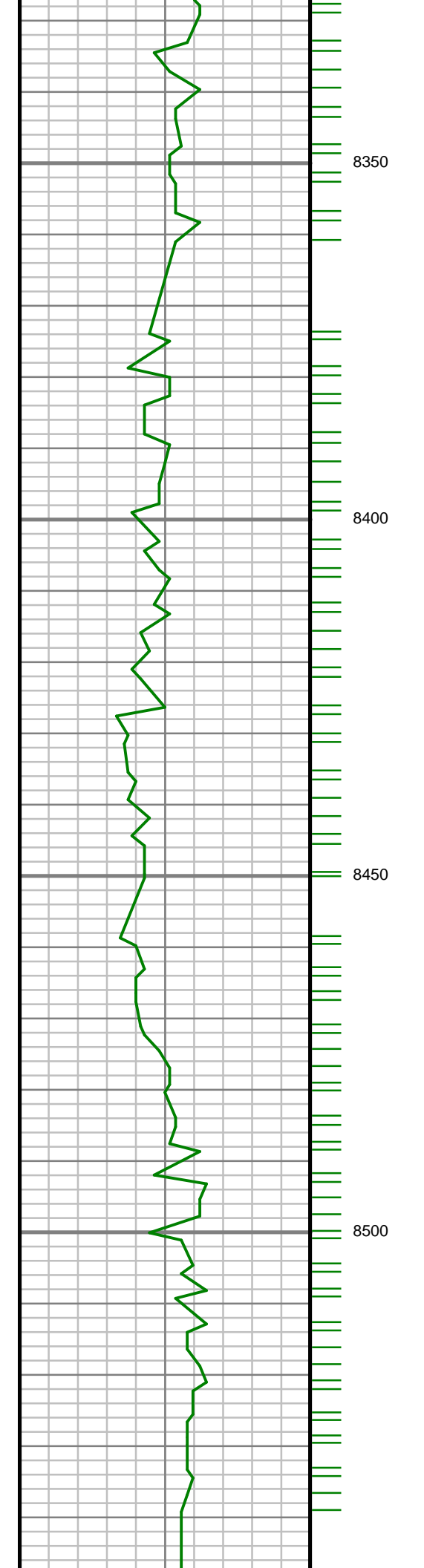
S: 122 MD: 8007.00 ft  
Inc: 85.23 deg Az: 0.63  
deg TVD: 7336.08 ft

S: 123 MD: 8096.00 ft  
Inc: 85.36 deg Az: 0.15  
deg TVD: 7343.38 ft



S: 124 MD: 8185.00 ft  
Inc: 85.36 deg Az: 0.13  
deg TVD: 7350.58 ft

S: 125 MD: 8274.00 ft  
Inc: 85.50 deg Az:  
358.95 deg TVD:  
7357.67 ft

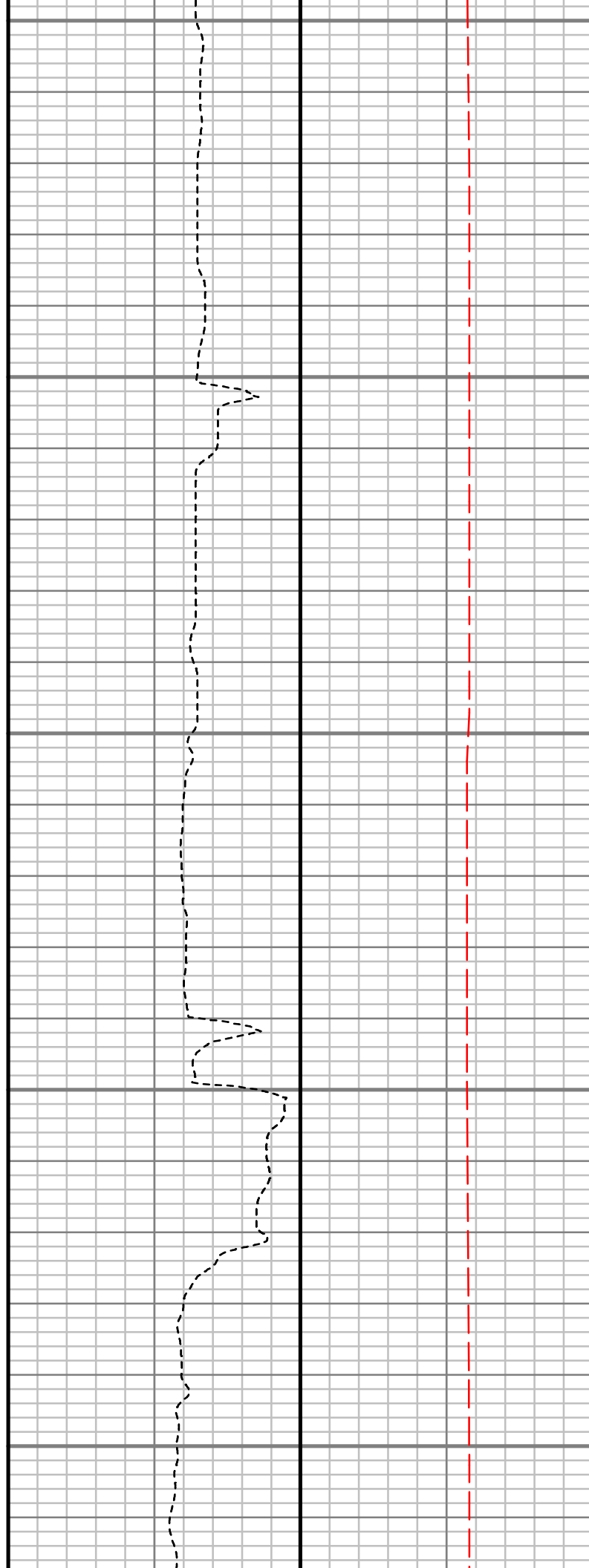
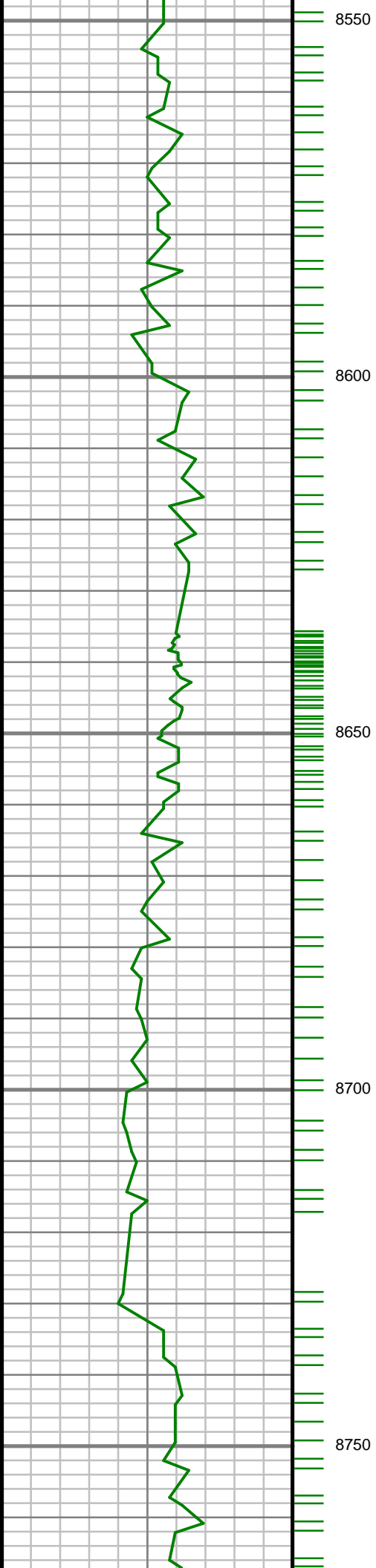


S: 126 MD: 8363.00 ft  
Inc: 87.85 deg Az: 0.99  
deg TVD: 7362.83 ft

S: 127 MD: 8452.00 ft  
Inc: 89.03 deg Az: 1.50  
deg TVD: 7365.25 ft

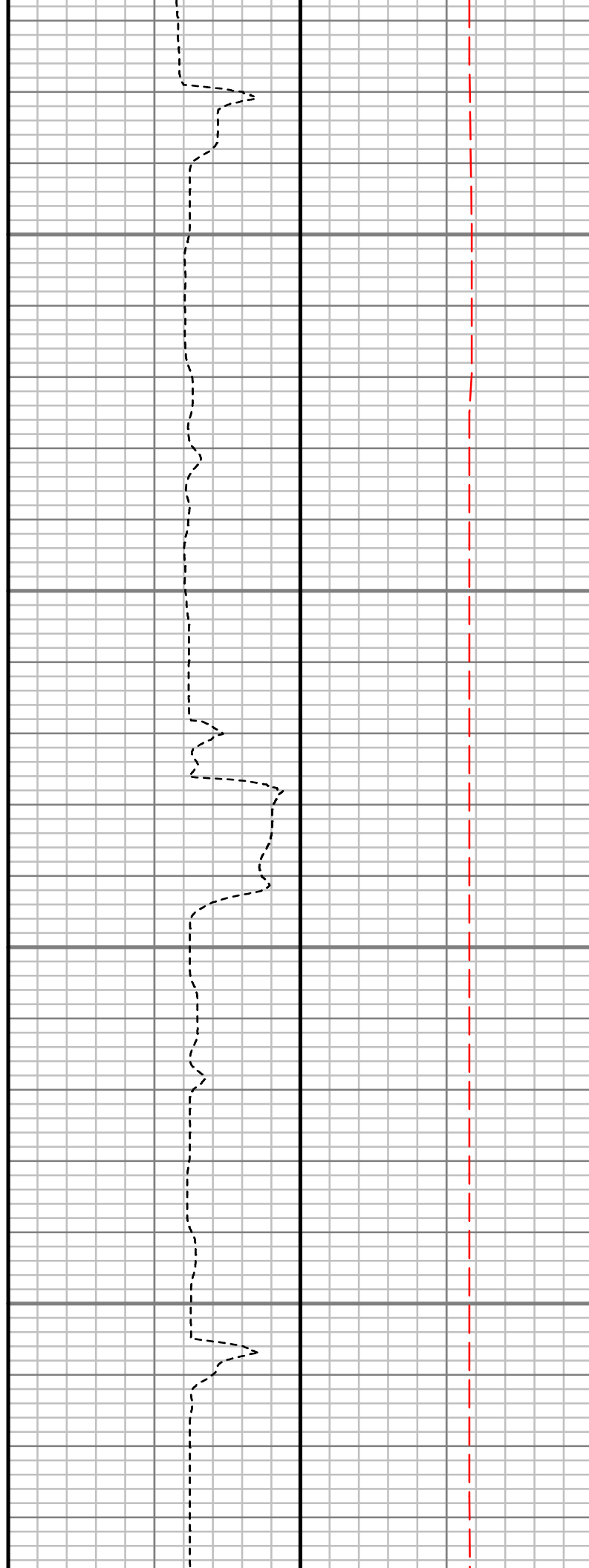
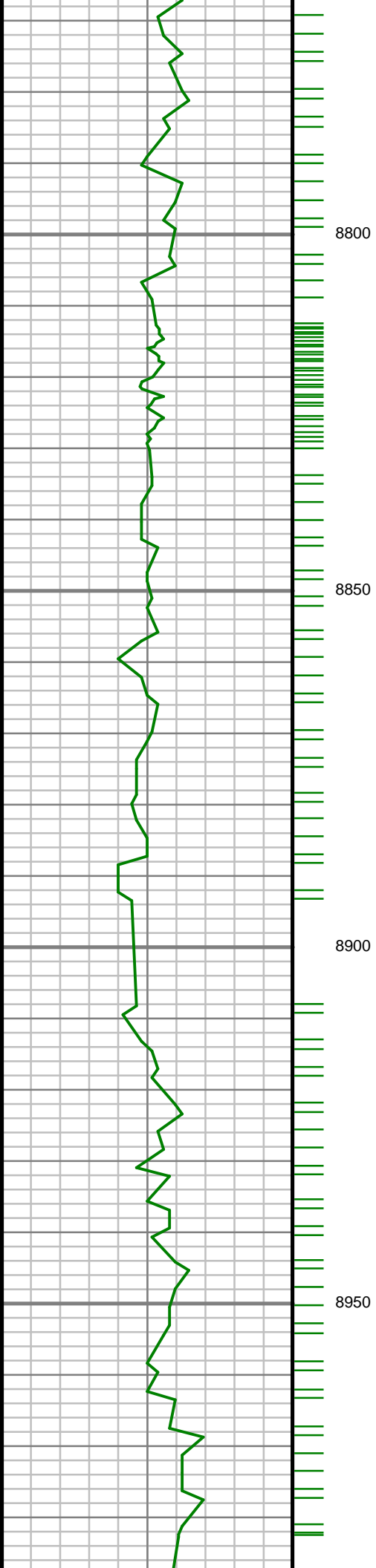
S: 128 MD: 8540.00 ft  
Inc: 89.33 deg Az: 0.92  
deg TVD: 7366.51 ft





S: 129 MD: 8629.00 ft  
Inc: 90.84 deg Az:  
359.99 deg TVD:  
7366.38 ft

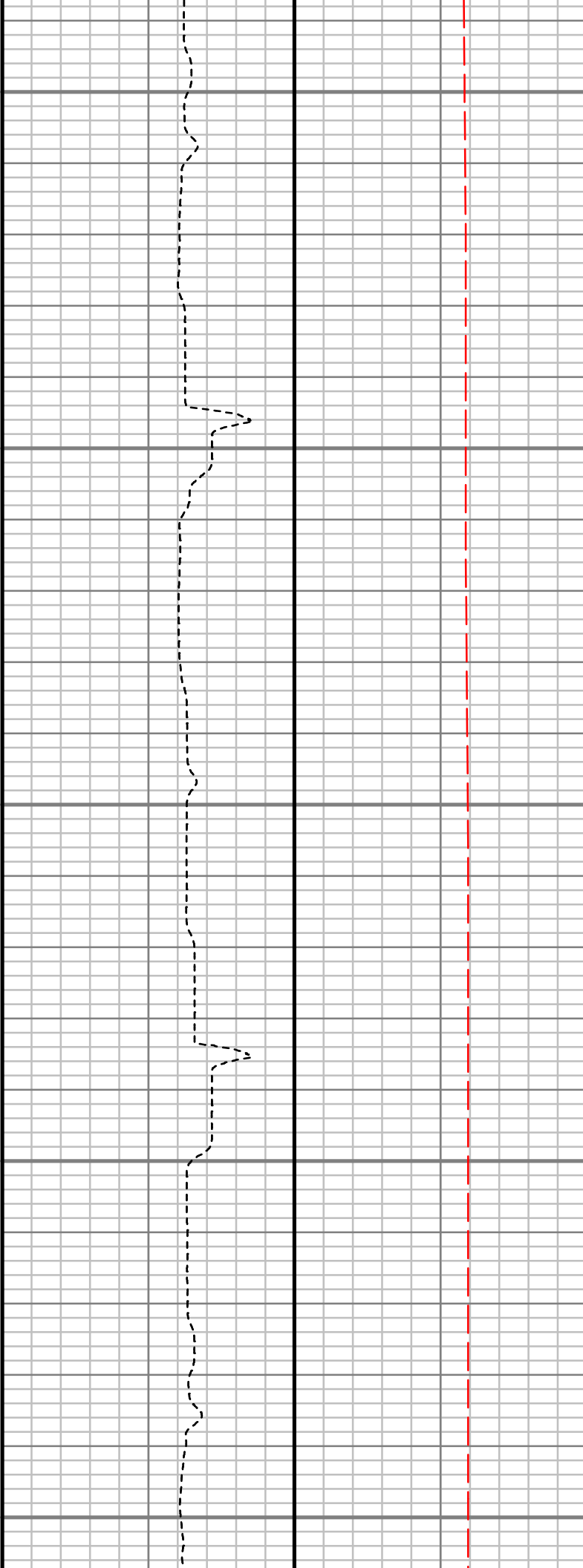
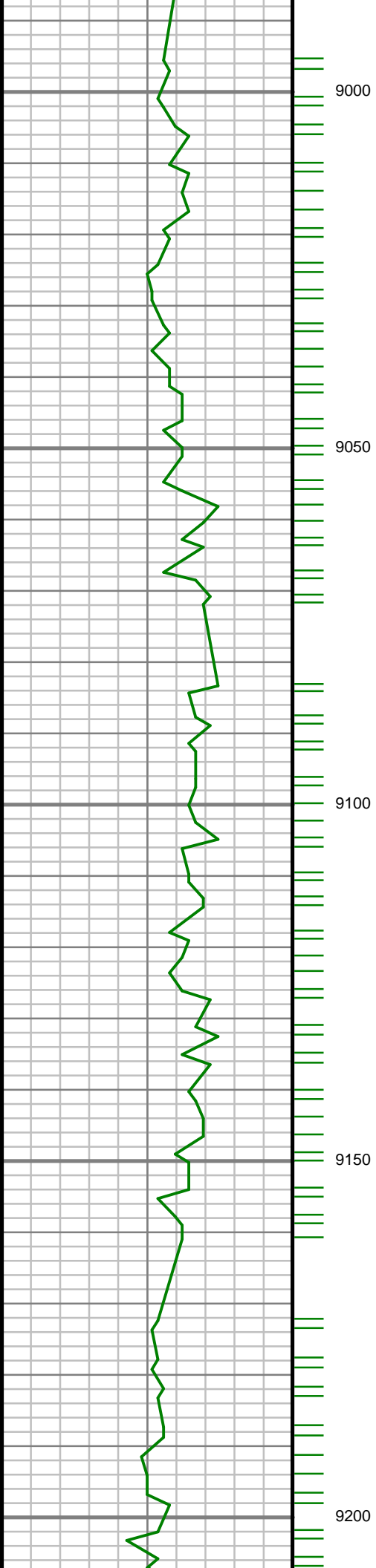
S: 130 MD: 8718.00 ft  
Inc: 89.36 deg Az: 2.16  
deg TVD: 7366.23 ft



S: 131 MD: 8807.00 ft  
Inc: 89.70 deg Az: 2.82  
deg TVD: 7366.96 ft

S: 132 MD: 8895.00 ft  
Inc: 88.02 deg Az: 2.28  
deg TVD: 7368.71 ft

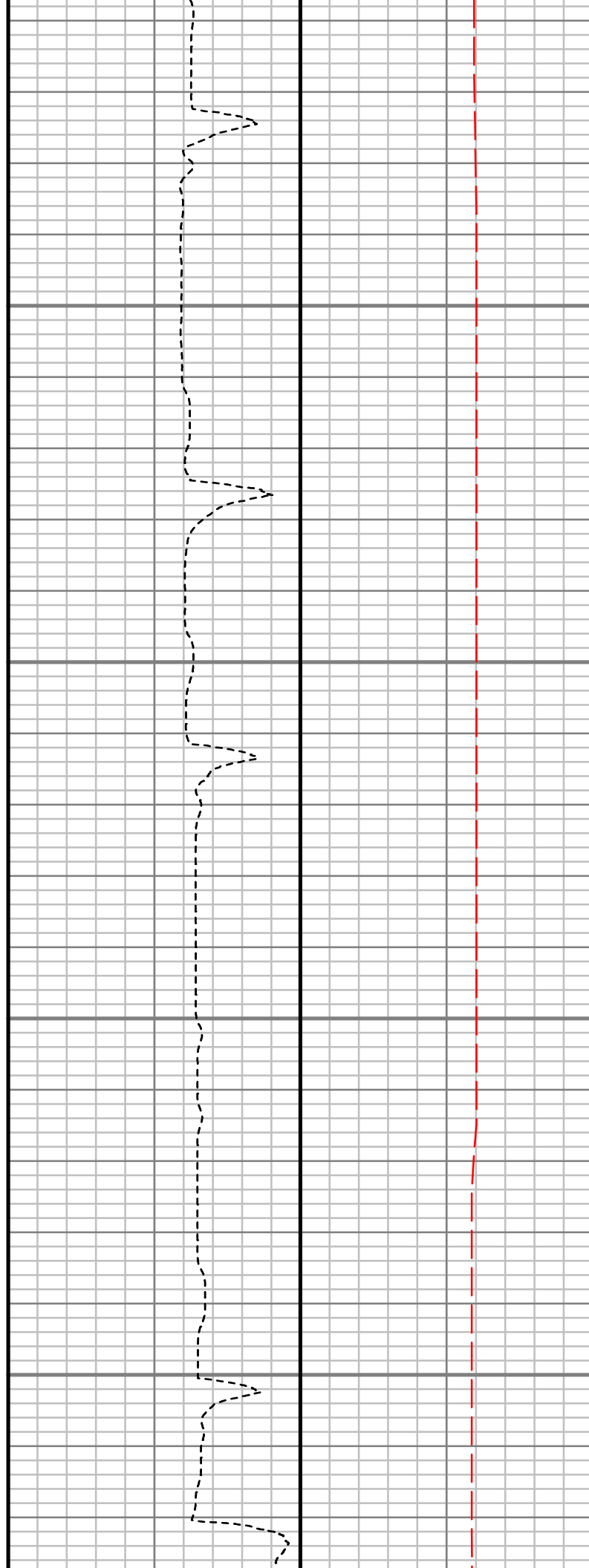
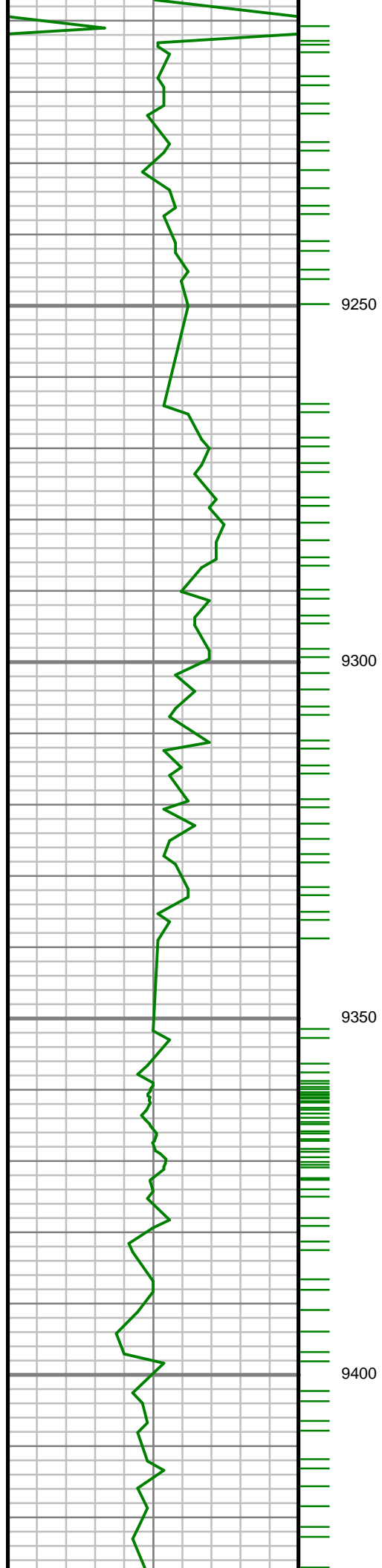
S: 133 MD: 8984.00 ft



Inc: 88.22 deg Az: 2.12  
deg TVD: 7371.63 ft

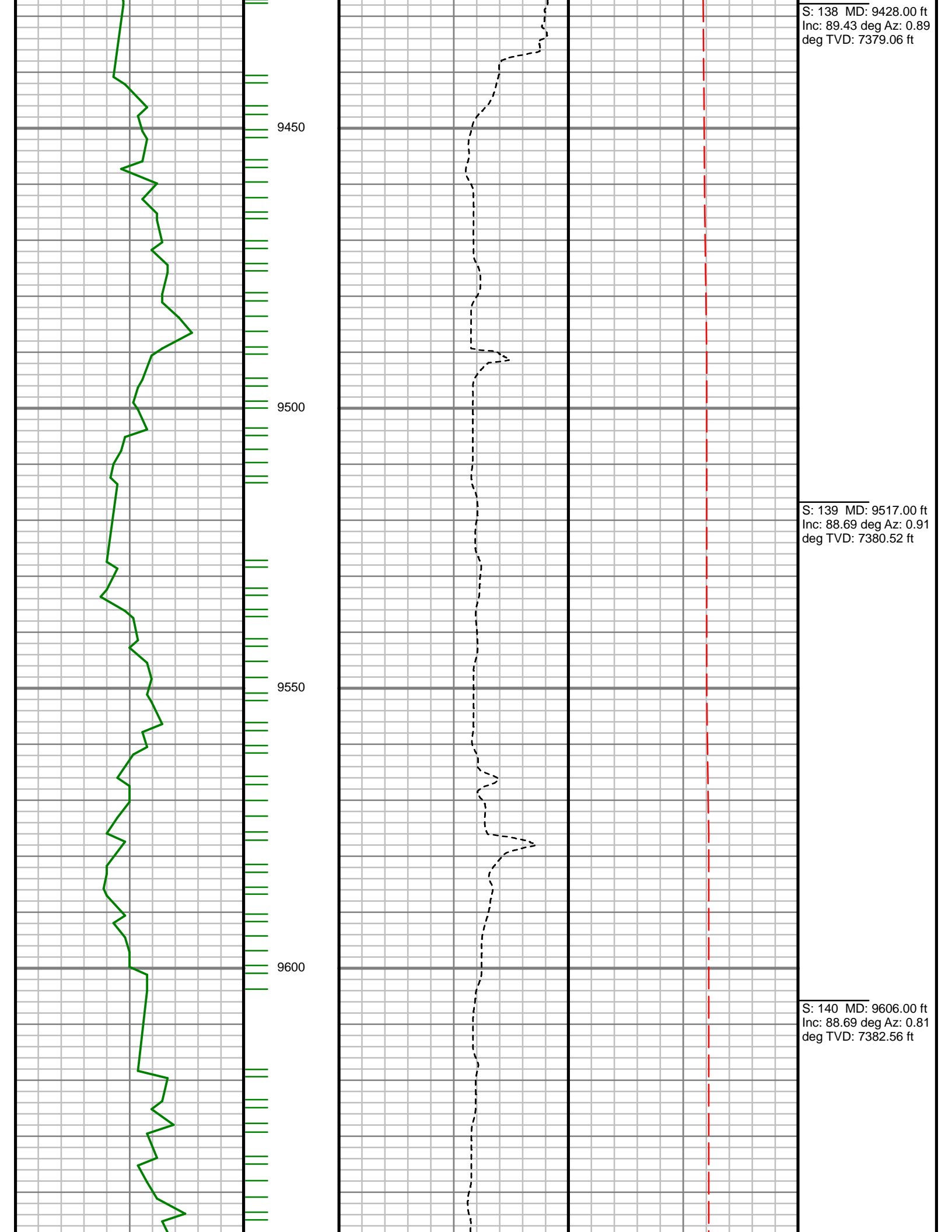
S: 134 MD: 9073.00 ft  
Inc: 88.56 deg Az: 1.50  
deg TVD: 7374.13 ft

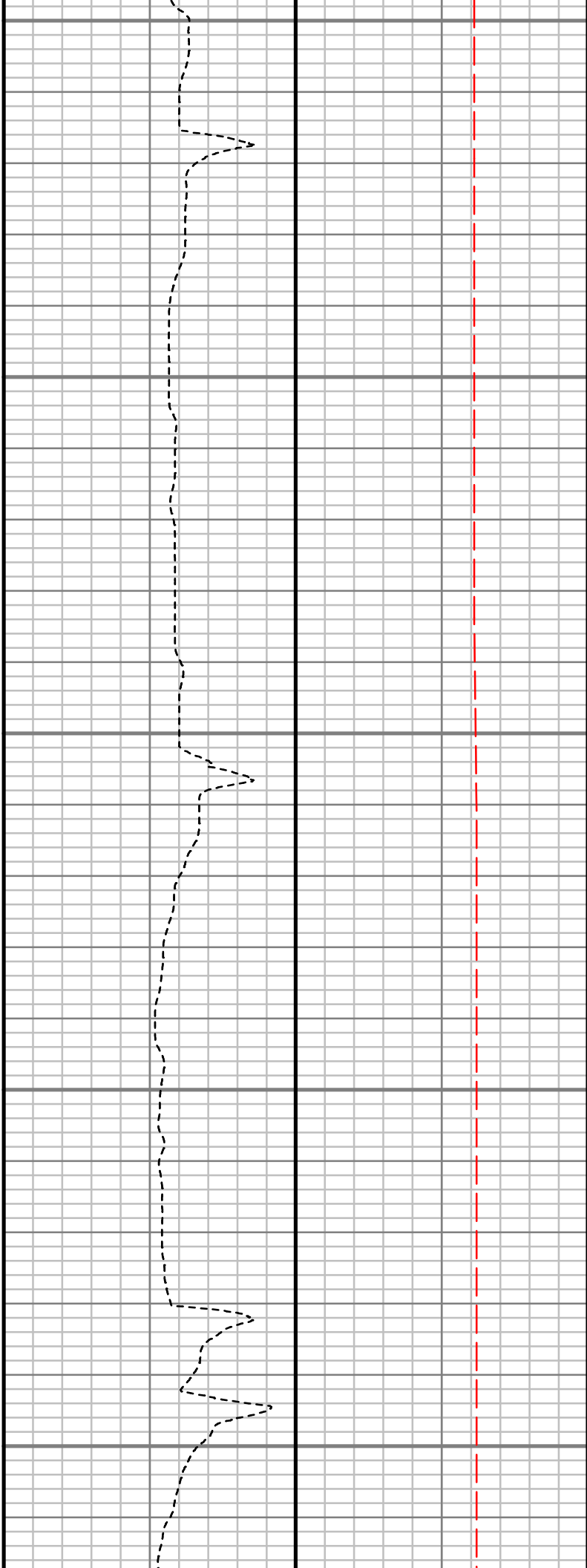
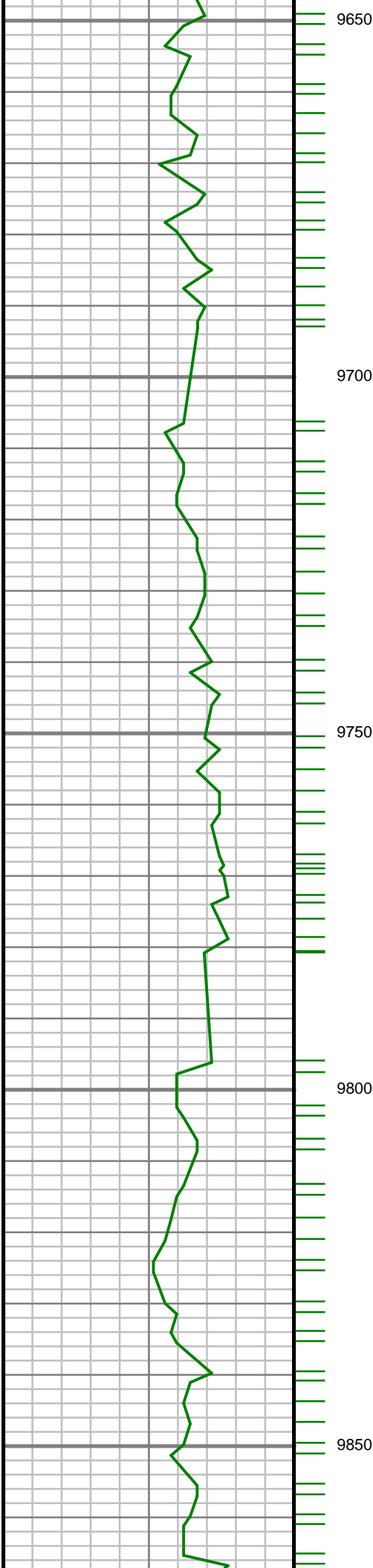
S: 135 MD: 9162.00 ft  
Inc: 88.83 deg Az: 1.14  
deg TVD: 7376.15 ft



S: 136 MD: 9251.00 ft  
Inc: 89.06 deg Az: 1.19  
deg TVD: 7377.79 ft

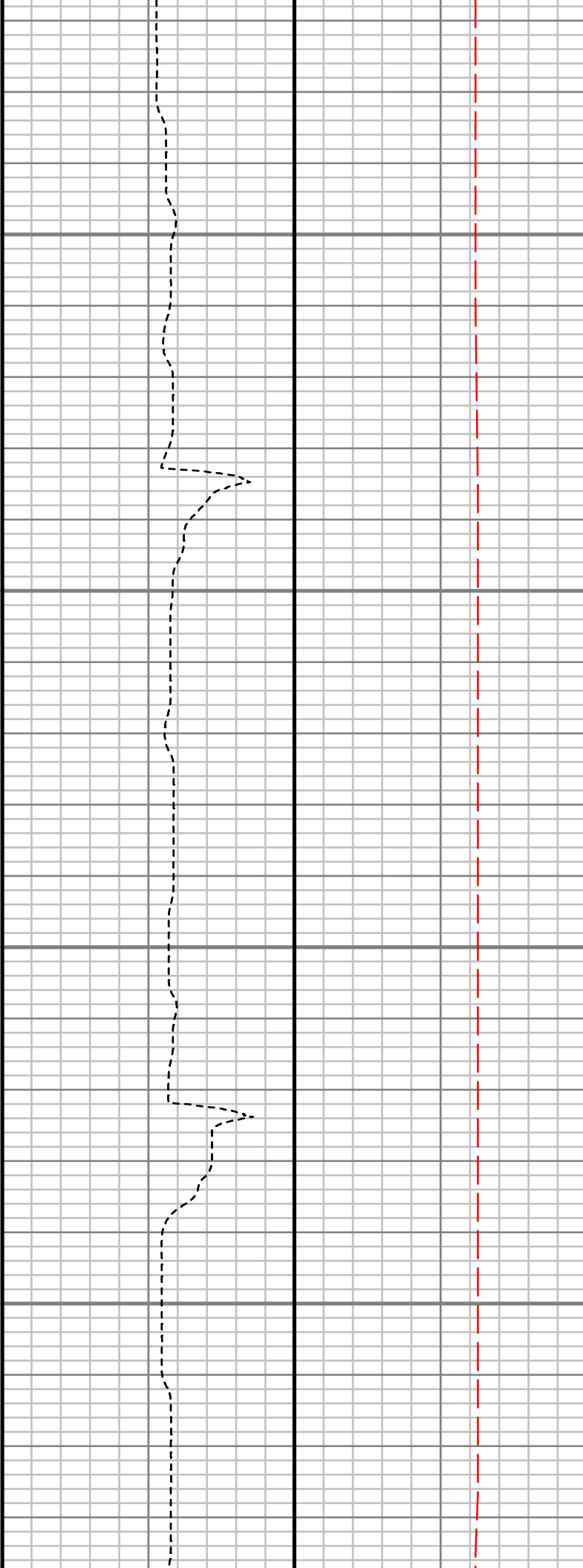
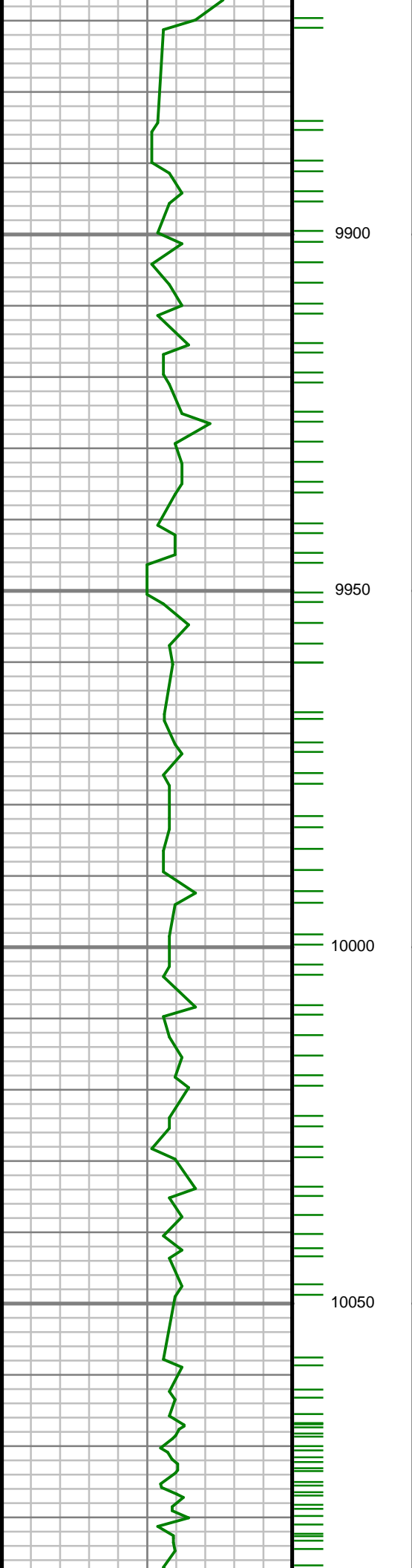
S: 137 MD: 9339.00 ft  
Inc: 89.93 deg Az: 0.83  
deg TVD: 7378.57 ft





S: 141 MD: 9695.00 ft  
Inc: 88.82 deg Az: 0.41  
deg TVD: 7384.49 ft

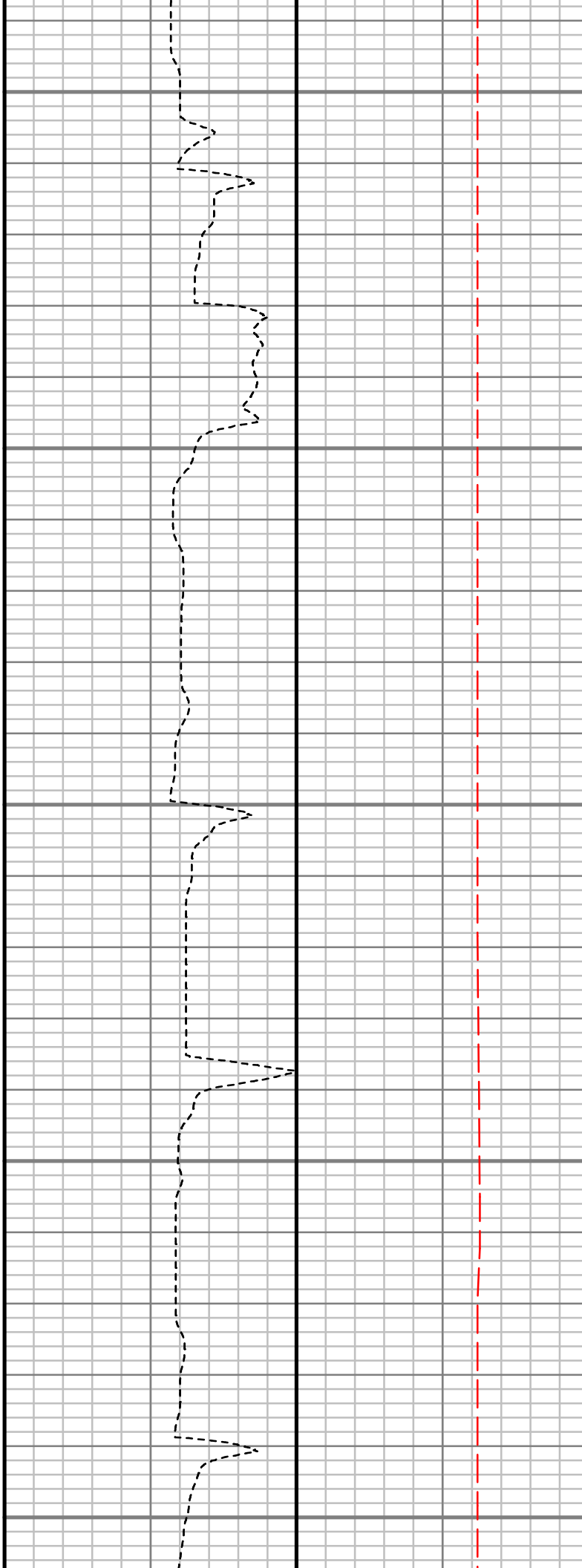
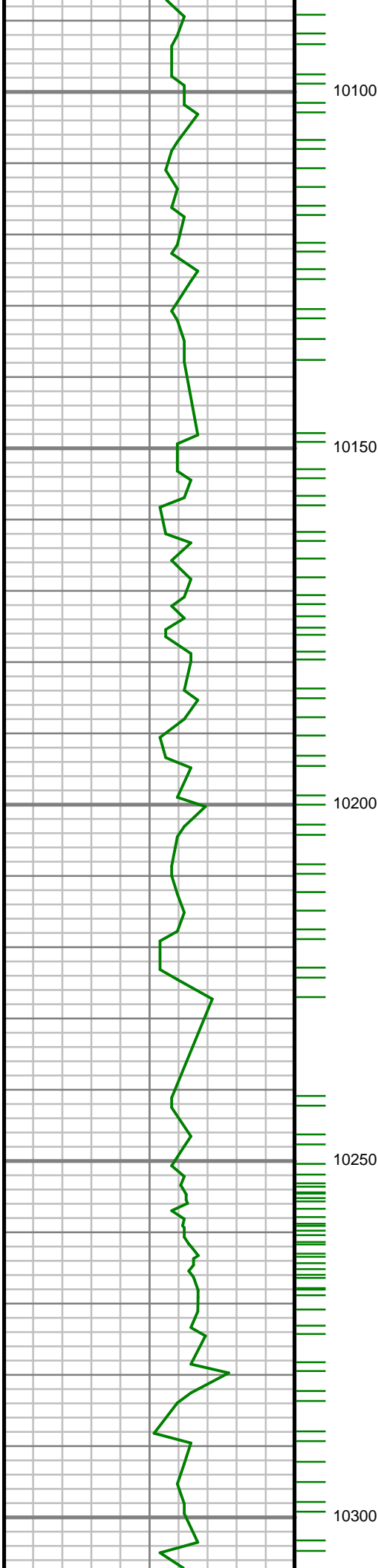
S: 142 MD: 9783.00 ft  
Inc: 89.06 deg Az: 0.36  
deg TVD: 7386.12 ft



S: 143 MD: 9872.00 ft  
Inc: 89.50 deg Az: 0.22  
deg TVD: 7387.24 ft

S: 144 MD: 9960.00 ft  
Inc: 89.26 deg Az:  
359.72 deg TVD:  
7388.19 ft

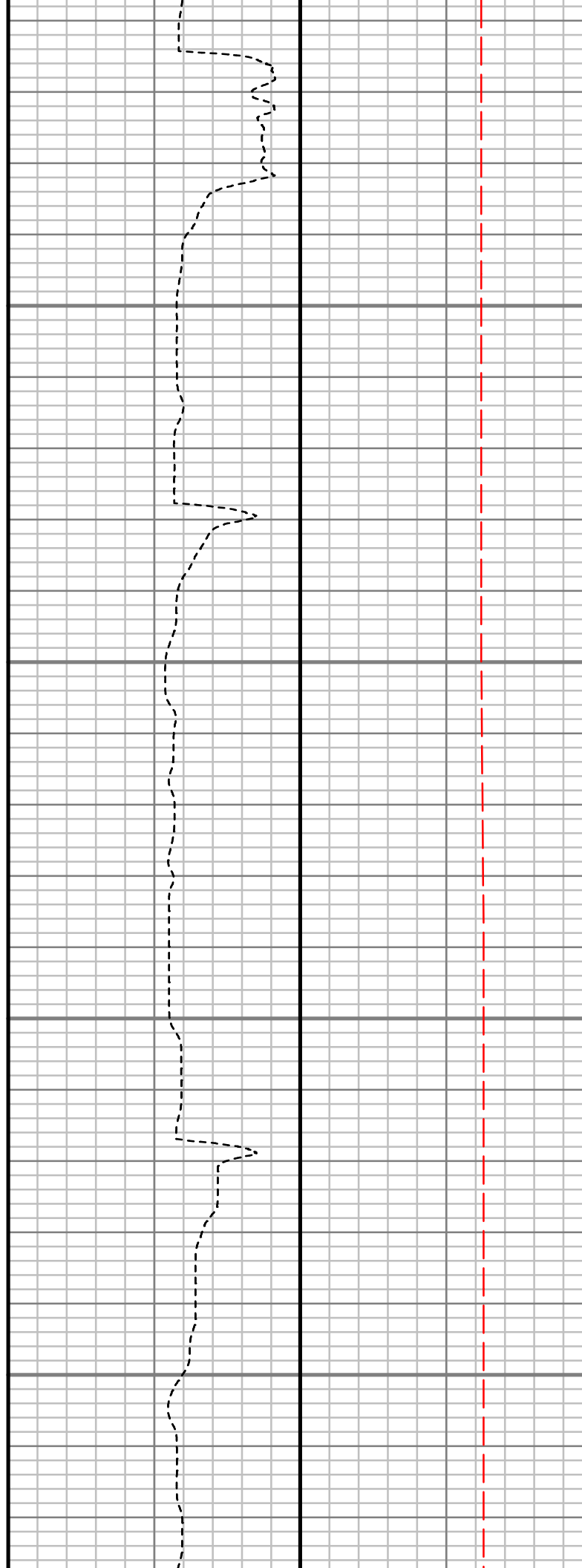
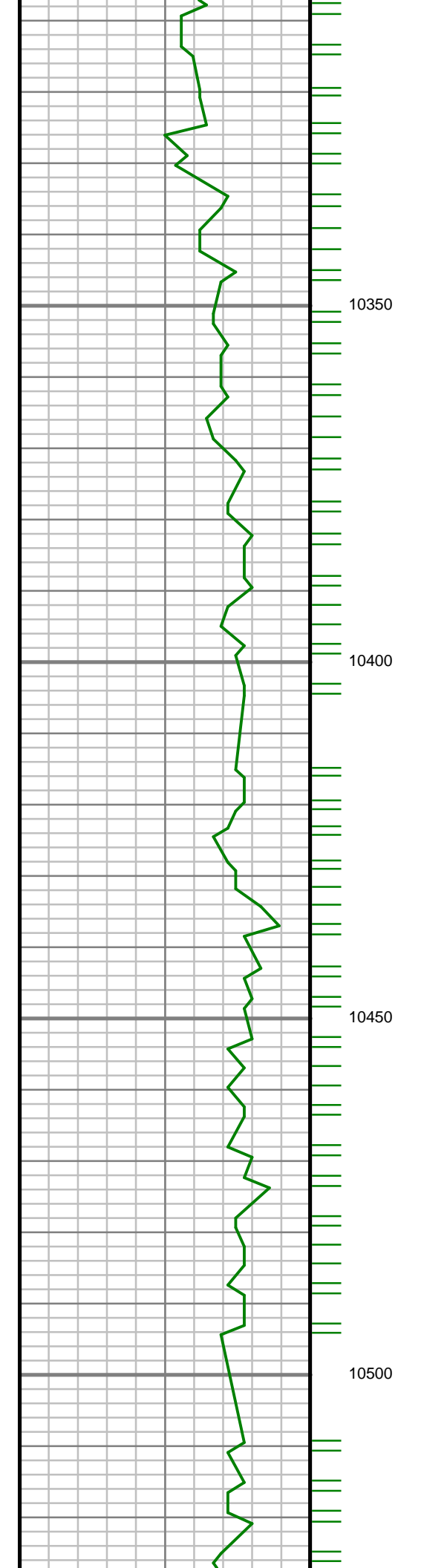
S: 145 MD: 10049.00 ft  
Inc: 89.56 deg Az:  
359.75 deg TVD:  
7389.11 ft



S: 146 MD: 10137.00 ft  
Inc: 90.47 deg Az: 1.48  
deg TVD: 7389.09 ft

S: 147 MD: 10227.00 ft  
Inc: 91.01 deg Az: 2.09  
deg TVD: 7387.92 ft

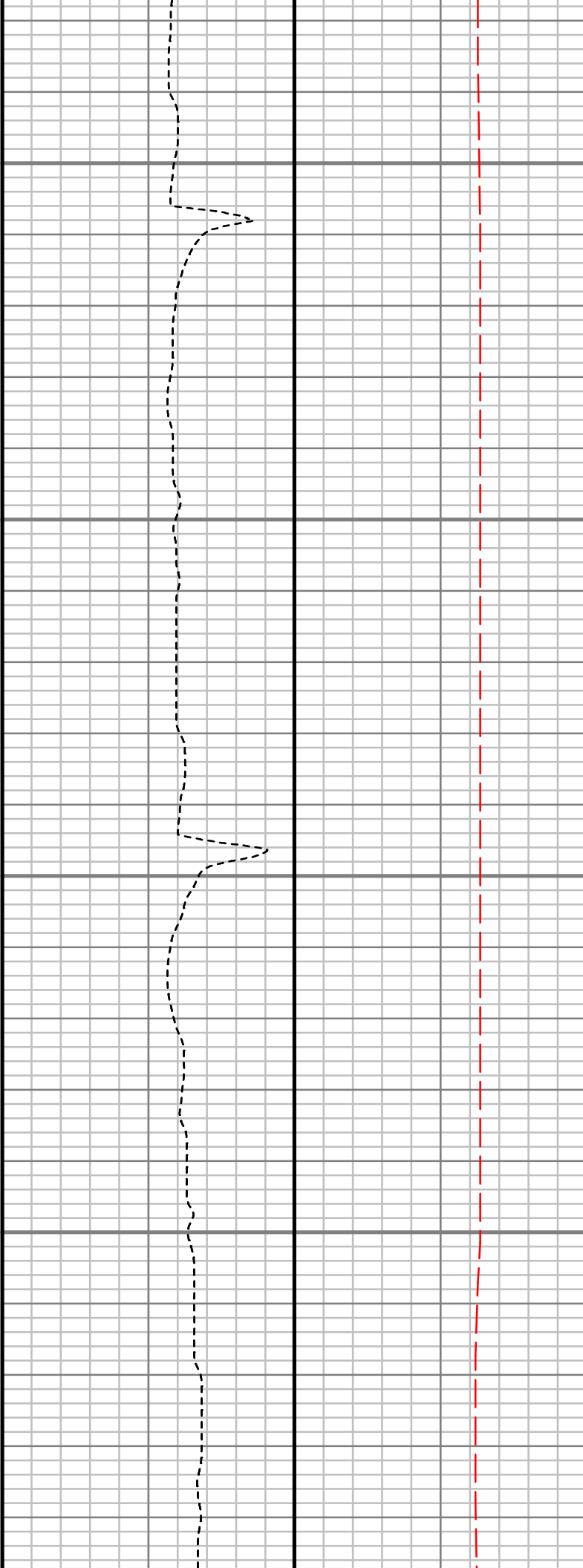
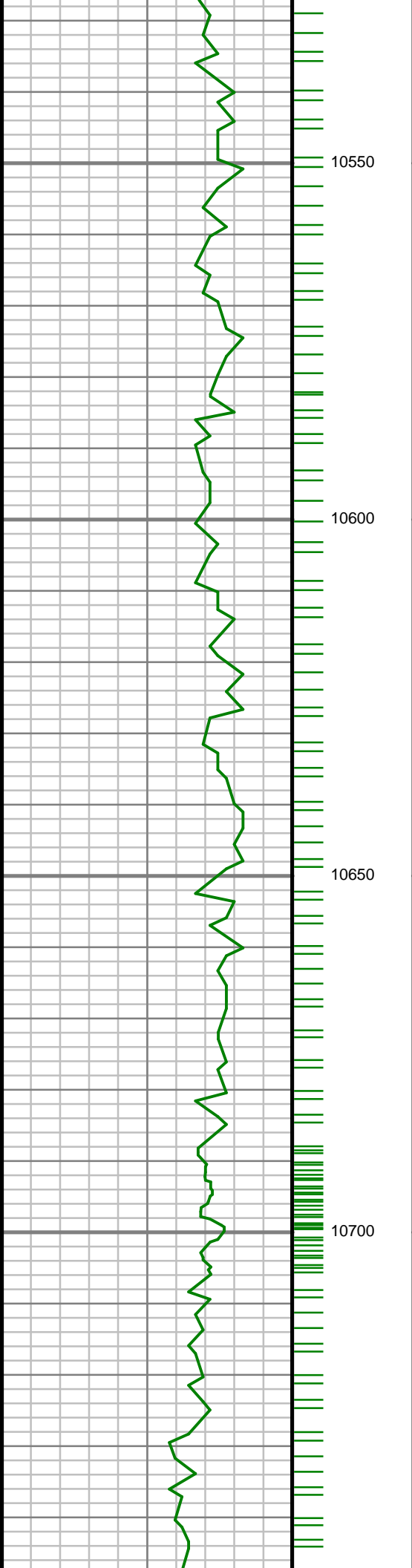




S: 148 MD: 10315.00 ft  
Inc: 90.57 deg Az: 2.49  
deg TVD: 7386.71 ft

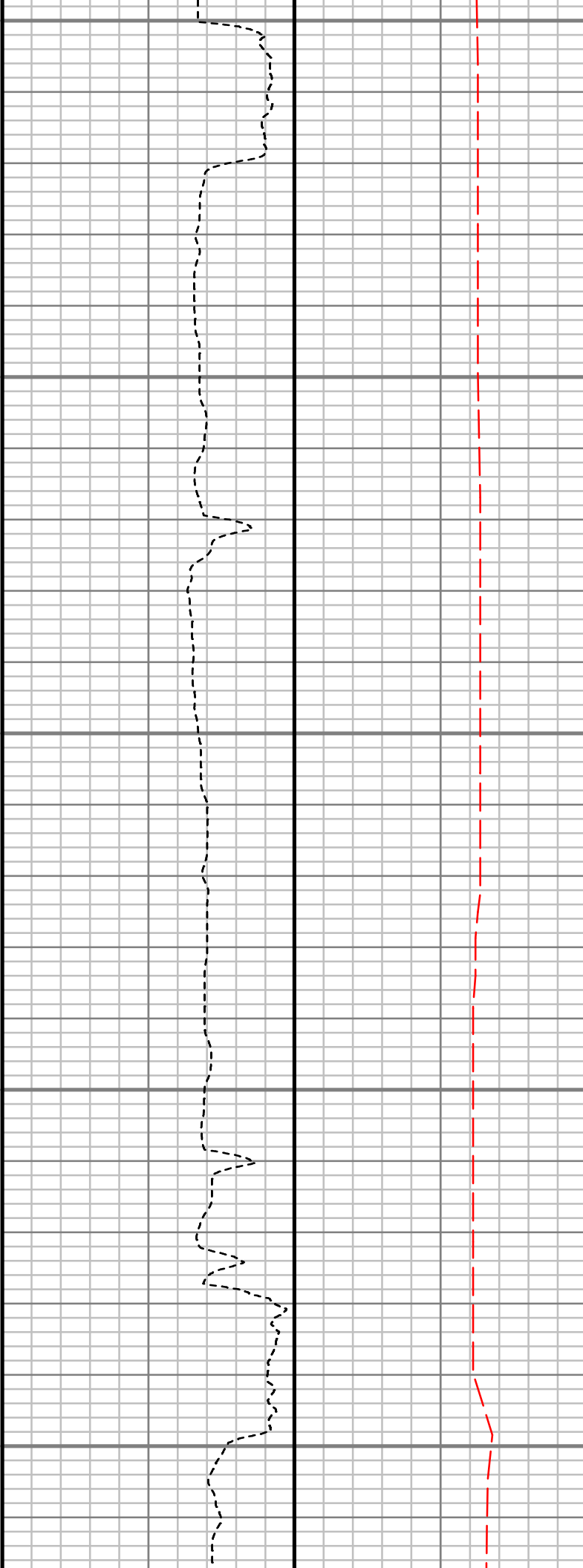
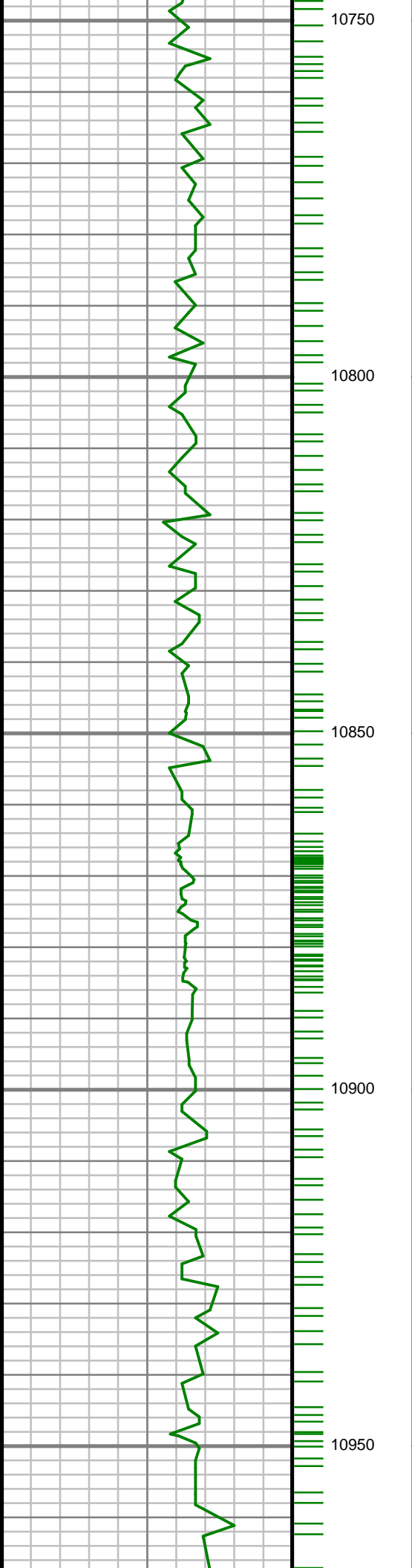
S: 149 MD: 10404.00 ft  
Inc: 89.66 deg Az: 3.00  
deg TVD: 7386.53 ft

S: 150 MD: 10493.00 ft  
Inc: 89.97 deg Az: 2.63  
deg TVD: 7386.82 ft



S: 151 MD: 10582.00 ft  
Inc: 90.54 deg Az: 2.91  
deg TVD: 7386.42 ft

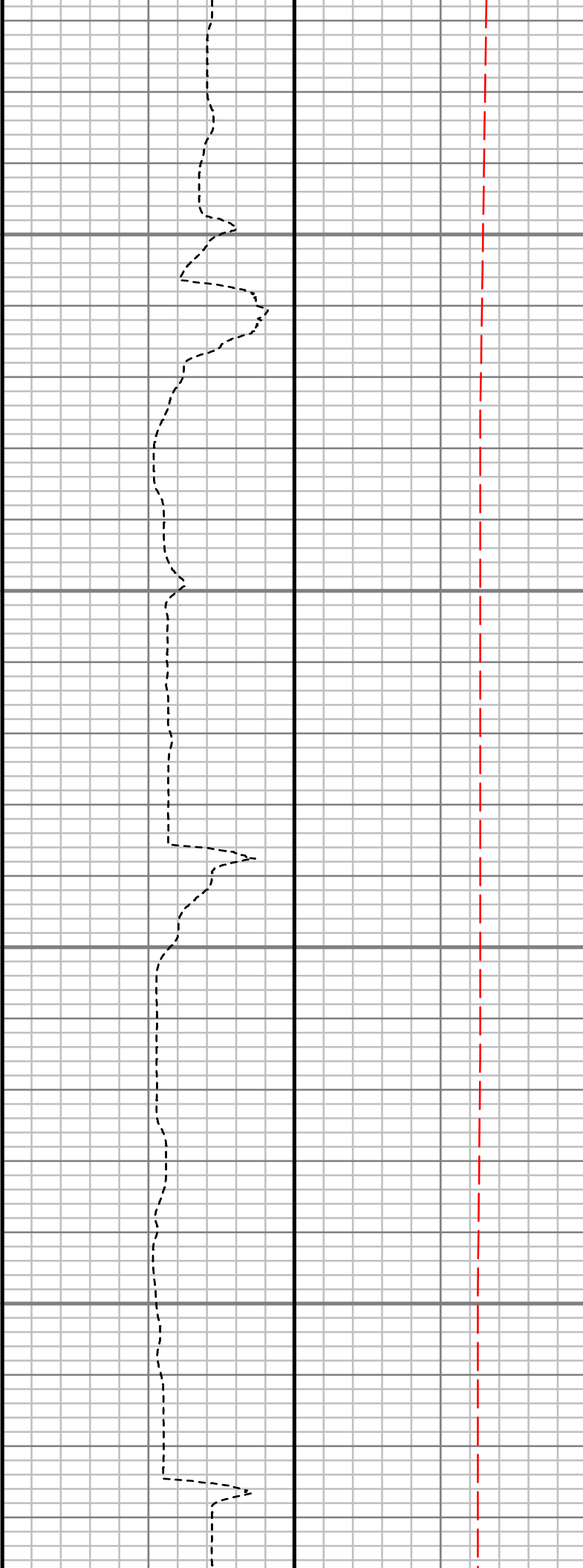
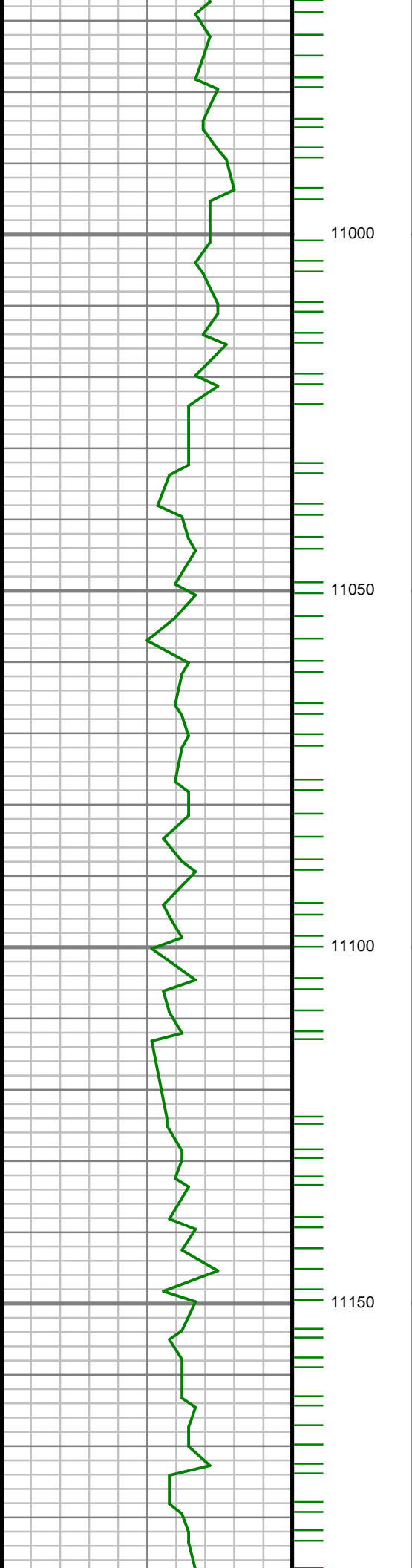
S: 152 MD: 10671.00 ft  
Inc: 90.81 deg Az: 2.35  
deg TVD: 7385.37 ft



S: 153 MD: 10760.00 ft  
Inc: 90.10 deg Az: 1.91  
deg TVD: 7384.67 ft

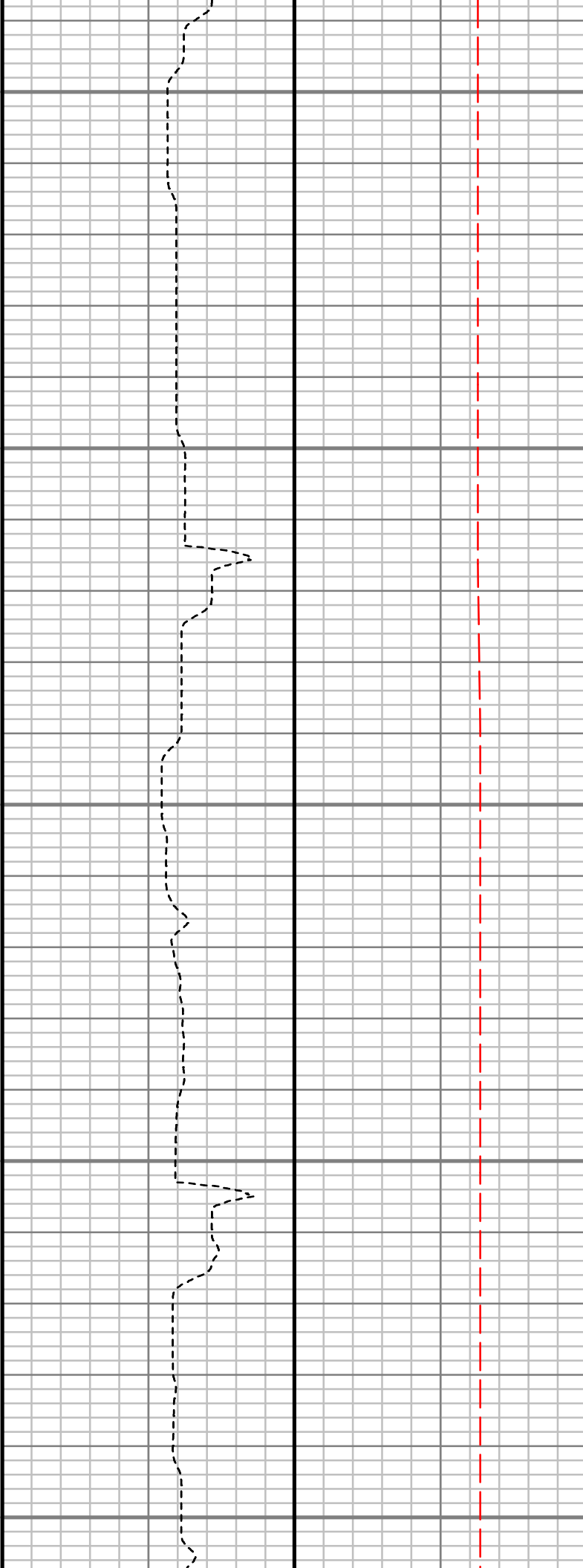
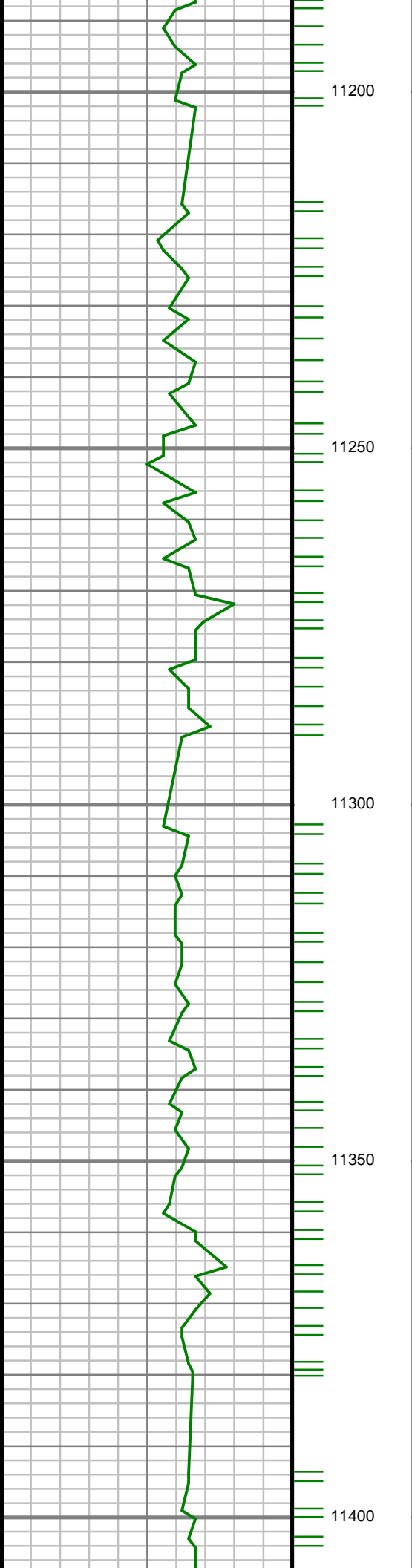
S: 154 MD: 10848.00 ft  
Inc: 90.67 deg Az: 2.86  
deg TVD: 7384.08 ft

S: 155 MD: 10937.00 ft  
Inc: 89.26 deg Az: 1.38  
deg TVD: 7384.13 ft



S: 156 MD: 11026.00 ft  
Inc: 88.69 deg Az: 0.79  
deg TVD: 7385.72 ft

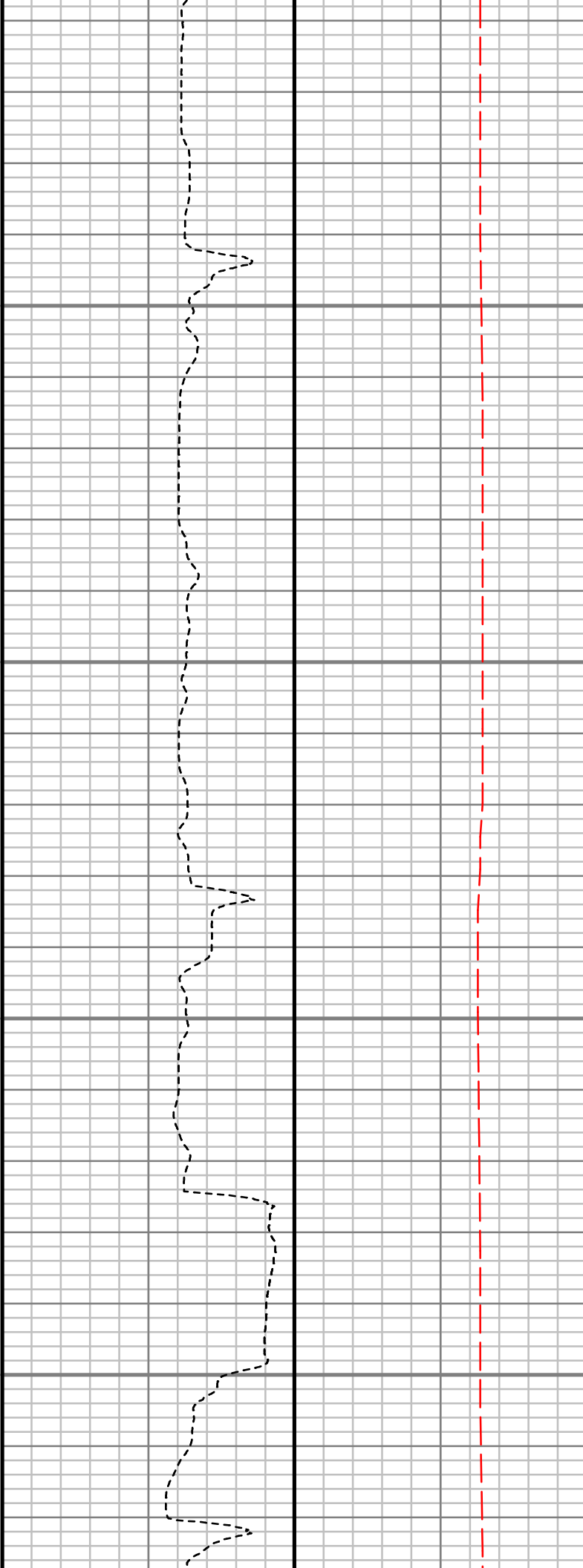
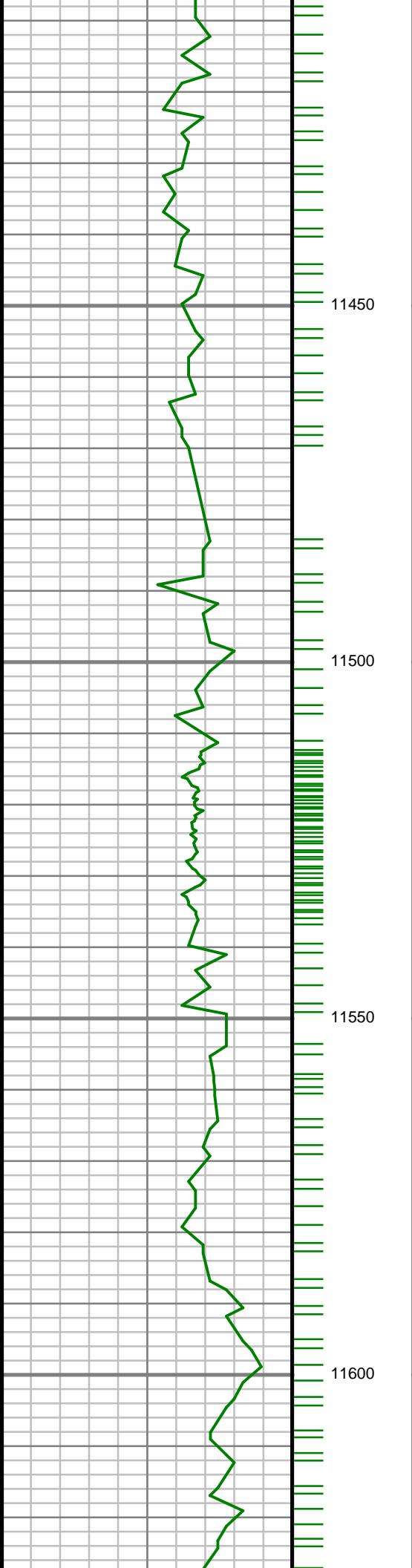
S: 157 MD: 11115.00 ft  
Inc: 88.76 deg Az:  
359.89 deg TVD:  
7387.70 ft



S: 158 MD: 11204.00 ft  
Inc: 88.99 deg Az:  
359.43 deg TVD:  
7389.45 ft

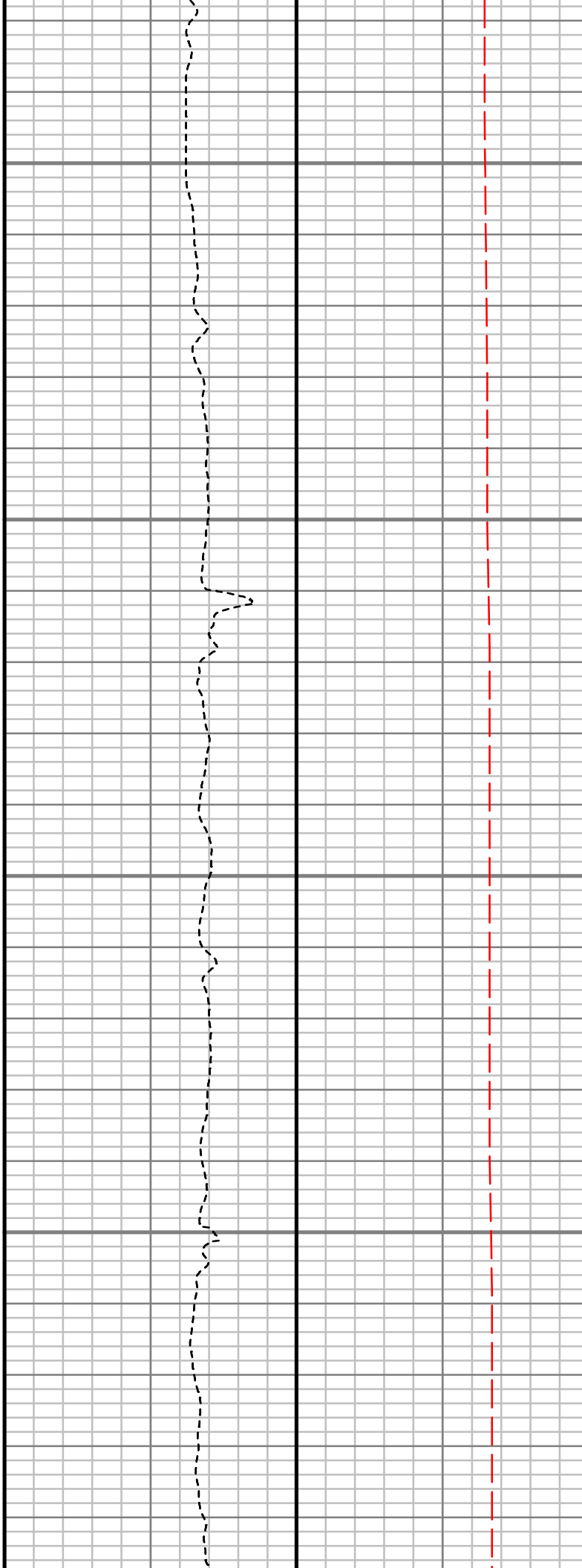
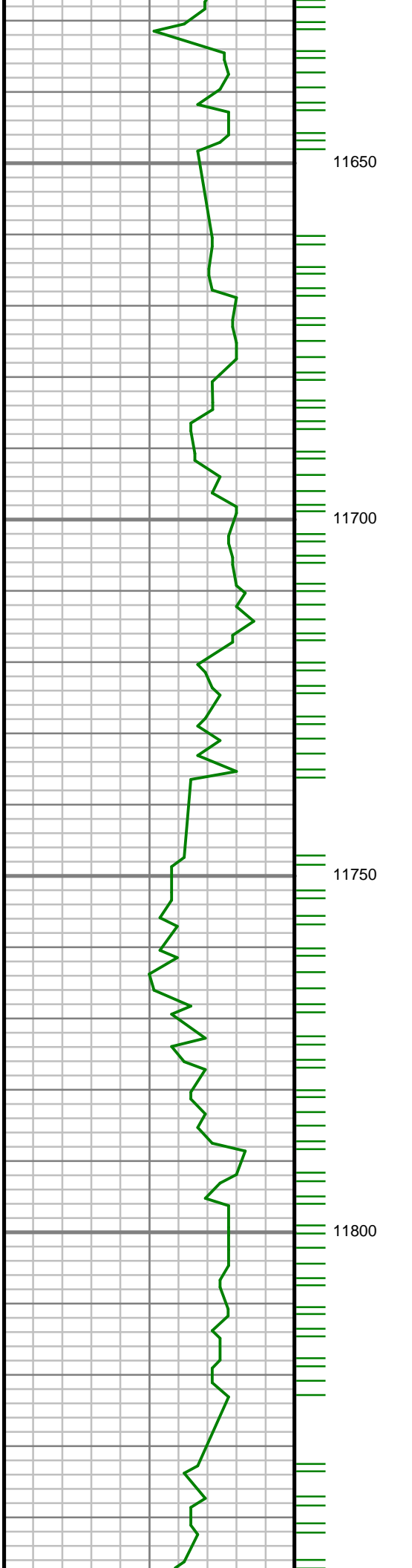
S: 159 MD: 11292.00 ft  
Inc: 88.83 deg Az:  
359.10 deg TVD:  
7391.12 ft

S: 160 MD: 11381.00 ft  
Inc: 89.90 deg Az:  
359.26 deg TVD:  
7392.11 ft



S: 161 MD: 11470.00 ft  
Inc: 89.87 deg Az:  
358.68 deg TVD:  
7392.29 ft

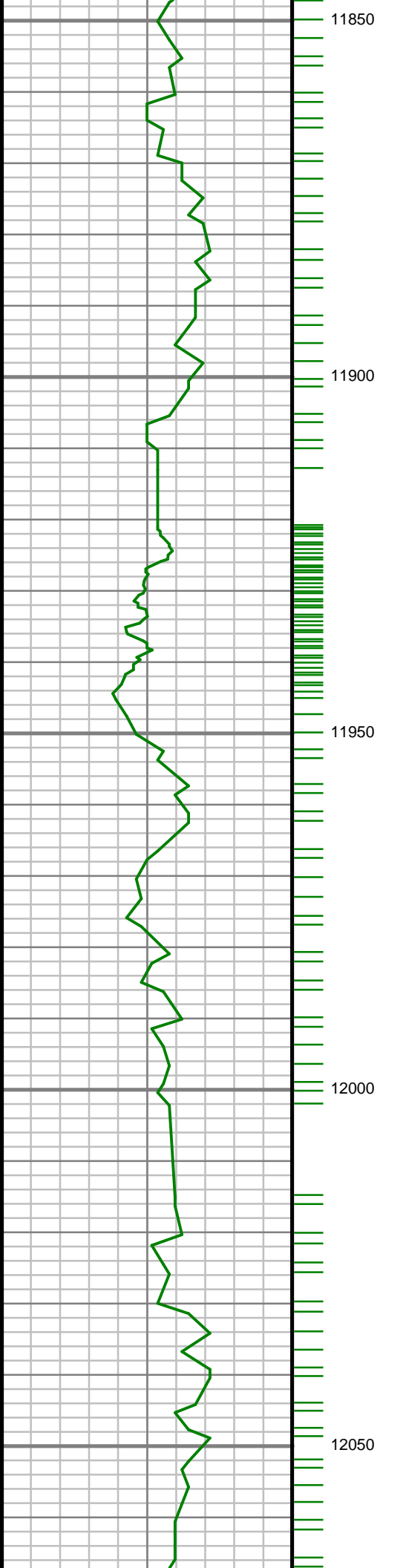
S: 162 MD: 11559.00 ft  
Inc: 90.17 deg Az:  
358.11 deg TVD:  
7392.26 ft



S: 163 MD: 11648.00 ft  
Inc: 90.17 deg Az: 1.53  
deg TVD: 7391.99 ft

S: 164 MD: 11737.00 ft  
Inc: 89.83 deg Az: 0.98  
deg TVD: 7391.99 ft

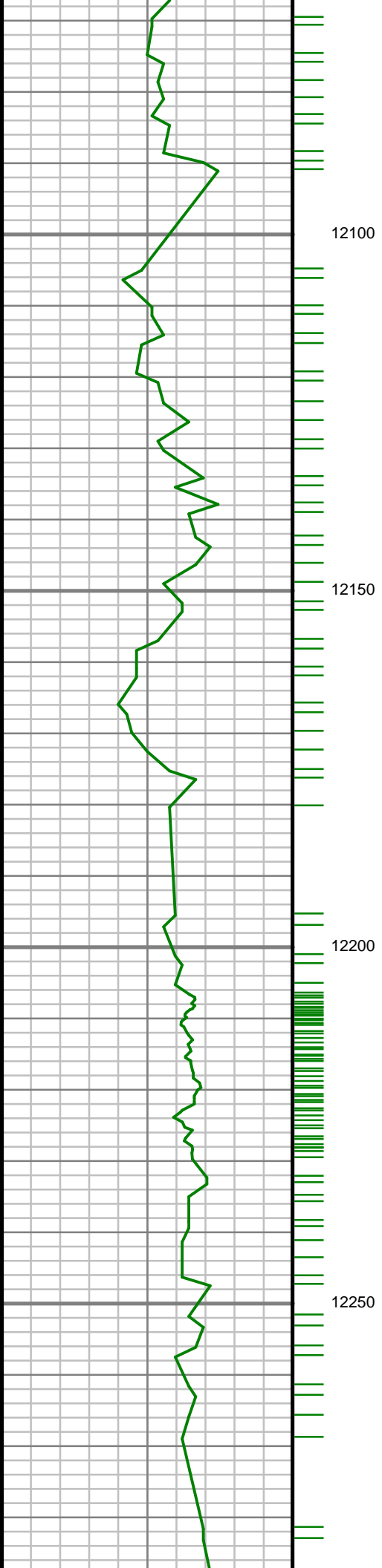
S: 165 MD: 11826.00 ft  
Inc: 90.20 deg Az: 0.24  
deg TVD: 7391.97 ft



S: 166 MD: 11915.00 ft  
Inc: 90.27 deg Az: 359.79 deg TVD: 7391.61 ft

S: 167 MD: 12003.00 ft  
Inc: 88.96 deg Az: 1.02 deg TVD: 7392.20 ft

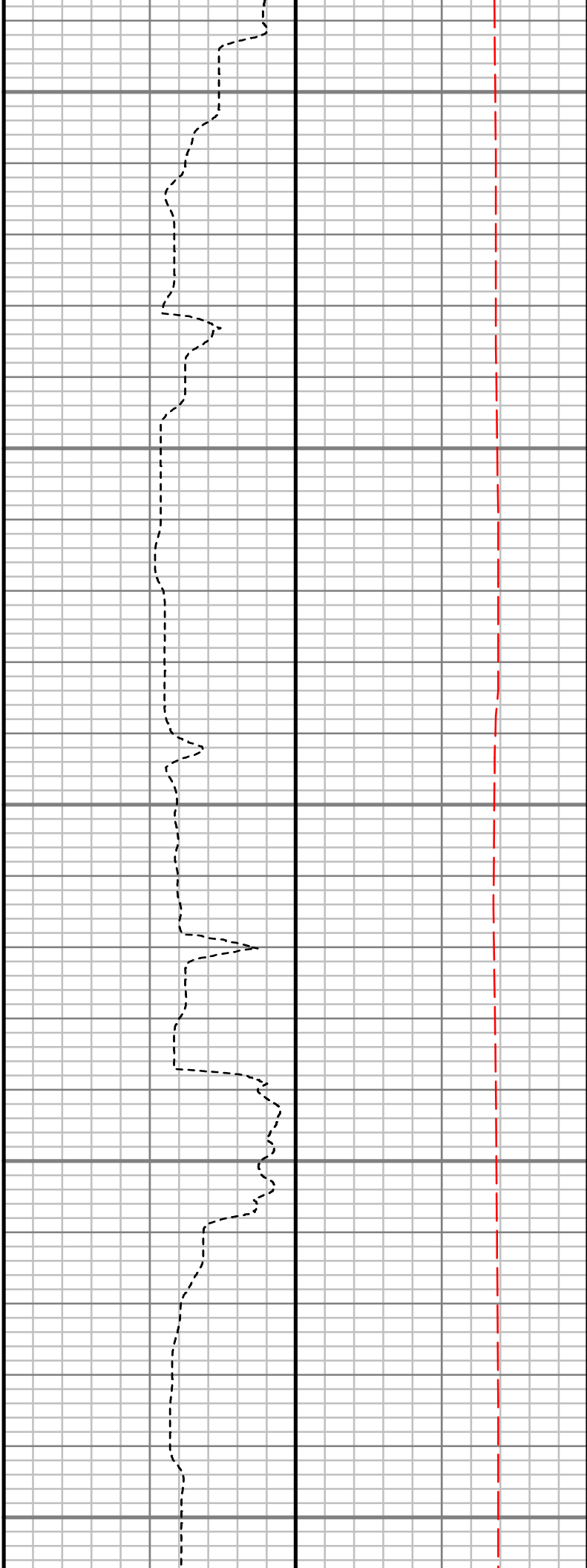
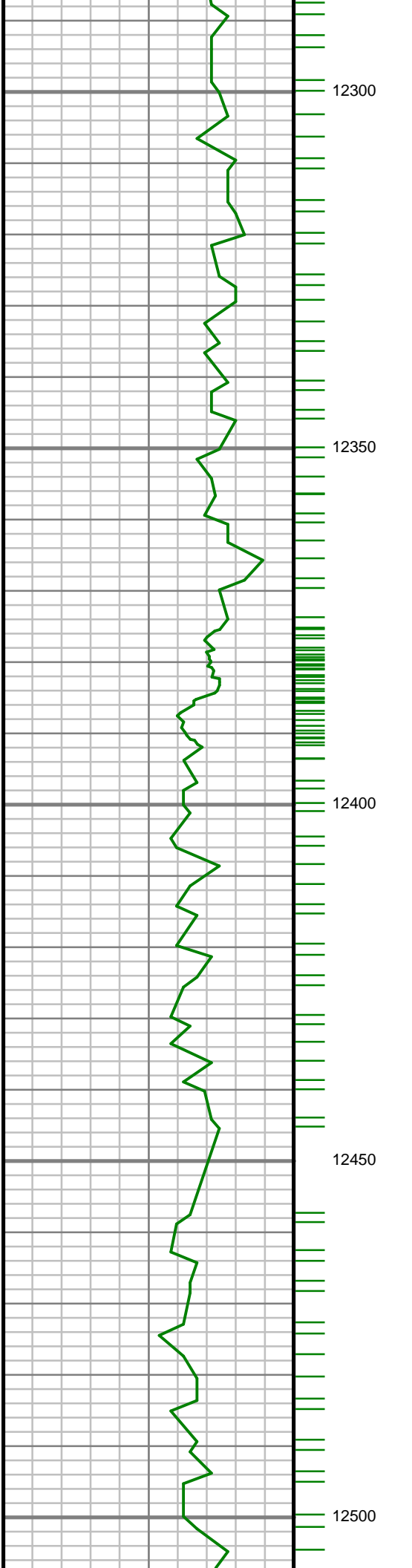




S: 168 MD: 12092.00 ft  
Inc: 88.56 deg Az: 0.48  
deg TVD: 7394.12 ft

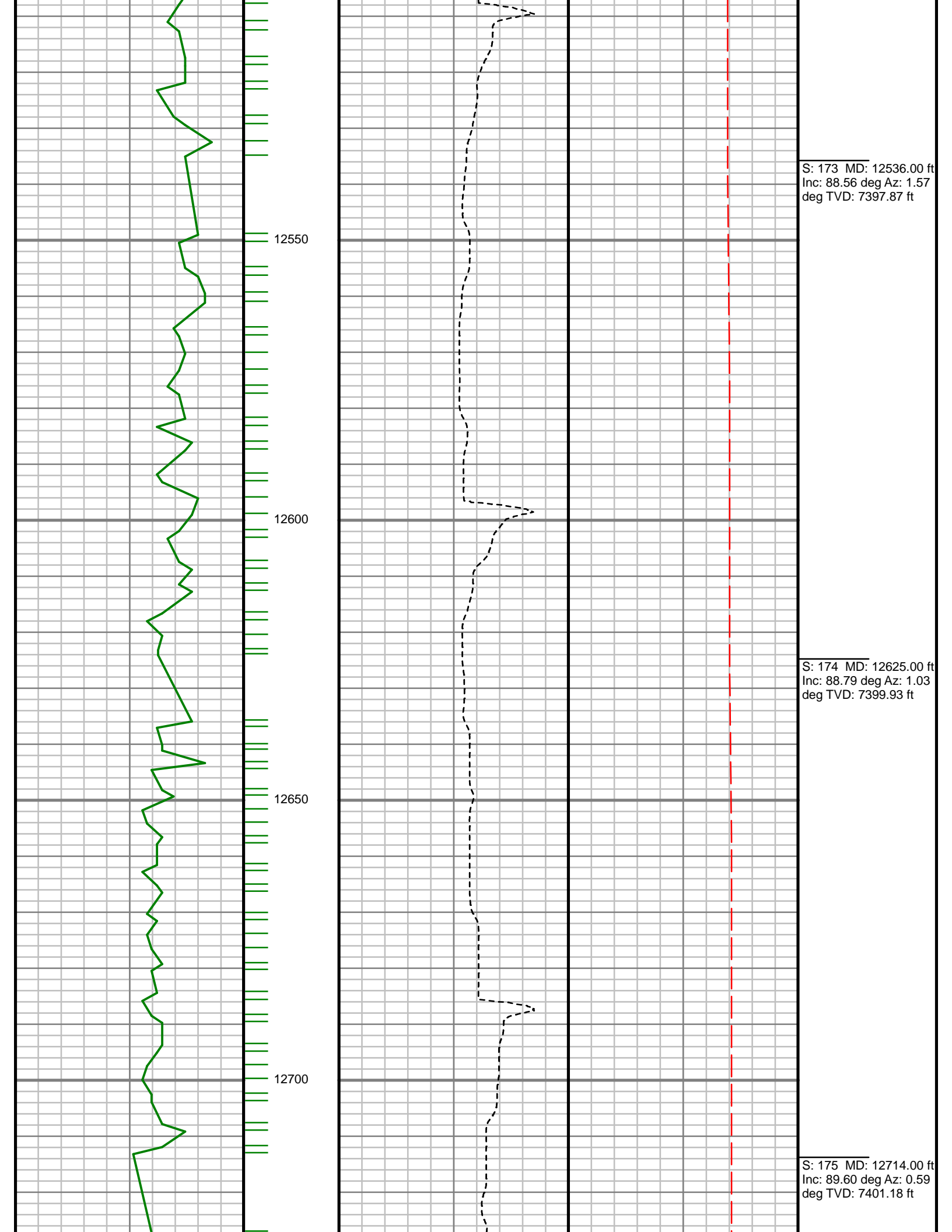
S: 169 MD: 12181.00 ft  
Inc: 88.72 deg Az:  
359.86 deg TVD:  
7396.24 ft

S: 170 MD: 12270.00 ft  
Inc: 89.87 deg Az: 0.70  
deg TVD: 7397.33 ft



S: 171 MD: 12358.00 ft  
Inc: 90.84 deg Az: 2.97  
deg TVD: 7396.78 ft

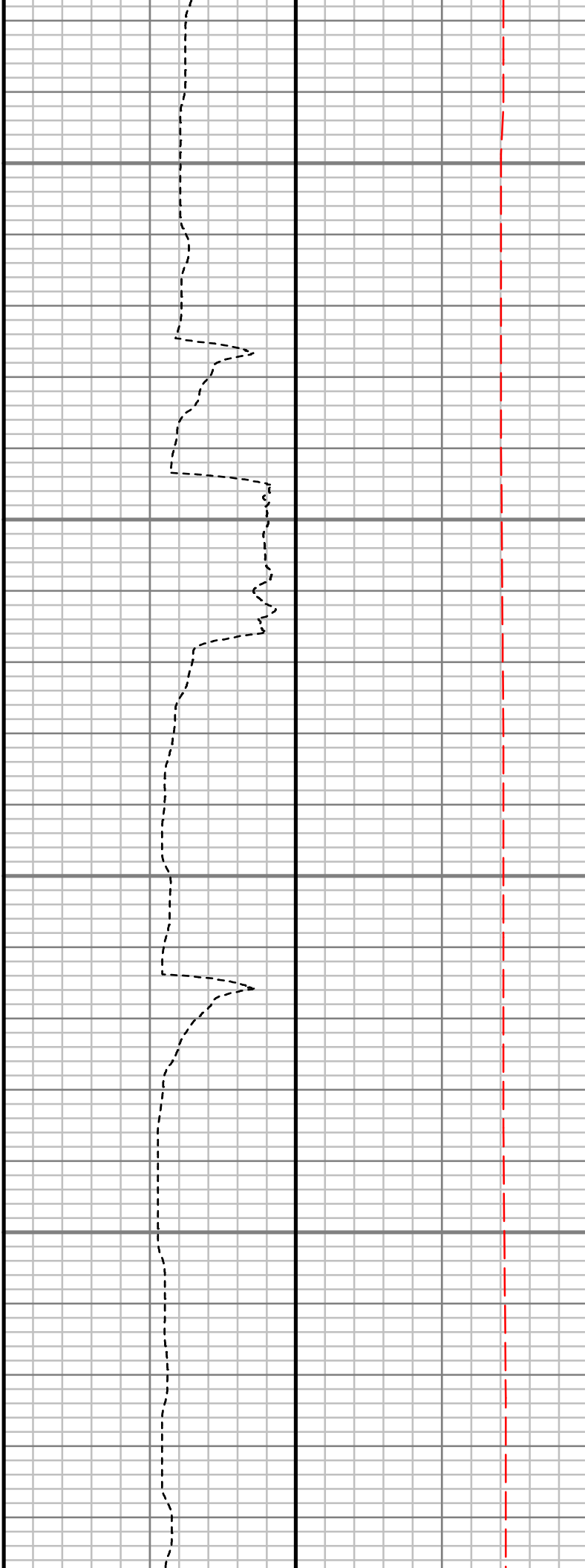
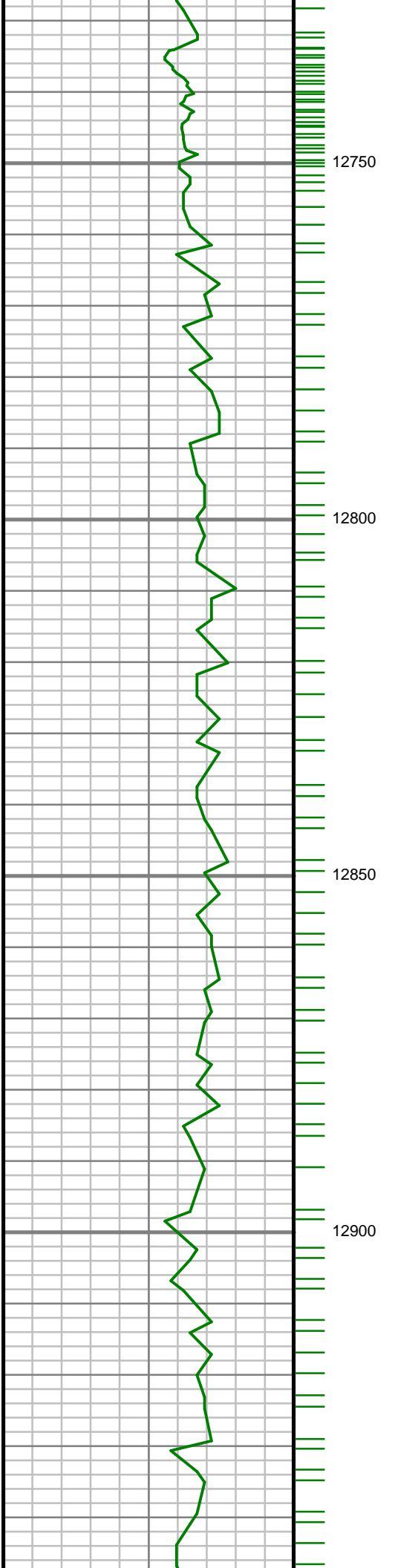
S: 172 MD: 12447.00 ft  
Inc: 89.60 deg Az: 2.04  
deg TVD: 7396.44 ft



S: 173 MD: 12536.00 ft  
Inc: 88.56 deg Az: 1.57  
deg TVD: 7397.87 ft

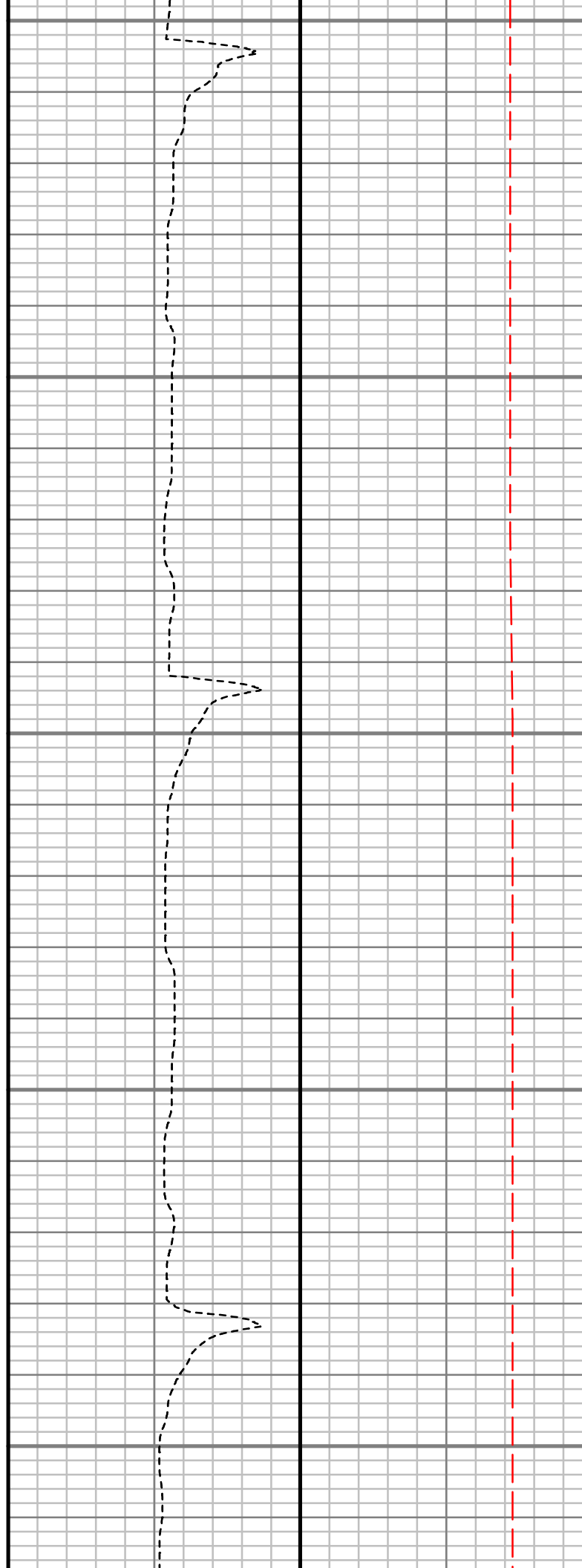
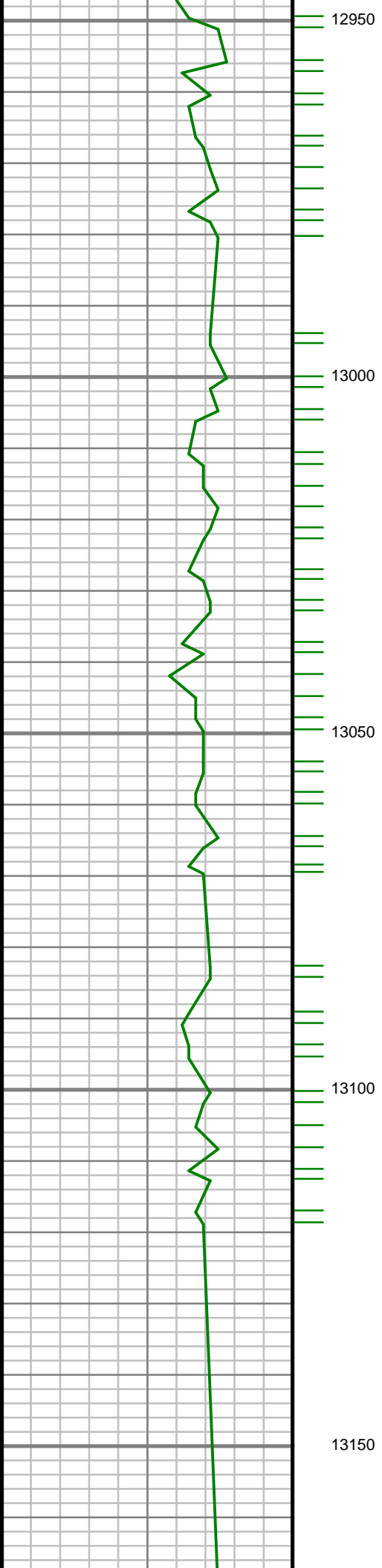
S: 174 MD: 12625.00 ft  
Inc: 88.79 deg Az: 1.03  
deg TVD: 7399.93 ft

S: 175 MD: 12714.00 ft  
Inc: 89.60 deg Az: 0.59  
deg TVD: 7401.18 ft



S: 176 MD: 12803.00 ft  
Inc: 89.36 deg Az: 0.76  
deg TVD: 7401.99 ft

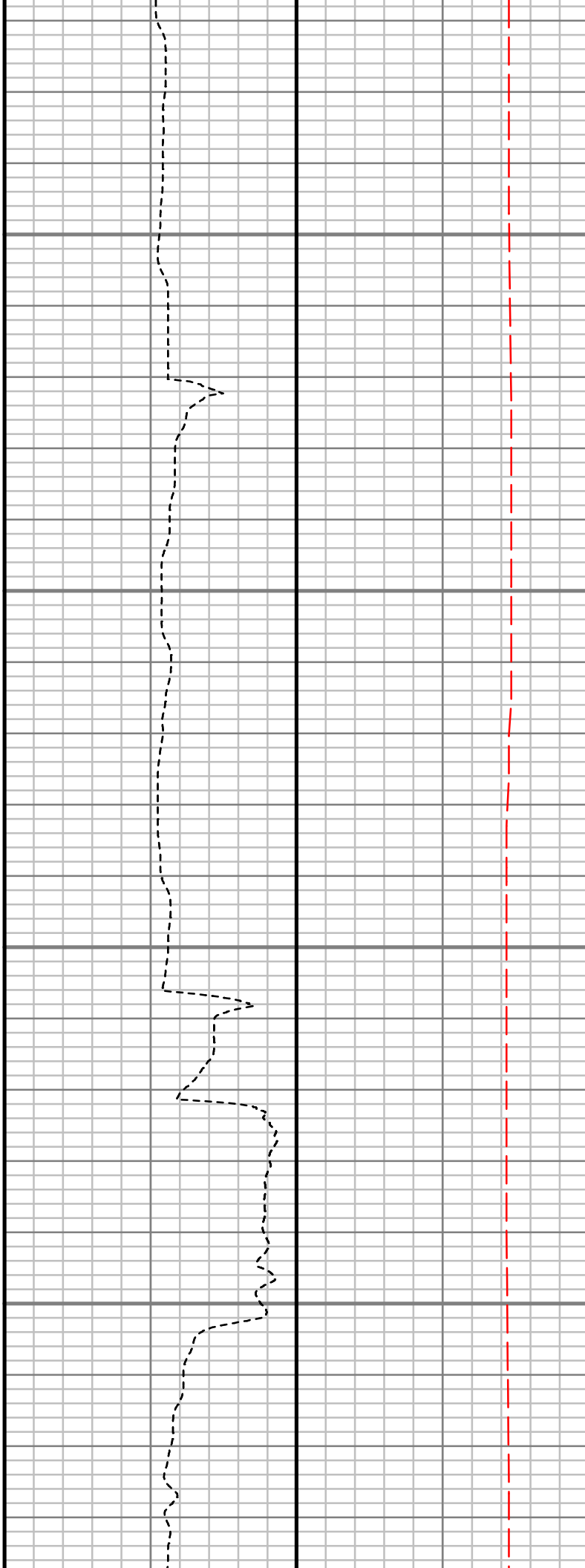
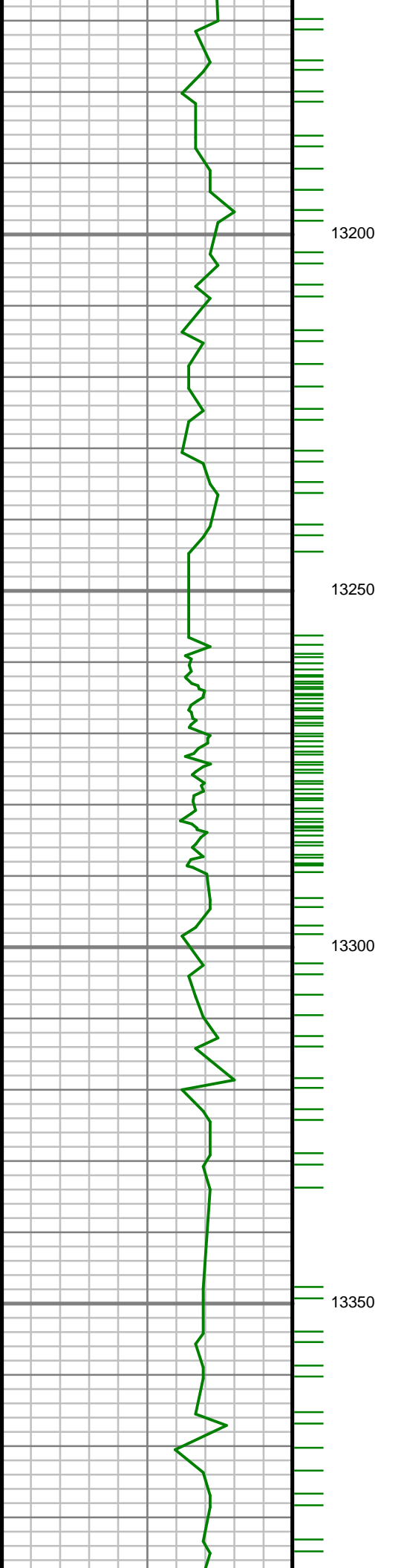
S: 177 MD: 12892.00 ft  
Inc: 89.06 deg Az: 0.79  
deg TVD: 7403.22 ft



S: 178 MD: 12980.00 ft  
Inc: 89.36 deg Az: 0.14  
deg TVD: 7404.43 ft

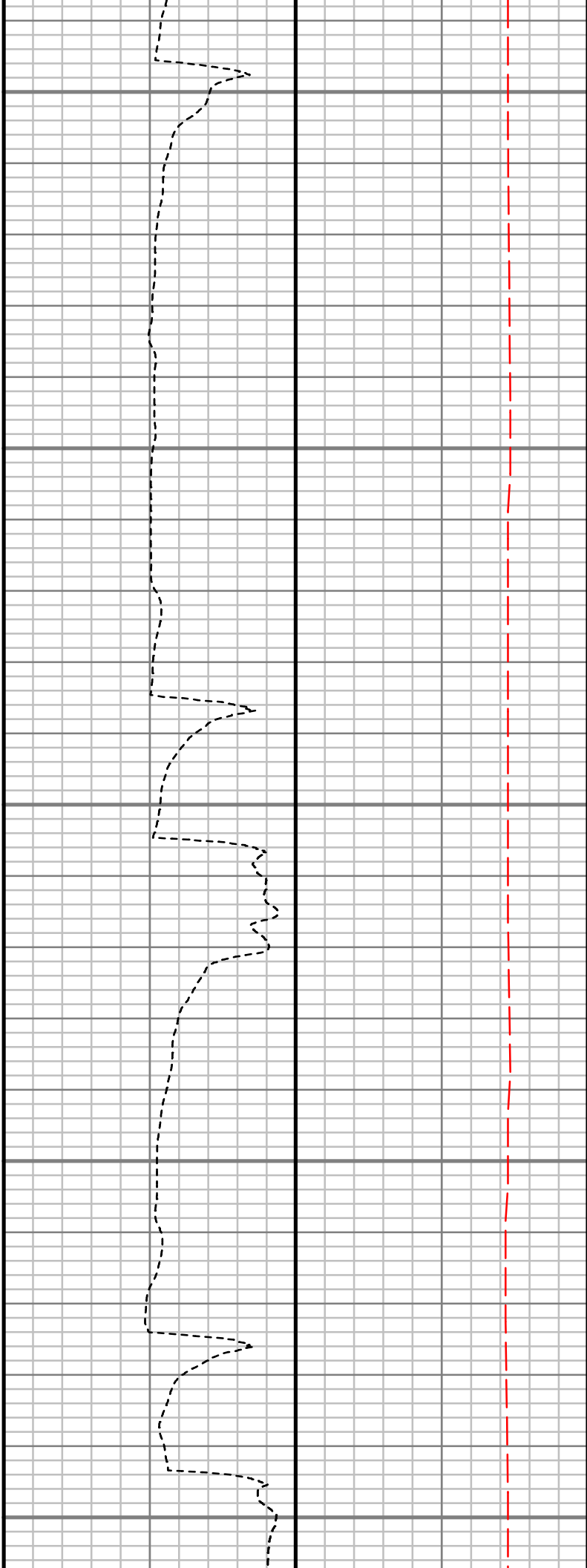
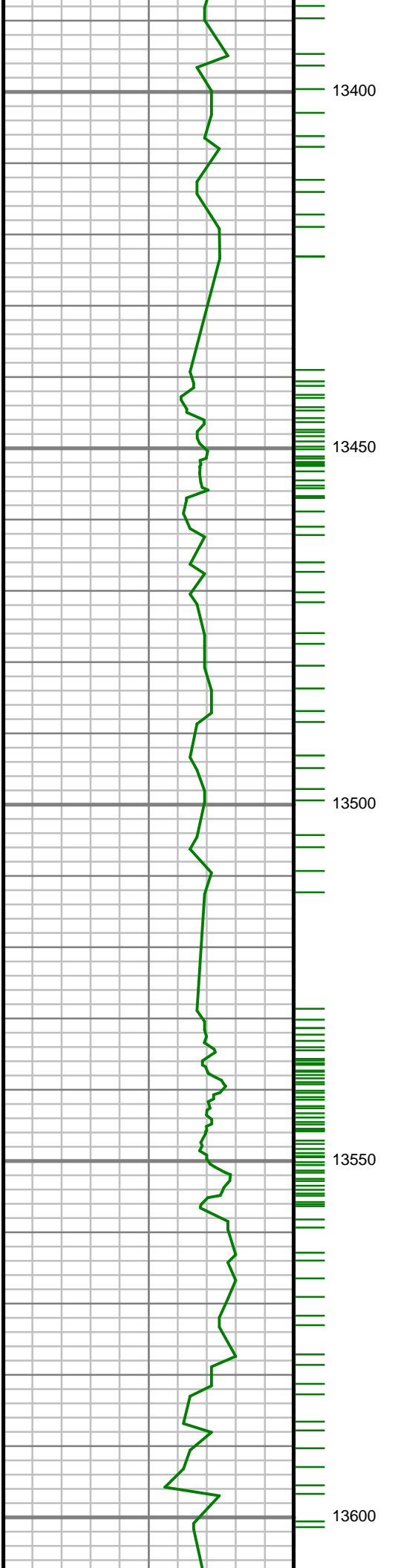
S: 179 MD: 13069.00 ft  
Inc: 88.99 deg Az:  
359.67 deg TVD:  
7405.71 ft

S: 180 MD: 13158.00 ft  
Inc: 88.79 deg Az:  
358.76 deg TVD:  
7407.43 ft



S: 181 MD: 13247.00 ft  
Inc: 89.03 deg Az:  
357.94 deg TVD:  
7409.13 ft

S: 182 MD: 13336.00 ft  
Inc: 88.69 deg Az: 0.02  
deg TVD: 7410.90 ft

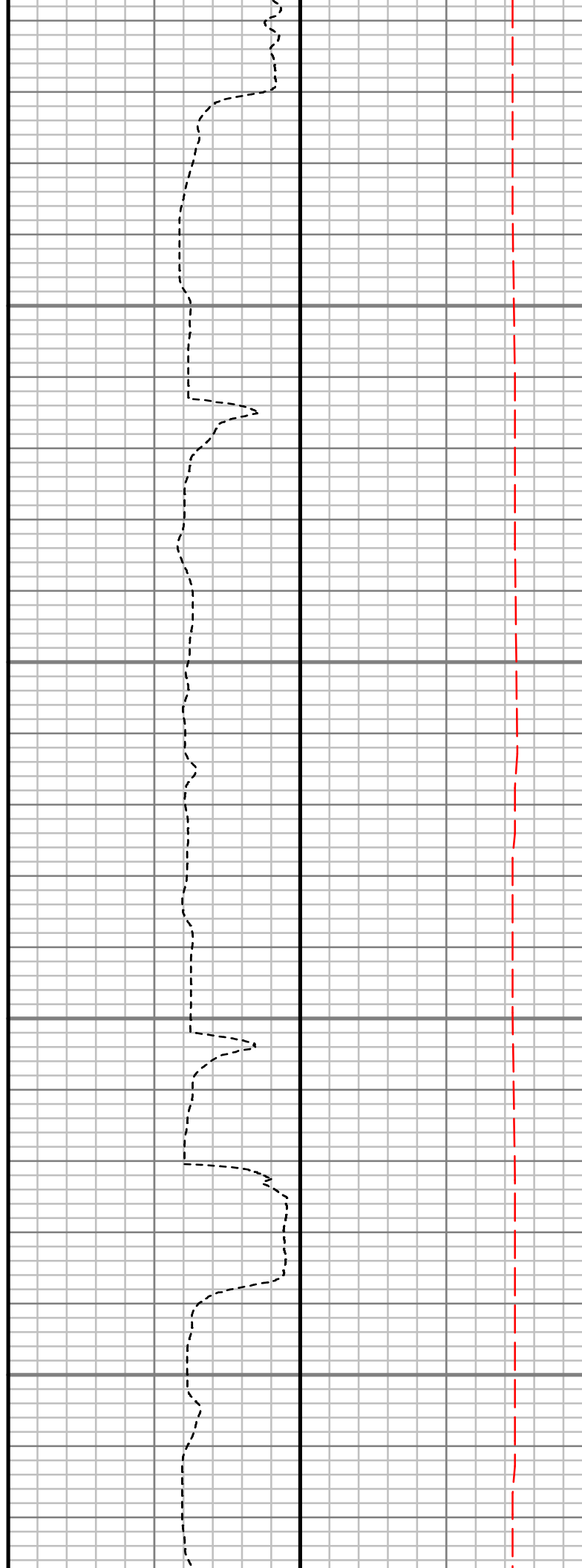
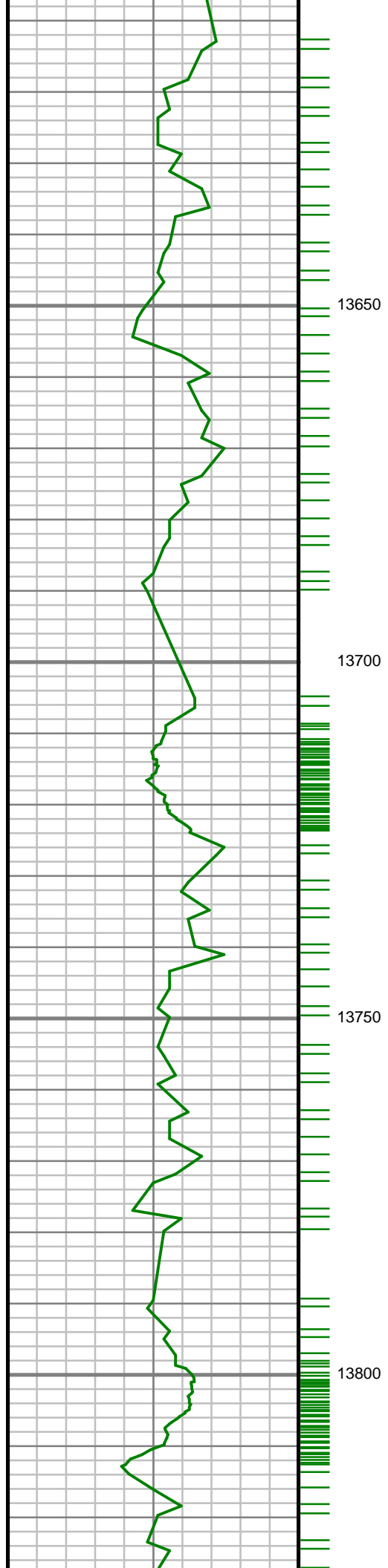


S: 183 MD: 13425.00 ft  
Inc: 88.25 deg Az: 1.10  
deg TVD: 7413.27 ft

S: 184 MD: 13513.00 ft  
Inc: 88.25 deg Az: 1.22  
deg TVD: 7415.96 ft

S: 185 MD: 13602.00 ft  
Inc: 90.40 deg Az: 2.51

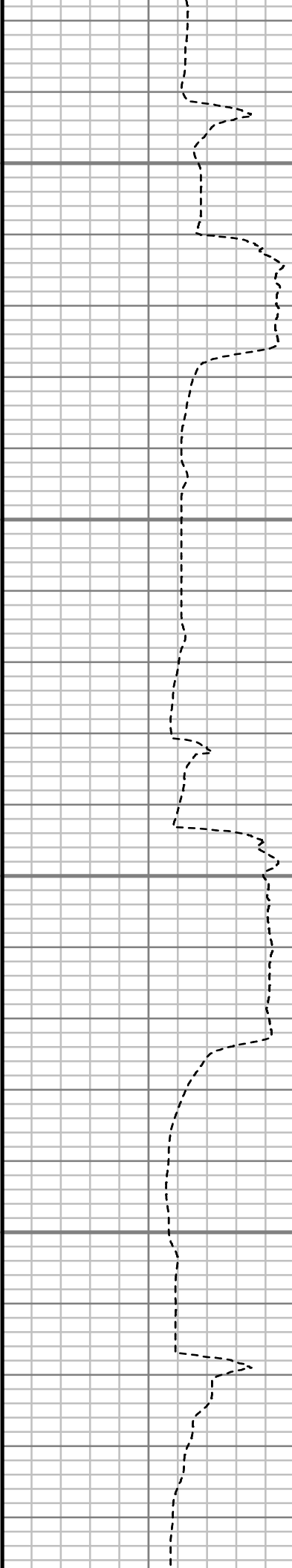
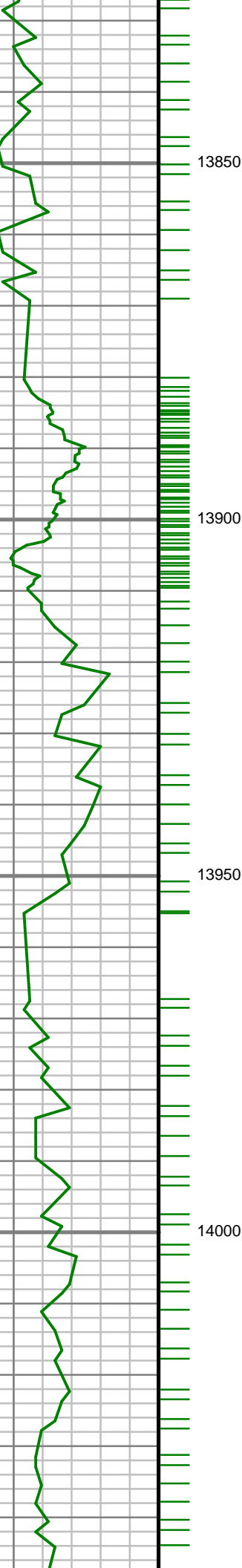
deg TVD: 7417.01 ft



S: 186 MD: 13691.00 ft  
Inc: 91.34 deg Az: 4.52  
deg TVD: 7415.66 ft

S: 187 MD: 13780.00 ft  
Inc: 91.85 deg Az: 2.67  
deg TVD: 7413.18 ft

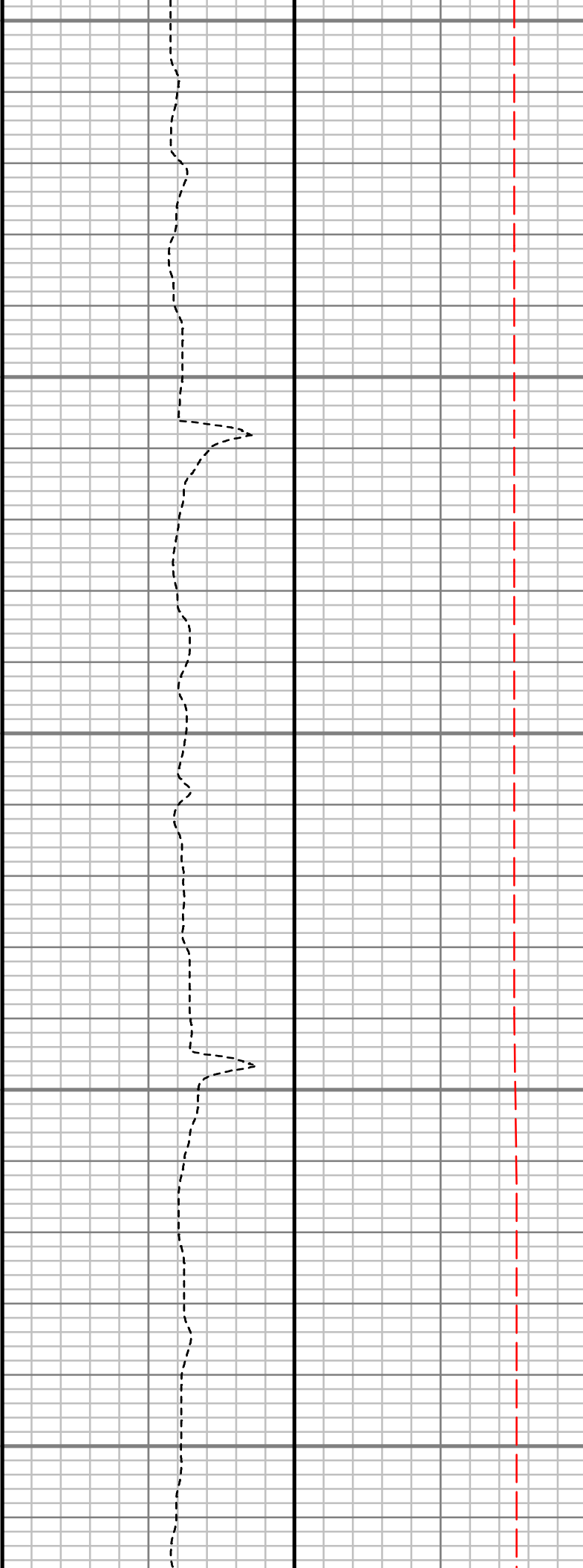
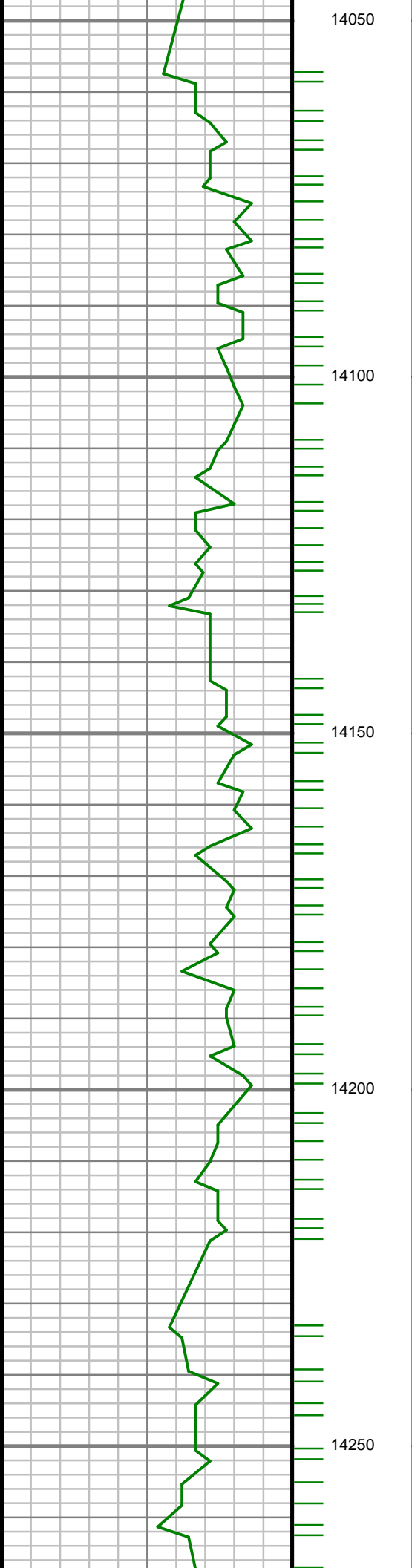




S: 188 MD: 13869.00 ft  
Inc: 91.31 deg Az: 1.00  
deg TVD: 7410.73 ft

S: 189 MD: 13958.00 ft  
Inc: 89.16 deg Az: 0.53  
deg TVD: 7410.36 ft

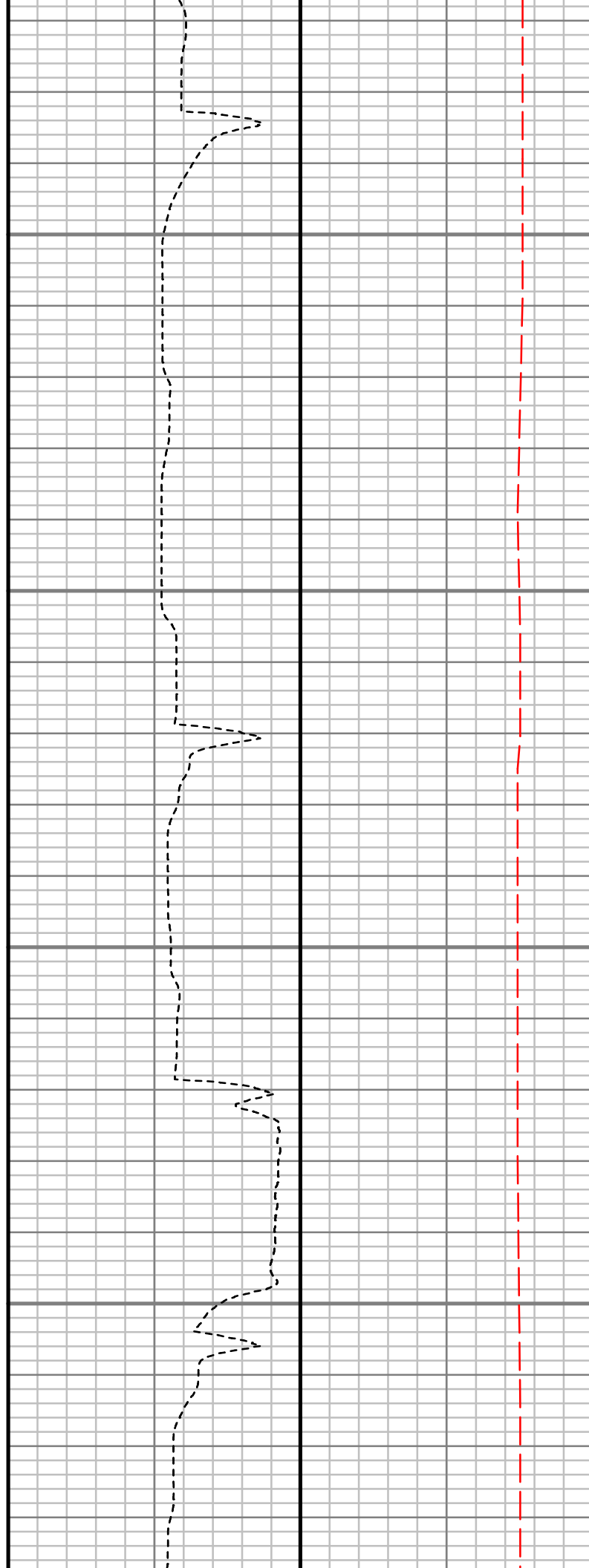
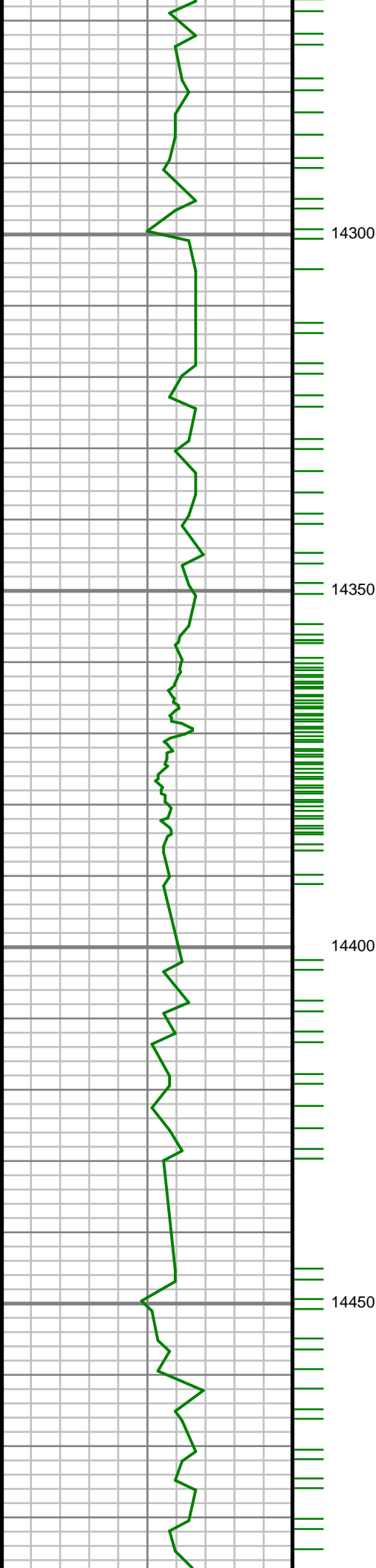
S: 190 MD: 14046.00 ft



S: 190 MD: 14046.00 ft  
Inc: 87.58 deg Az: 0.59  
deg TVD: 7412.87 ft

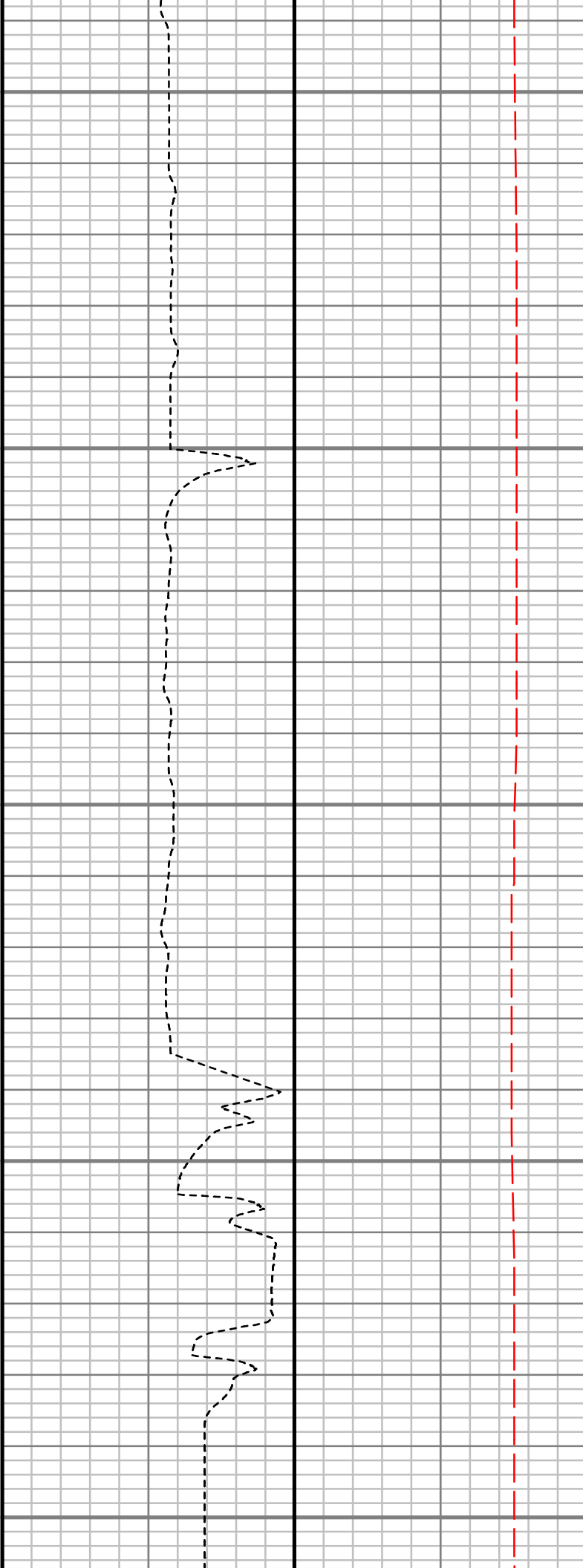
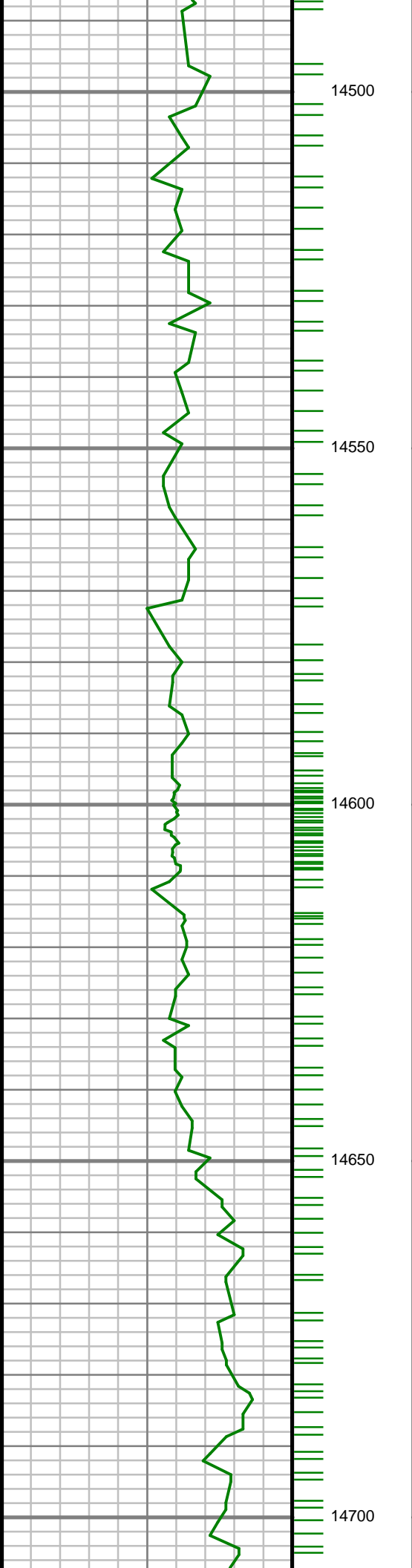
S: 191 MD: 14135.00 ft  
Inc: 88.62 deg Az: 0.65  
deg TVD: 7415.82 ft

S: 192 MD: 14224.00 ft  
Inc: 89.46 deg Az:  
359.83 deg TVD:  
7417.31 ft



S: 193 MD: 14313.00 ft  
Inc: 89.80 deg Az:  
358.76 deg TVD:  
7417.88 ft

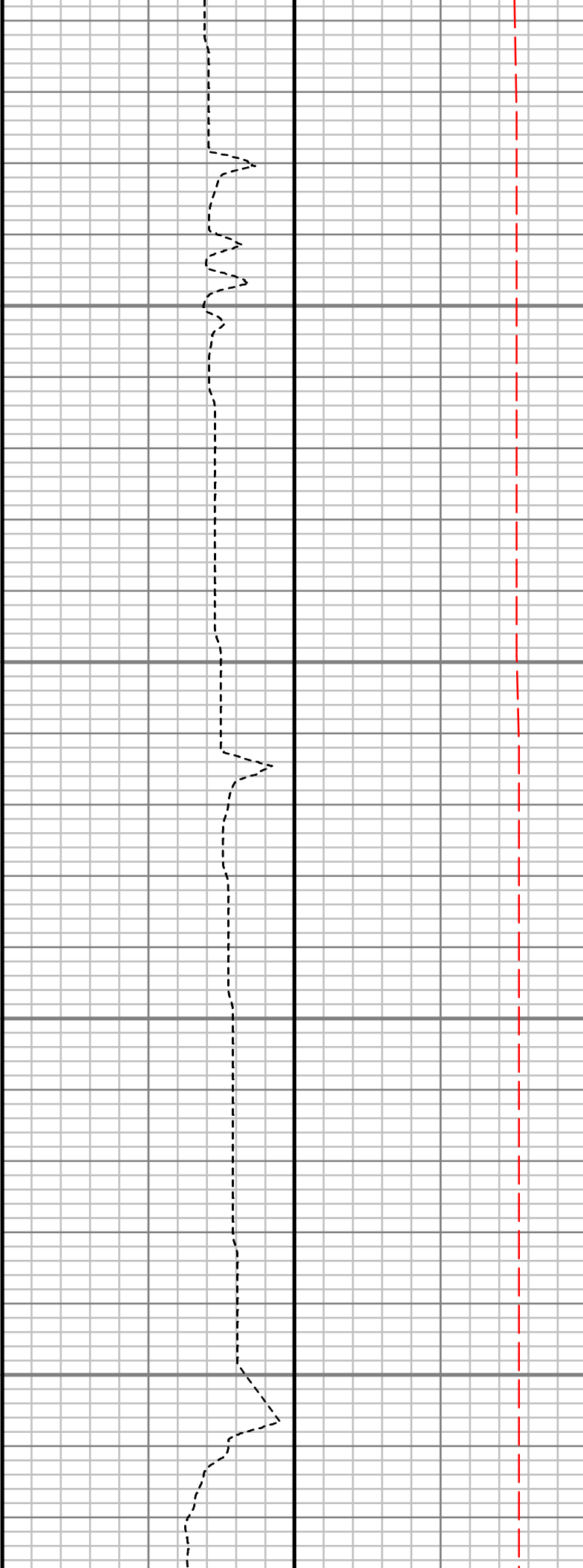
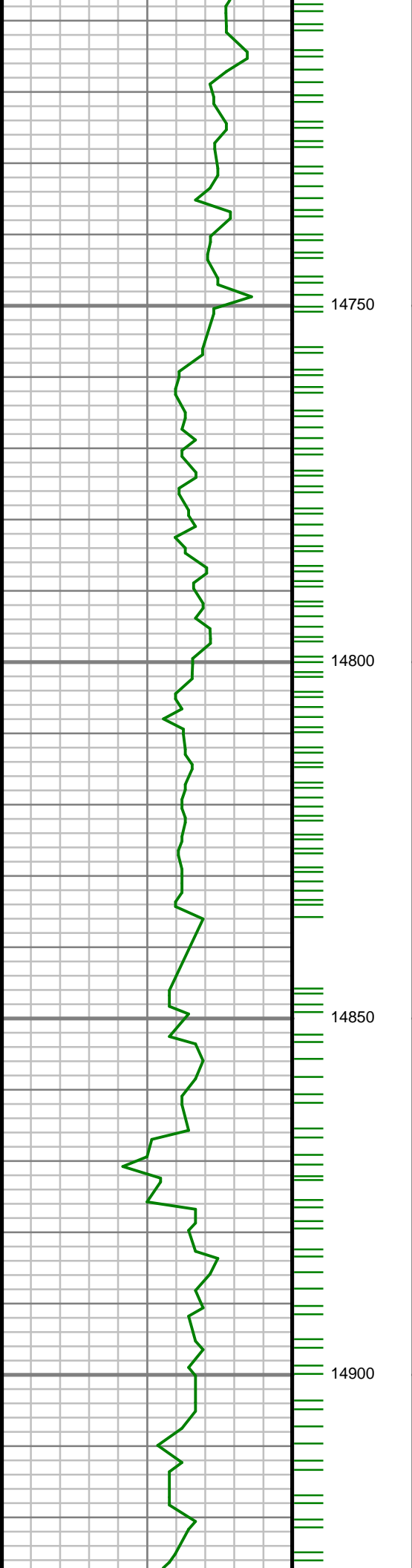
S: 194 MD: 14402.00 ft  
Inc: 90.77 deg Az:  
358.73 deg TVD:  
7417.44 ft



S: 195 MD: 14491.00 ft  
Inc: 90.77 deg Az: 2.80  
deg TVD: 7416.24 ft

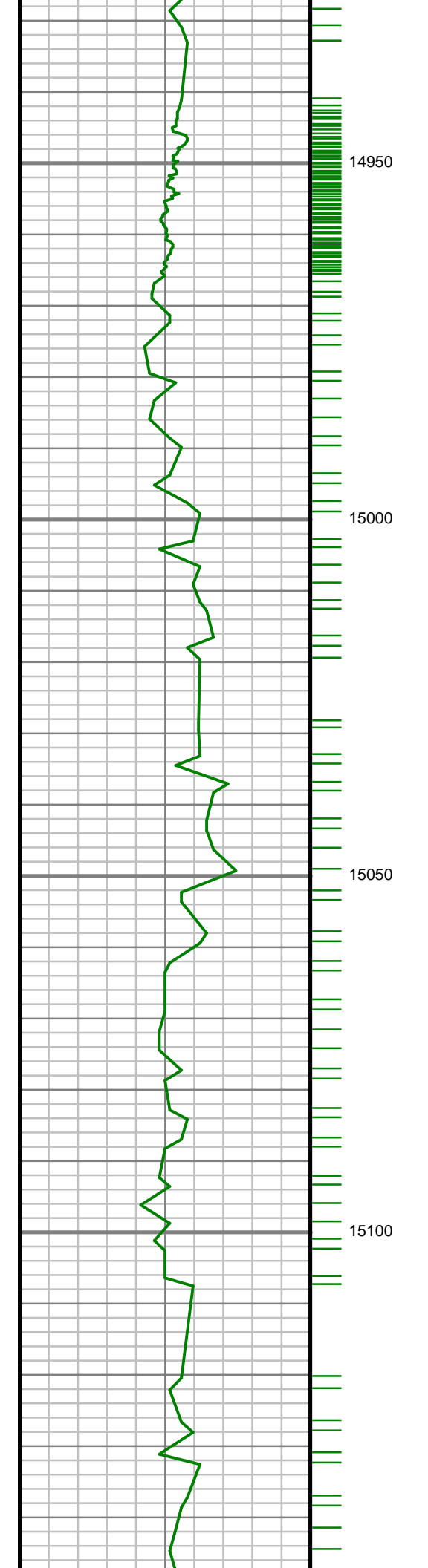
S: 196 MD: 14580.00 ft  
Inc: 91.28 deg Az: 2.55  
deg TVD: 7414.65 ft

S: 197 MD: 14668.00 ft  
Inc: 90.27 deg Az: 2.32  
deg TVD: 7413.46 ft



S: 198 MD: 14757.00 ft  
Inc: 89.66 deg Az: 1.75  
deg TVD: 7413.51 ft

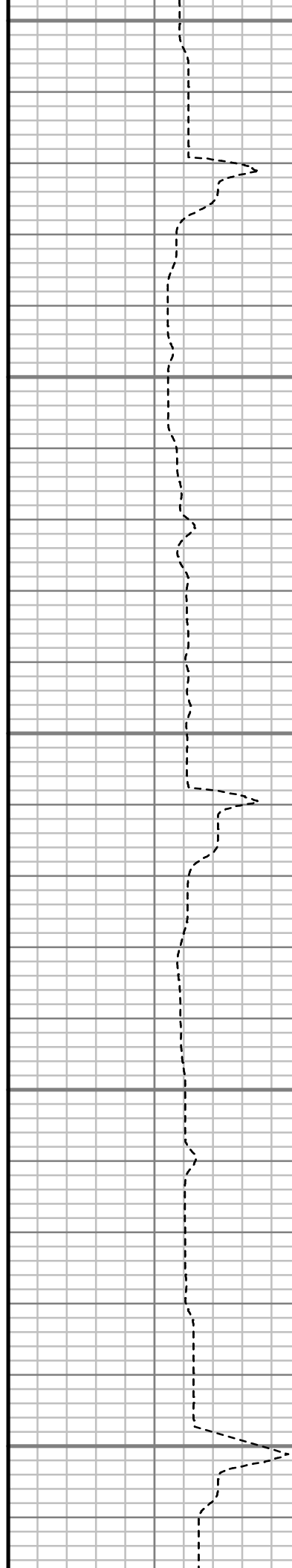
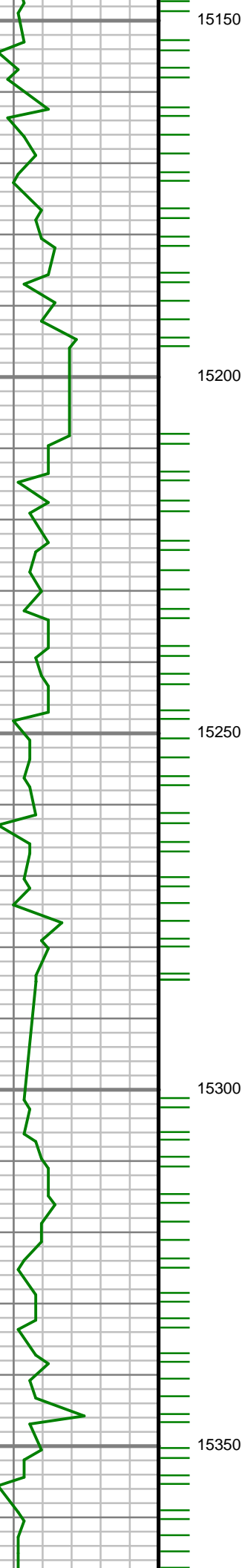
S: 199 MD: 14846.00 ft  
Inc: 90.23 deg Az: 1.12  
deg TVD: 7413.60 ft



S: 200 MD: 14935.00 ft  
Inc: 91.18 deg Az: 0.82  
deg TVD: 7412.51 ft

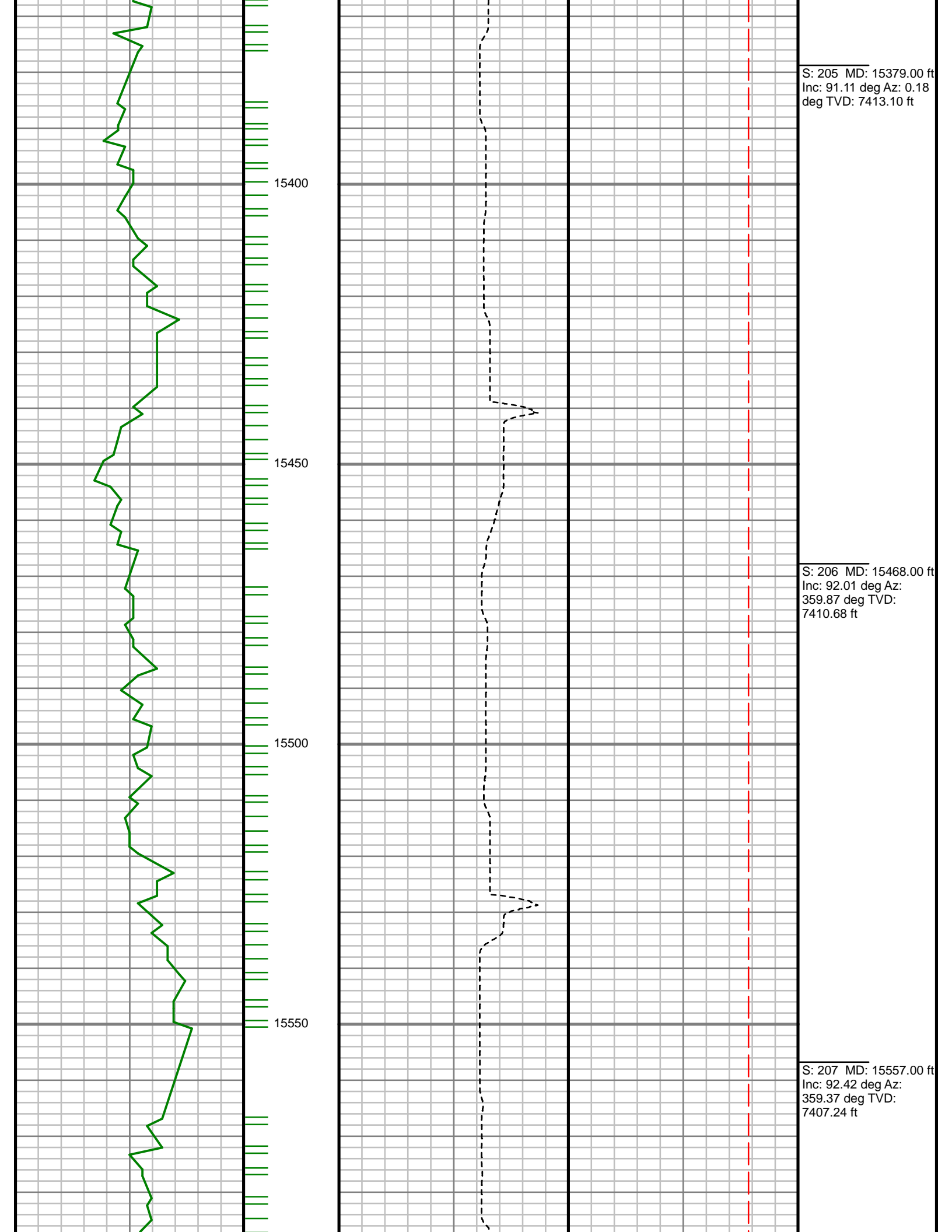
S: 201 MD: 15024.00 ft  
Inc: 89.56 deg Az: 1.68  
deg TVD: 7411.93 ft

S: 202 MD: 15113.00 ft  
Inc: 89.09 deg Az: 1.90  
deg TVD: 7412.98 ft

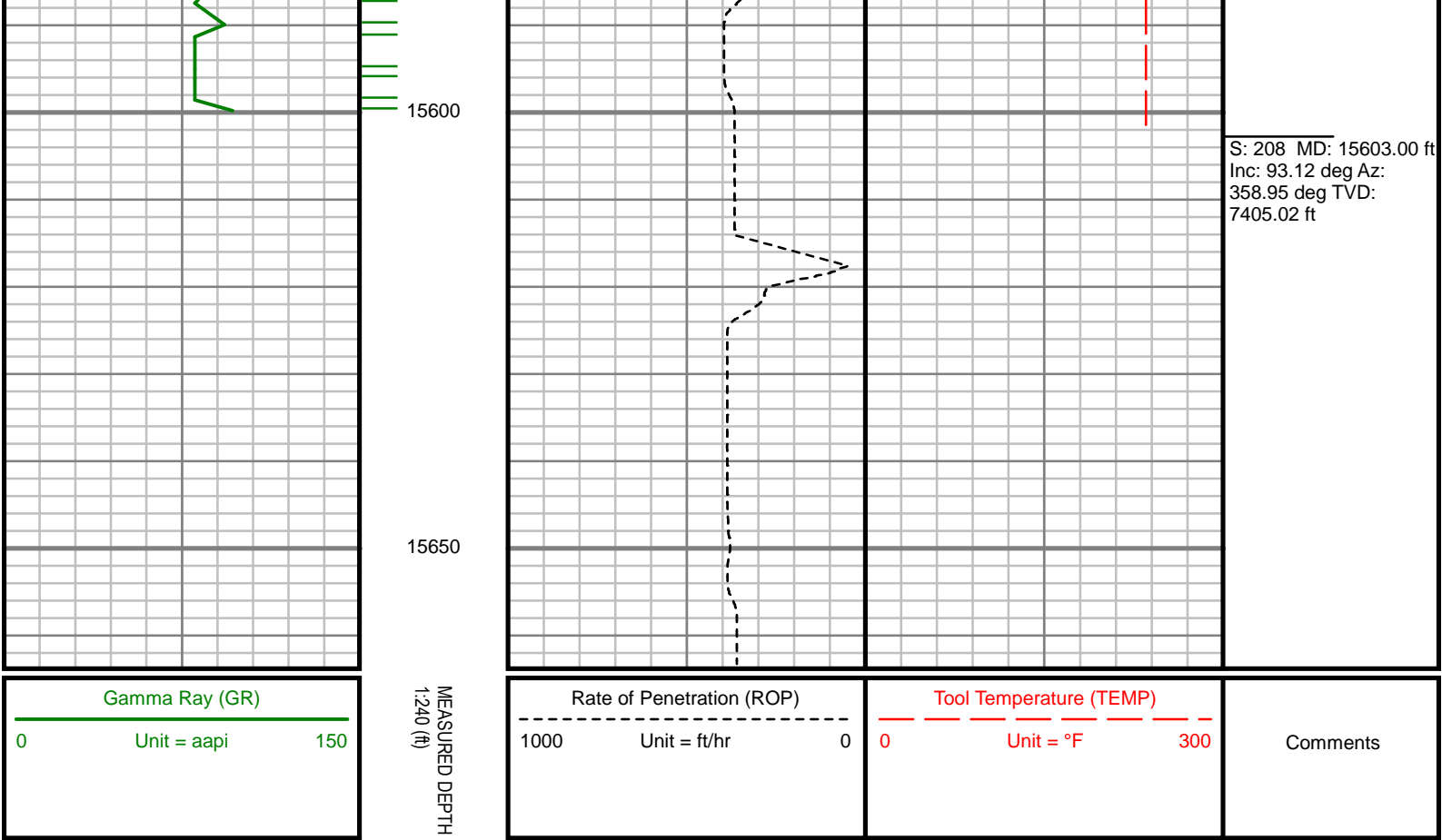



S: 203 MD: 15202.00 ft  
Inc: 89.36 deg Az: 1.54  
deg TVD: 7414.18 ft

S: 204 MD: 15291.00 ft  
Inc: 90.47 deg Az: 0.63  
deg TVD: 7414.31 ft









Scientific Drilling

GAMMA RAY

5" = 100' MD