



5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC
WELL : TEDFORD 30C-28HZ
FIELD : WATTENBERG
COUNTY : WELD
STATE : COLORADO
COUNTRY : U.S.A.
UWI : 05-123-41791

COMPANY : ANADARKO E&P ONSHORE LLC

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UWI : 05-123-41791

WELL LOCATION

LAT:40°6'9.479"N LONG:104°47'14.572"W
N:14564177.69 ft E:1699871.60 ft

SEC:28

TWP: 2N

RANGE: 66W

OTHER SERVICES

DIRECTIONAL
ROP

DEPTH REF. : RKB

REF. HEIGHT : 25.000 ft

RKB to Ground Level

GROUND LEVEL : 4965.000 ft

G.L. to MEAN SEA LEVEL

BOREHOLE RECORD

DEVIATION RECORD

HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
8.5	1906	13381	0 - 23	0	3660
			23 - 0	3660	5172
			0 - 88	5172	8289
			88 - 92	8289	13381

CASING RECORD

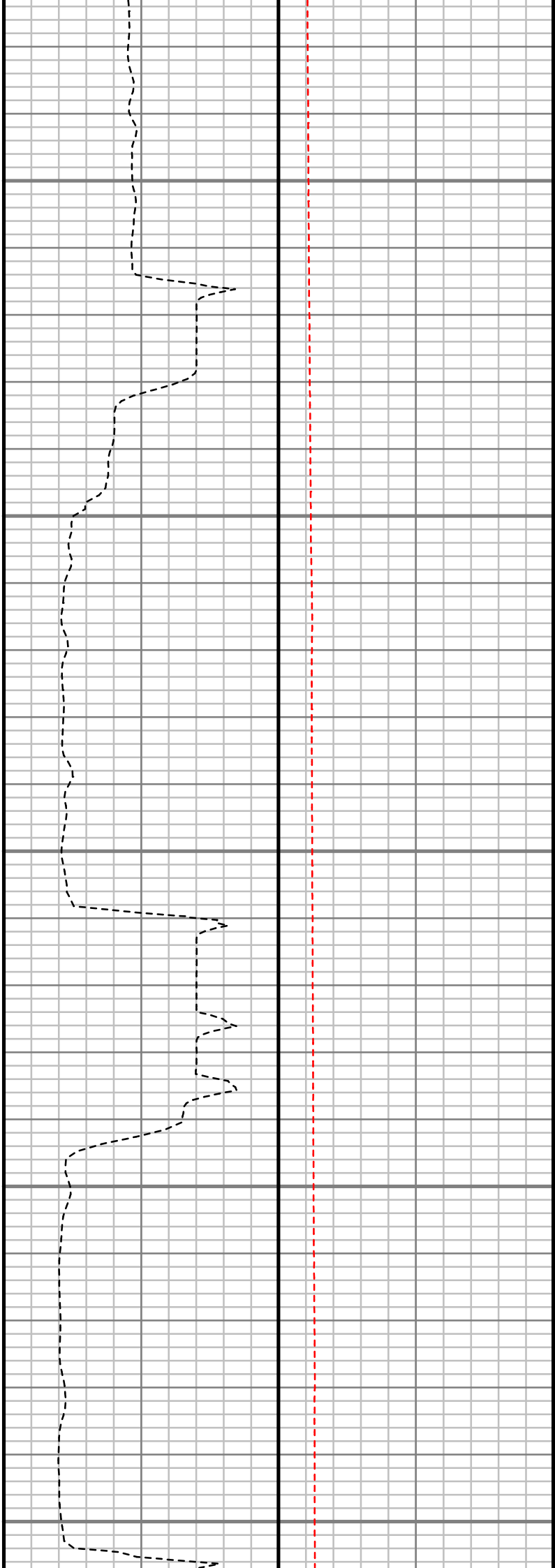
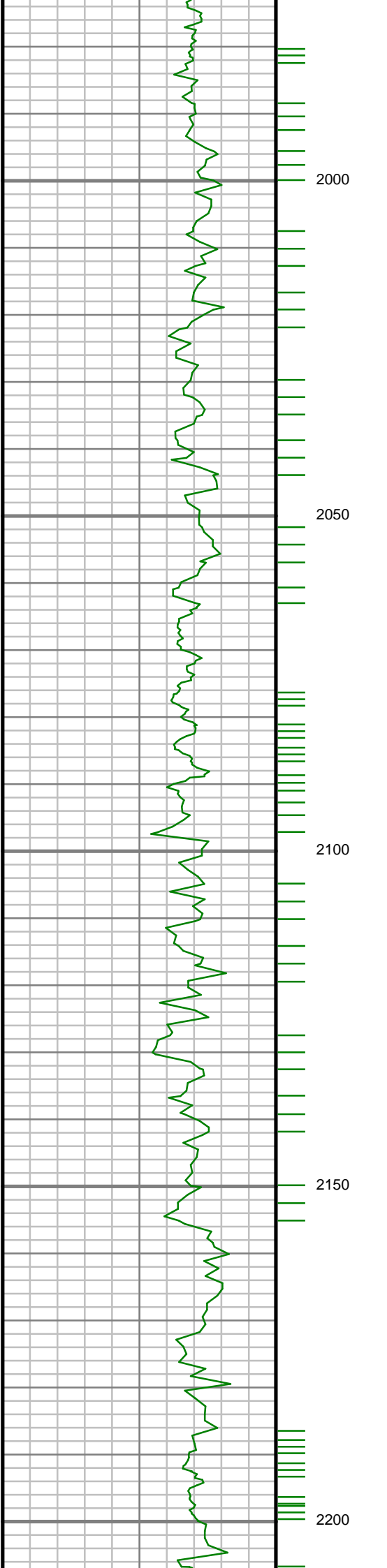
CASING SIZE in	FROM ft	TO ft			
9.625	0	1896			
			DRILLING CO. : H&P		
			RIG : 307		
			LWD UNIT NO. : C-46 CASPERDISTRICT: CASPER		
			SPUD DATE : 08/29/2015		
			LWD START DATE : 08/29/2015	DEPTH : 1906 ft	
			LWD END DATE : 09/01/2015	DEPTH : 13381 ft	
			TOTAL DEPTH : 09/01/2015		

Run Data

RUN NUMBER	1						
START DATE	08/28/2016						
START TIME	1900						
END DATE	09/01/2015						
END TIME	1515						
DEPTH IN (ft)	1906						
DEPTH OUT (ft)	13381						
LOG TOP (ft)	1906						
LOG BOTTOM (ft)	13340						
HOLE SIZE (in)	8.5						
MUD DATA @ (ft)	7622						
MUD TYPE	OIL-BASED						
DENSITY (lb / gal)	9.4						
VISCOSITY (s / qt)	53						
pH	-						
FLUID LOSS (cm3 / 30)	4.6						
SALINITY (ppm)	-						
Rm (ohmm @ deg F)	-						
Rmf (ohmm @ deg F)	-						
MAX TEMP (deg F)	226						
Rm @ MAX TEMP (ohmm)	-						
LWD ENGINEER #1	M. SCHUSTER						
LWD ENGINEER #2	C. COLLINS						
LWD ENGINEER #3	-						
LOG WITNESS #1	J. MORGAN						
LOG WITNESS #2	S. SADLE						

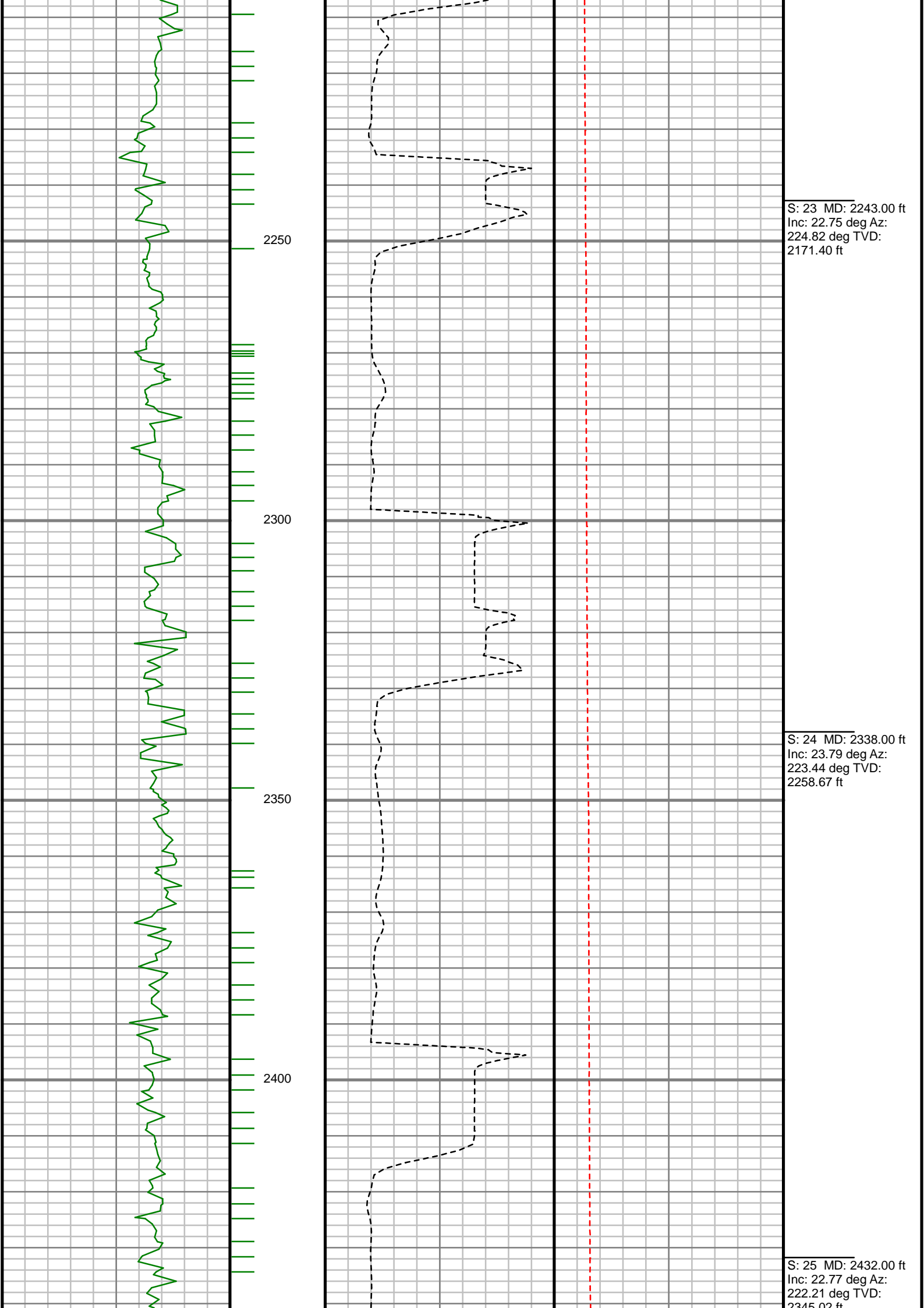
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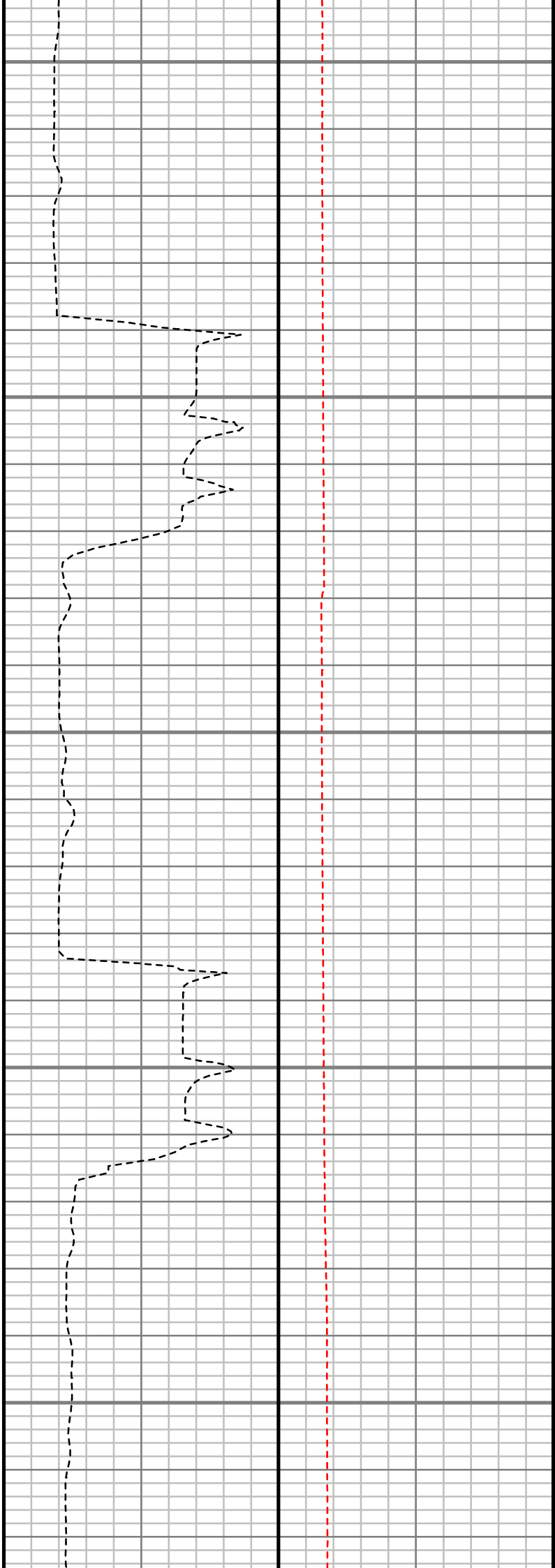
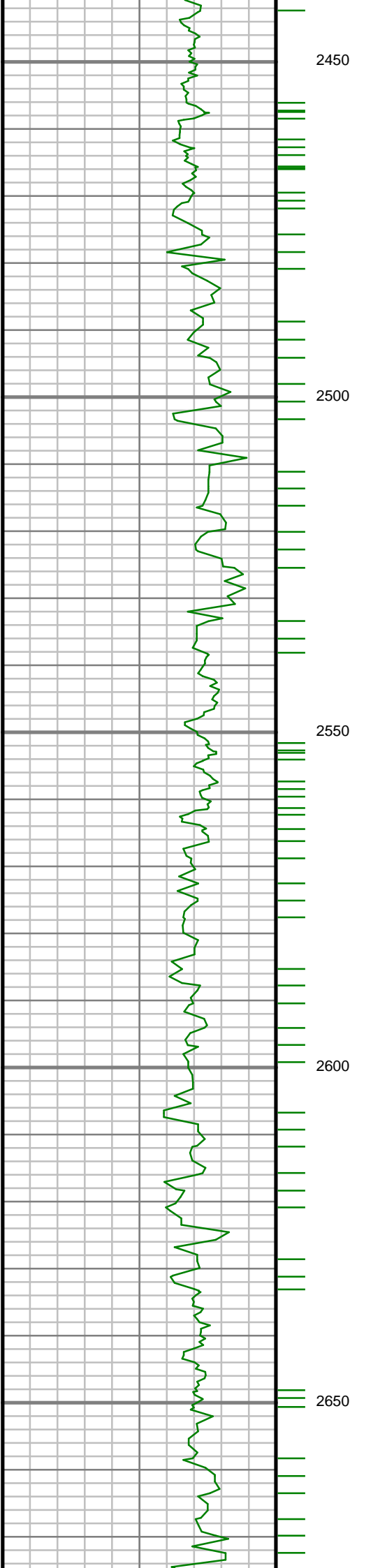
ANADARKO E&P ONSHORE LLC TEDFORD 30C-28HZ WATTENBERG FIELD WELD COUNTY, COLORADO 05-123-41791			
Gamma Ray (GR) Unit = aapi	MEASURED DEPTH 1:240 (ft)	Rate of Penetration (ROP) Unit = ft/hr	Tool Temperature (T-TEMP) Unit = °F
0	150	1000	0
100	200	100	200
<p>S: 20 MD: 1959.00 ft Inc: 22.54 deg Az: 225.77 deg TVD: 1908.61 ft</p>			



S: 21 MD: 2054.00 ft
Inc: 21.57 deg Az:
224.37 deg TVD:
1996.66 ft

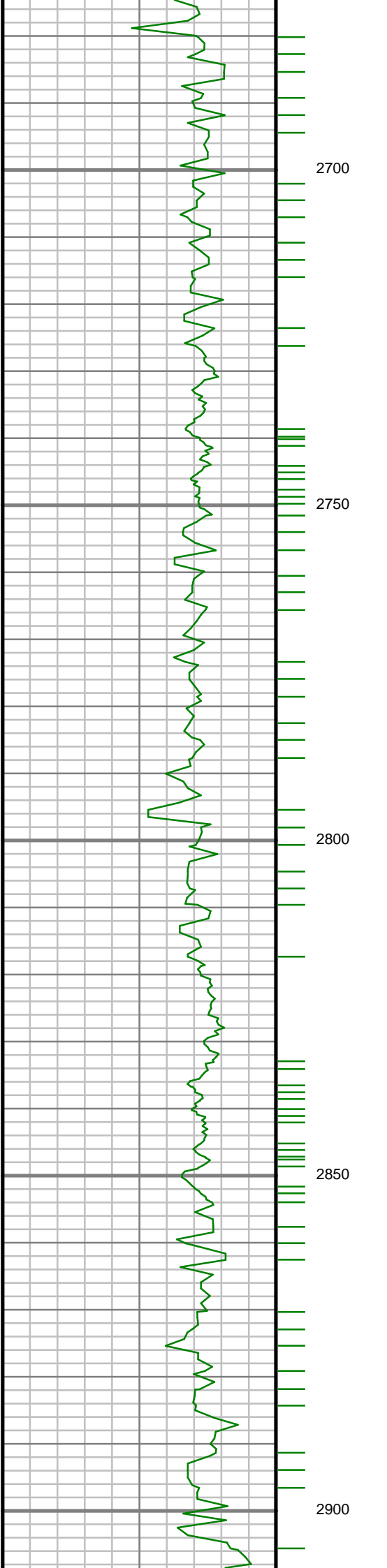
S: 22 MD: 2149.00 ft
Inc: 22.62 deg Az:
225.93 deg TVD:
2084.68 ft





S: 26 MD: 2526.00 ft
Inc: 22.50 deg Az:
224.28 deg TVD:
2431.78 ft

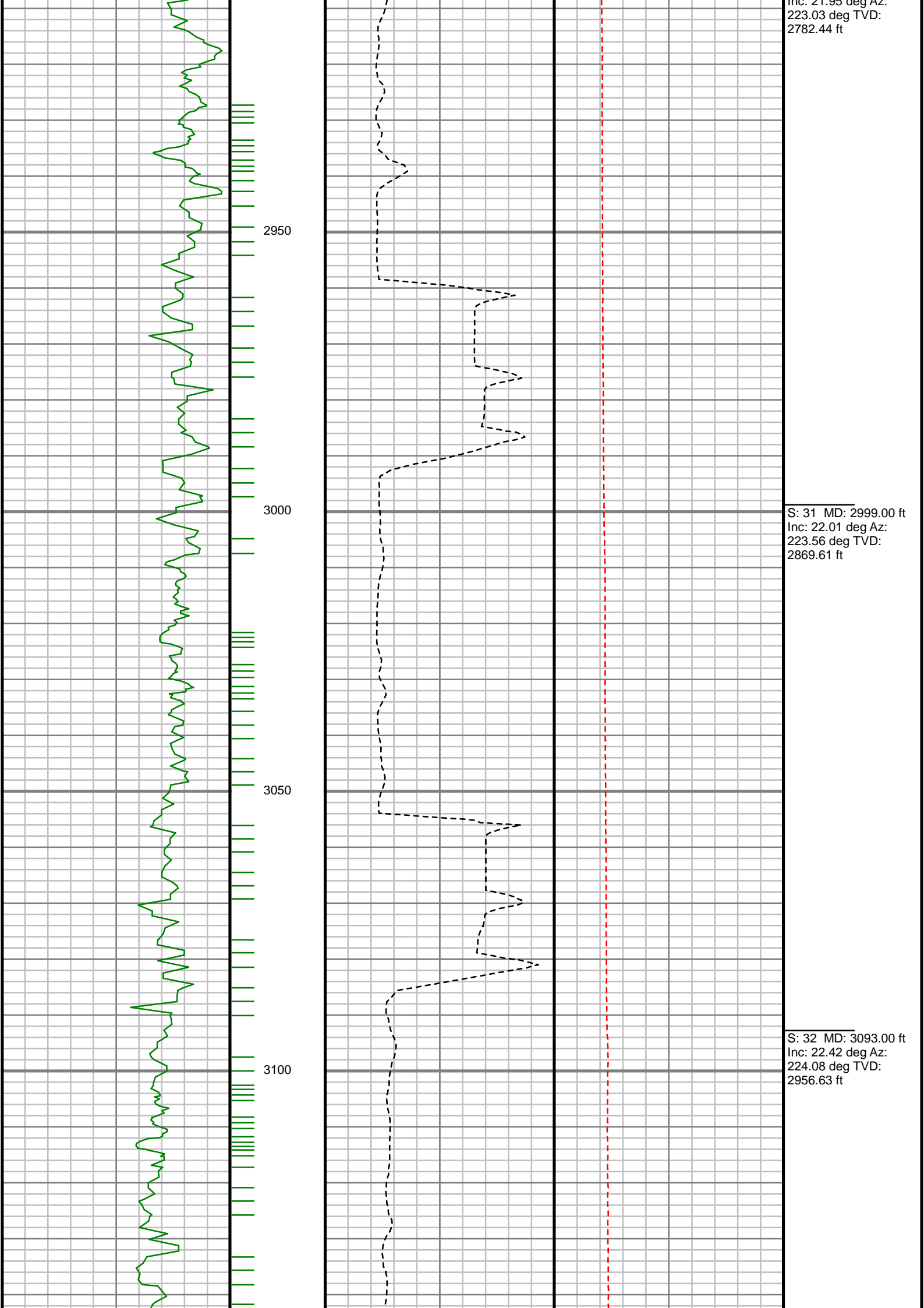
S: 27 MD: 2621.00 ft
Inc: 23.45 deg Az:
224.18 deg TVD:
2519.25 ft



S: 28 MD: 2715.00 ft
Inc: 21.92 deg Az:
222.86 deg TVD:
2605.97 ft

S: 29 MD: 2810.00 ft
Inc: 21.57 deg Az:
221.79 deg TVD:
2694.21 ft

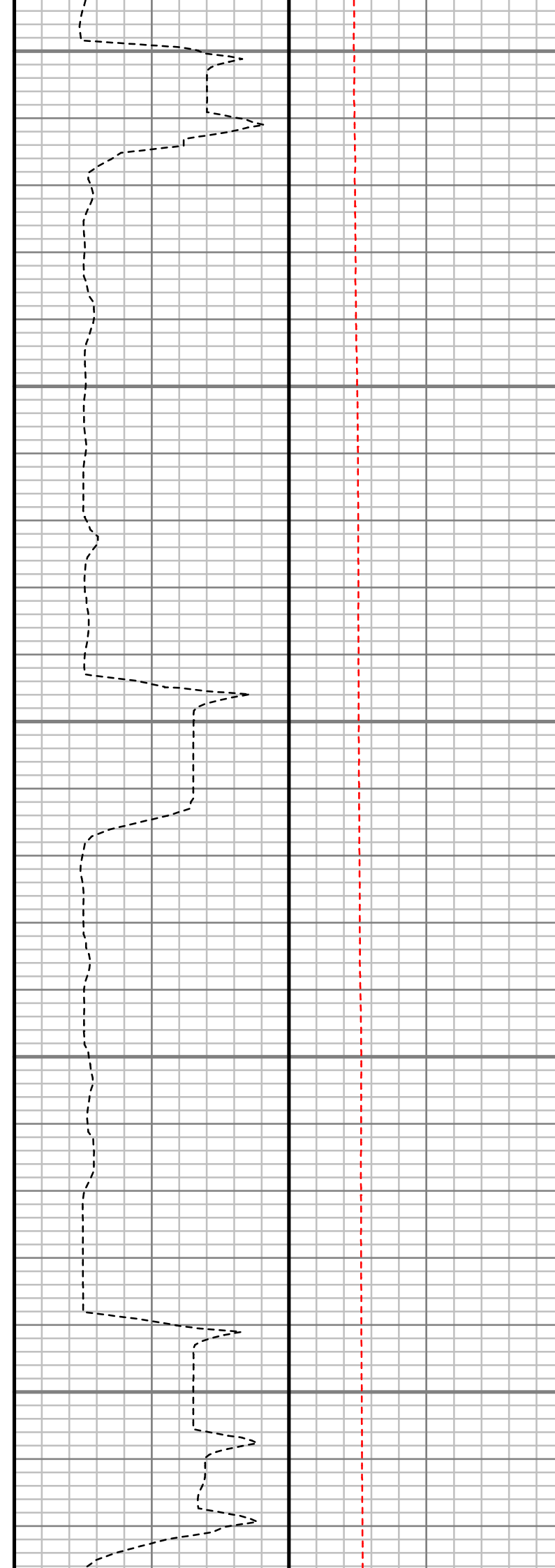
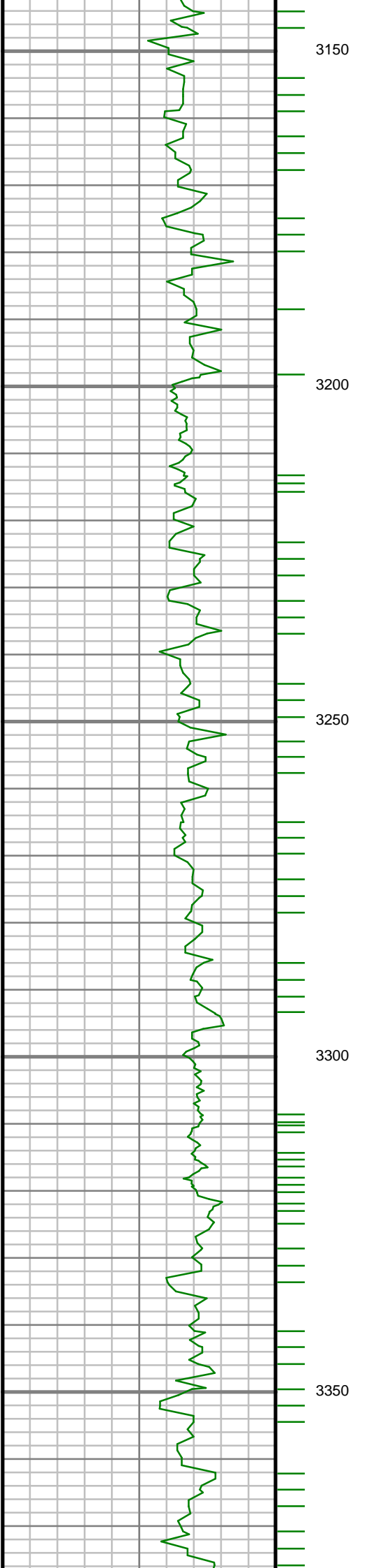
S: 30 MD: 2905.00 ft
Inc: 21.05 deg Az:



Inc: 21.95 deg Az:
223.03 deg TVD:
2782.44 ft

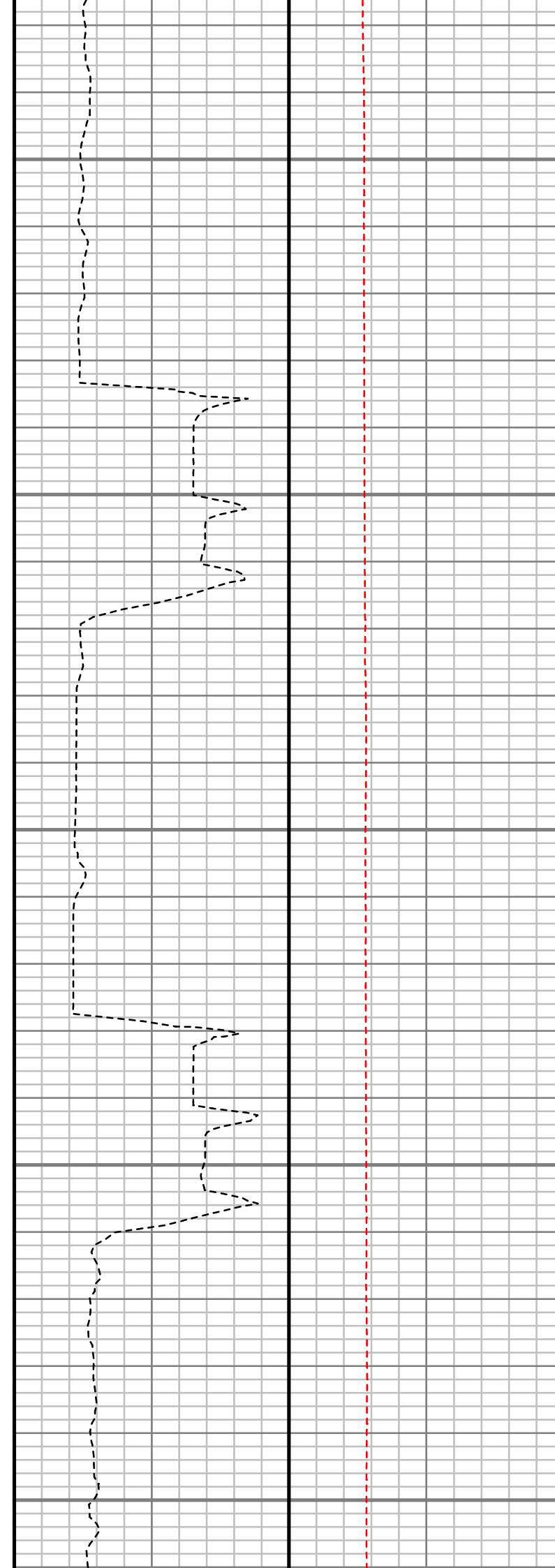
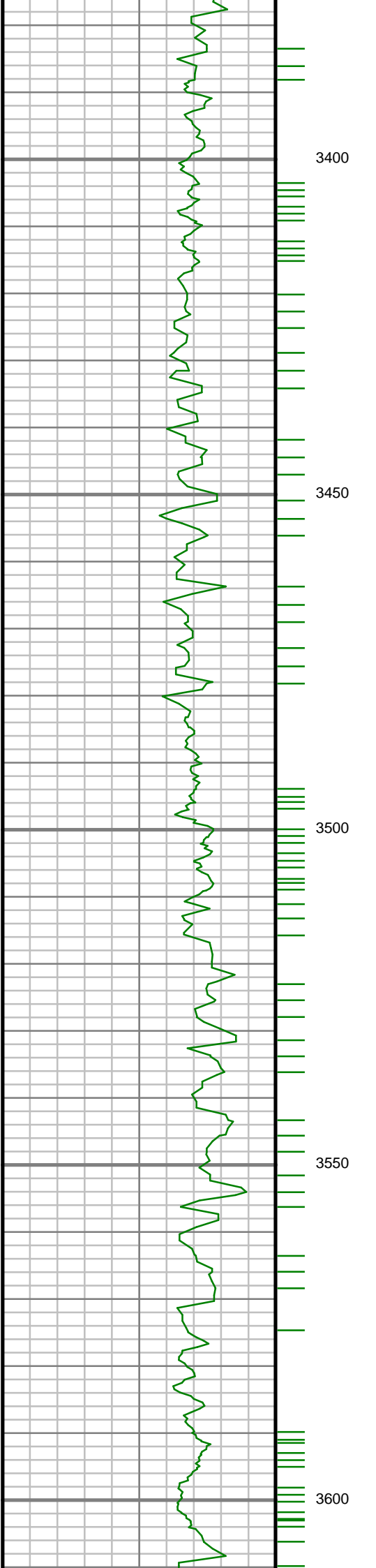
S: 31 MD: 2999.00 ft
Inc: 22.01 deg Az:
223.56 deg TVD:
2869.61 ft

S: 32 MD: 3093.00 ft
Inc: 22.42 deg Az:
224.08 deg TVD:
2956.63 ft



S: 33 MD: 3188.00 ft
Inc: 23.71 deg Az:
221.58 deg TVD:
3044.04 ft

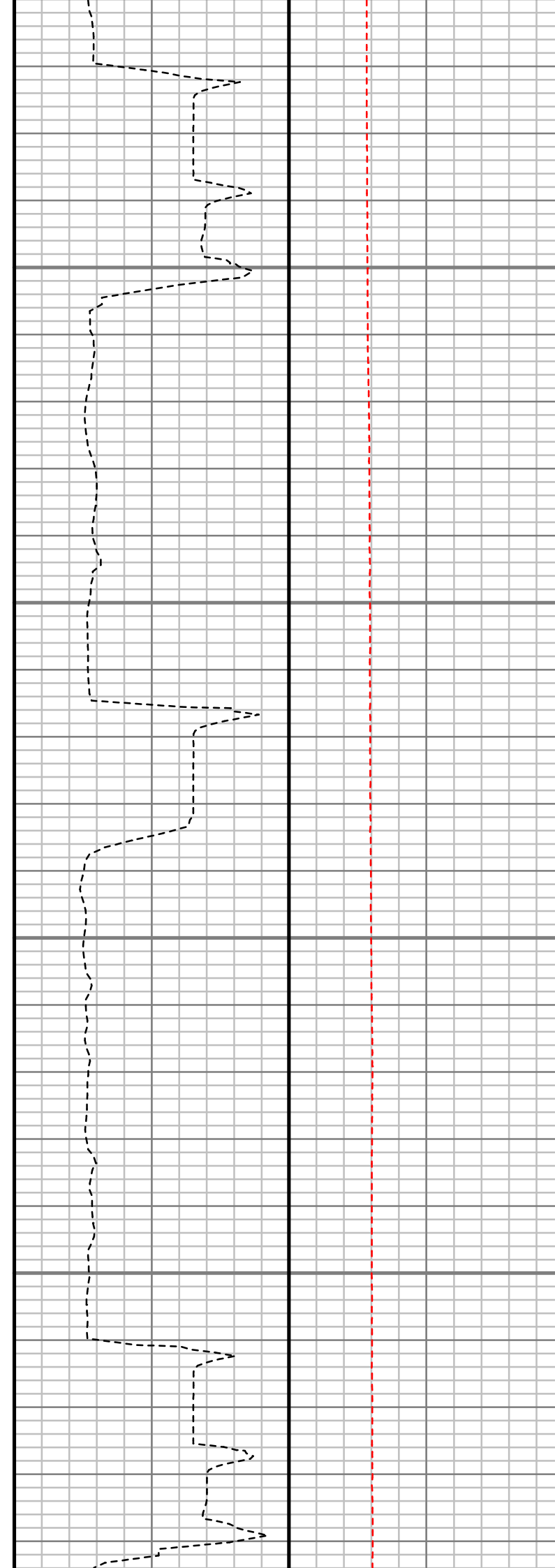
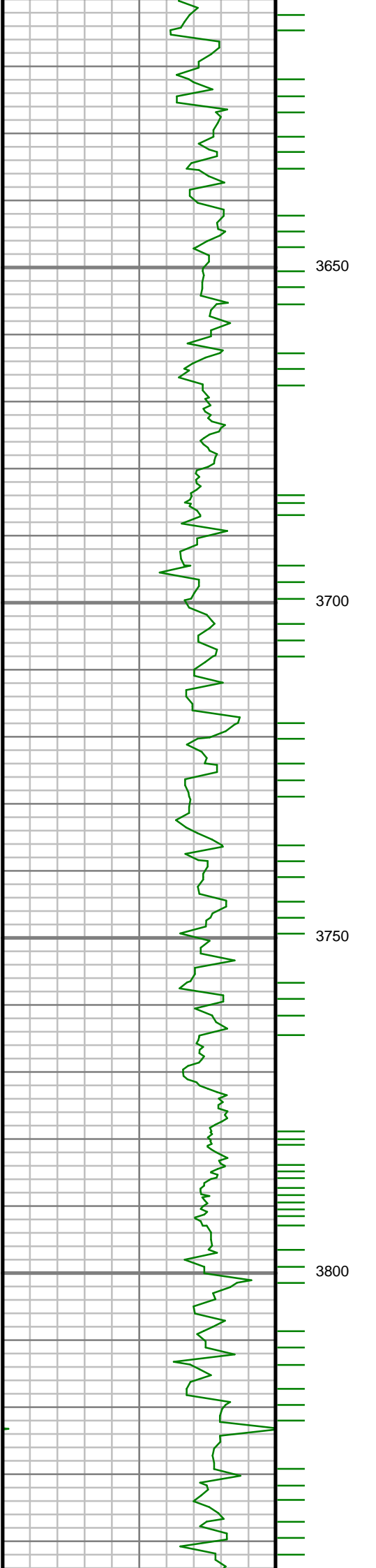
S: 34 MD: 3282.00 ft
Inc: 22.01 deg Az:
221.24 deg TVD:
3130.65 ft



S: 35 MD: 3377.00 ft
Inc: 22.51 deg Az:
221.09 deg TVD:
3218.57 ft

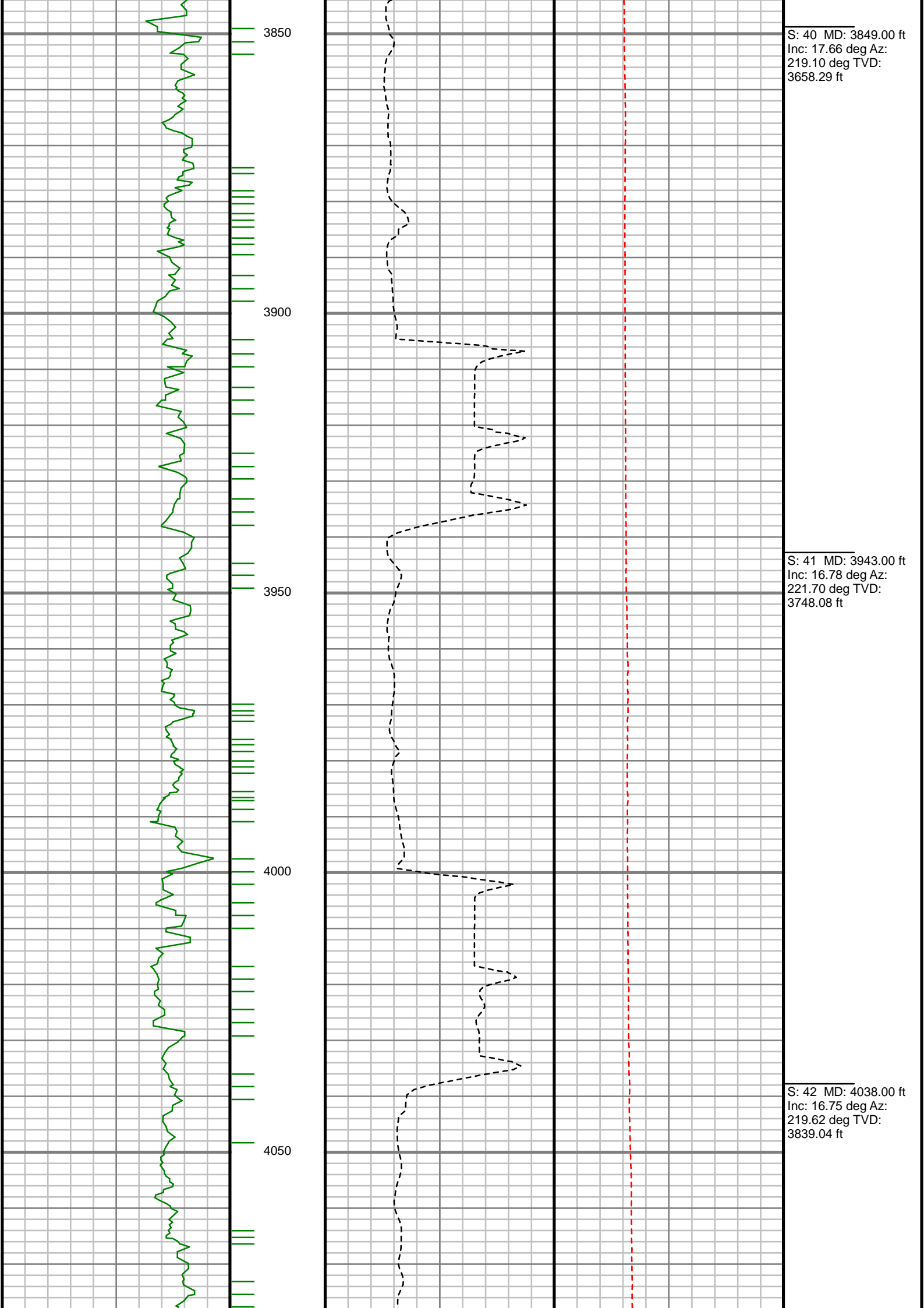
S: 36 MD: 3471.00 ft
Inc: 22.44 deg Az:
218.37 deg TVD:
3305.43 ft

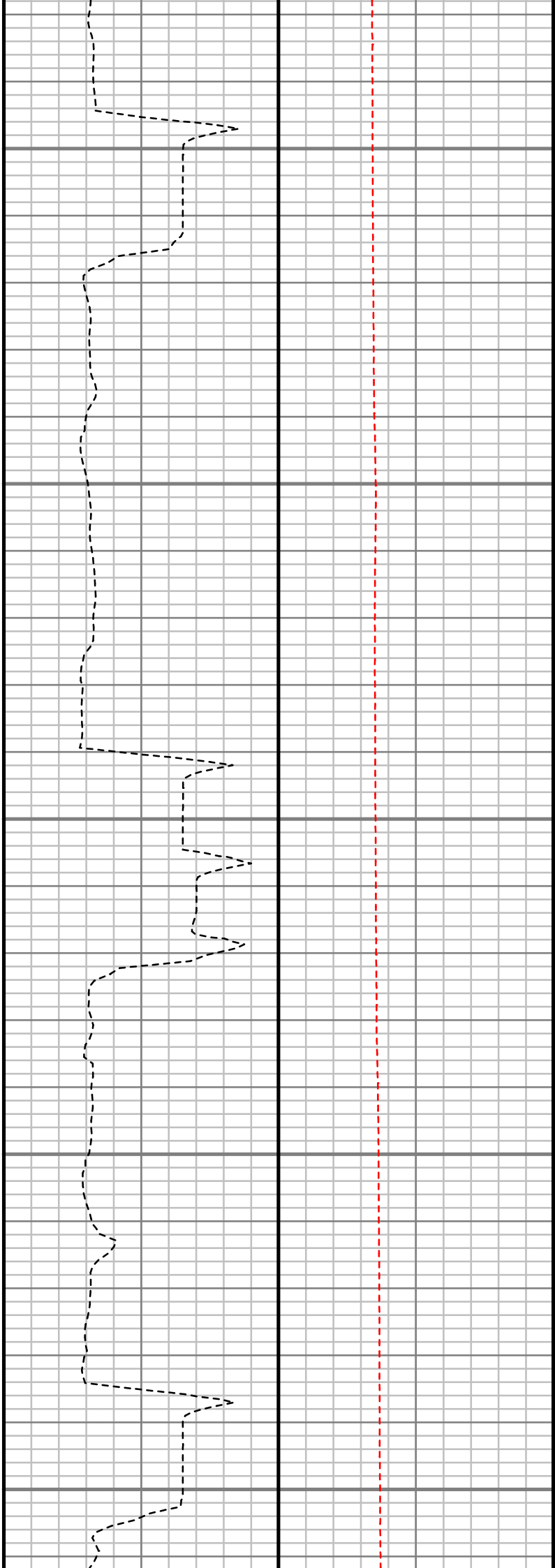
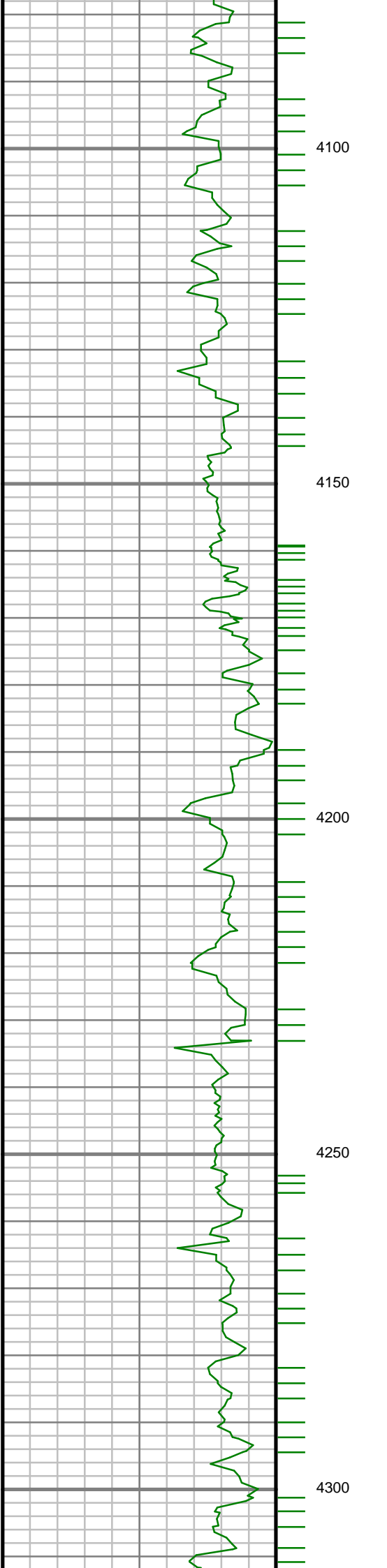
S: 37 MD: 3566.00 ft
Inc: 22.05 deg Az:
219.78 deg TVD:
3393.36 ft



S: 38 MD: 3660.00 ft
Inc: 22.46 deg Az:
220.56 deg TVD:
3480.36 ft

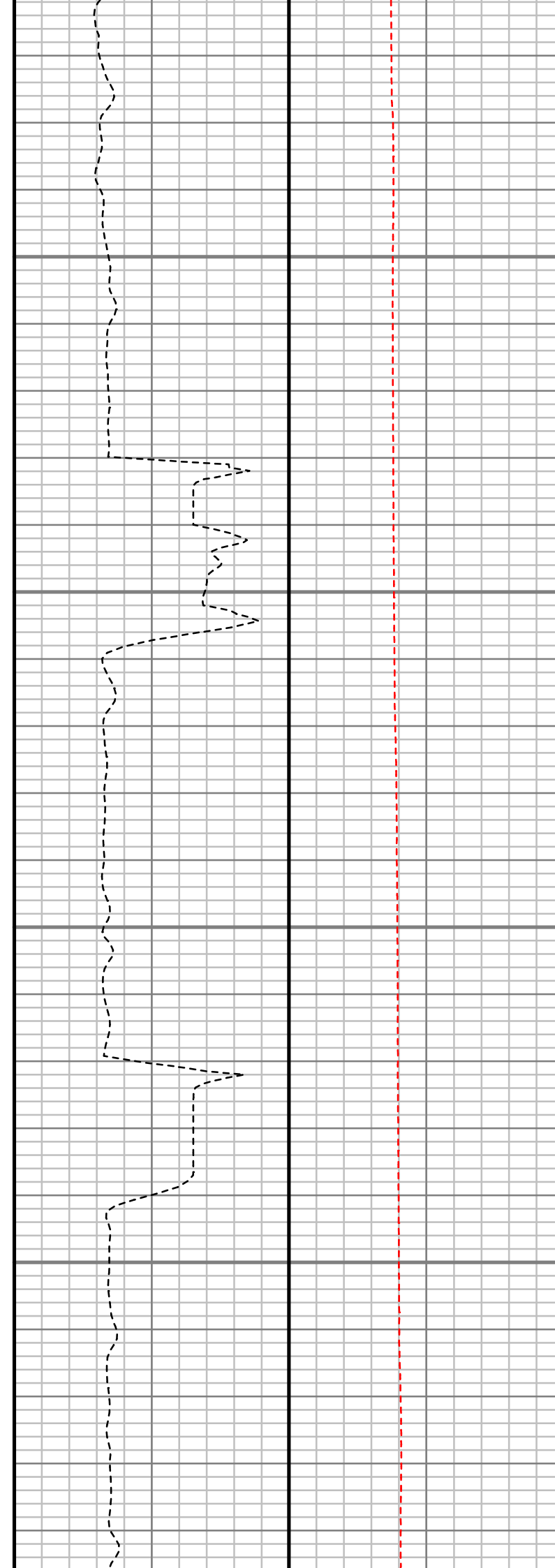
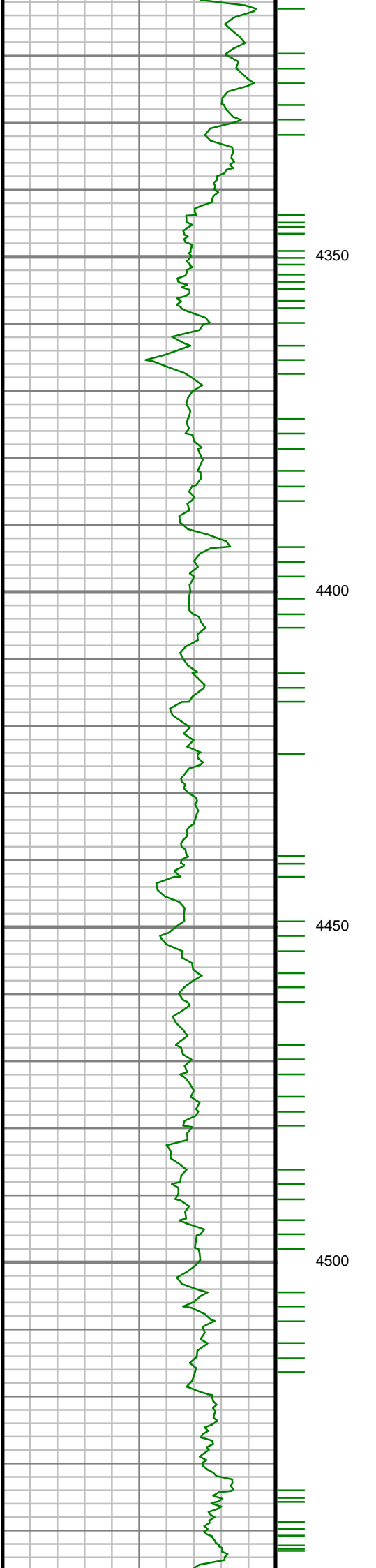
S: 39 MD: 3755.00 ft
Inc: 19.25 deg Az:
217.41 deg TVD:
3569.13 ft





S: 43 MD: 4132.00 ft
Inc: 15.45 deg Az:
218.32 deg TVD:
3929.35 ft

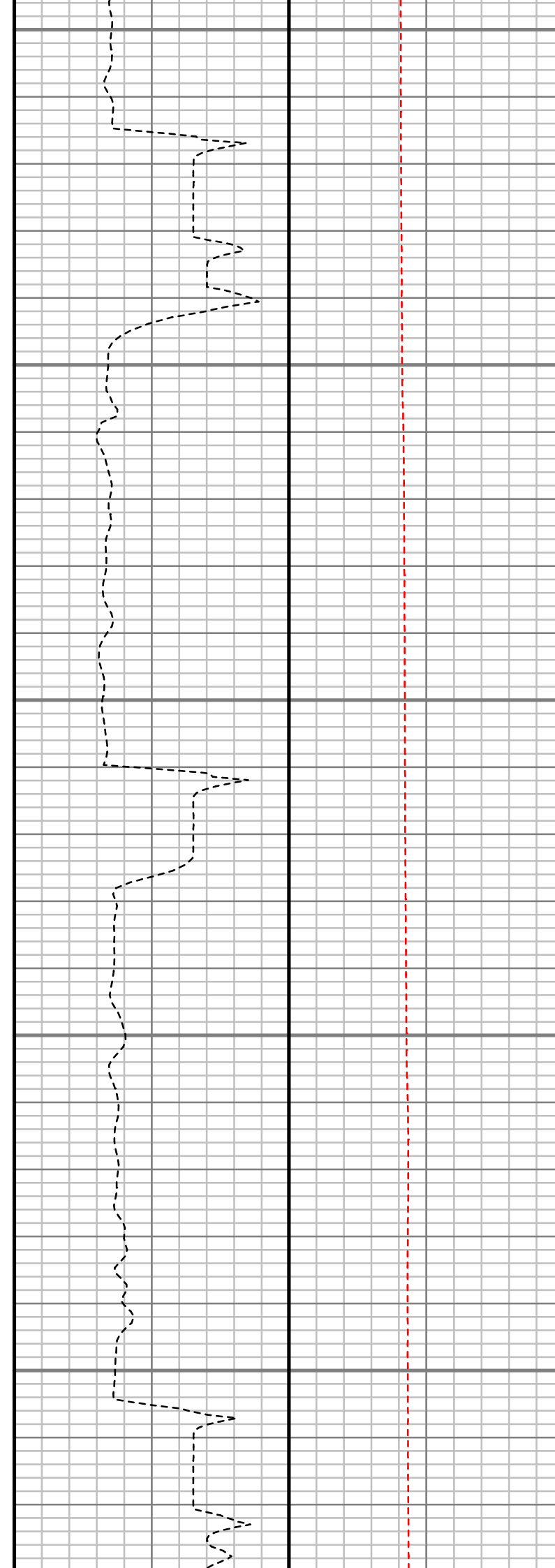
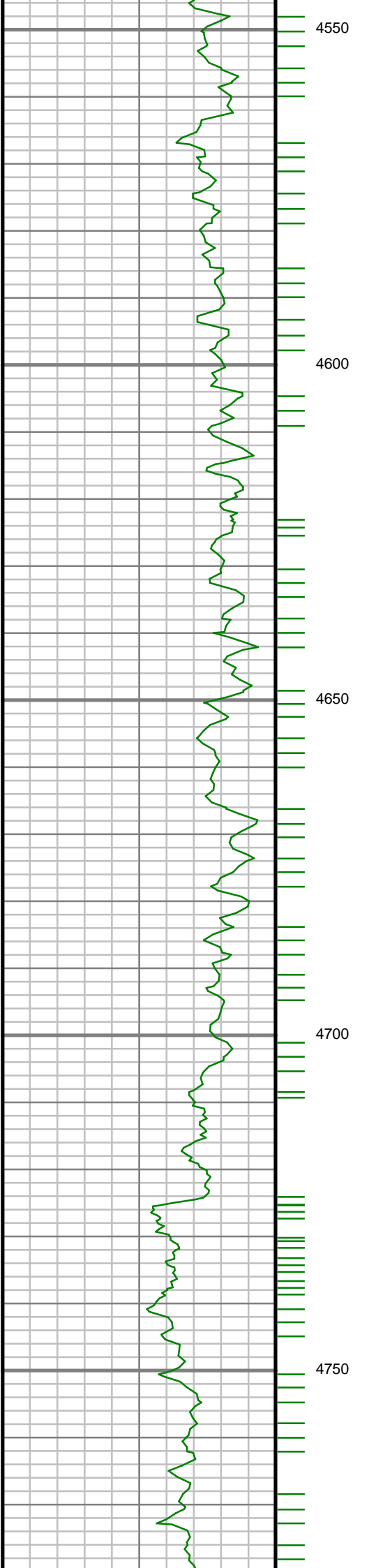
S: 44 MD: 4227.00 ft
Inc: 14.10 deg Az:
222.93 deg TVD:
4021.21 ft



S: 45 MD: 4321.00 ft
Inc: 11.70 deg Az:
221.69 deg TVD:
4112.83 ft

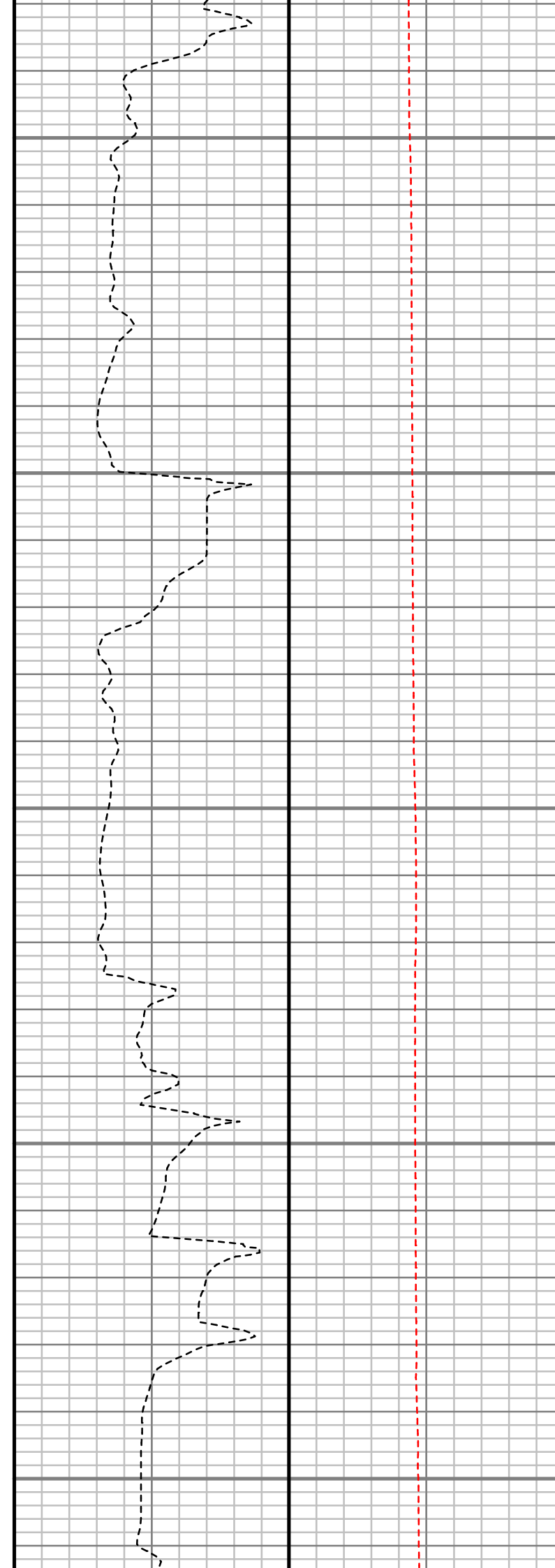
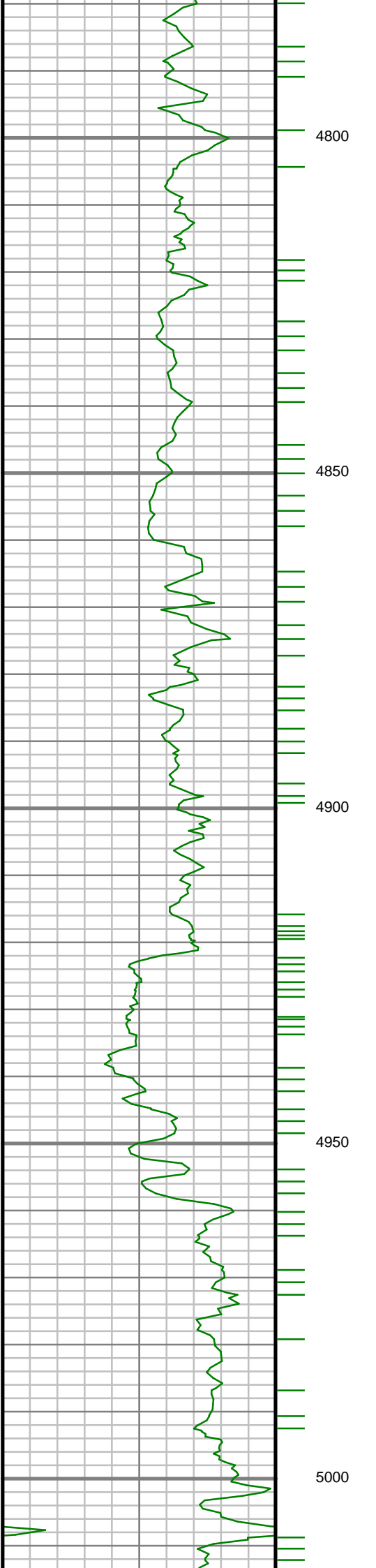
S: 46 MD: 4416.00 ft
Inc: 11.93 deg Az:
226.33 deg TVD:
4205.83 ft

S: 47 MD: 4510.00 ft
Inc: 11.10 deg Az:
224.76 deg TVD:
4297.93 ft



S: 48 MD: 4605.00 ft
Inc: 8.40 deg Az:
230.32 deg TVD:
4391.55 ft

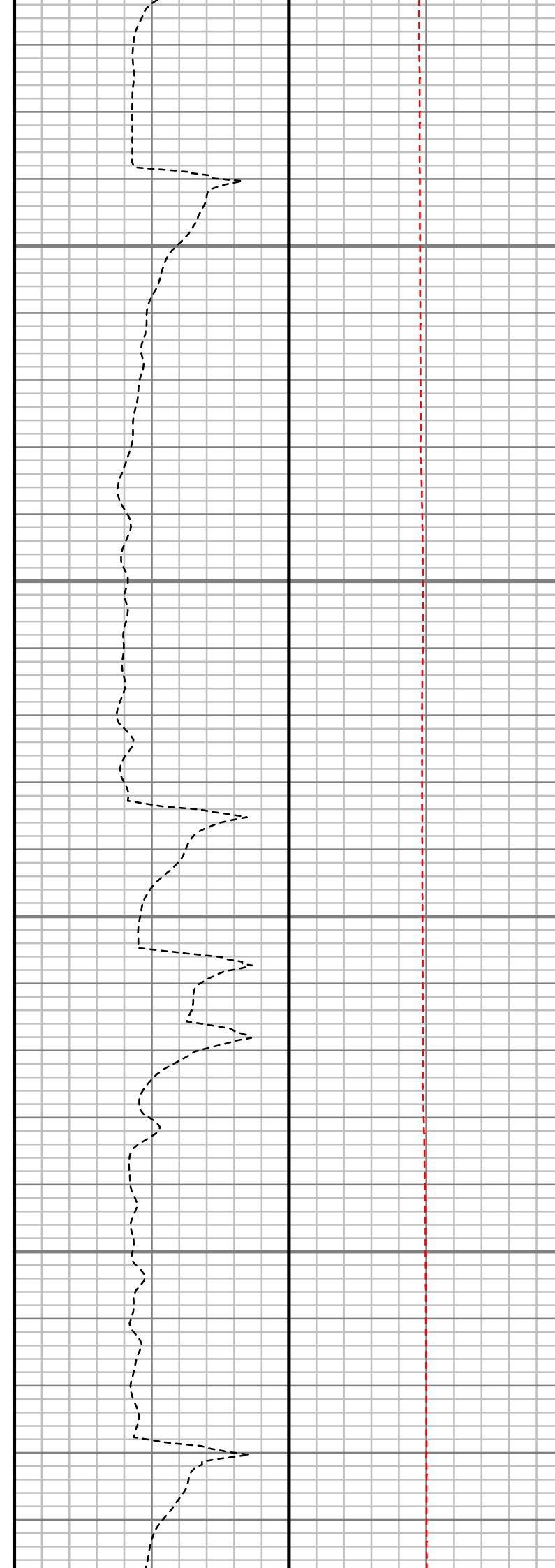
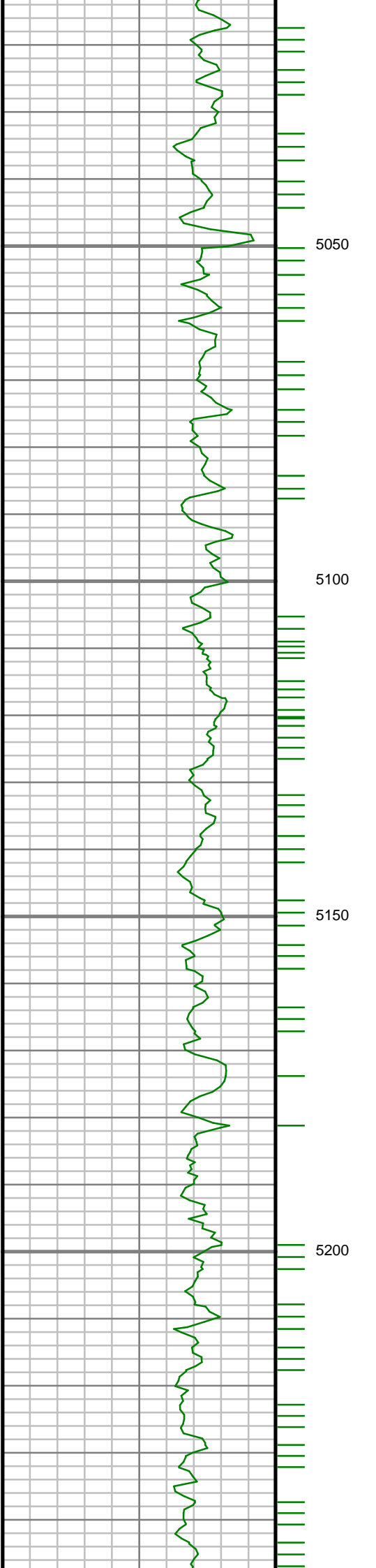
S: 49 MD: 4699.00 ft
Inc: 6.78 deg Az:
224.69 deg TVD:
4484.73 ft



S: 50 MD: 4794.00 ft
Inc: 4.71 deg Az:
242.21 deg TVD:
4579.25 ft

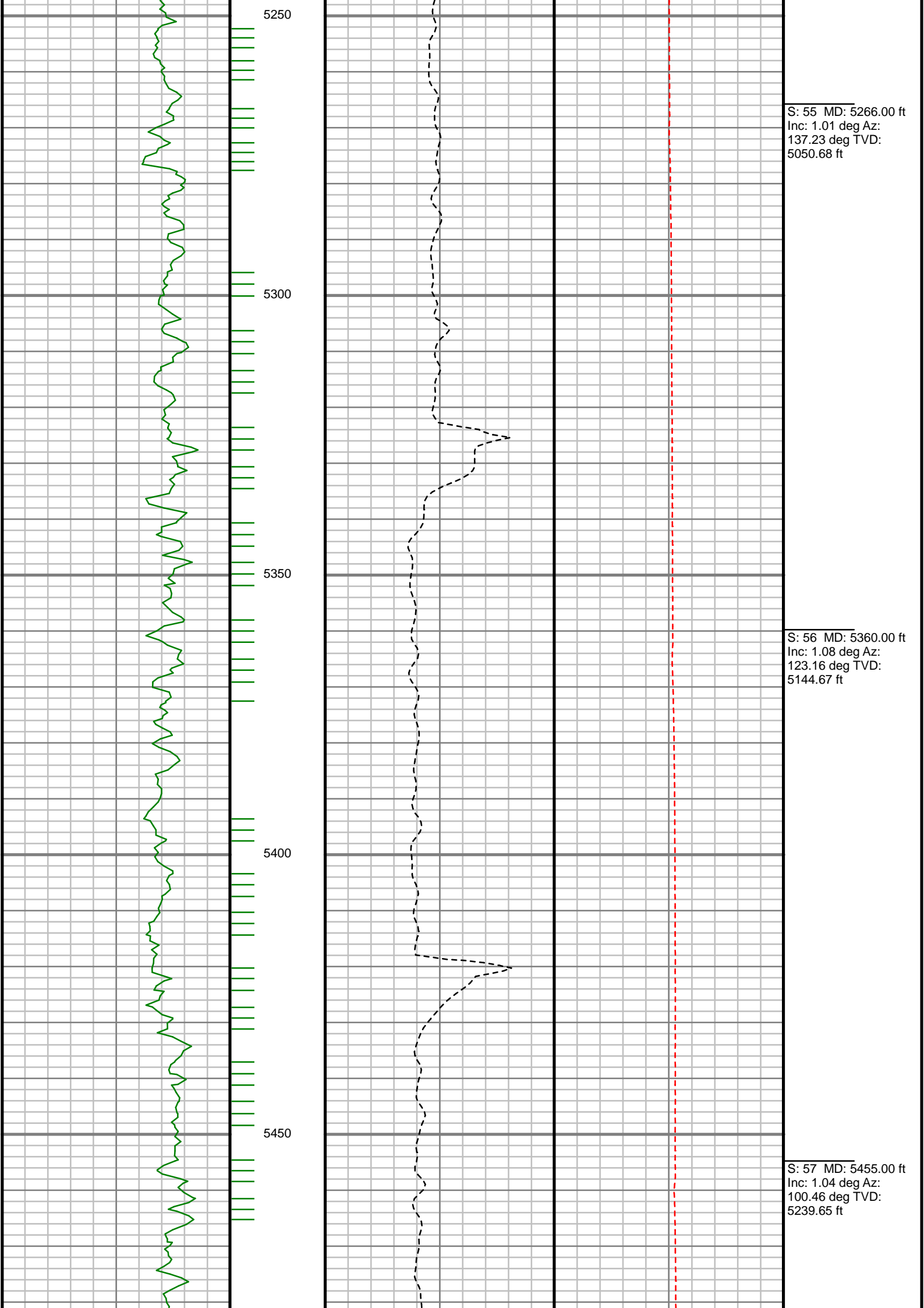
S: 51 MD: 4888.00 ft
Inc: 4.16 deg Az:
244.27 deg TVD:
4672.97 ft

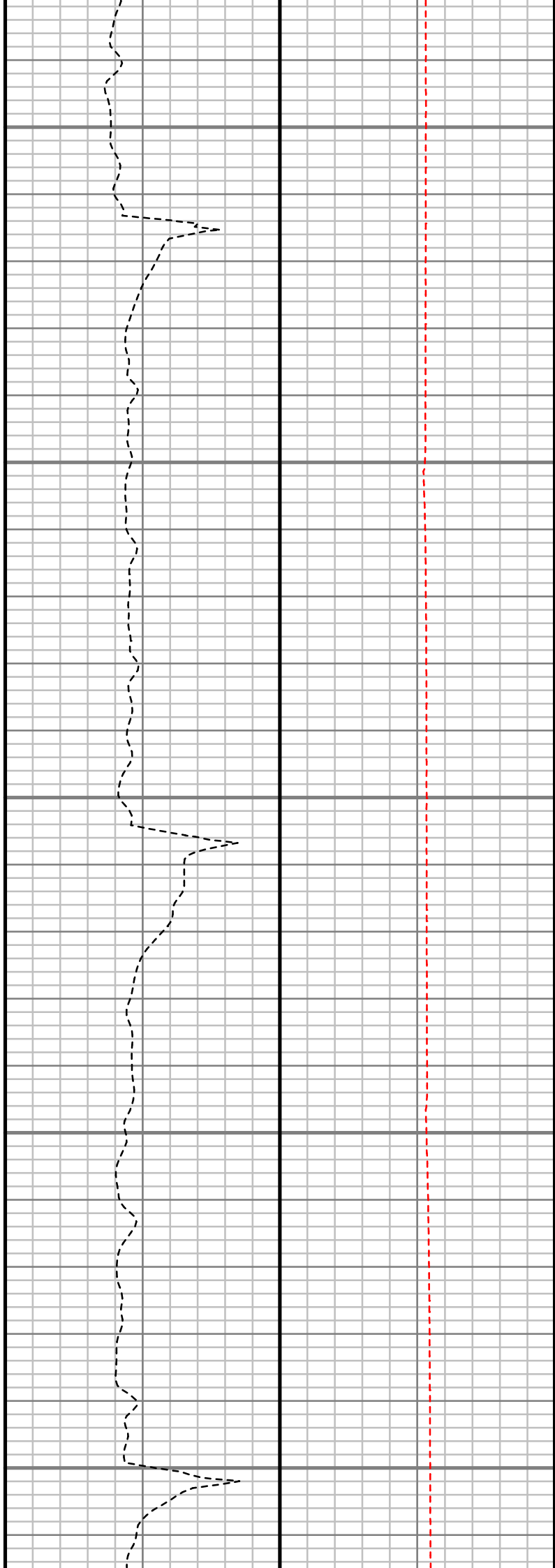
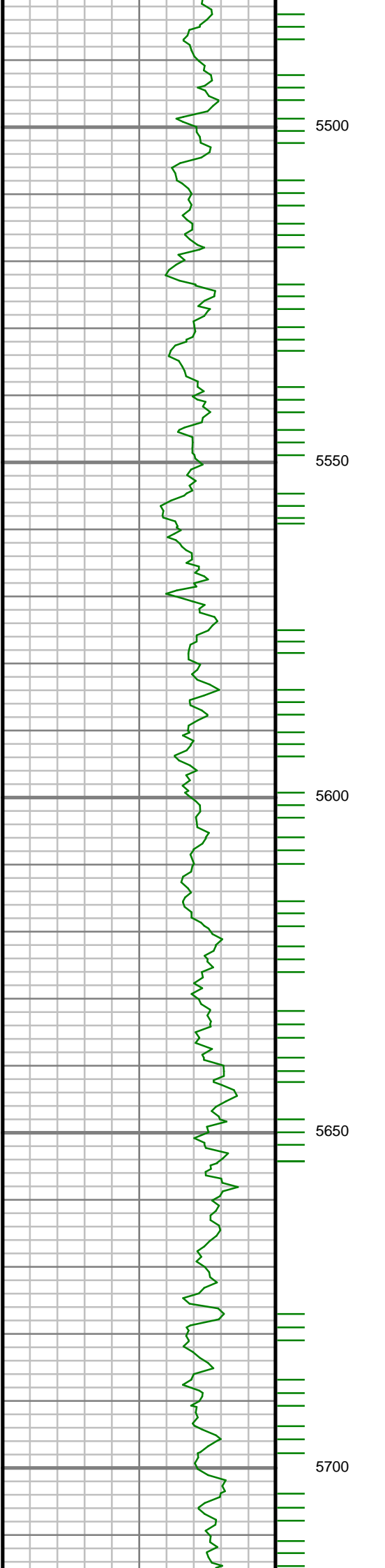
S: 52 MD: 4983.00 ft
Inc: 2.33 deg Az:
220.86 deg TVD:
4767.82 ft



S: 53 MD: 5077.00 ft
Inc: 2.44 deg Az:
219.38 deg TVD:
4861.74 ft

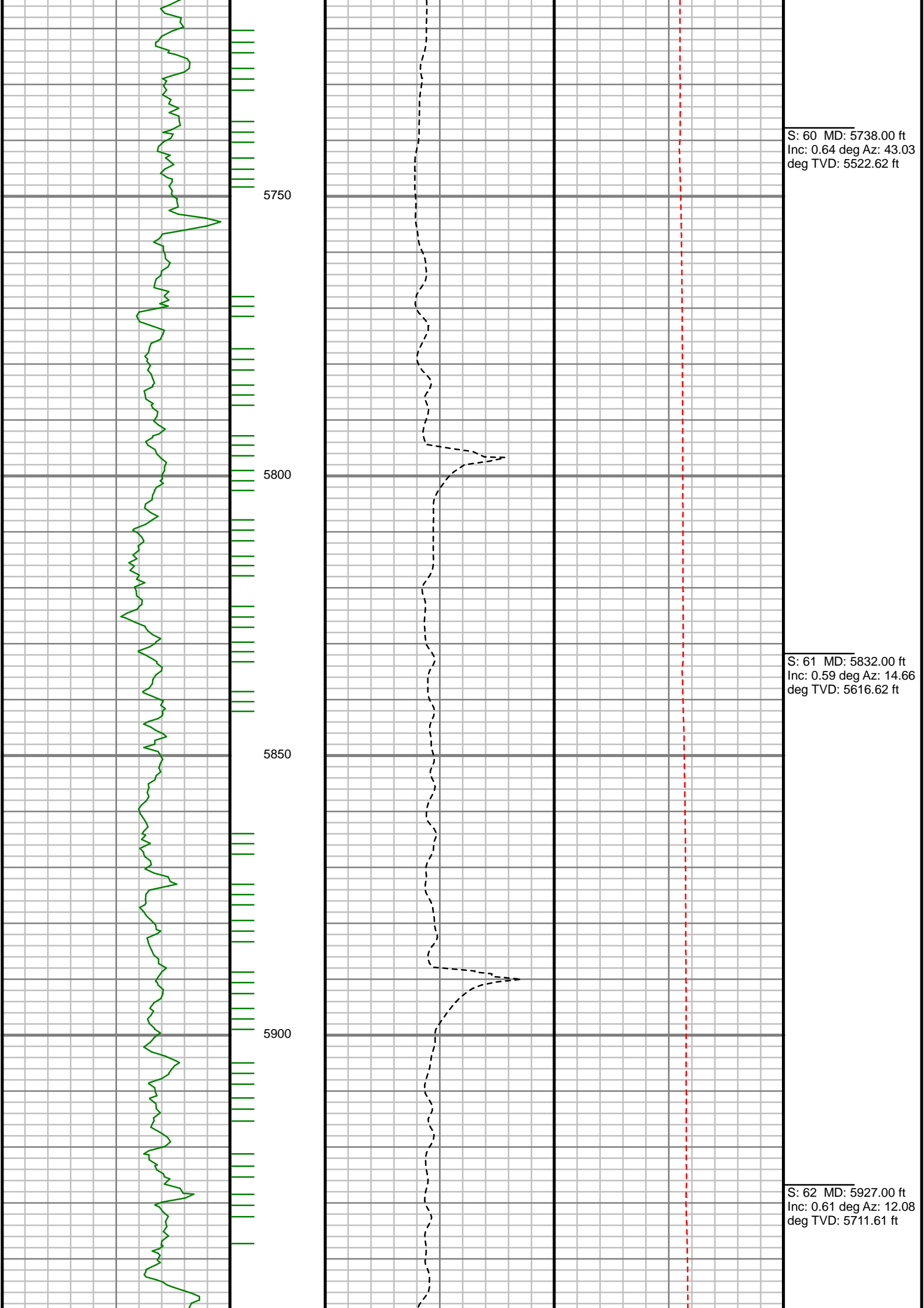
S: 54 MD: 5172.00 ft
Inc: 1.03 deg Az:
171.71 deg TVD:
4956.70 ft

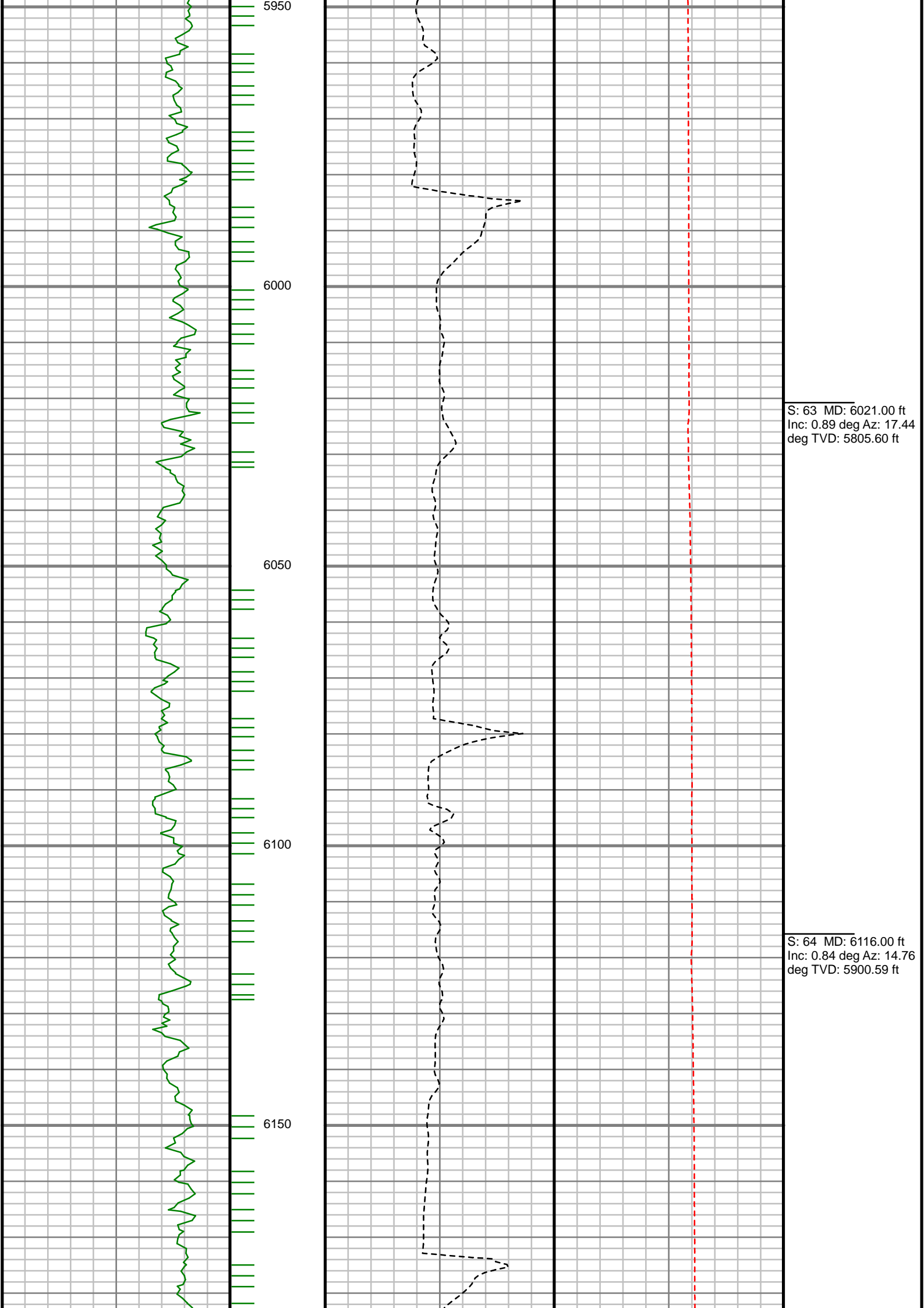


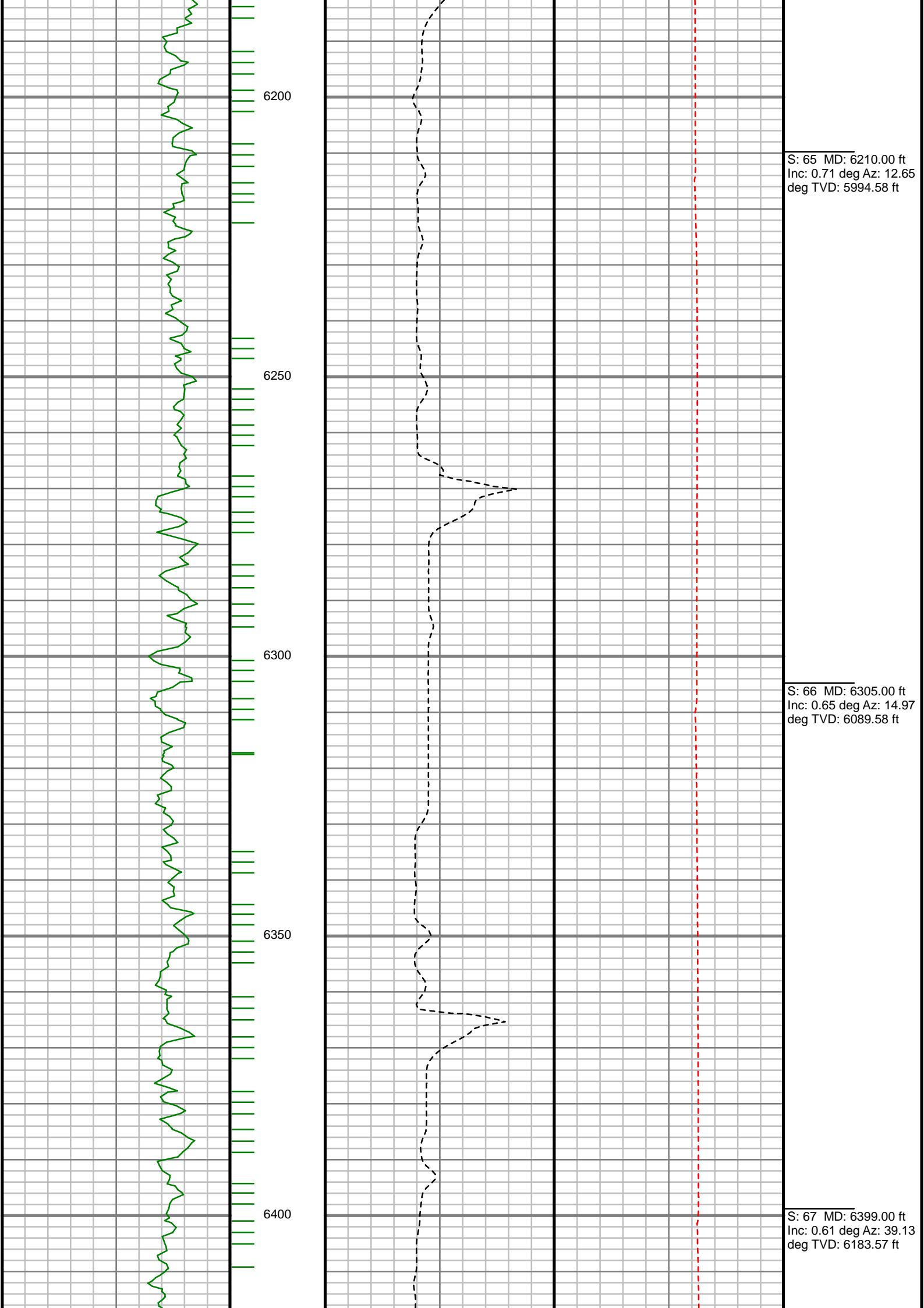


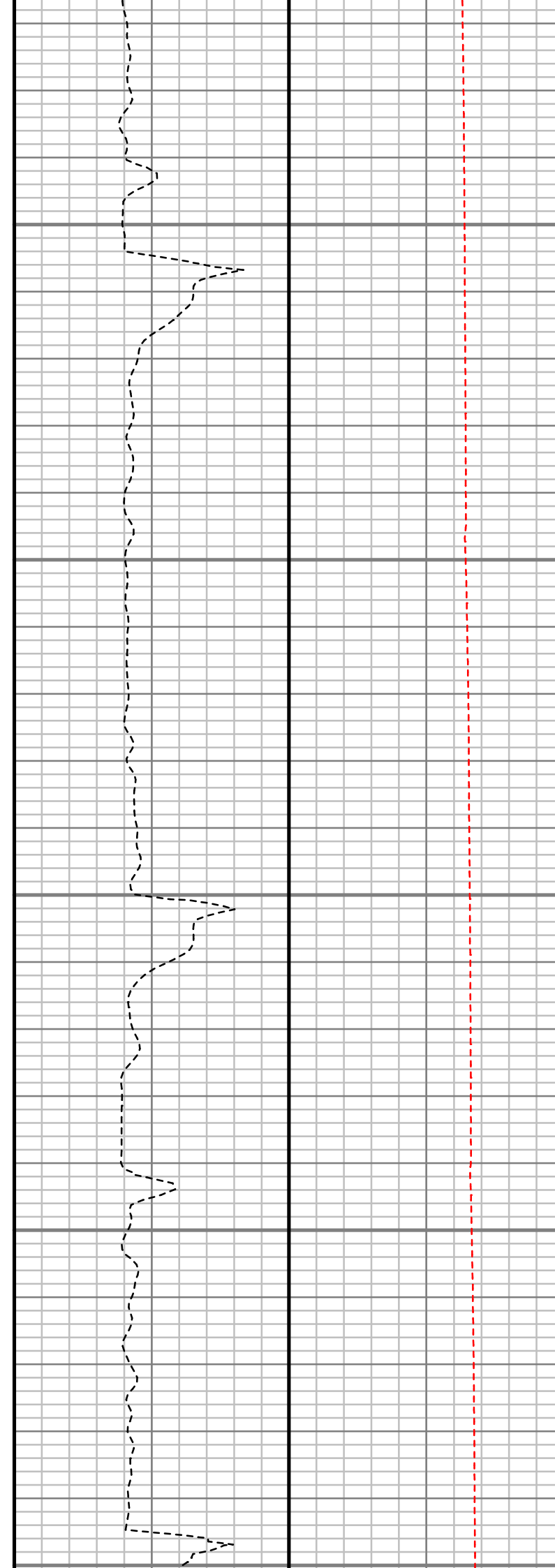
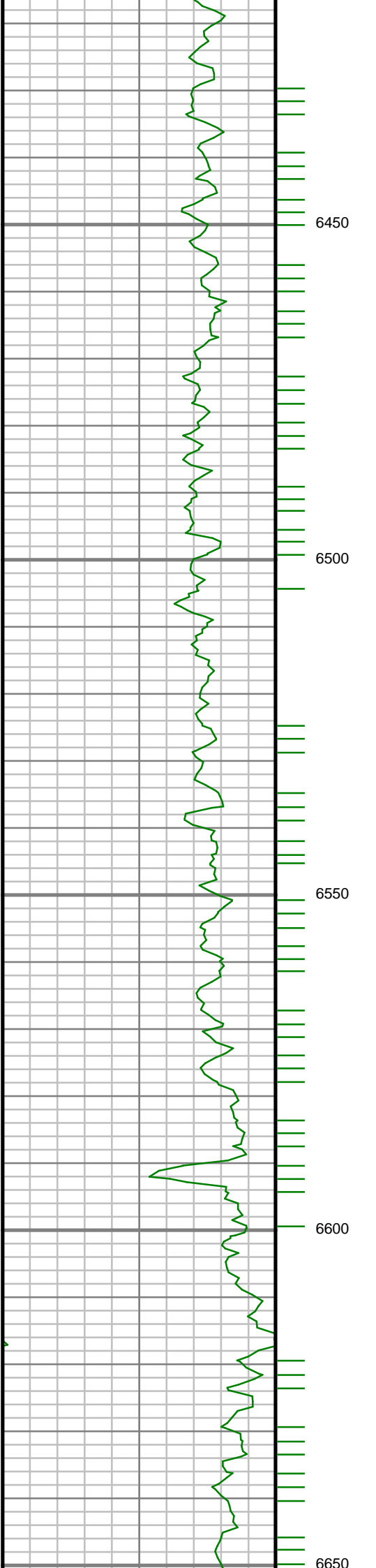
S: 58 MD: 5549.00 ft
Inc: 0.94 deg Az: 75.81
deg TVD: 5333.64 ft

S: 59 MD: 5643.00 ft
Inc: 0.67 deg Az: 54.33
deg TVD: 5427.63 ft



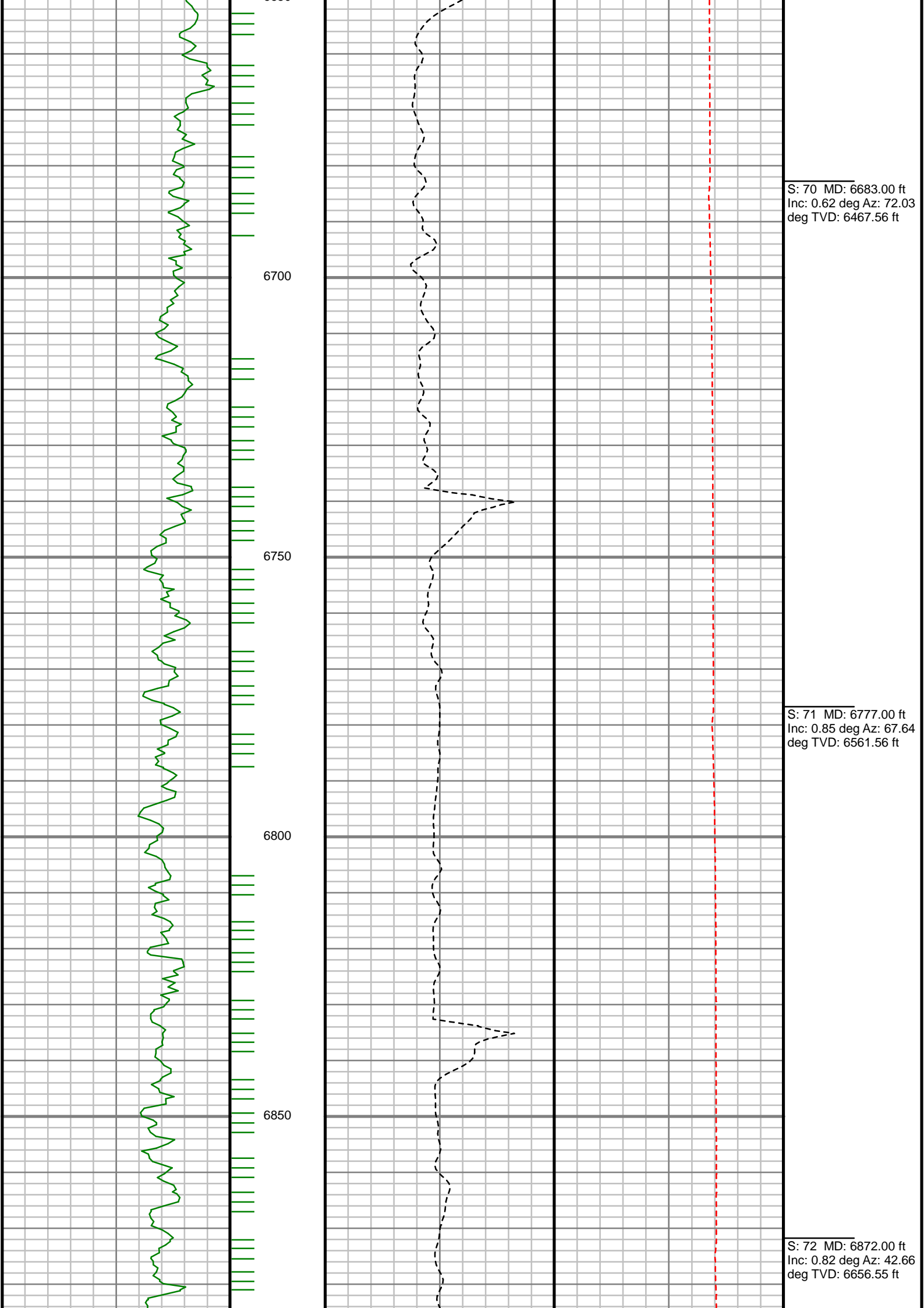


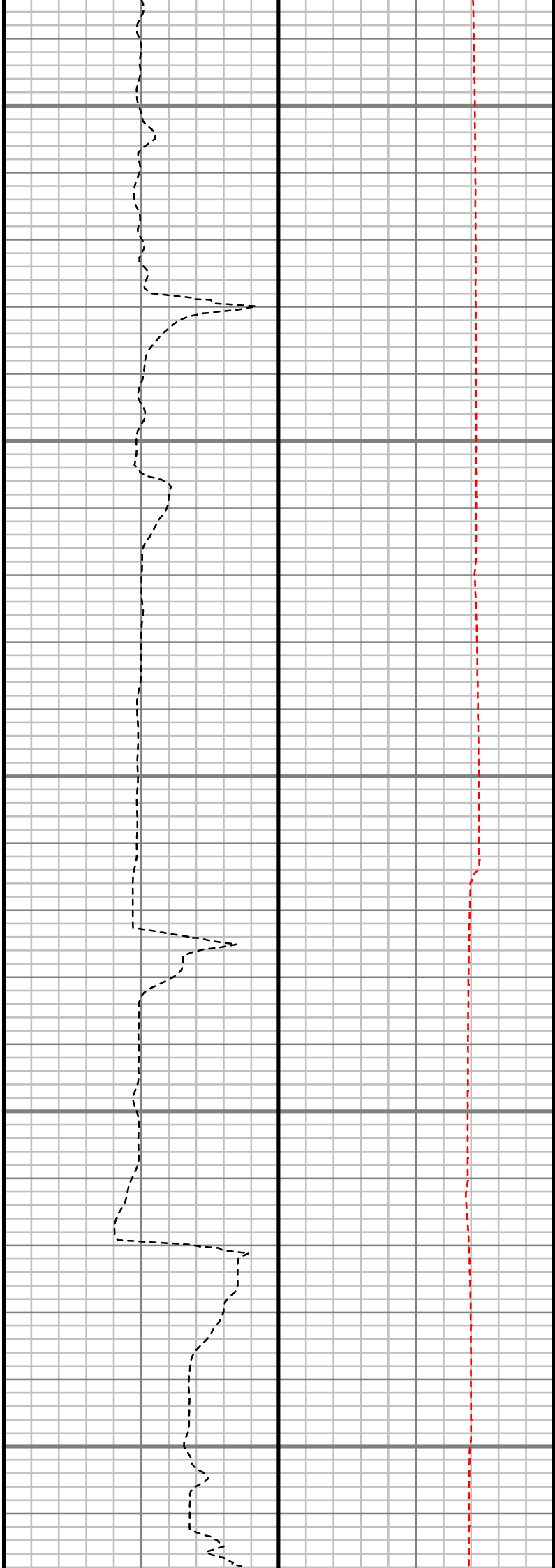
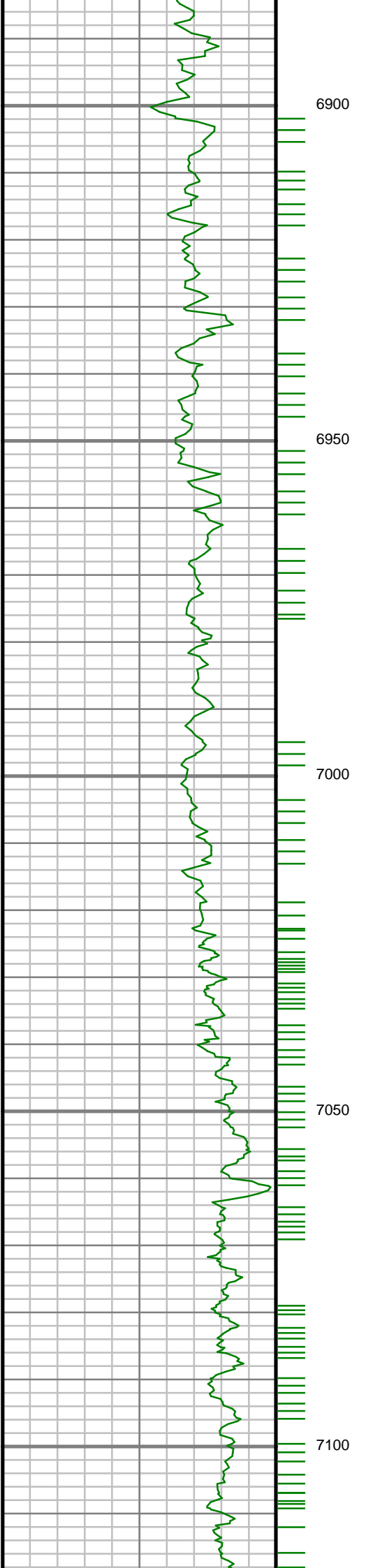




S: 68 MD: 6494.00 ft
Inc: 0.36 deg Az: 45.85
deg TVD: 6278.57 ft

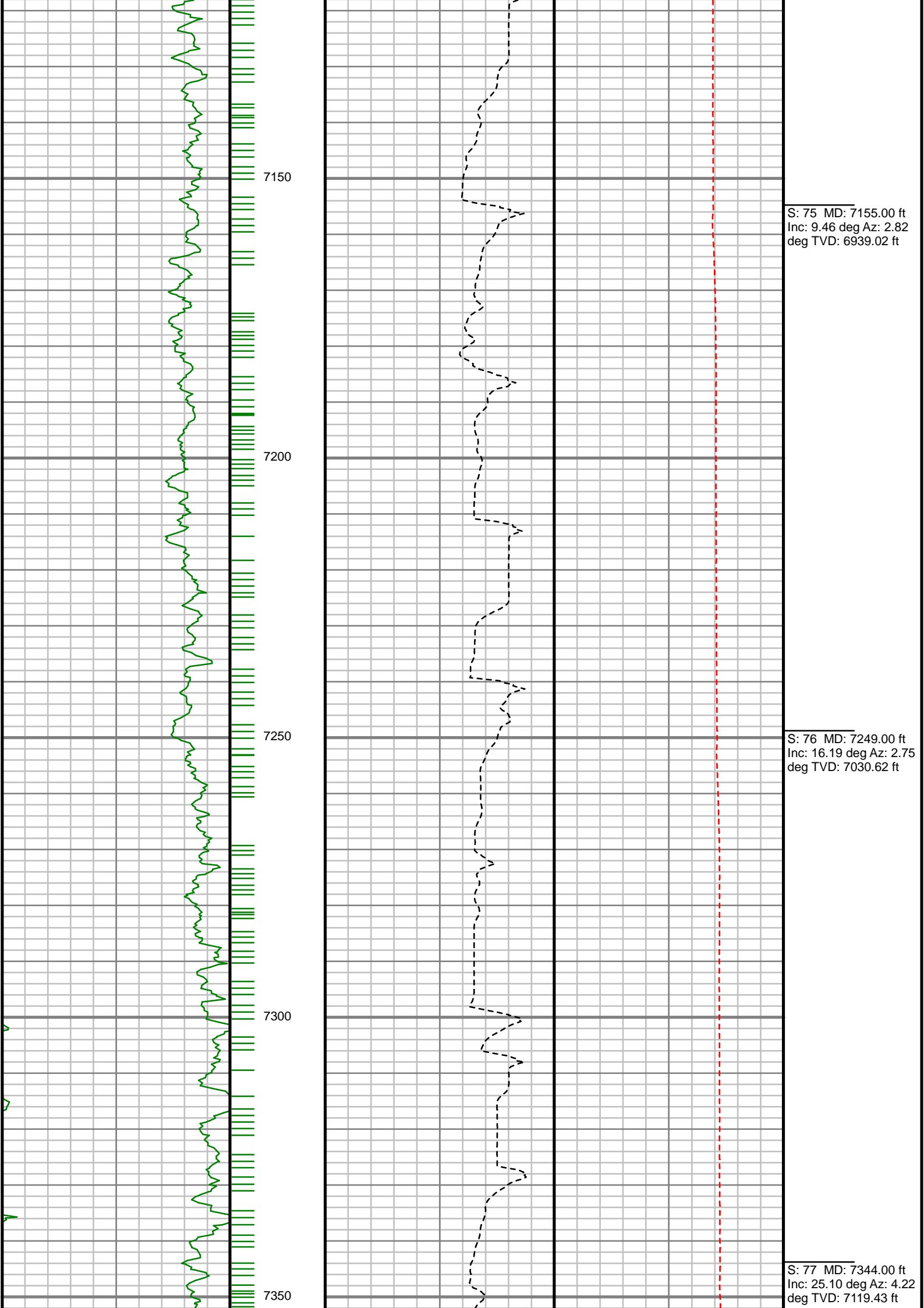
S: 69 MD: 6588.00 ft
Inc: 0.31 deg Az: 26.22
deg TVD: 6372.57 ft

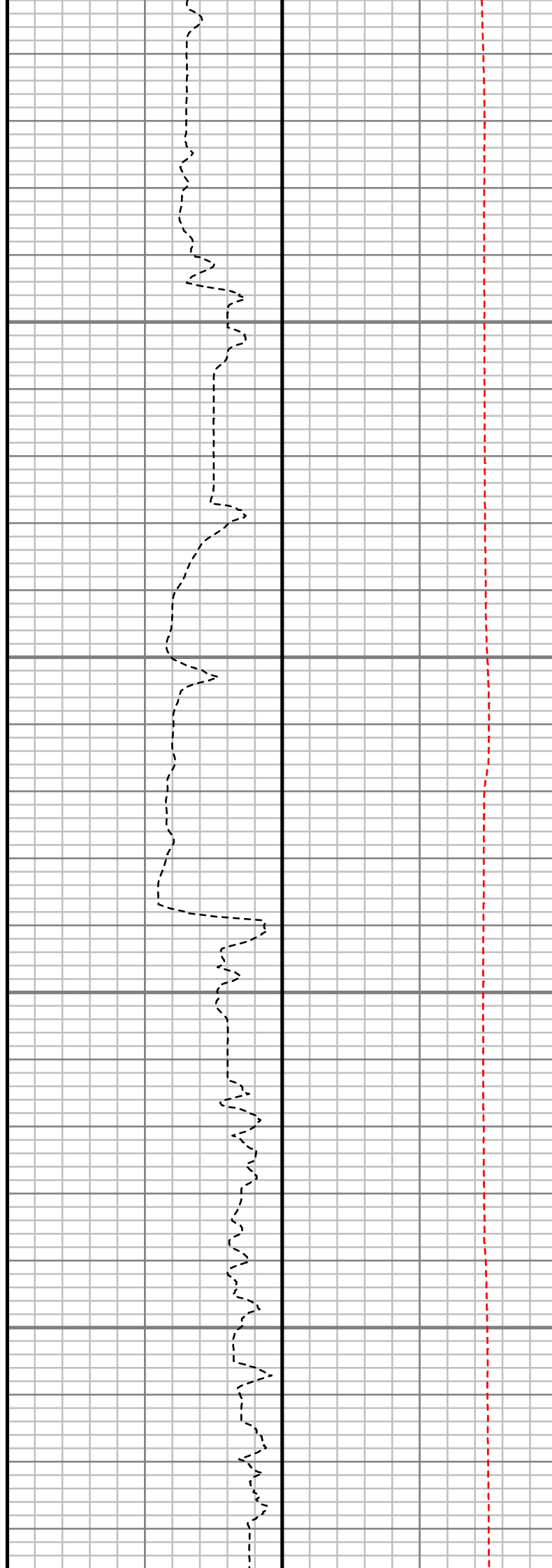
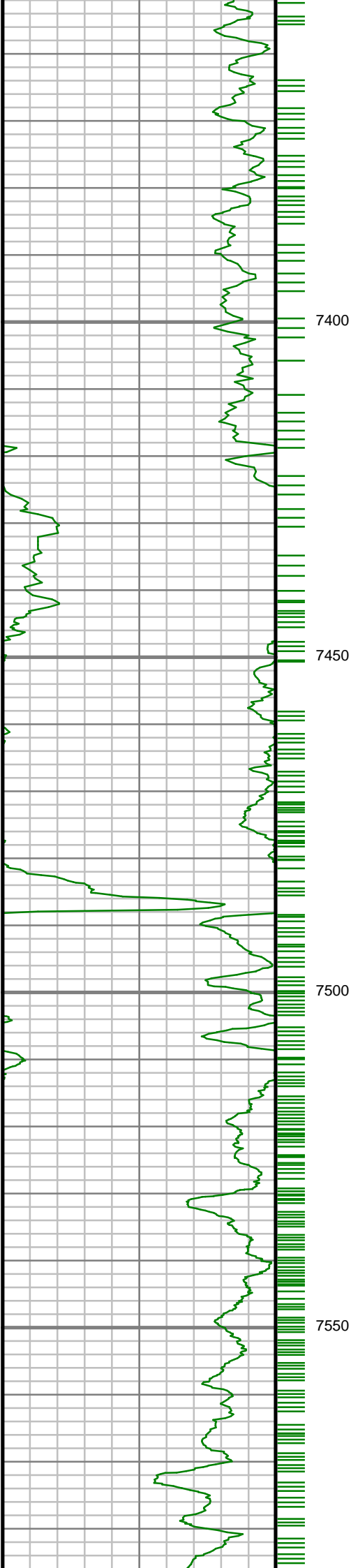




S: 73 MD: 6966.00 ft
Inc: 0.94 deg Az: 20.53
deg TVD: 6750.53 ft

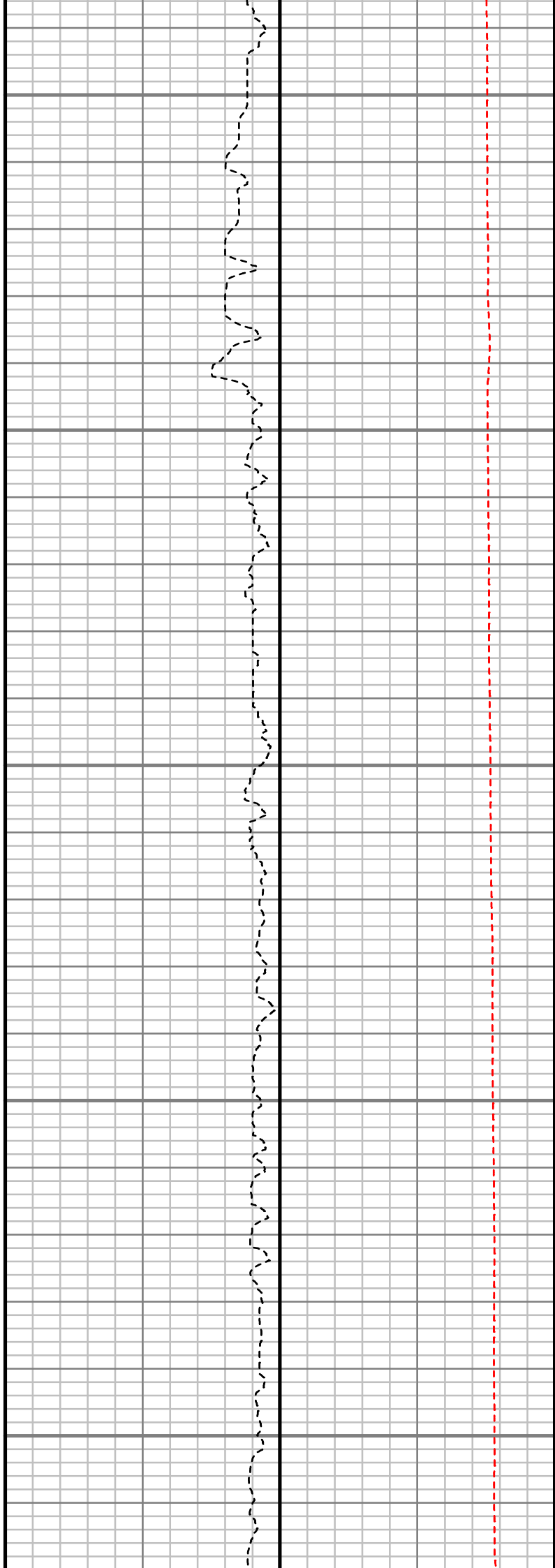
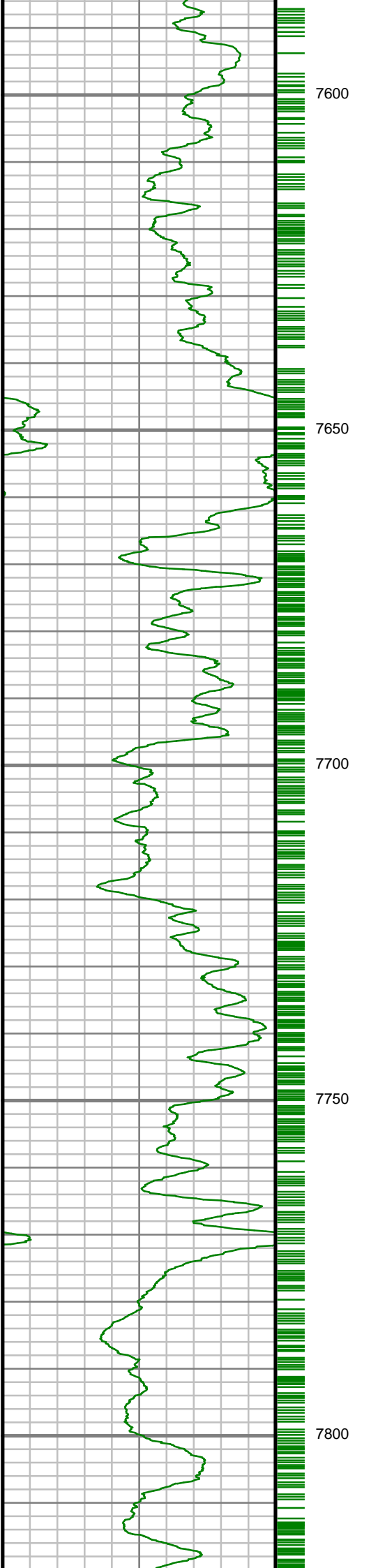
S: 74 MD: 7061.00 ft
Inc: 1.41 deg Az: 13.79
deg TVD: 6845.51 ft





S: 78 MD: 7438.00 ft
Inc: 31.41 deg Az: 1.21
deg TVD: 7202.19 ft

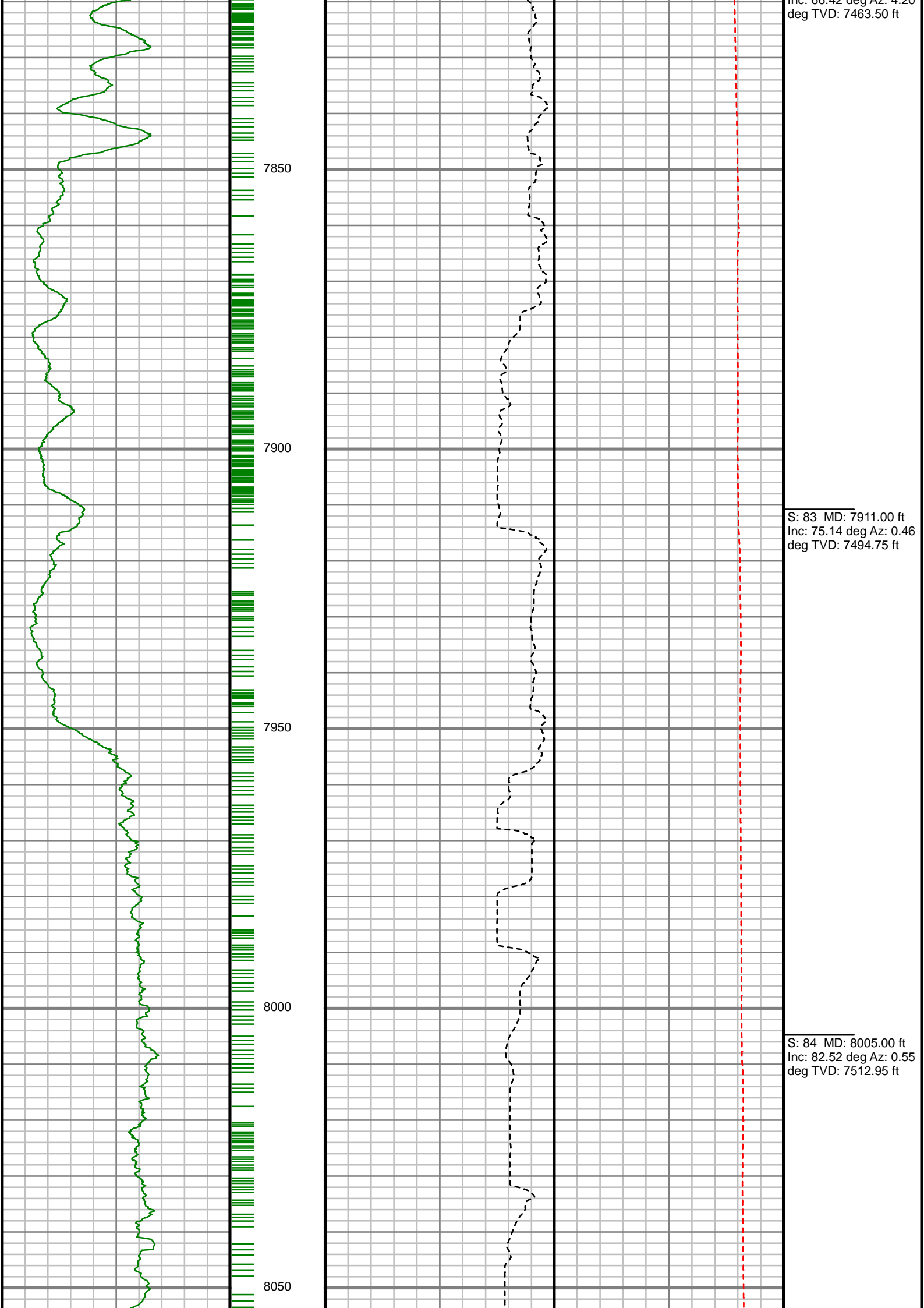
S: 79 MD: 7533.00 ft
Inc: 38.33 deg Az: 1.46
deg TVD: 7280.08 ft

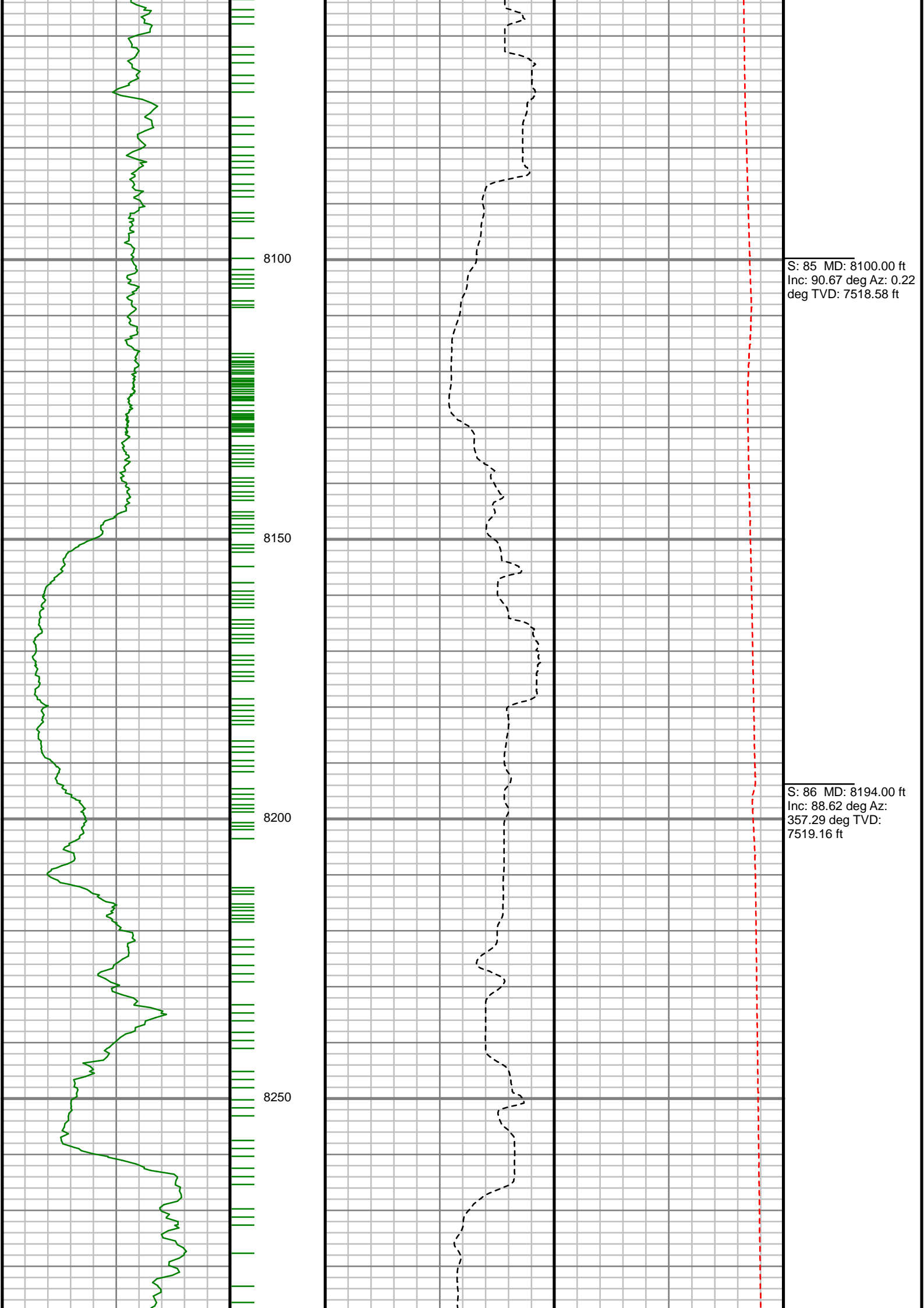


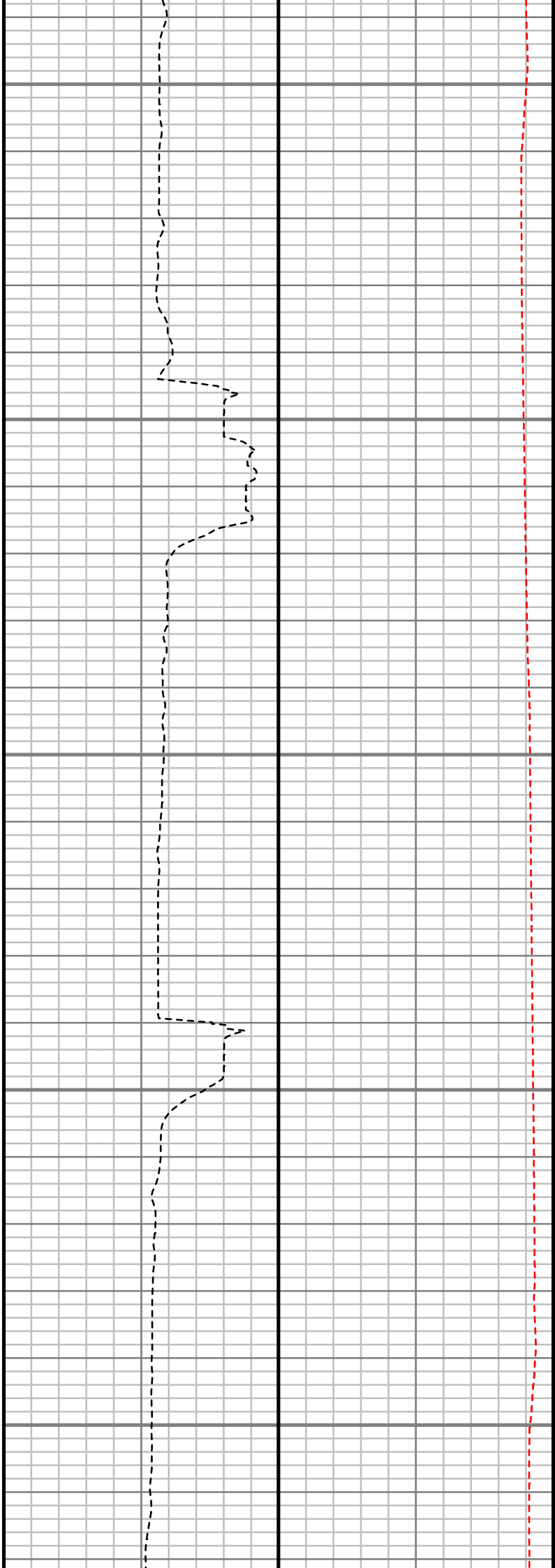
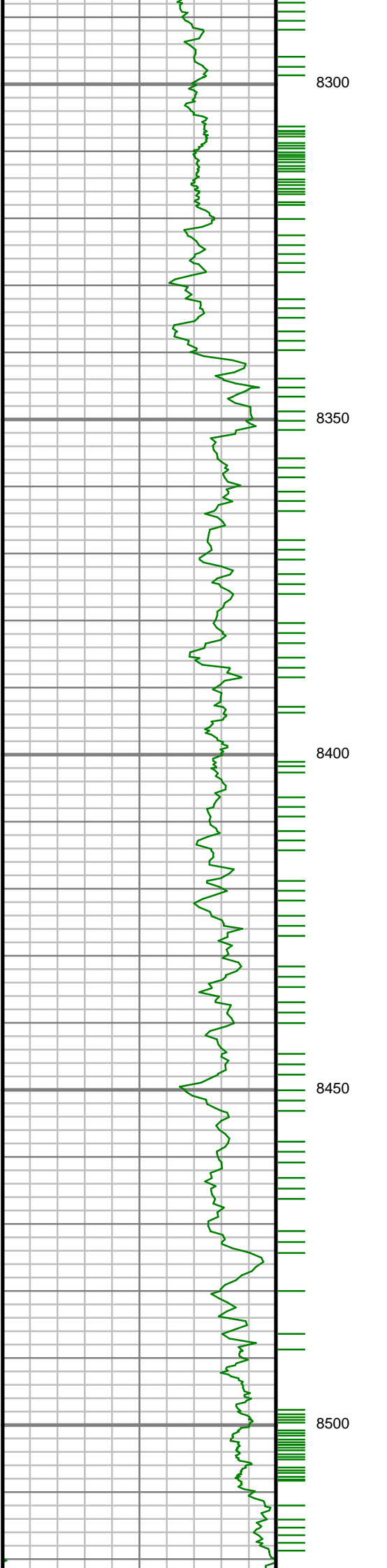
S: 80 MD: 7627.00 ft
Inc: 45.53 deg Az: 5.60
deg TVD: 7349.98 ft

S: 81 MD: 7722.00 ft
Inc: 49.77 deg Az: 8.54
deg TVD: 7413.97 ft

S: 82 MD: 7816.00 ft
Inc: 66.42 deg Az: 4.20



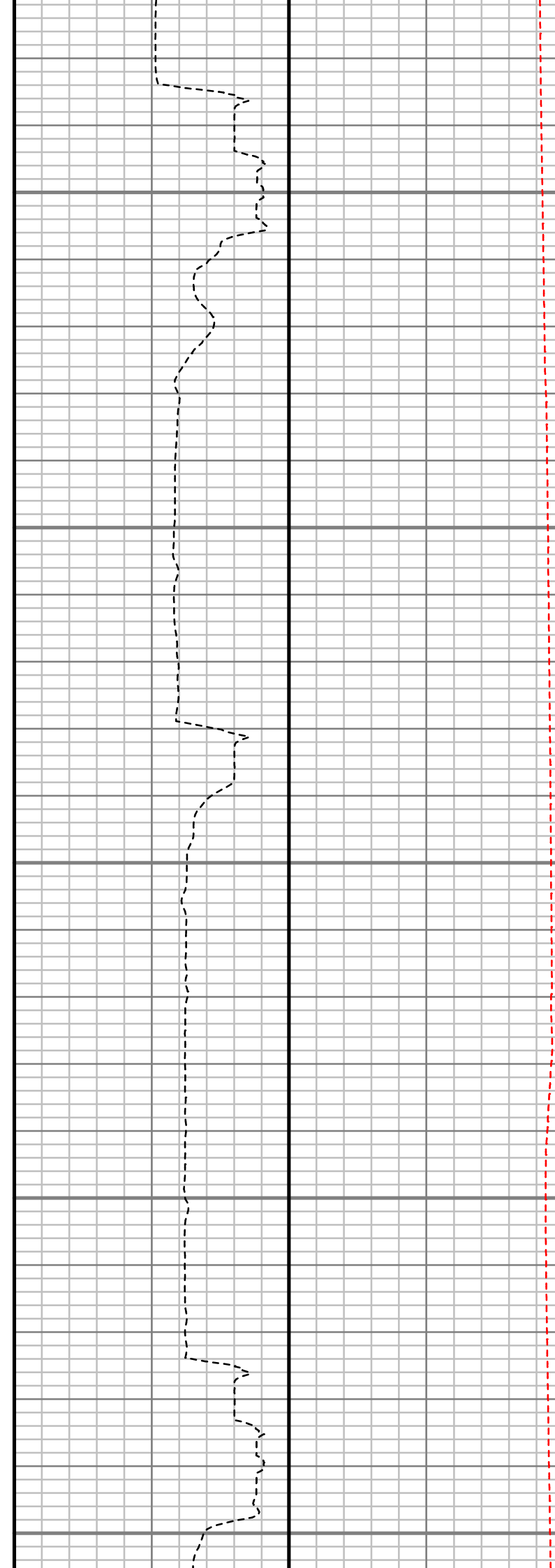
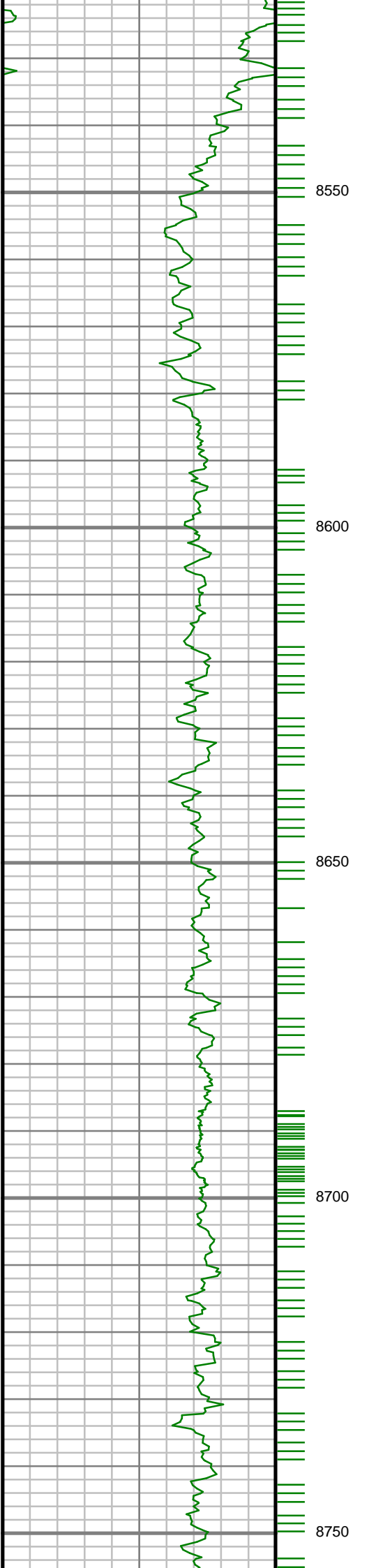




S: 87 MD: 8289.00 ft
Inc: 88.89 deg Az:
356.49 deg TVD:
7521.22 ft

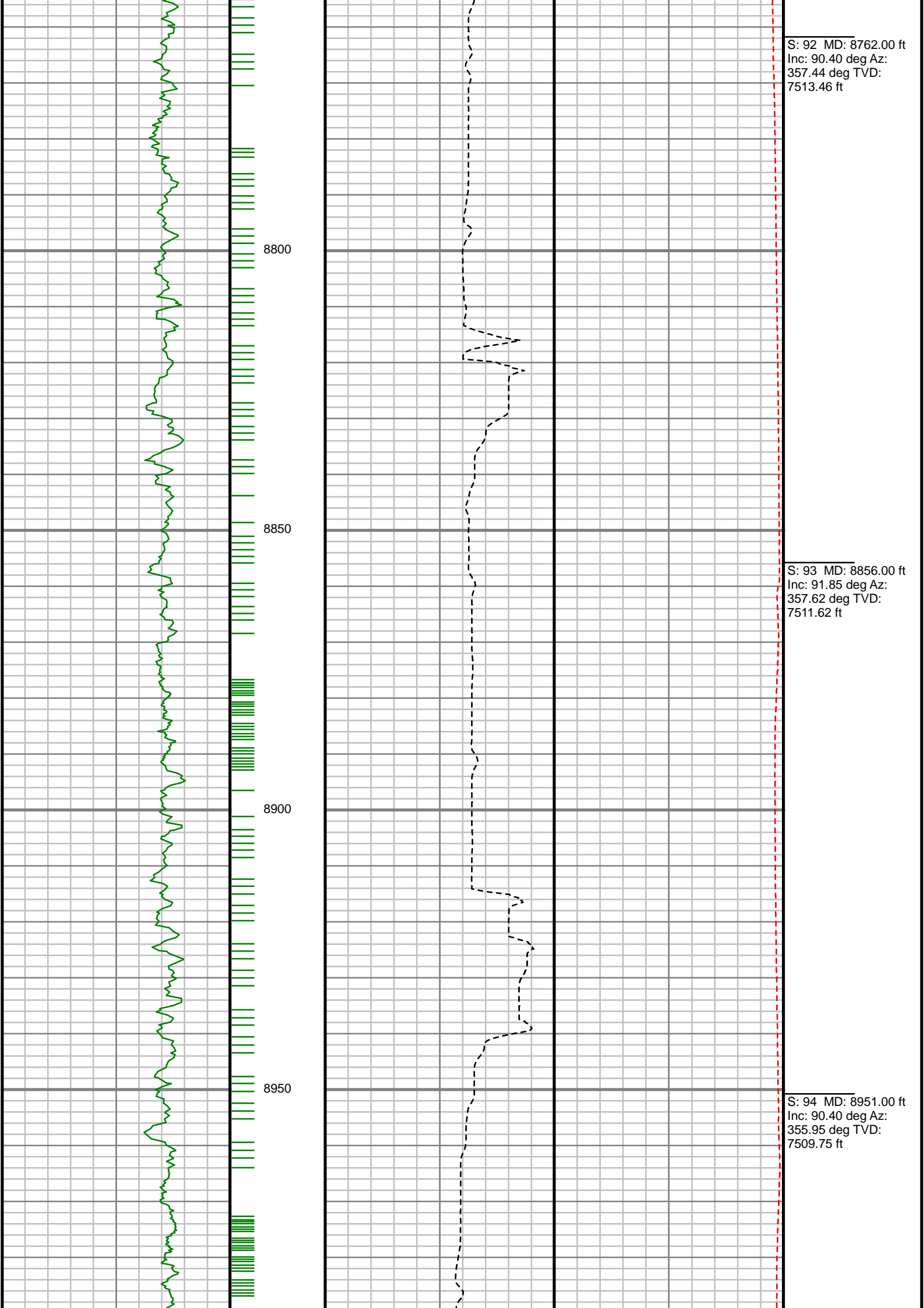
S: 88 MD: 8383.00 ft
Inc: 91.14 deg Az:
356.70 deg TVD:
7521.19 ft

S: 89 MD: 8478.00 ft
Inc: 91.51 deg Az:
356.47 deg TVD:
7518.99 ft



S: 90 MD: 8572.00 ft
Inc: 90.77 deg Az:
357.98 deg TVD:
7517.12 ft

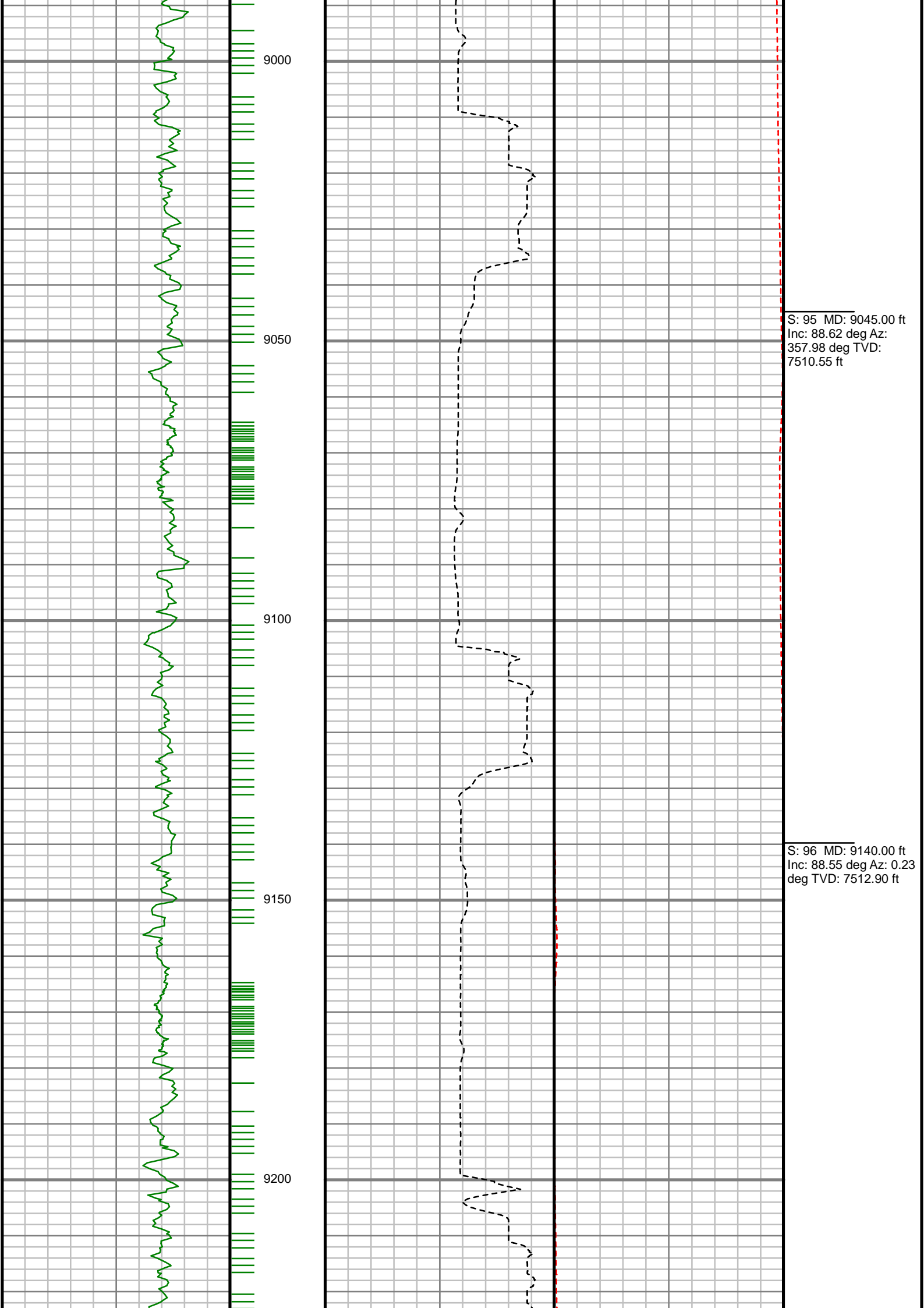
S: 91 MD: 8667.00 ft
Inc: 91.62 deg Az:
357.58 deg TVD:
7515.14 ft

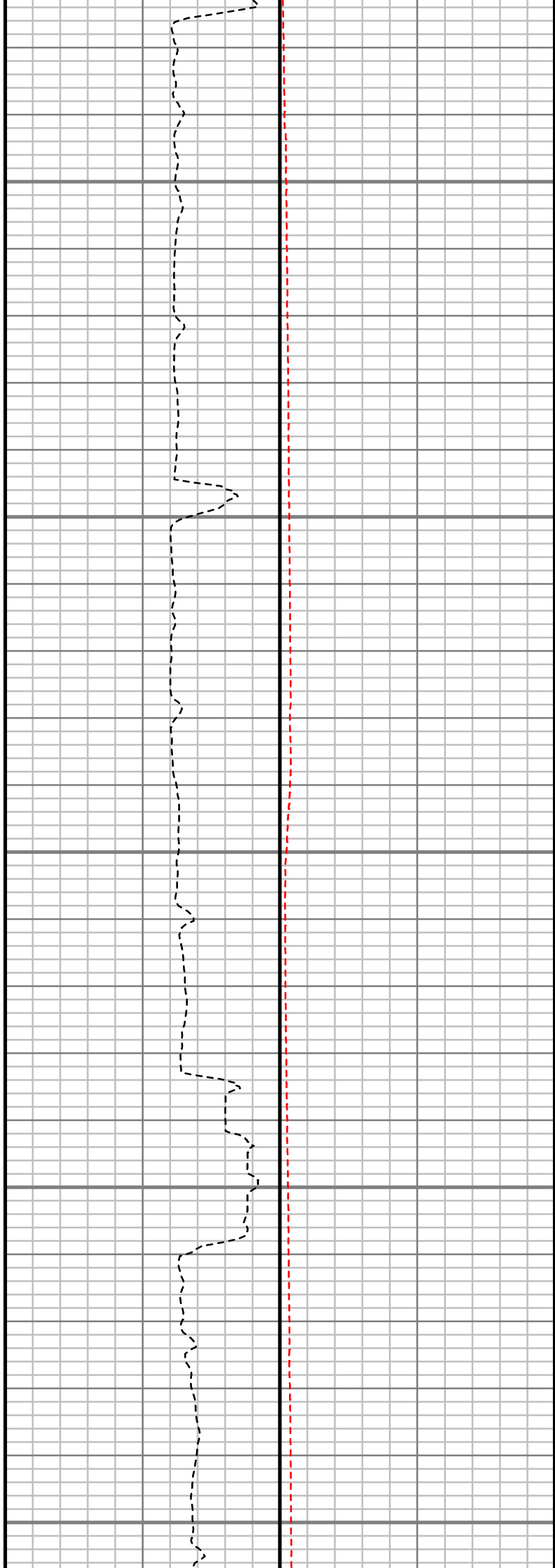
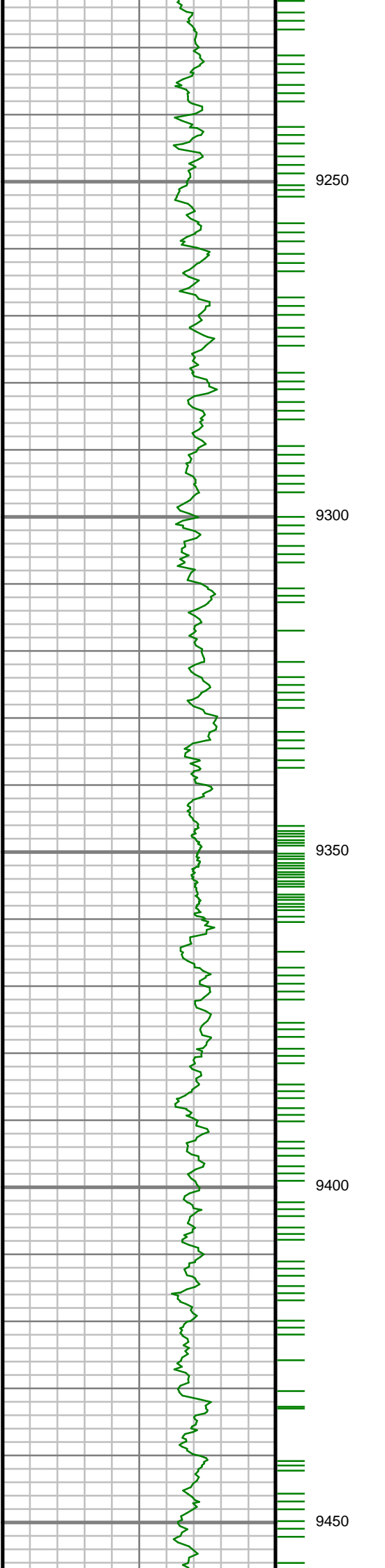


S: 92 MD: 8762.00 ft
Inc: 90.40 deg Az:
357.44 deg TVD:
7513.46 ft

S: 93 MD: 8856.00 ft
Inc: 91.85 deg Az:
357.62 deg TVD:
7511.62 ft

S: 94 MD: 8951.00 ft
Inc: 90.40 deg Az:
355.95 deg TVD:
7509.75 ft

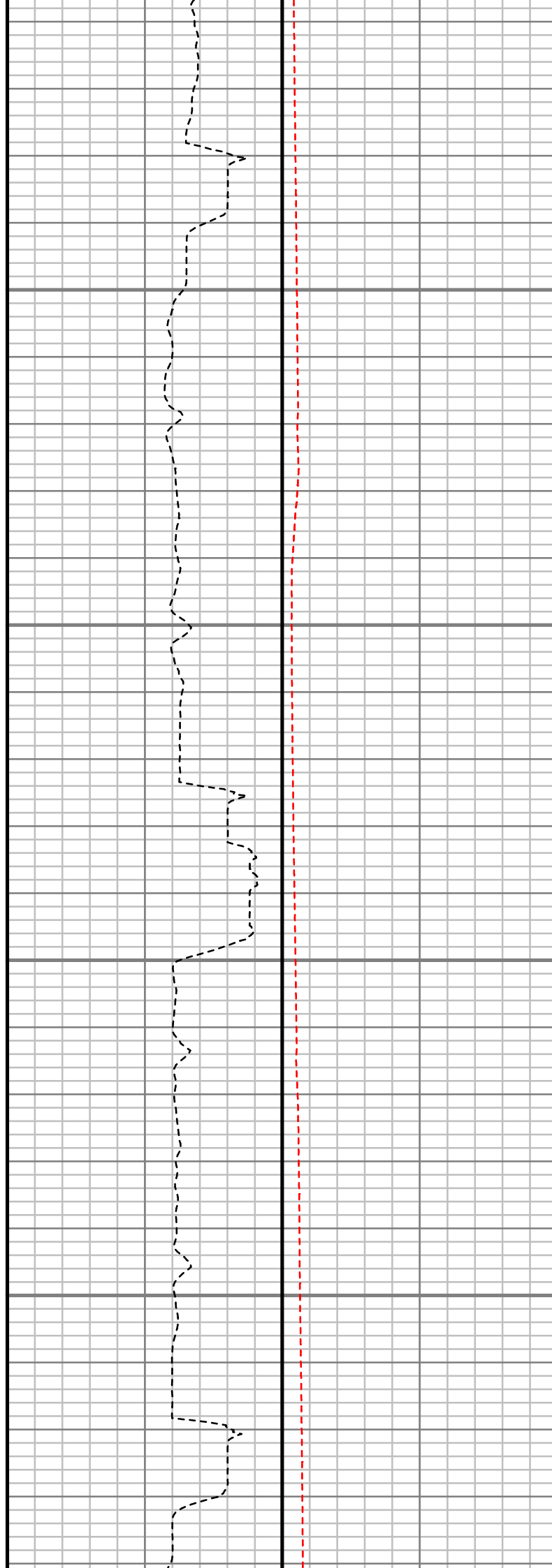
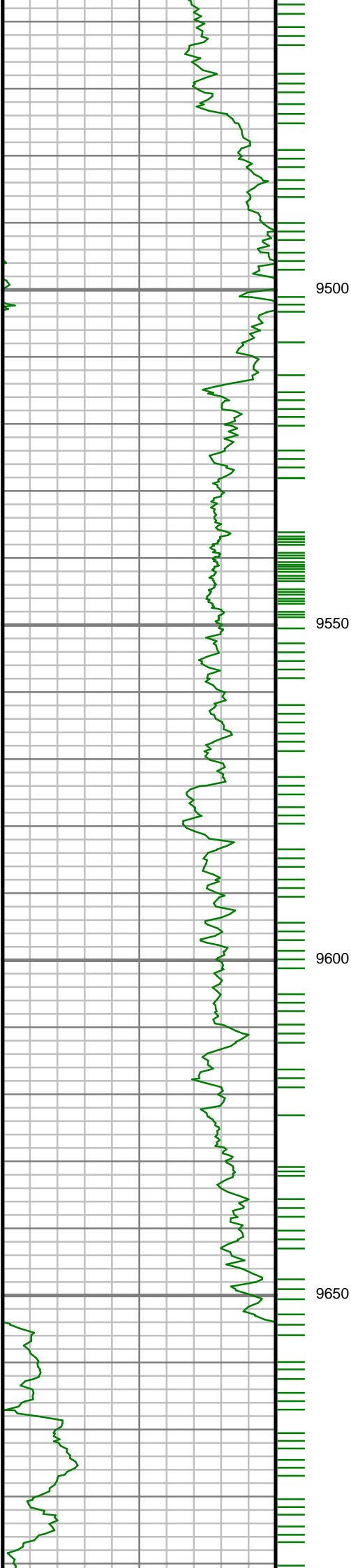




S: 97 MD: 9234.00 ft
Inc: 90.94 deg Az:
359.11 deg TVD:
7513.31 ft

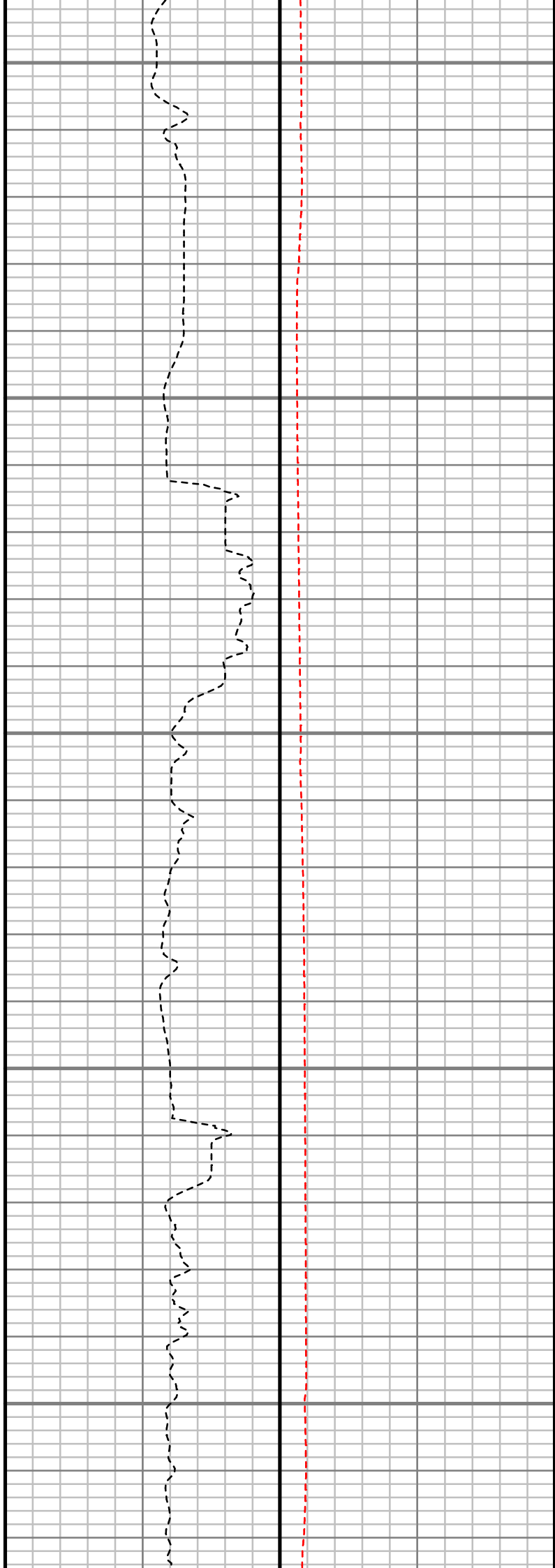
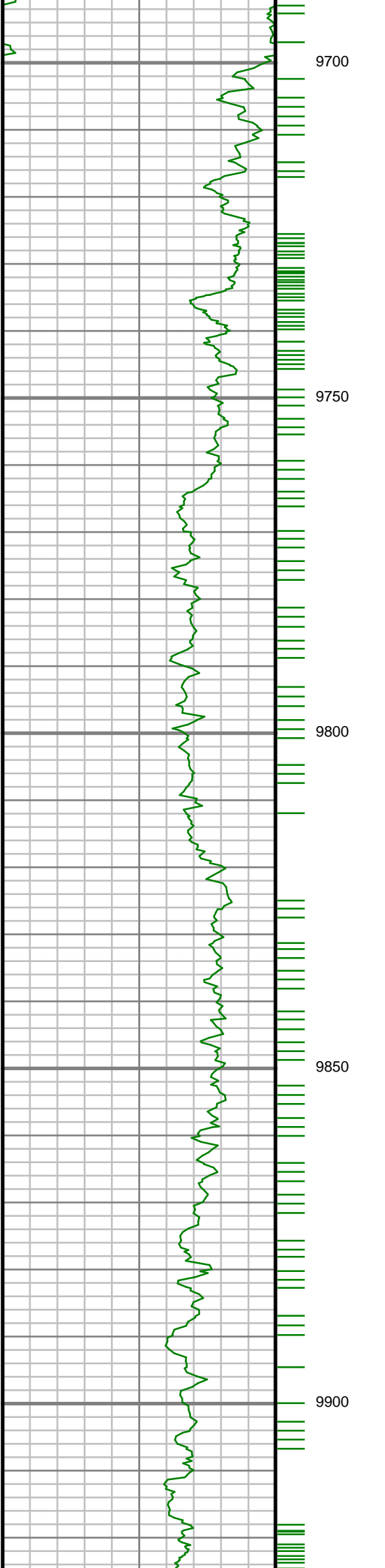
S: 98 MD: 9329.00 ft
Inc: 91.98 deg Az:
359.20 deg TVD:
7510.89 ft

S: 99 MD: 9423.00 ft
Inc: 90.50 deg Az:
359.06 deg TVD:
7508.85 ft



S: 100 MD: 9518.00 ft
Inc: 91.51 deg Az:
358.87 deg TVD:
7507.18 ft

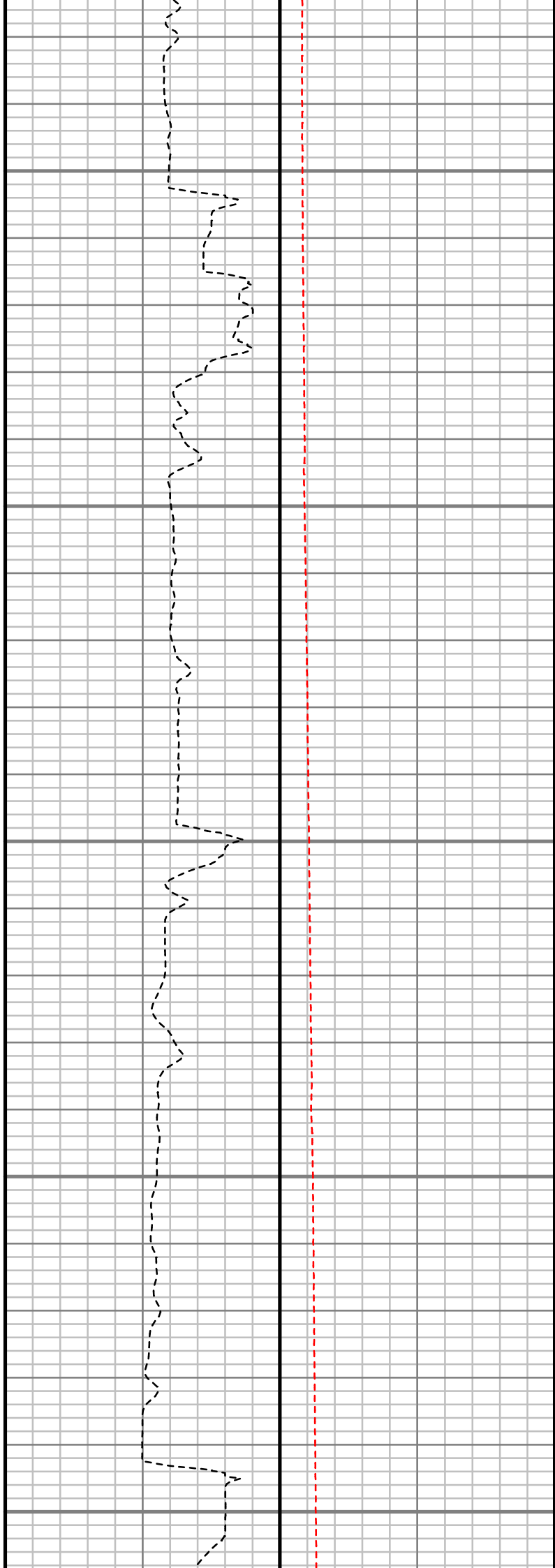
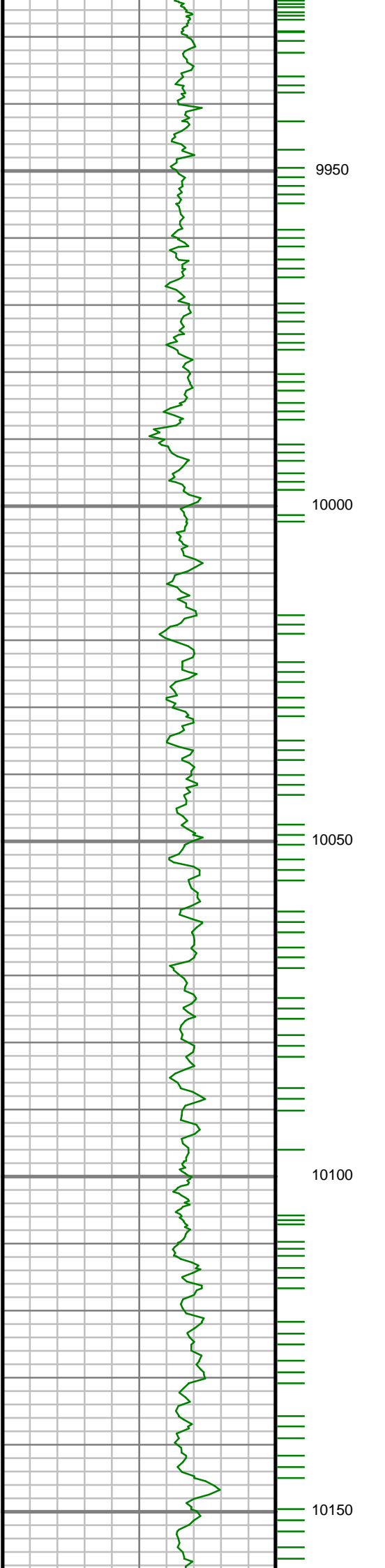
S: 101 MD: 9612.00 ft
Inc: 90.50 deg Az: 0.70
deg TVD: 7505.53 ft



S: 102 MD: 9707.00 ft
Inc: 91.08 deg Az: 0.67
deg TVD: 7504.22 ft

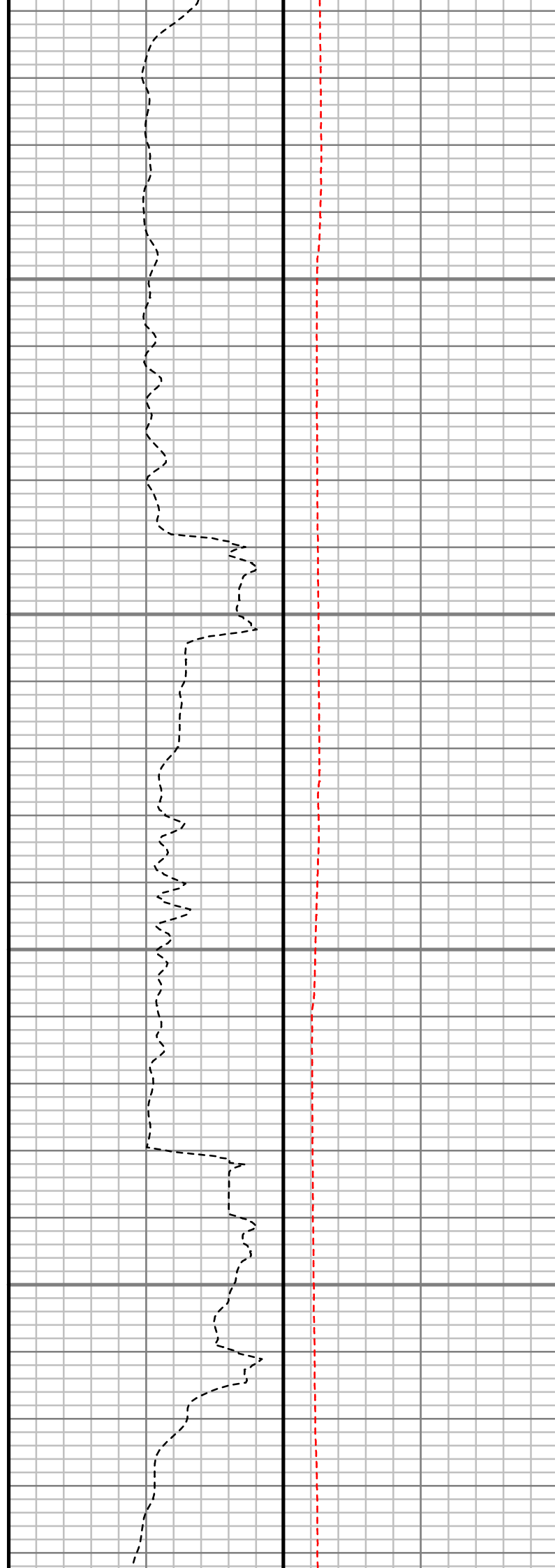
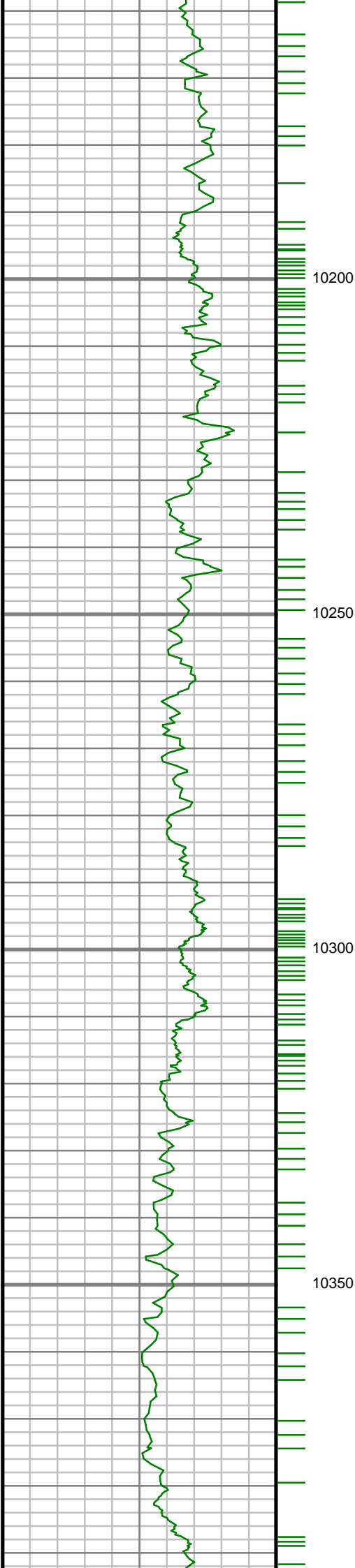
S: 103 MD: 9802.00 ft
Inc: 89.46 deg Az: 1.07
deg TVD: 7503.77 ft

S: 104 MD: 9896.00 ft
Inc: 91.31 deg Az: 0.01
deg TVD: 7503.13 ft



S: 105 MD: 9990.00 ft
Inc: 89.83 deg Az: 0.58
deg TVD: 7502.20 ft

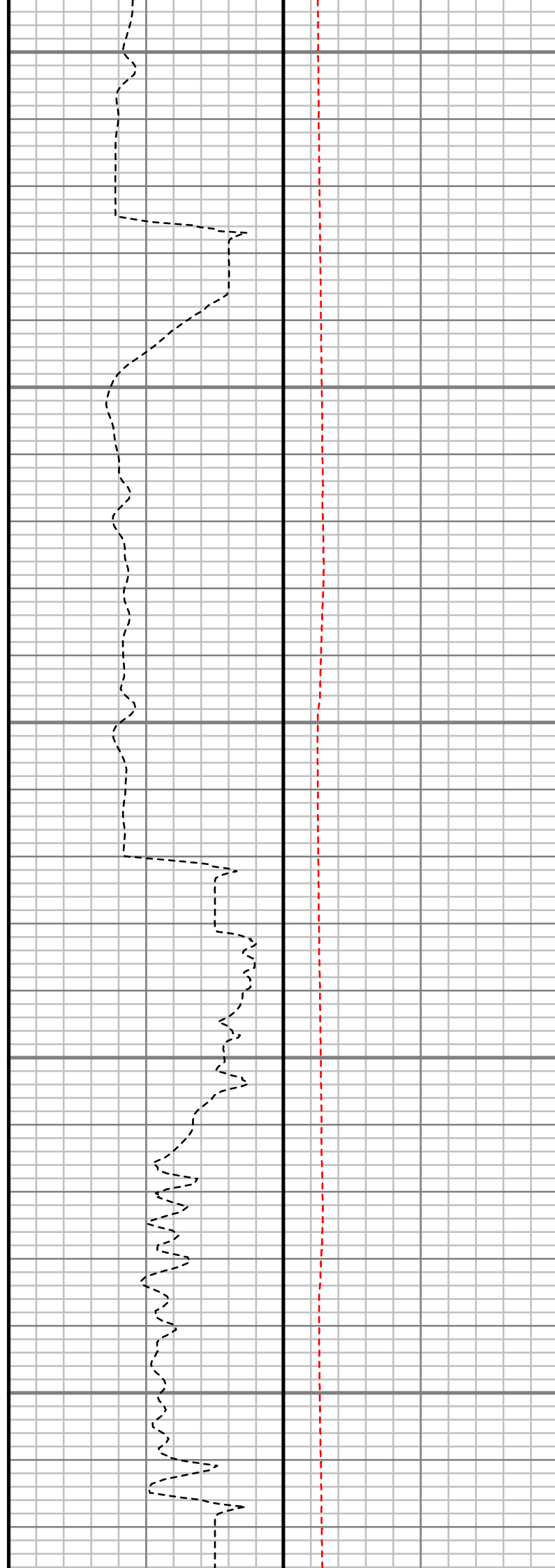
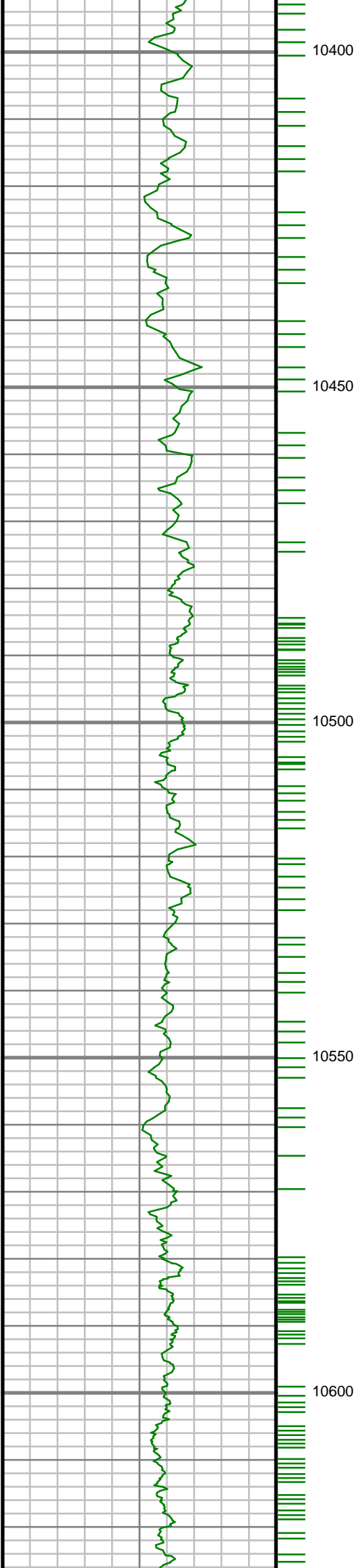
S: 106 MD: 10085.00 ft
Inc: 90.64 deg Az: 1.06
deg TVD: 7501.81 ft



S: 107 MD: 10180.00 ft
Inc: 91.88 deg Az: 1.43
deg TVD: 7499.72 ft

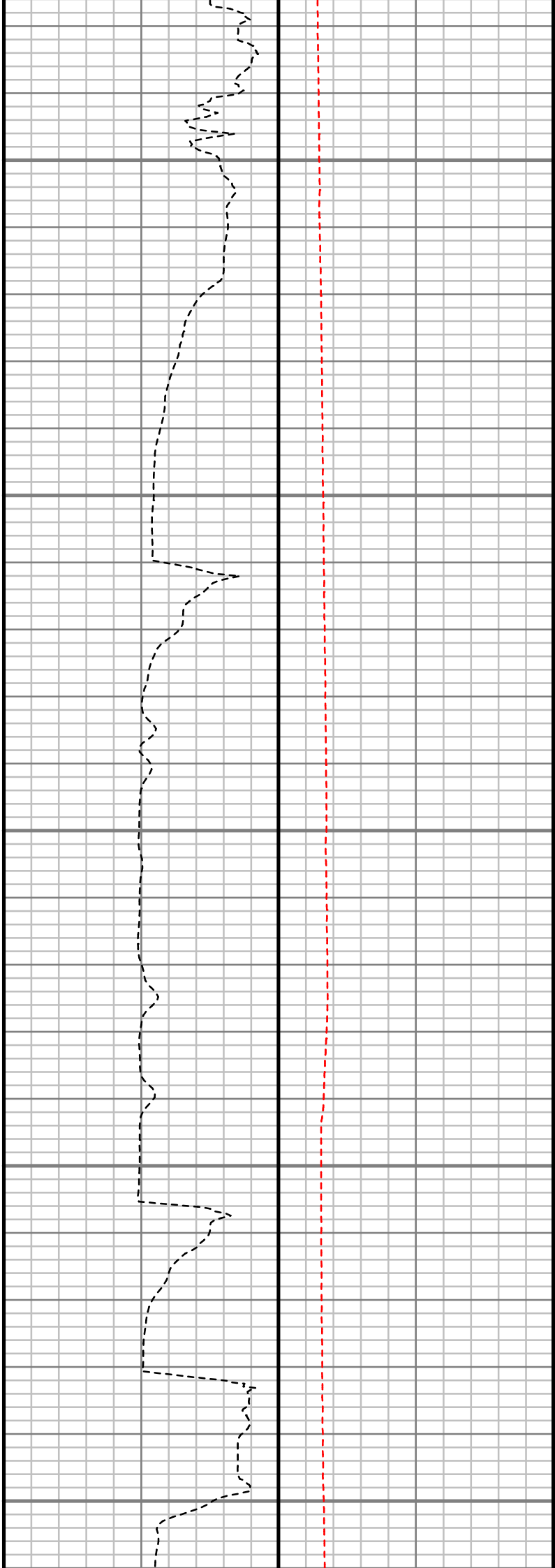
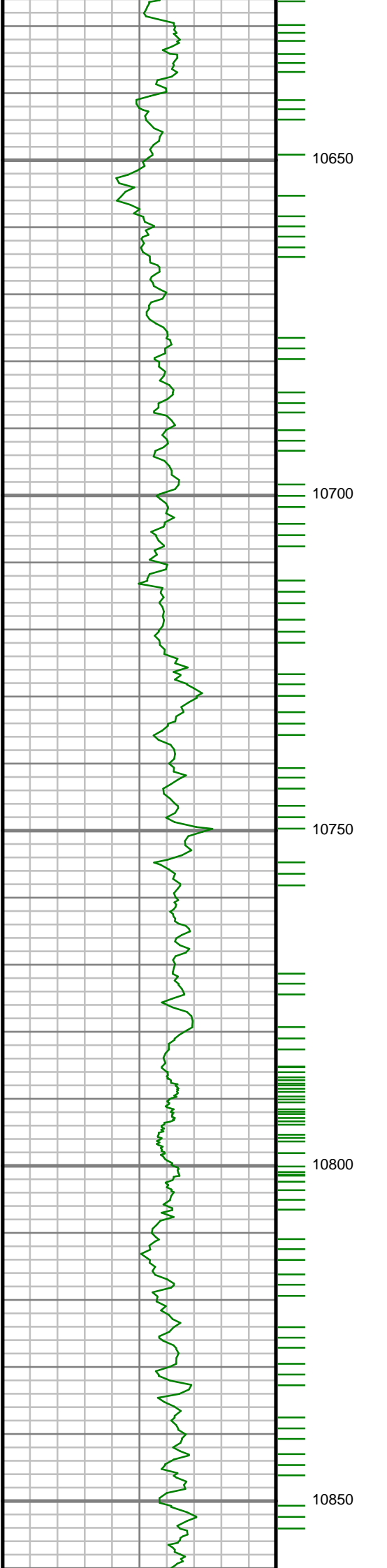
S: 108 MD: 10274.00 ft
Inc: 91.71 deg Az:
359.92 deg TVD:
7496.76 ft

S: 109 MD: 10369.00 ft
Inc: 90.47 deg Az:
359.56 deg TVD:
7494.95 ft



S: 110 MD: 10463.00 ft
Inc: 91.82 deg Az: 0.07
deg TVD: 7493.08 ft

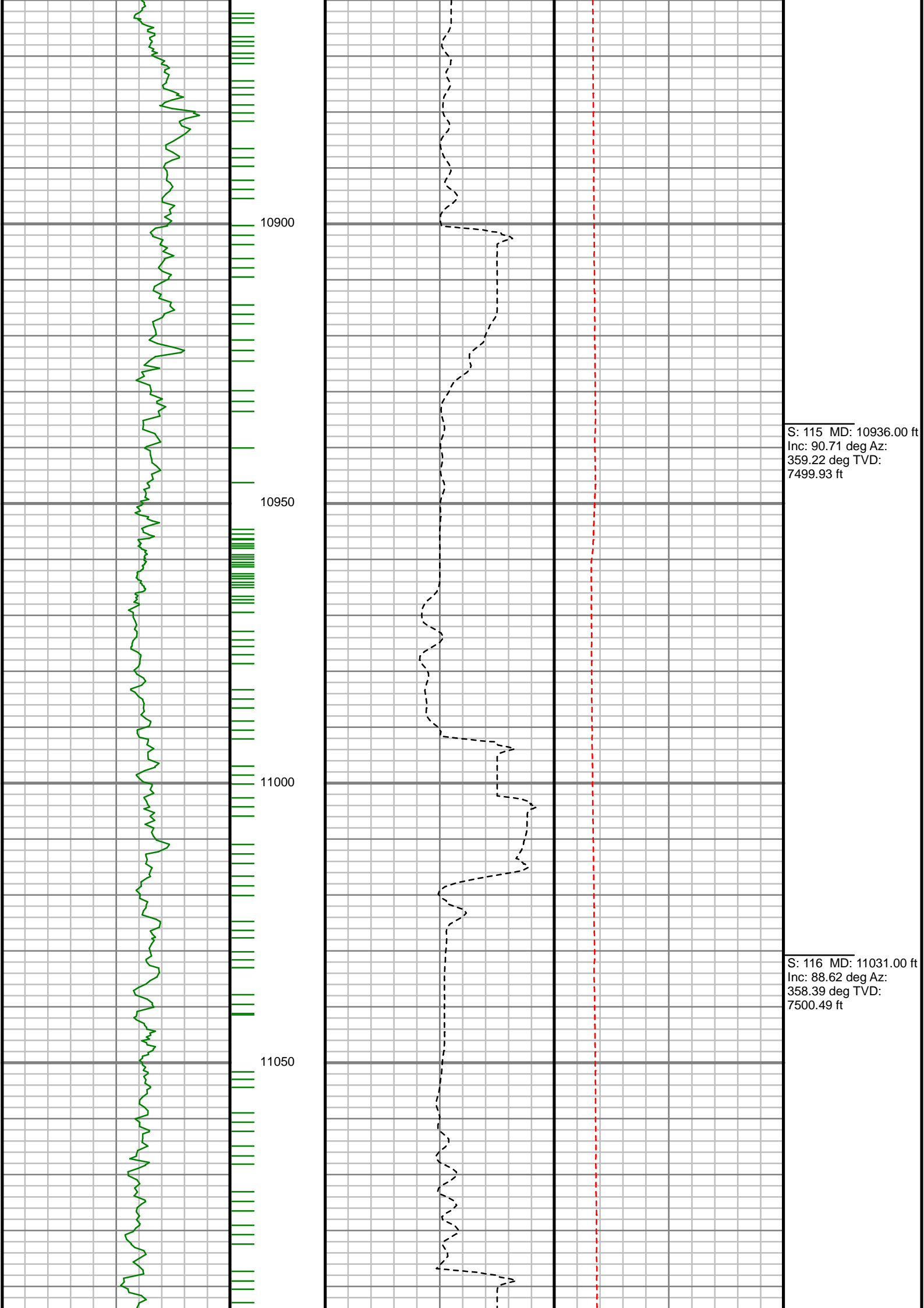
S: 111 MD: 10558.00 ft
Inc: 90.13 deg Az:
357.89 deg TVD:
7491.46 ft

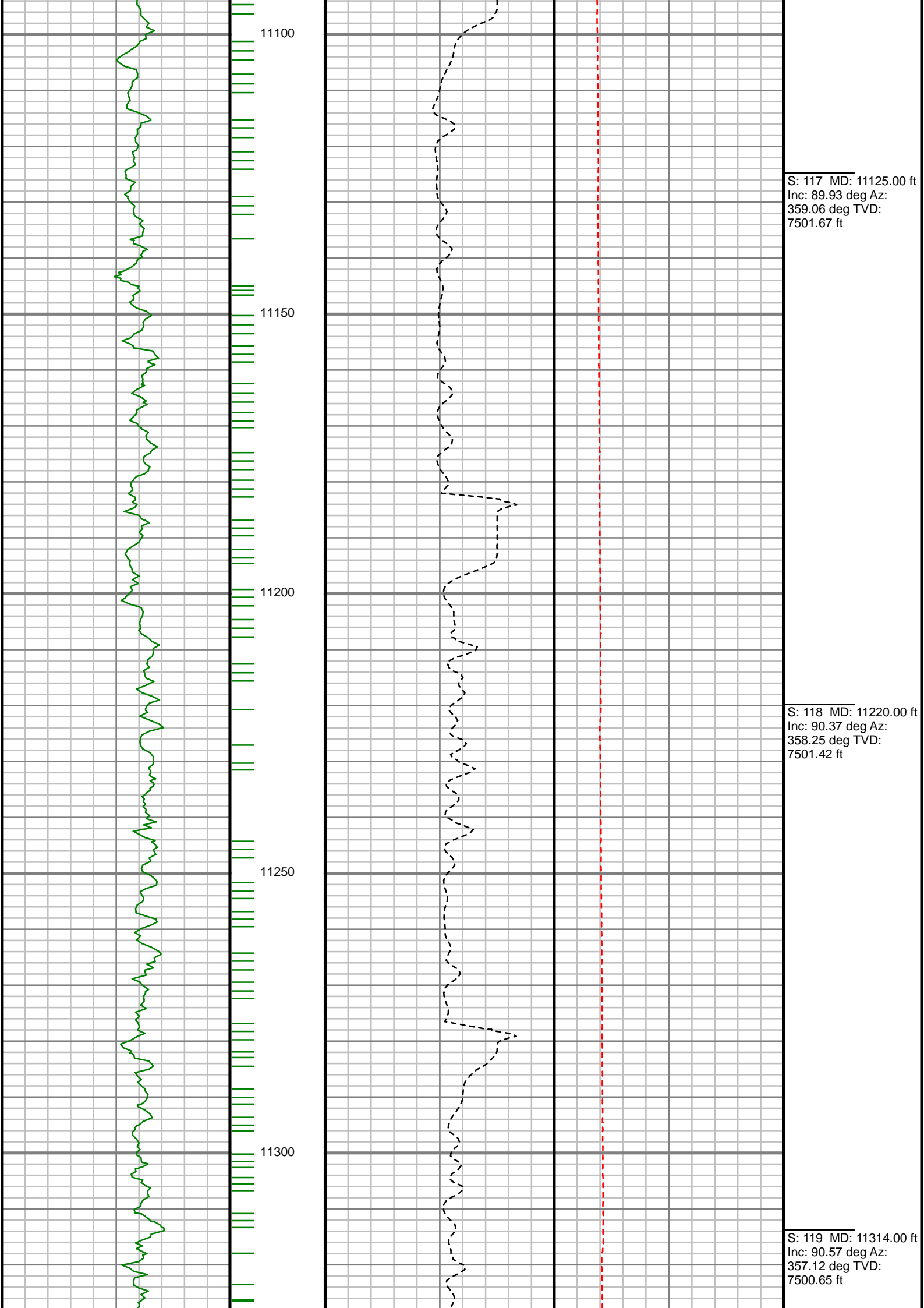


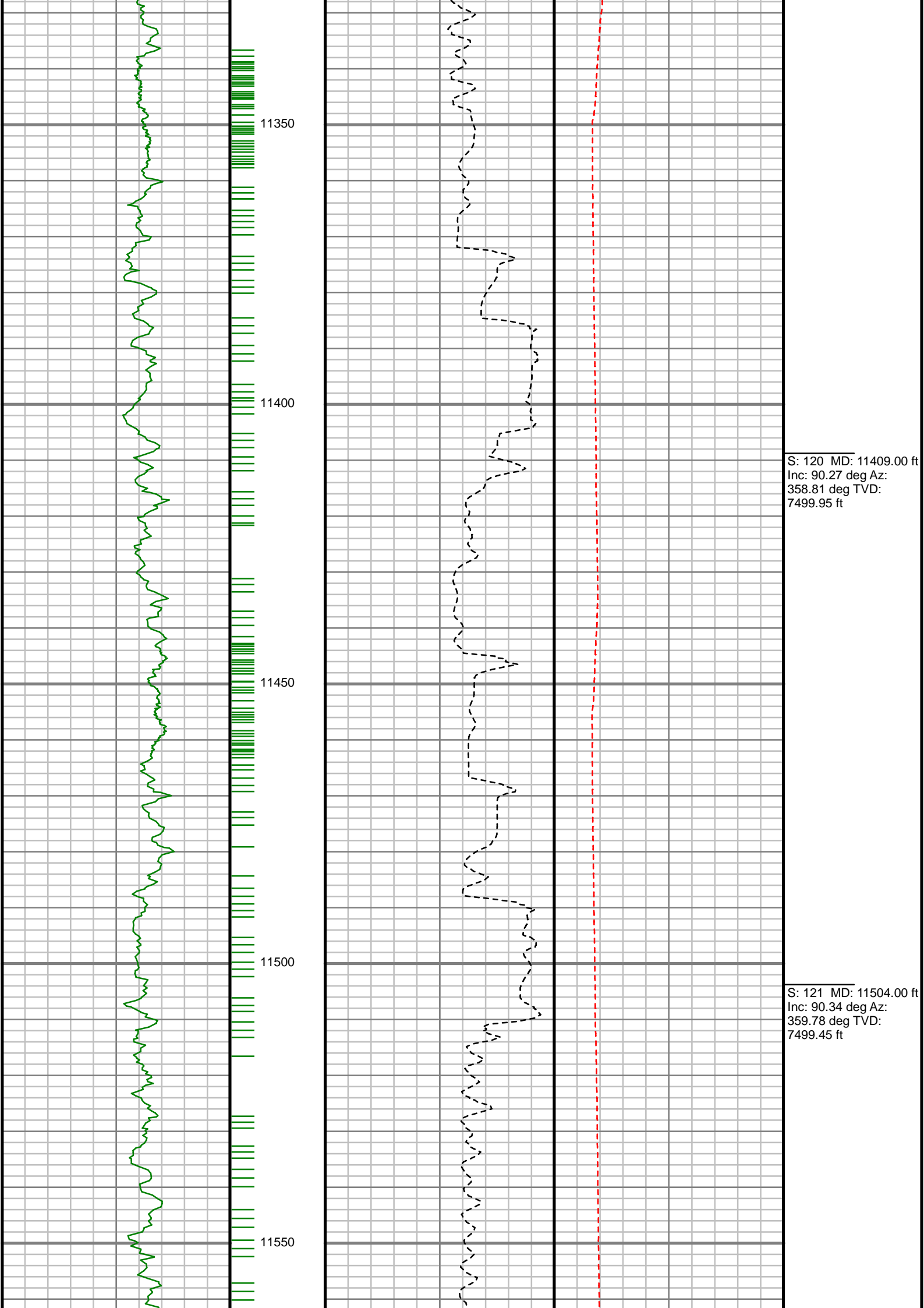
S: 112 MD: 10652.00 ft
Inc: 87.89 deg Az:
358.16 deg TVD:
7493.09 ft

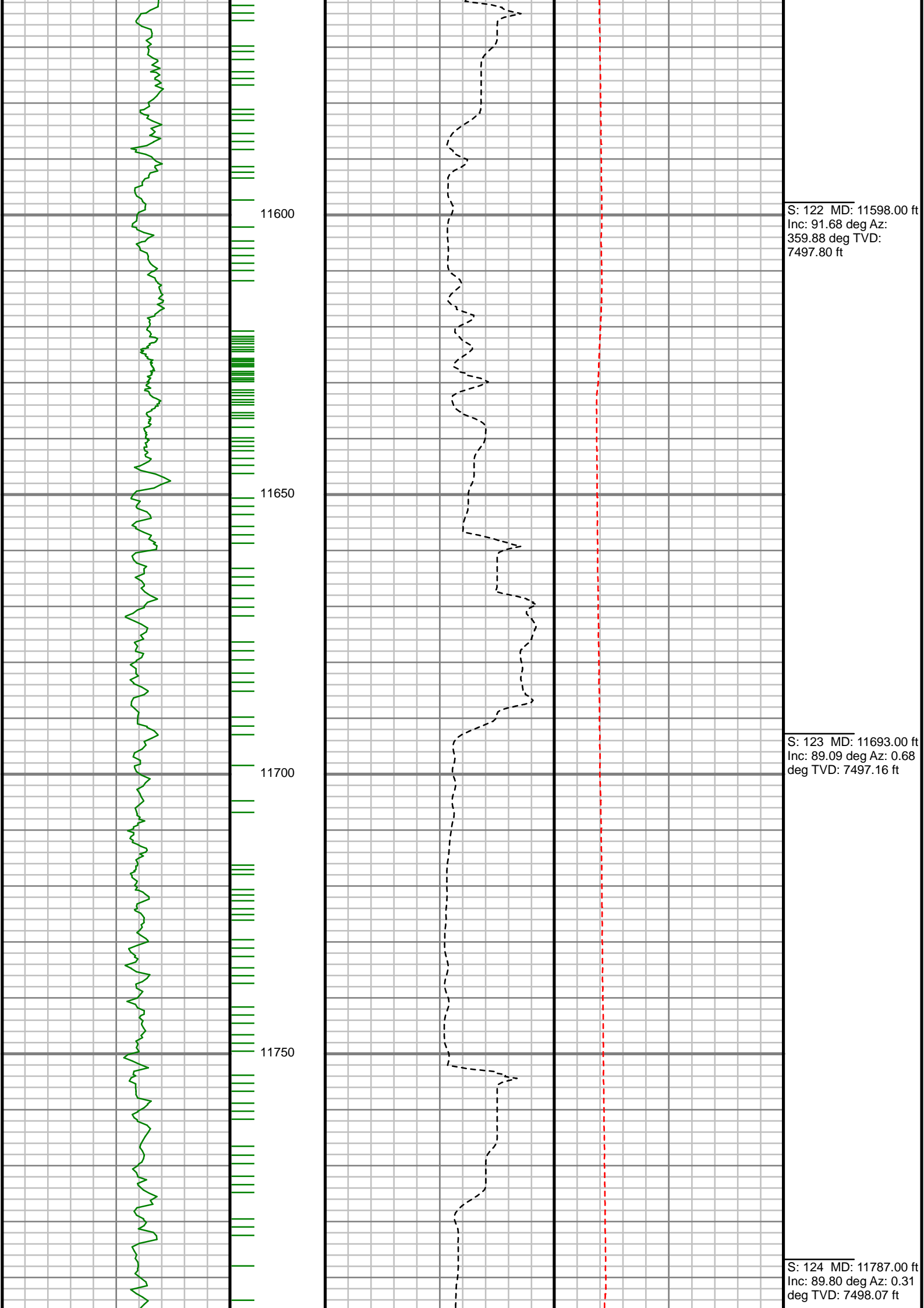
S: 113 MD: 10747.00 ft
Inc: 87.82 deg Az:
356.84 deg TVD:
7496.65 ft

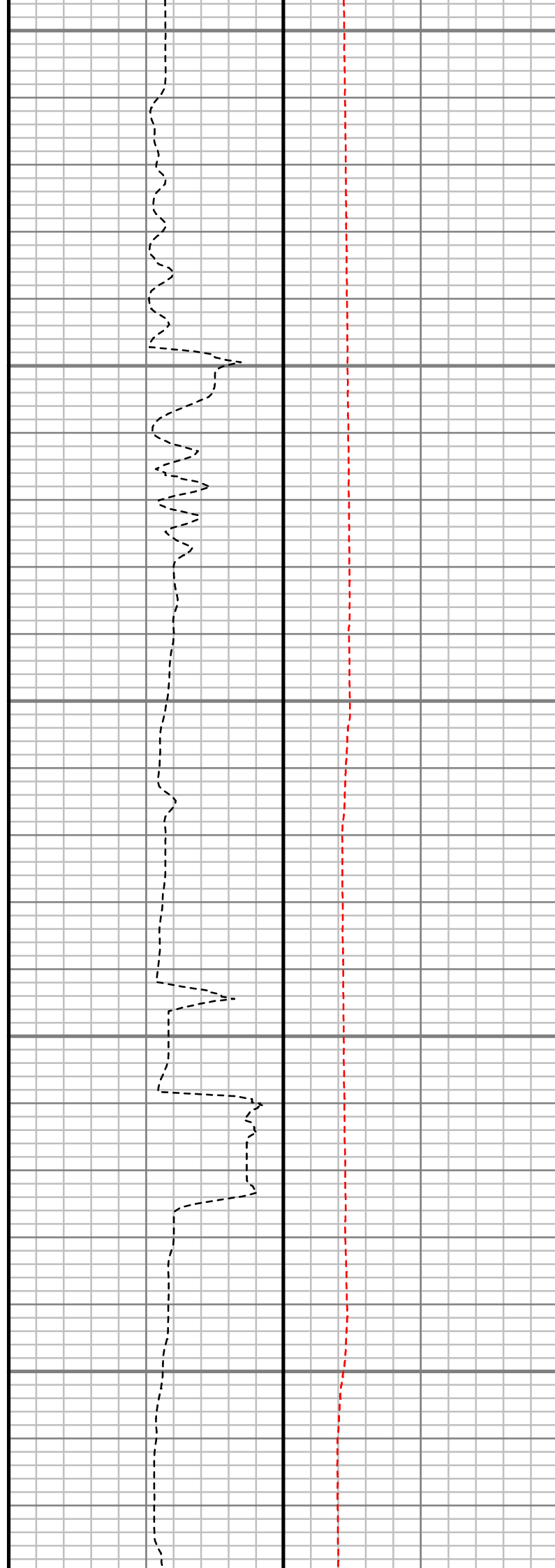
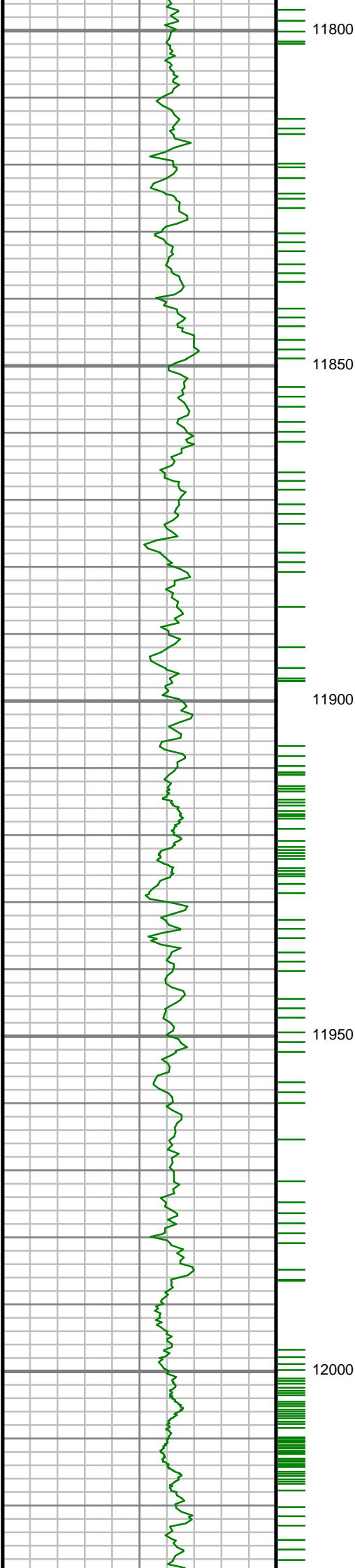
S: 114 MD: 10842.00 ft
Inc: 88.76 deg Az:
358.59 deg TVD:
7499.49 ft





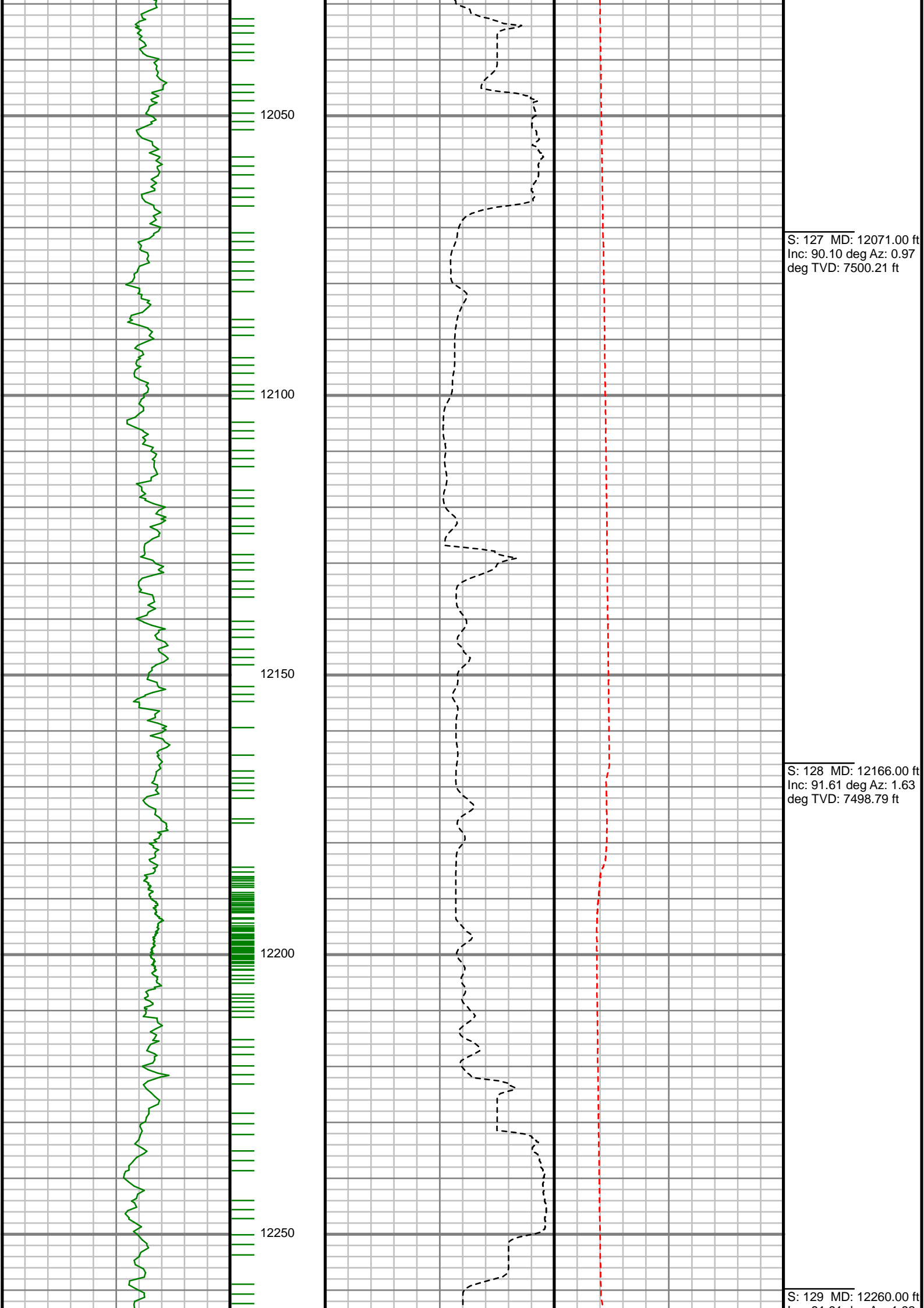


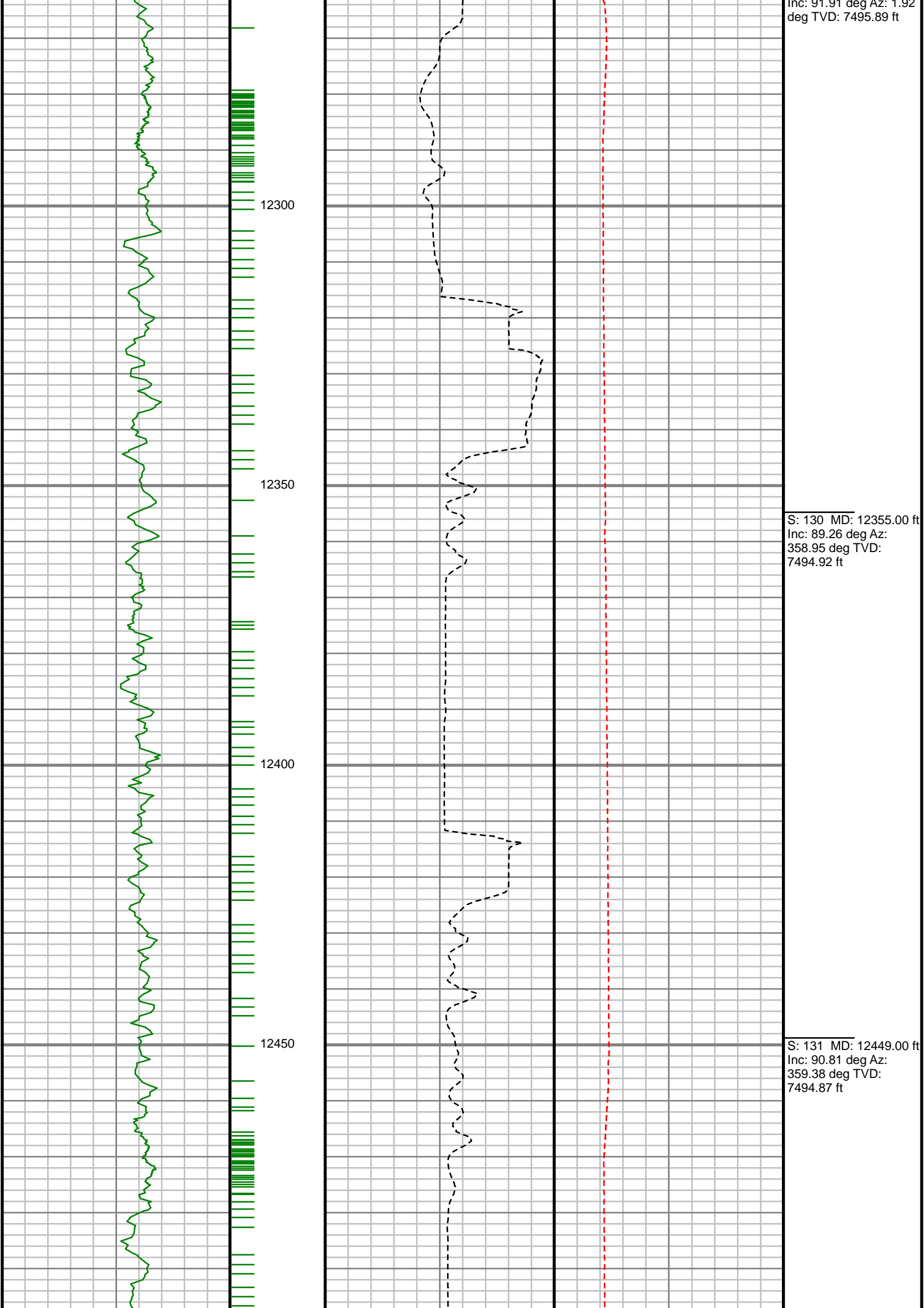




S: 125 MD: 11882.00 ft
Inc: 89.43 deg Az:
358.77 deg TVD:
7498.71 ft

S: 126 MD: 11977.00 ft
Inc: 89.33 deg Az:
359.58 deg TVD:
7499.74 ft

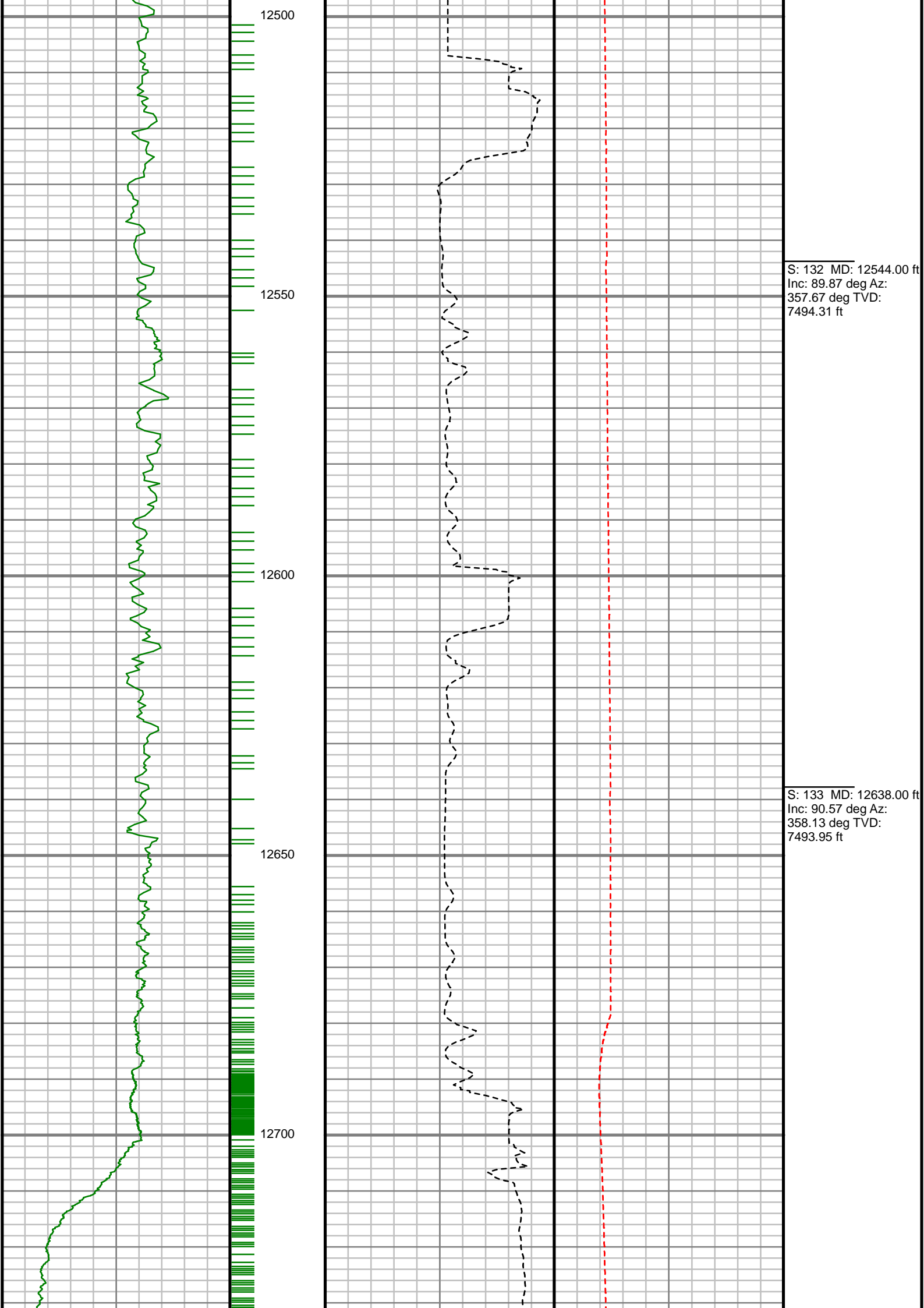


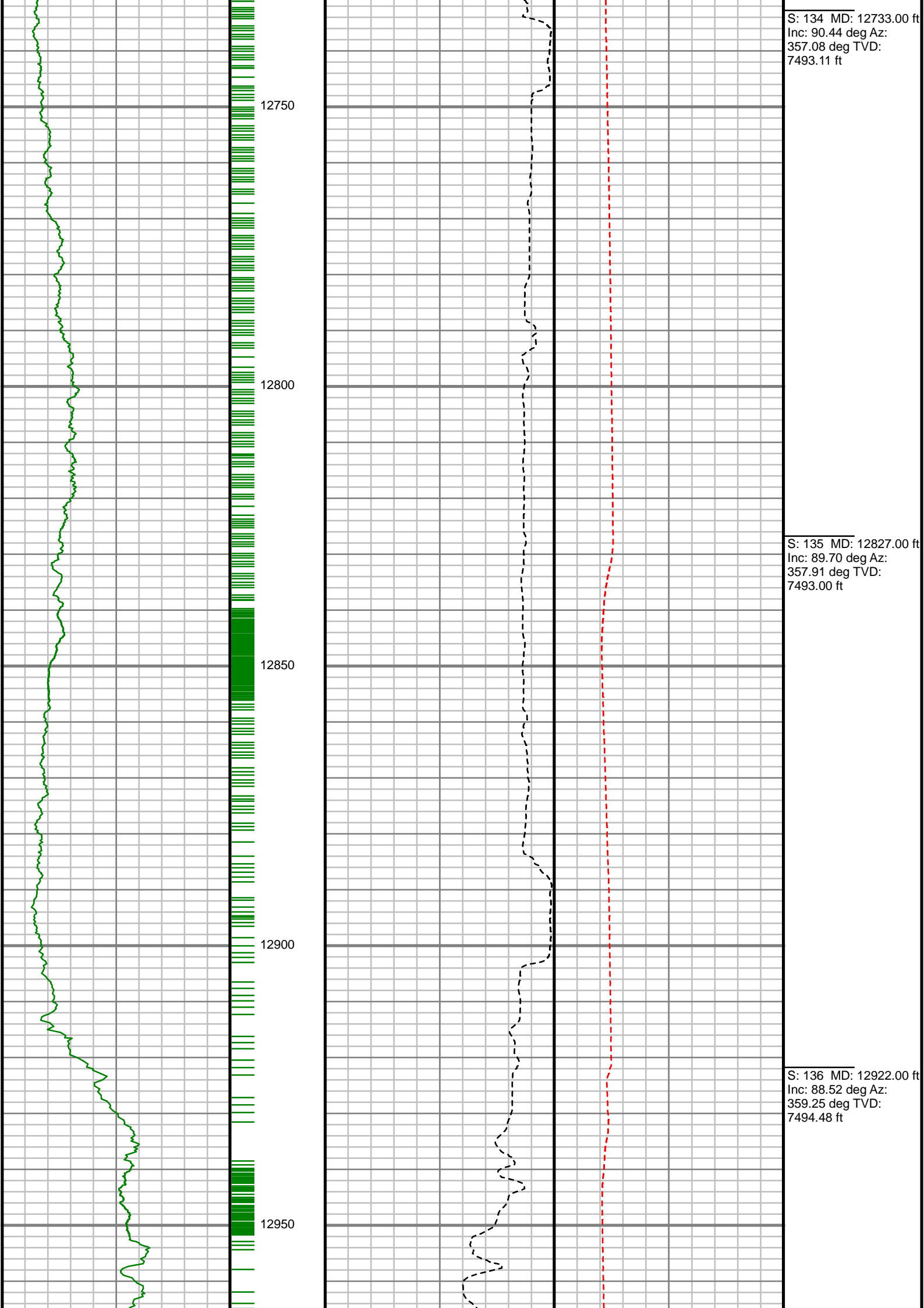


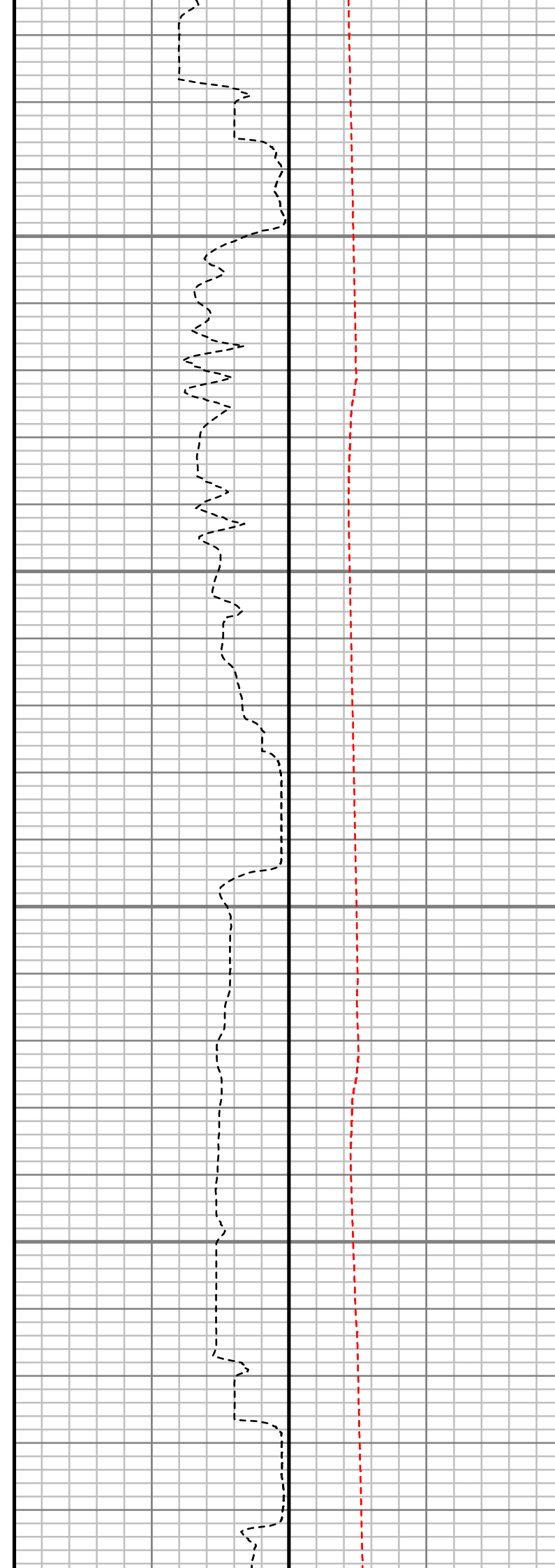
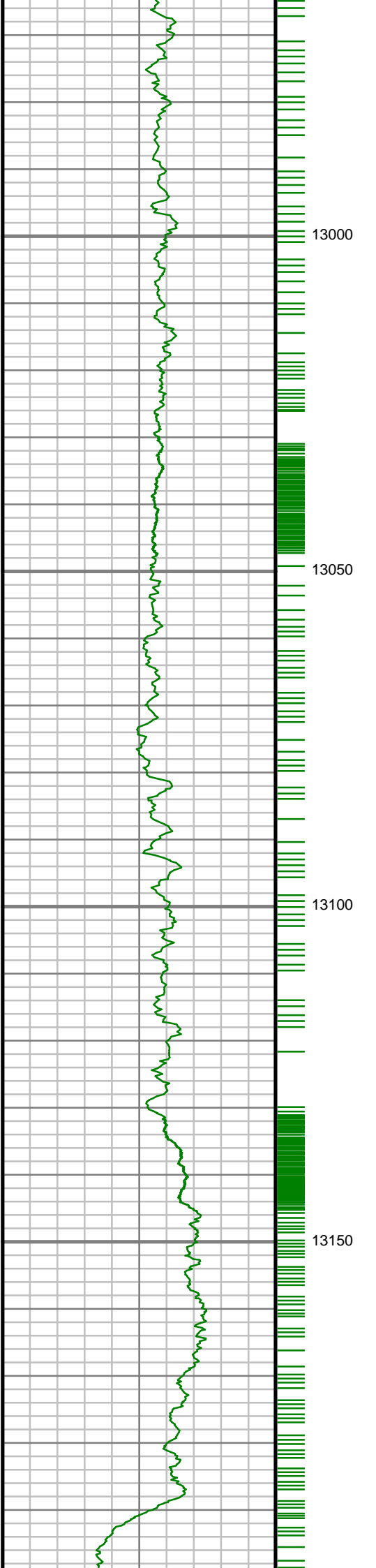
Inc: 91.91 deg Az: 1.92
deg TVD: 7495.89 ft

S: 130 MD: 12355.00 ft
Inc: 89.26 deg Az:
358.95 deg TVD:
7494.92 ft

S: 131 MD: 12449.00 ft
Inc: 90.81 deg Az:
359.38 deg TVD:
7494.87 ft

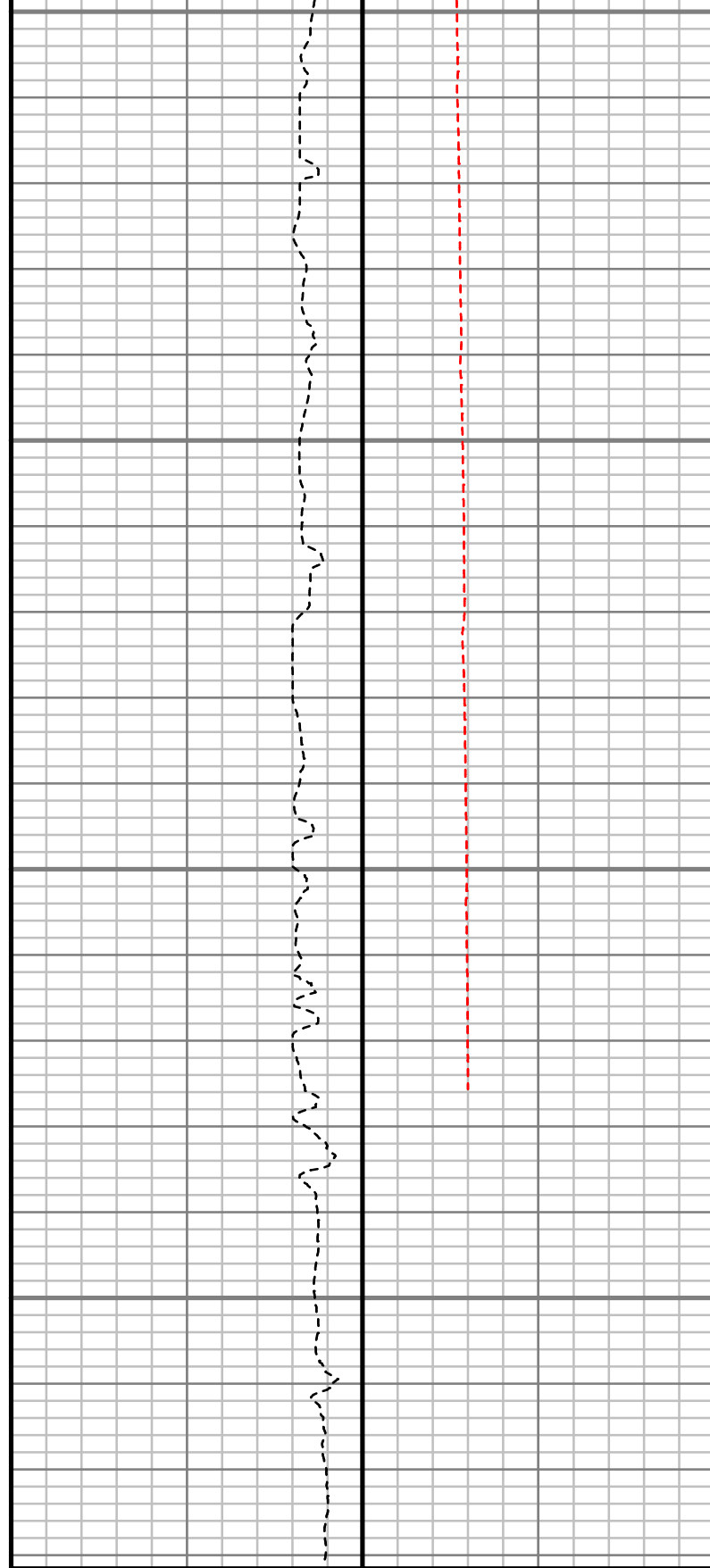
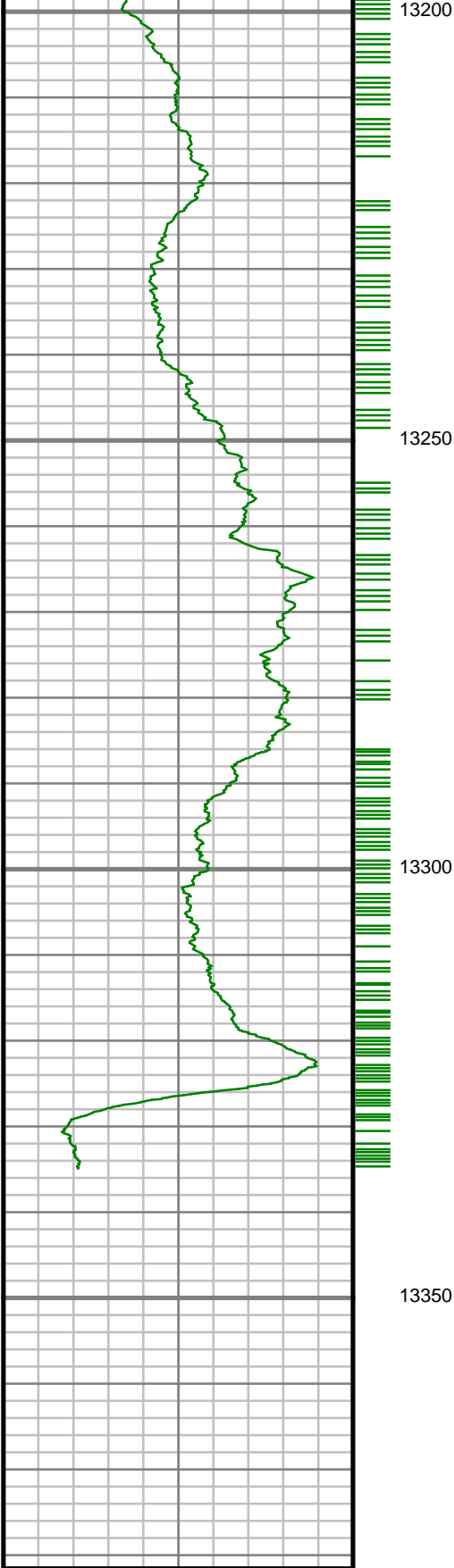






S: 137 MD: 13016.00 ft
Inc: 88.22 deg Az:
358.23 deg TVD:
7497.16 ft

S: 138 MD: 13111.00 ft
Inc: 86.57 deg Az:
359.77 deg TVD:
7501.47 ft



S: 139 MD: 13206.00 ft
Inc: 88.72 deg Az:
359.85 deg TVD:
7505.37 ft

S: 140 MD: 13324.00 ft
Inc: 88.96 deg Az:
358.50 deg TVD:
7507.76 ft

Gamma Ray (GR)

0Unit = aapi150

MEASURED DEPTH
1:240 (ft)

Rate of Penetration (ROP)

1000Unit = ft/hr0

Tool Temperature (T-TEMP)

200Unit = °F300

Comments



GAMMA RAY

5" = 100' FEET MD