



5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC  
WELL : BANE 27N2-9H2  
FIELD : WATTENBERG  
COUNTY : WELD  
STATE : COLORADO  
COUNTRY : U.S.A.  
UWI : 05-123-41304

COMPANY : ANADARKO E&P ONSHORE LLC

WELL : BANE 27N2-9HZ

FIELD : WATTENBERG

COUNTY : WELD

STATE : COLORADO

COUNTRY : U.S.A.

UWI : 05-123-41304

WELL LOCATION

LAT:40°3'37.595"N LONG:104°39'53.050"W  
N:14548919.97 ft E:1734224.92 ft

SEC:1N TWP:65W RANGE:09

OTHER SERVICES

DIRECTIONAL  
ROP

DEPTH REF. : RKB

REF. HEIGHT : 25.000 ft RKB to Ground Level

GROUND LEVEL : 4964.000 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	1605	11984	0-15	1605	6627
			15-90	6627	7717
			90-92	7717	11984

## CASING RECORD


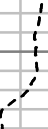

CASING SIZE in	FROM ft	TO ft	
12	0	1595	
			DRILLING CO. : H&P
			RIG : 307
			LWD UNIT NO. : C-46 DISTRICT : CASPER
			SPUD DATE : 06/15/15
			LWD START DATE : 06/17/2015 DEPTH : 1605 ft
			LWD END DATE : 06/20/2015 DEPTH : 11984 ft
			TOTAL DEPTH : 11984 ft

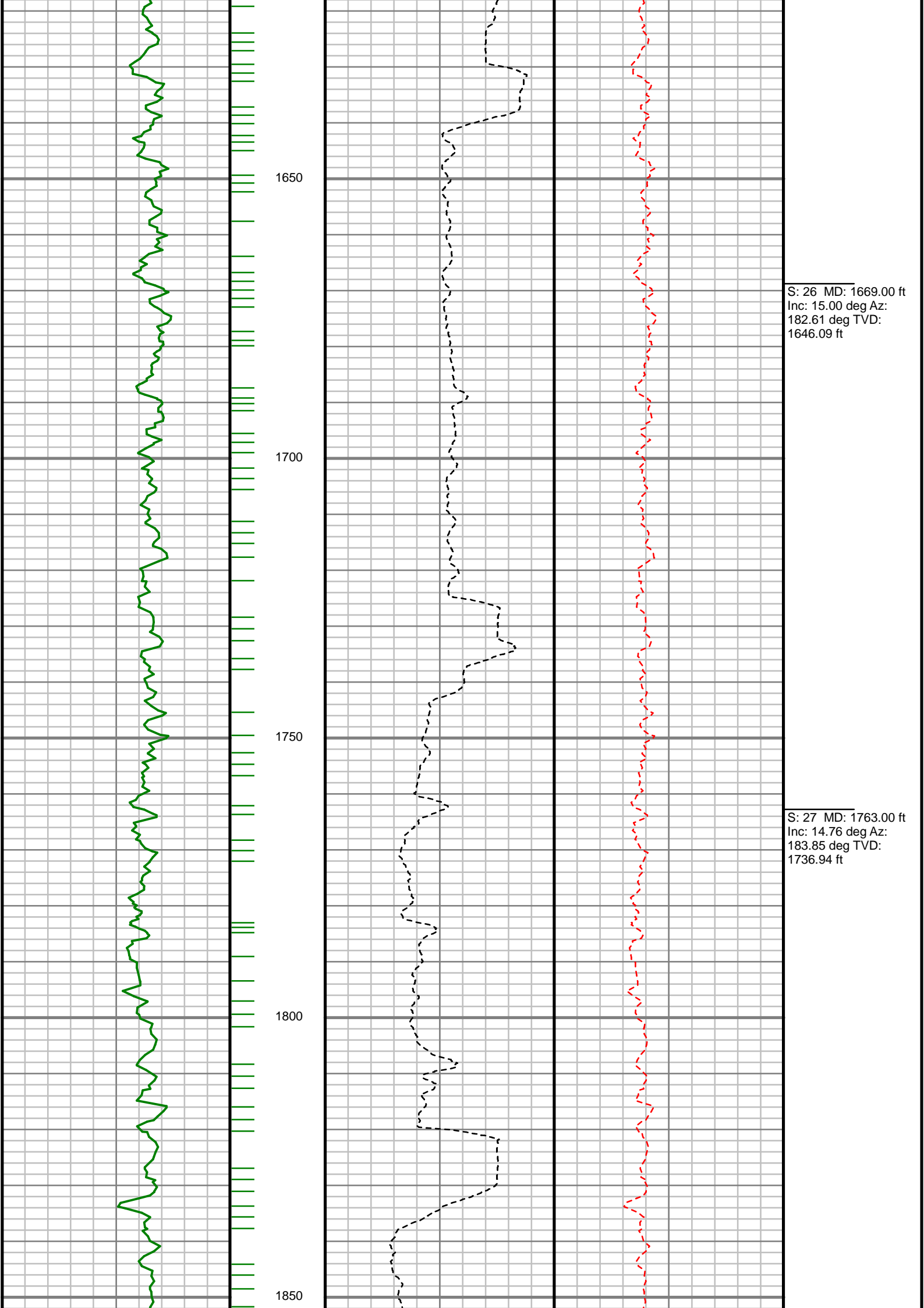
Run Data

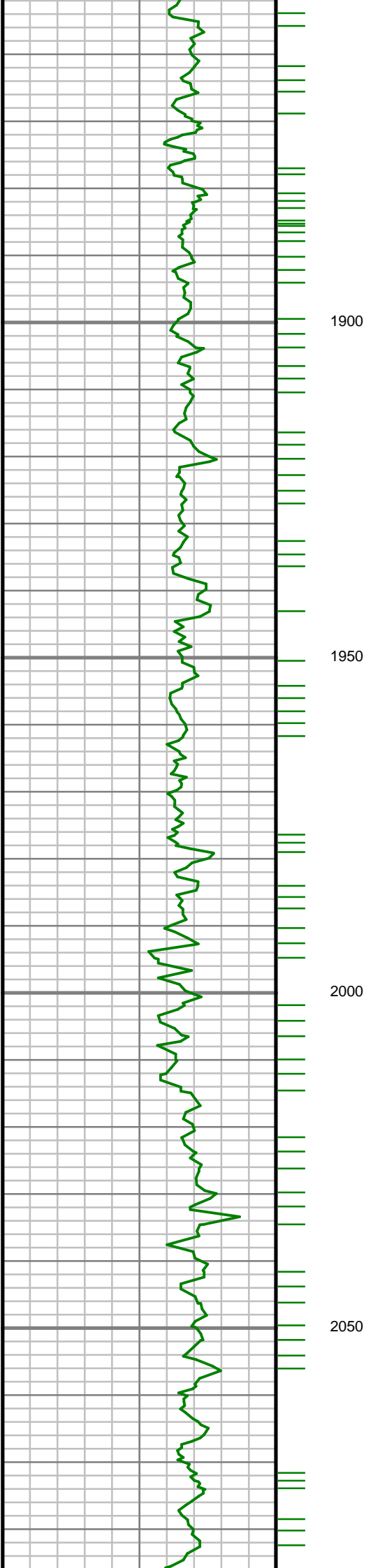
Run Data						
RUN NUMBER	1					
START DATE	06/17/2015					
START TIME	1830					
END DATE	06/20/2015					
END TIME	1930					
DEPTH IN (ft)	1605					
DEPTH OUT (ft)	11984					
LOG TOP (ft)	1560					
LOG BOTTOM (ft)	11939					
HOLE SIZE (in)	8.5					
MUD DATA @ (ft)	1605					
MUD TYPE	OIL-BASED					
DENSITY (lb / gal)	9.3					
VISCOSITY (s / qt)	76					
pH	-					
FLUID LOSS (cm <sup>3</sup> / 30)	3					
SALINITY (ppm)	26.64					
Rm (ohmm @ deg F)	-					
Rmf (ohmm @ deg F)	-					
MAX TEMP (deg F)						
Rm @ MAX TEMP (ohmm)	-					
LWD ENGINEER #1	B. GREER					
LWD ENGINEER #2	S. WAXLER					
LWD ENGINEER #3	M. SCHUSTER					
LOG WITNESS #1	R. CANNON					
LOG WITNESS #2	-					

[illegible]

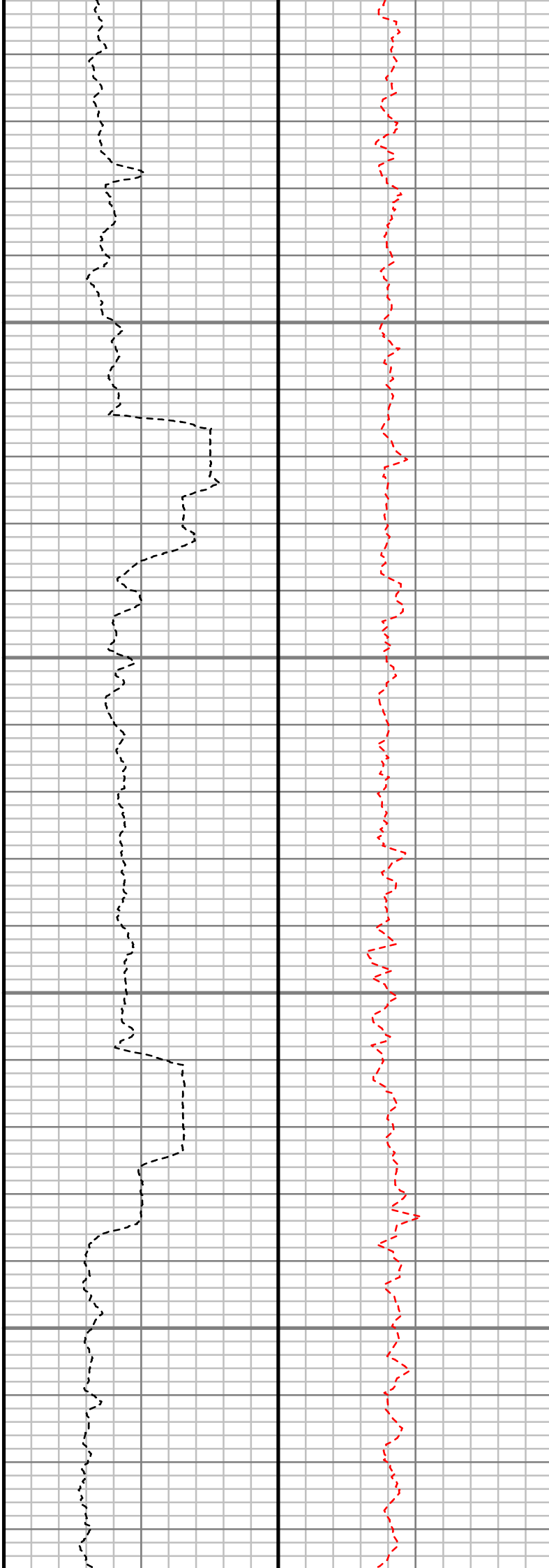
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

ANADARKO E&P ONSHORE LLC BANE 27N2-9HZ WATTENBERG FIELD WELD COUNTY, COLORADO 05-123-41304							
Gamma Ray (GR) 0 Unit = aapi 150		MEASURED DEPTH 1:240 (ft)  1600	Rate of Penetration (ROP) 1000 Unit = ft/hr 0		Gamma Ray (GR) 0 Unit = aapi 250		Comments  S: 25 MD: 1560.00 ft Inc: 14.60 deg Az: 183.00 deg TVD: 1540.70 ft
							



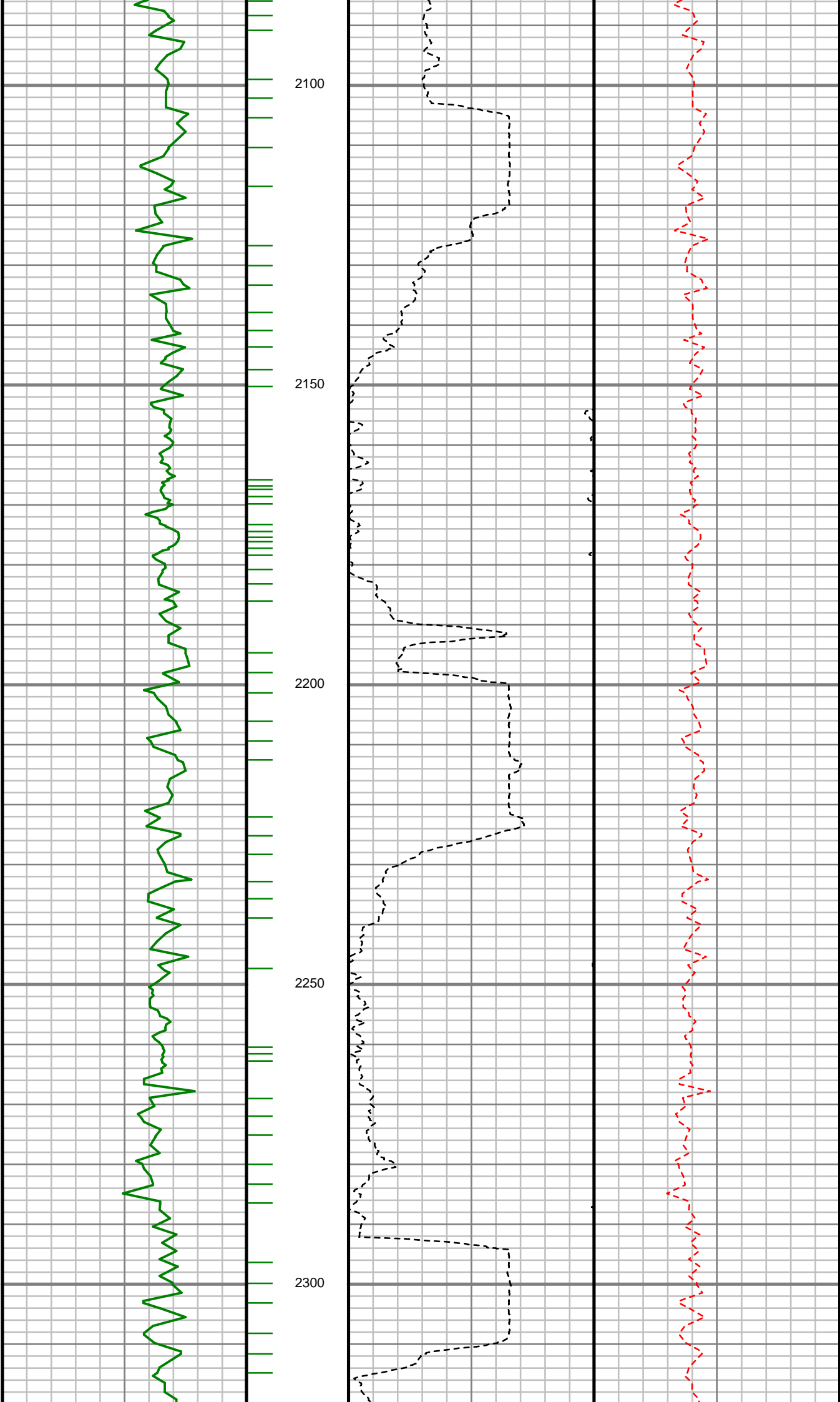


S: 28 MD: 1858.00 ft  
Inc: 14.28 deg Az:  
183.93 deg TVD:  
1828.90 ft



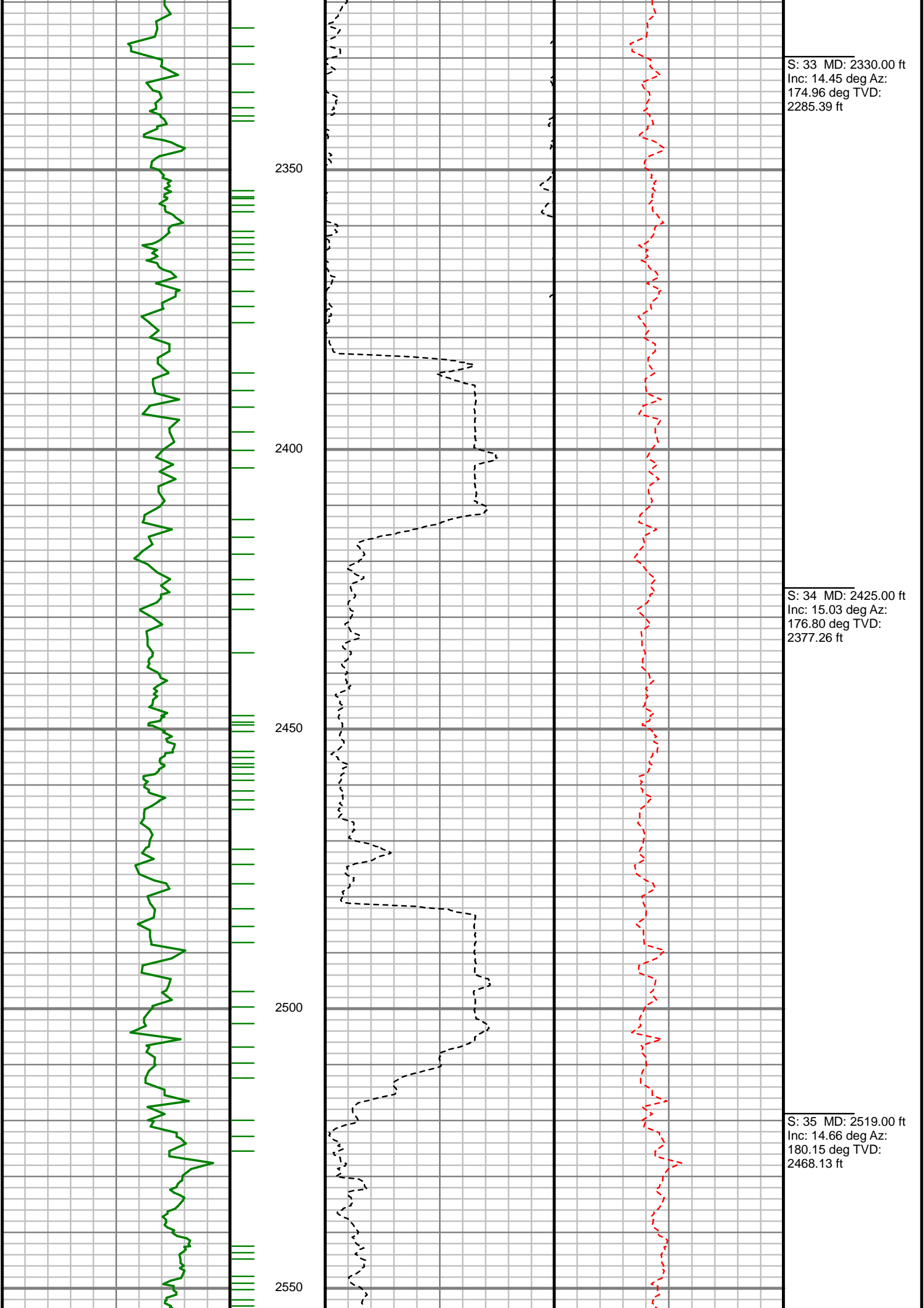
S: 29 MD: 1953.00 ft  
Inc: 15.28 deg Az:  
184.86 deg TVD:  
1920.76 ft

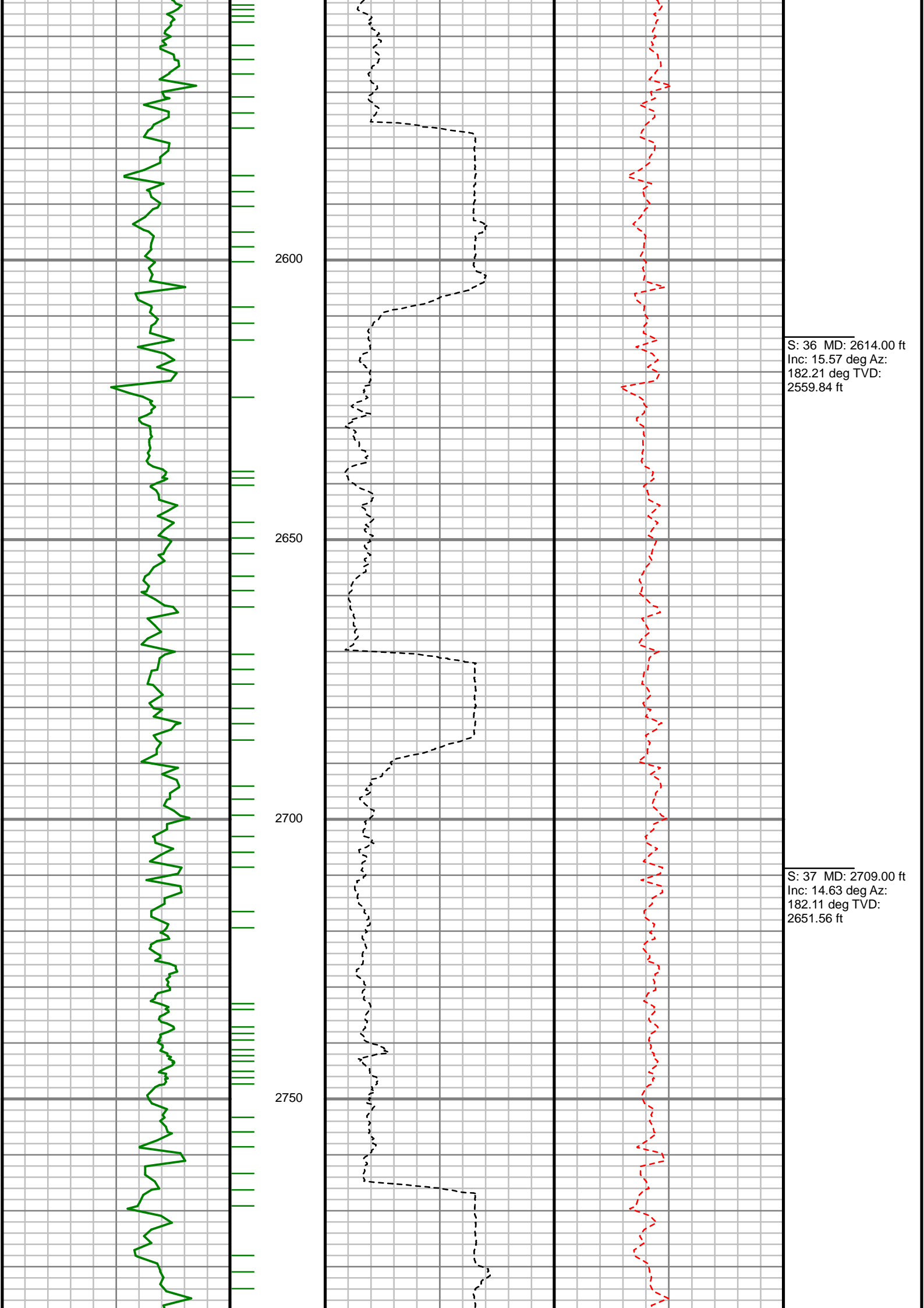
S: 30 MD: 2047.00 ft  
Inc: 14.80 deg Az:  
182.27 deg TVD:  
2011.54 ft

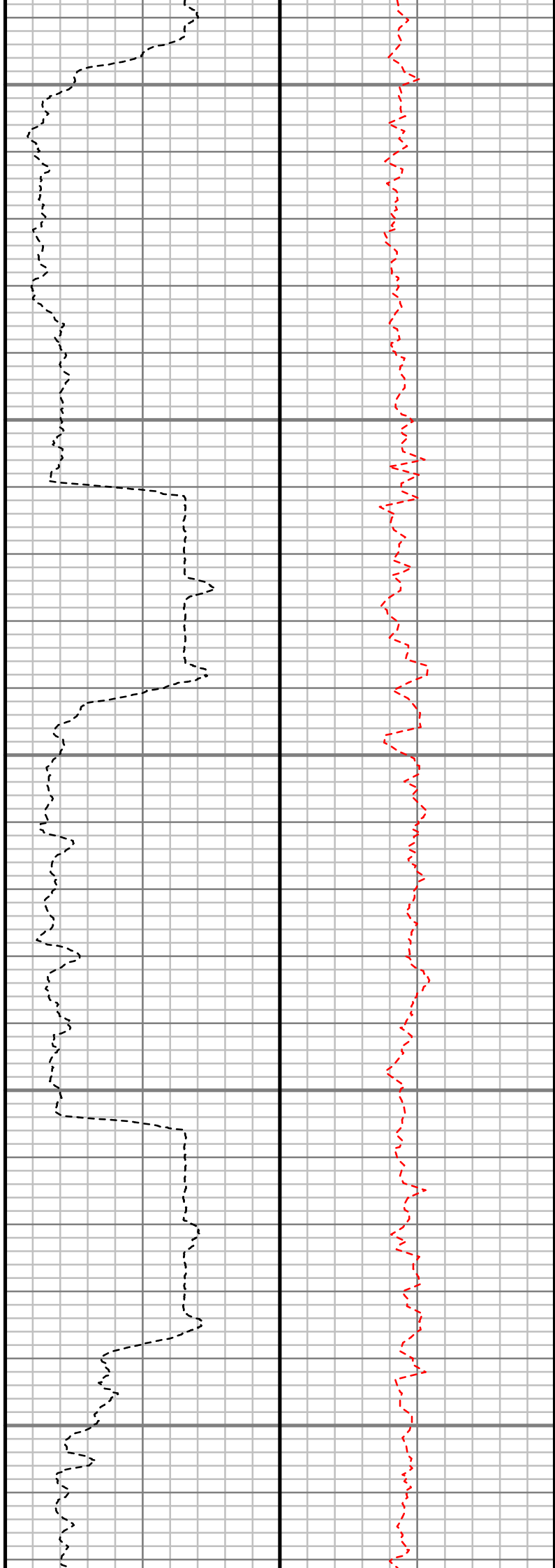
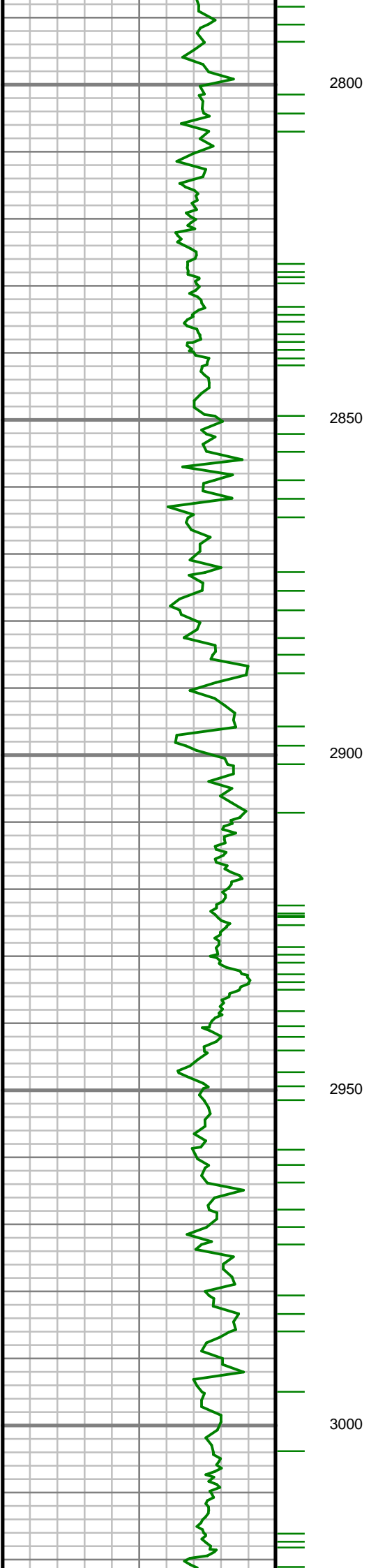


S: 31 MD: 2141.00 ft  
Inc: 13.94 deg Az:  
180.61 deg TVD:  
2102.60 ft

S: 32 MD: 2236.00 ft  
Inc: 15.25 deg Az:  
177.10 deg TVD:  
2194.53 ft





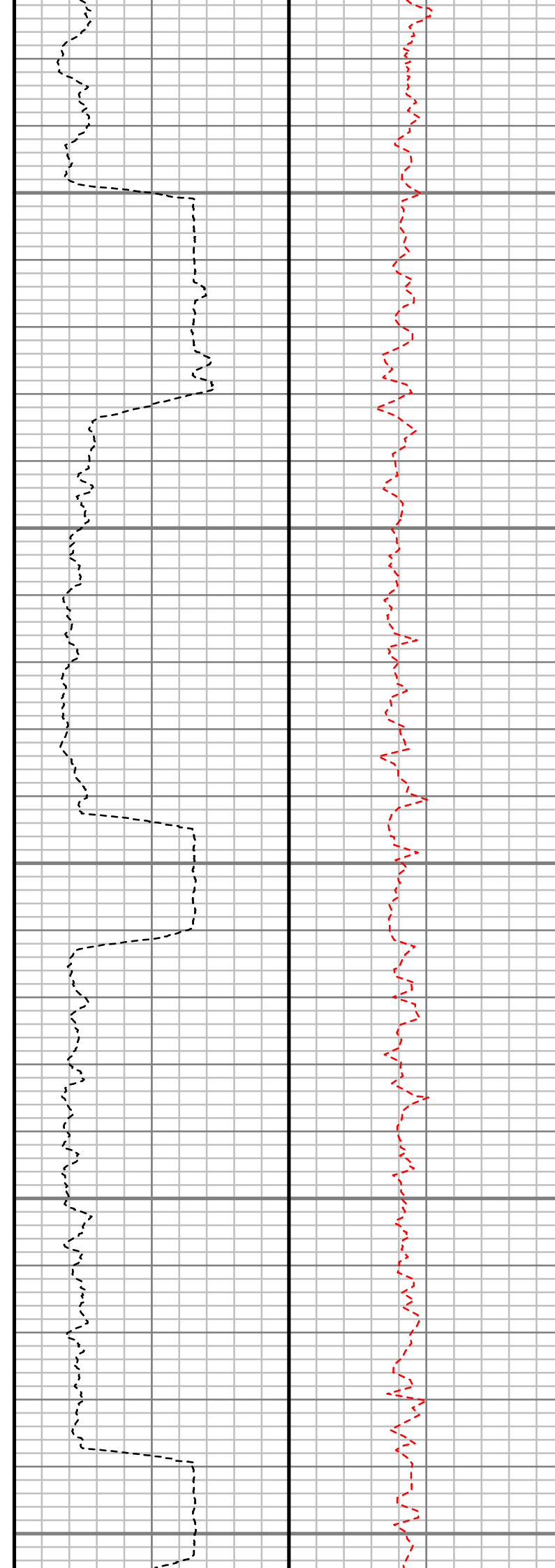
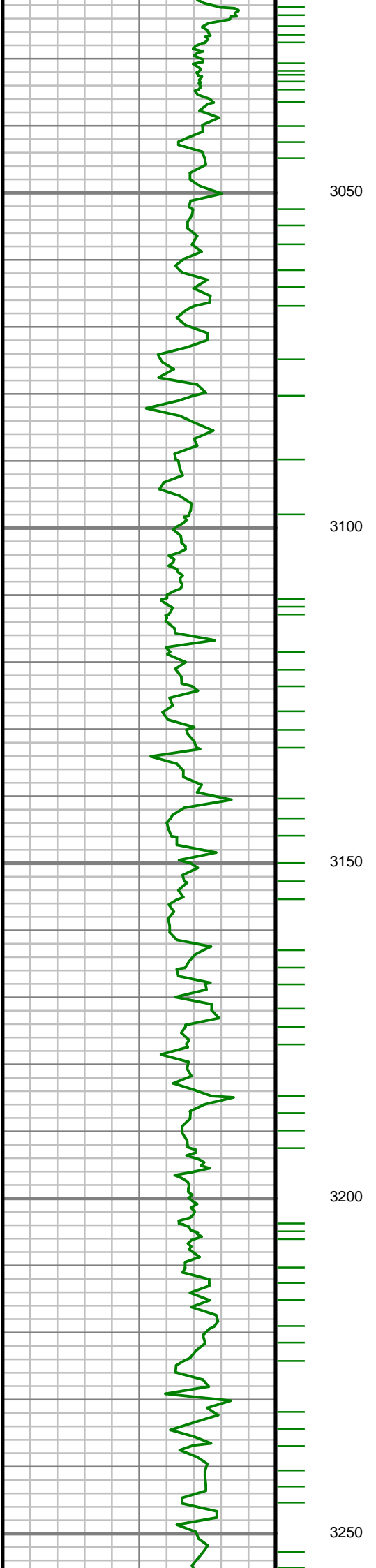


S: 38 MD: 2803.00 ft  
Inc: 13.88 deg Az:  
180.51 deg TVD:  
2742.67 ft

S: 39 MD: 2898.00 ft  
Inc: 14.14 deg Az:  
179.40 deg TVD:  
2834.84 ft

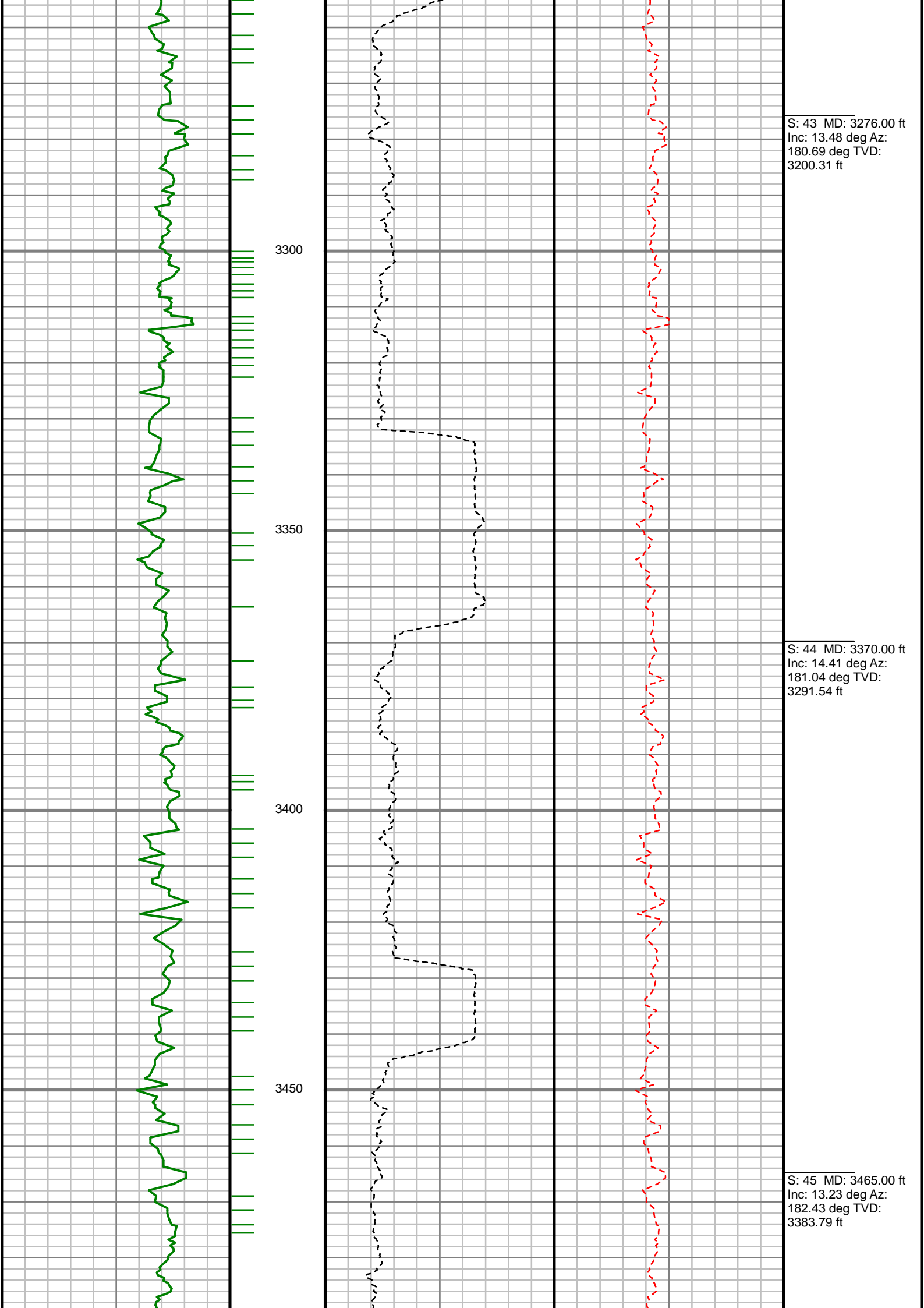
S: 40 MD: 2992.00 ft  
Inc: 14.50 deg Az:  
177.98 deg TVD:  
2925.92 ft

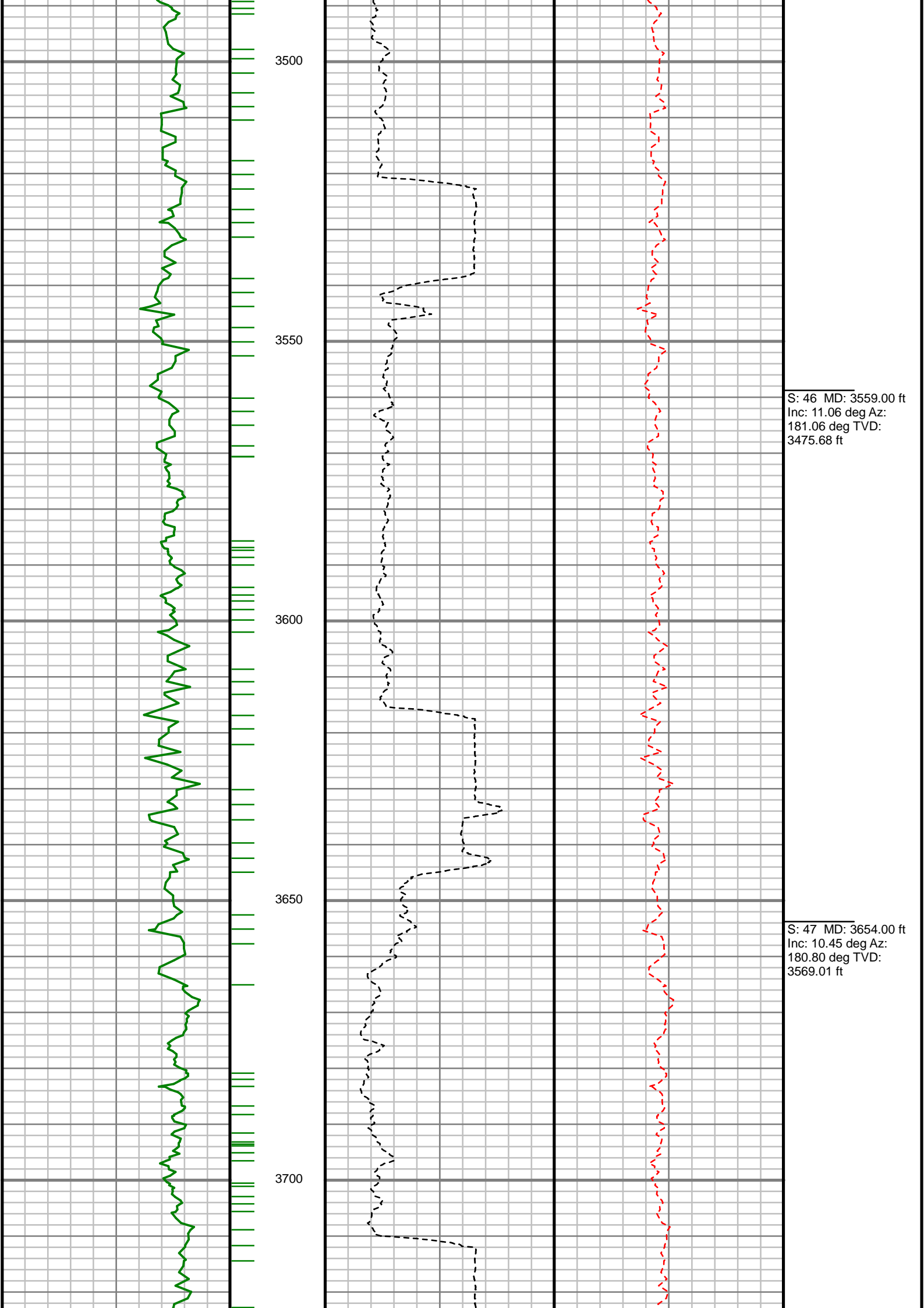


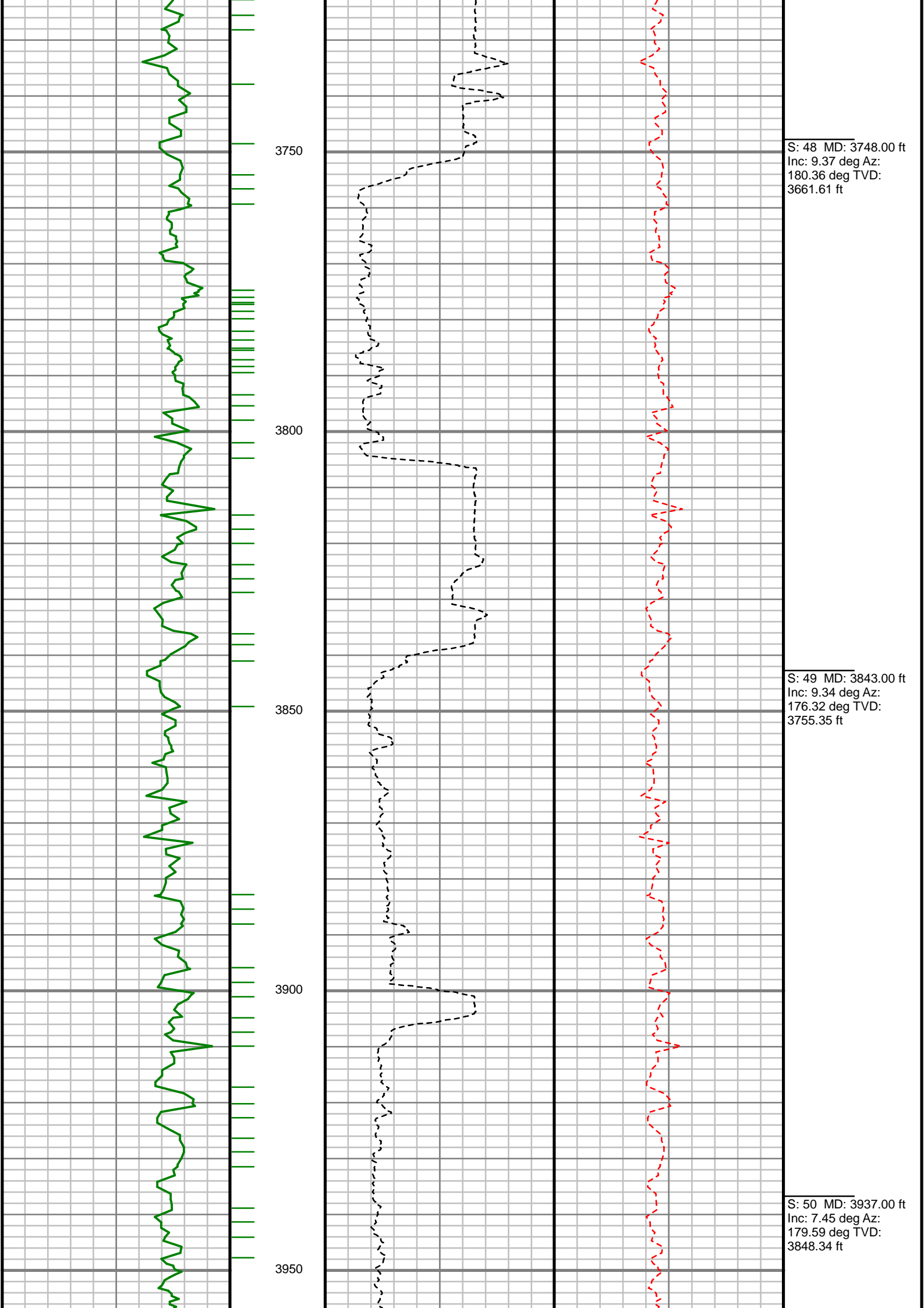


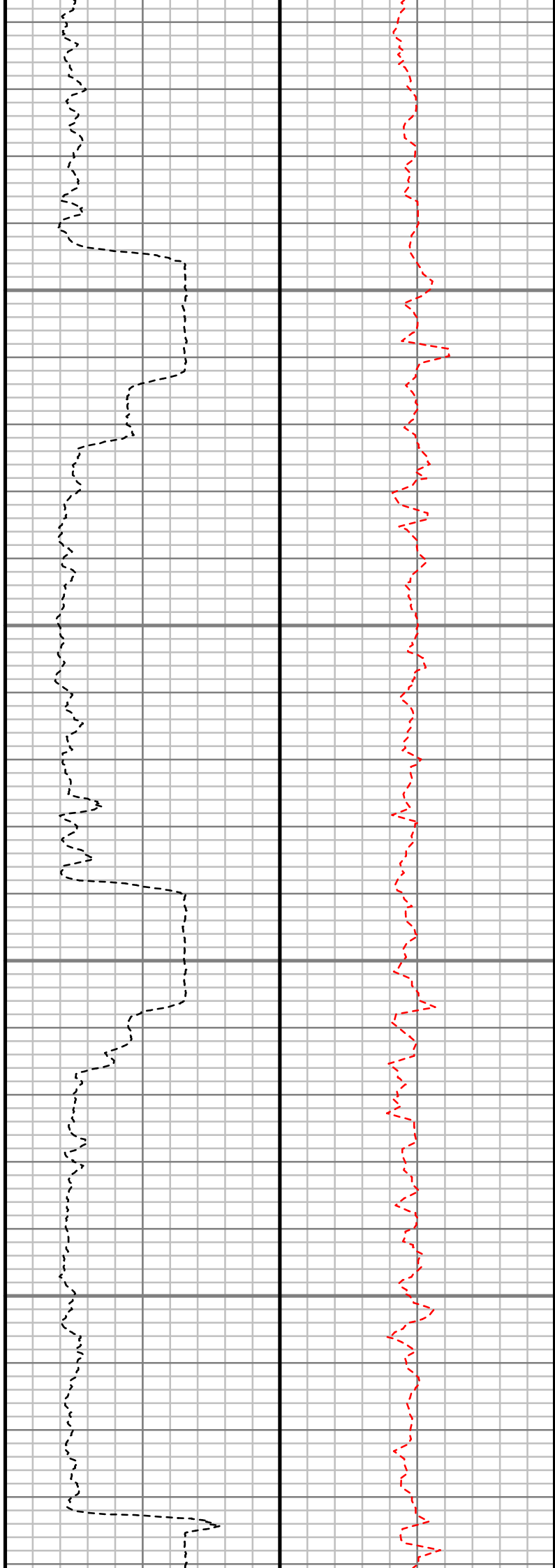
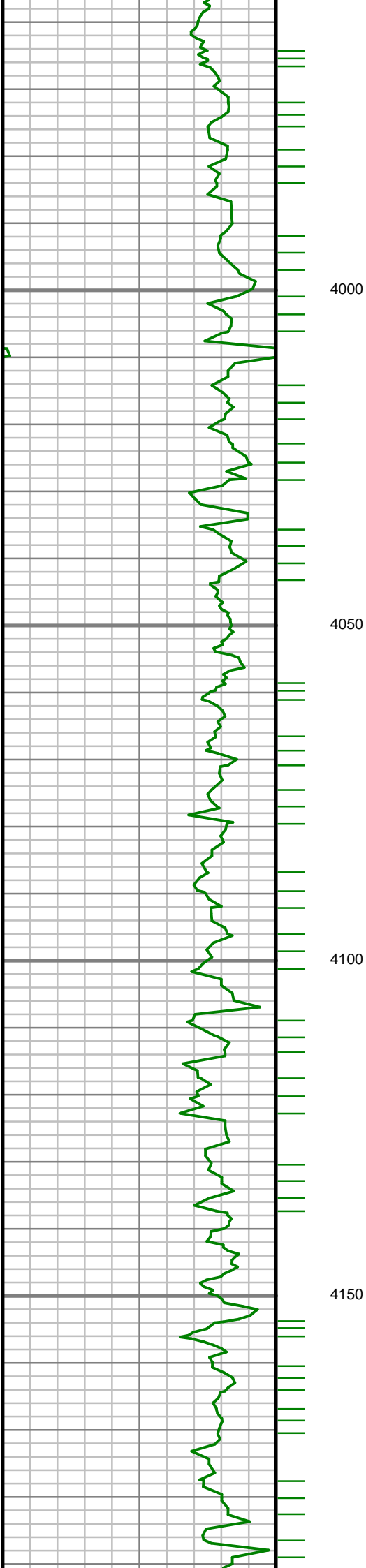
S: 41 MD: 3087.00 ft  
Inc: 15.85 deg Az:  
179.43 deg TVD:  
3017.60 ft

S: 42 MD: 3181.00 ft  
Inc: 14.96 deg Az:  
179.76 deg TVD:  
3108.23 ft



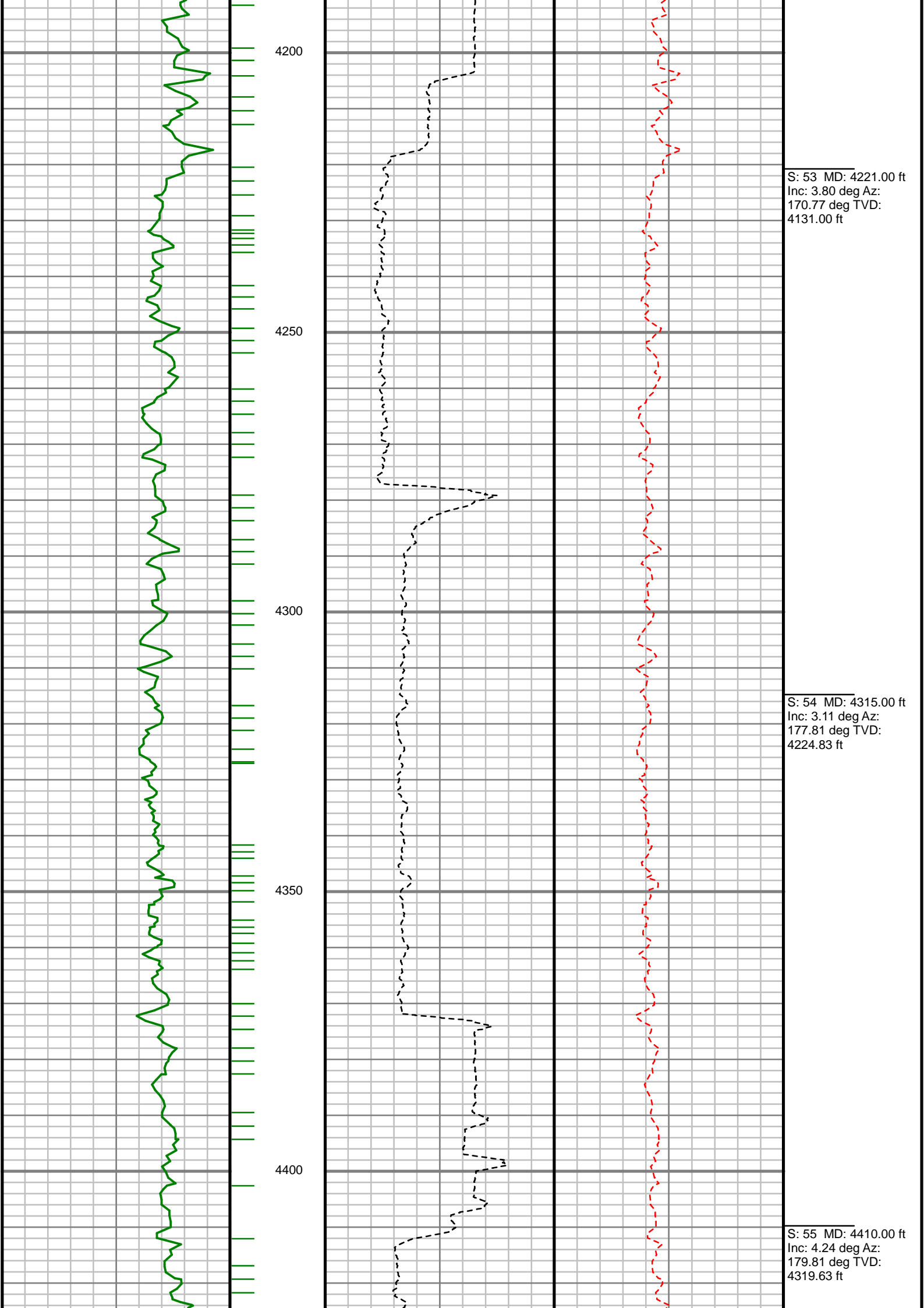


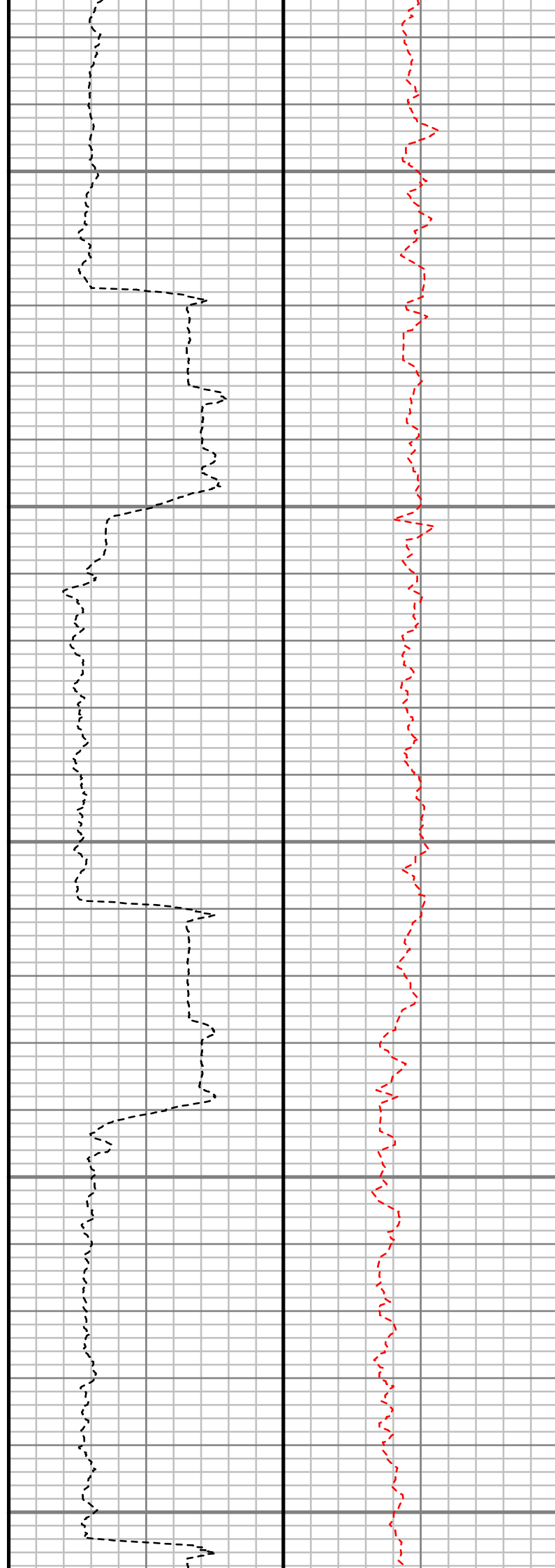
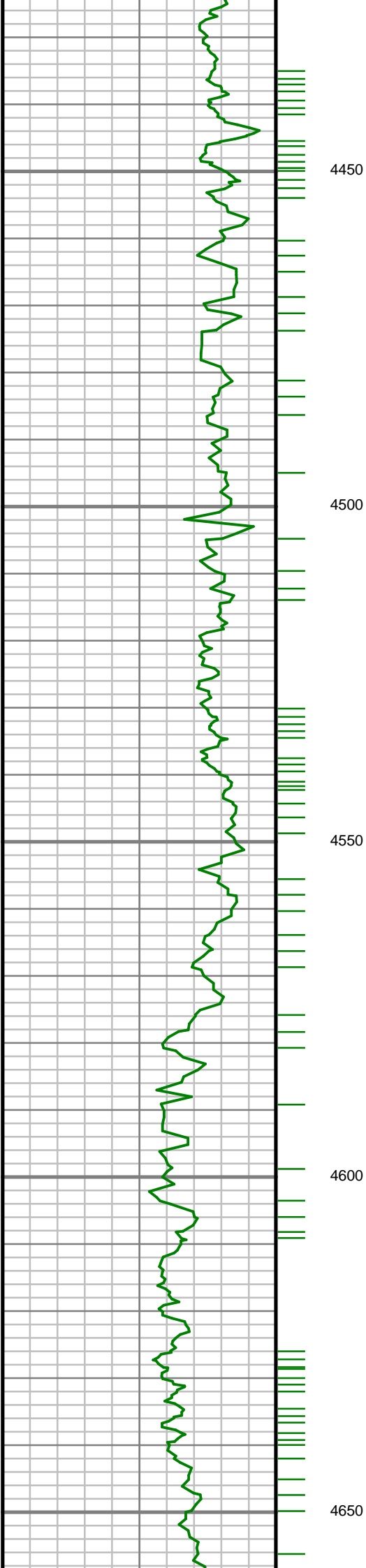




S: 51 MD: 4032.00 ft  
Inc: 6.21 deg Az:  
180.04 deg TVD:  
3942.66 ft

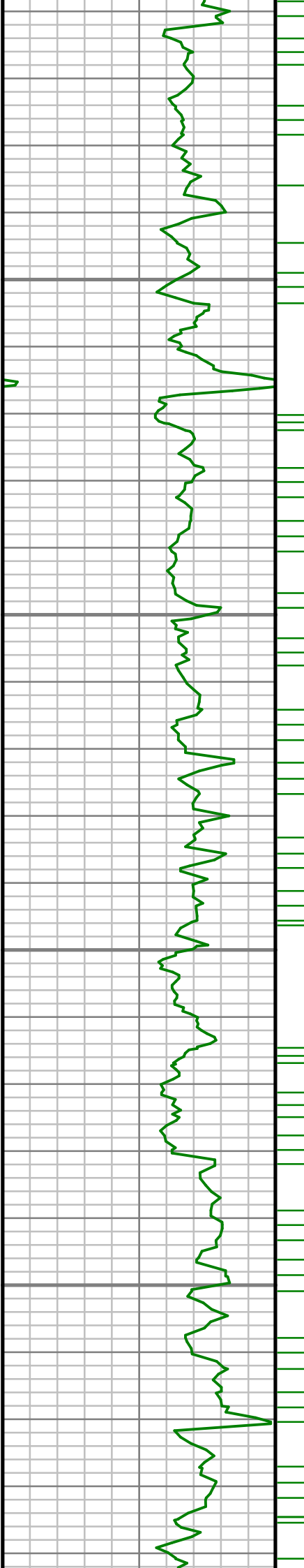
S: 52 MD: 4126.00 ft  
Inc: 4.49 deg Az:  
173.40 deg TVD:  
4036.25 ft





S: 56 MD: 4504.00 ft  
Inc: 1.78 deg Az:  
210.65 deg TVD:  
4413.50 ft

S: 57 MD: 4599.00 ft  
Inc: 0.70 deg Az:  
297.01 deg TVD:  
4508.48 ft

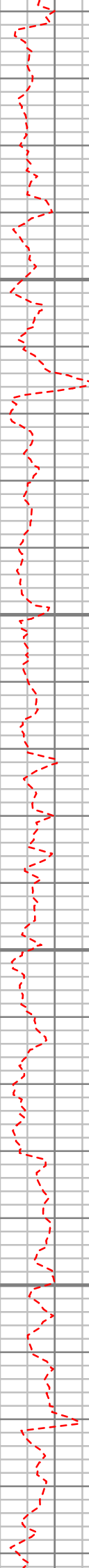
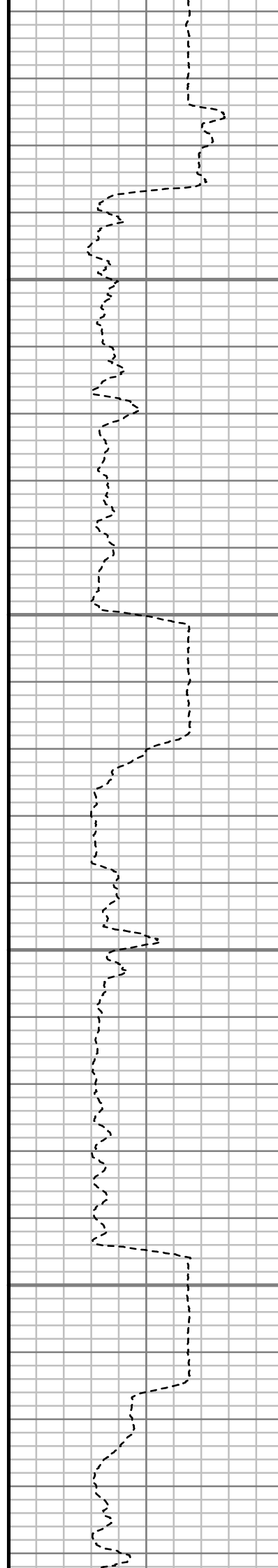


4700

4750

4800

4850

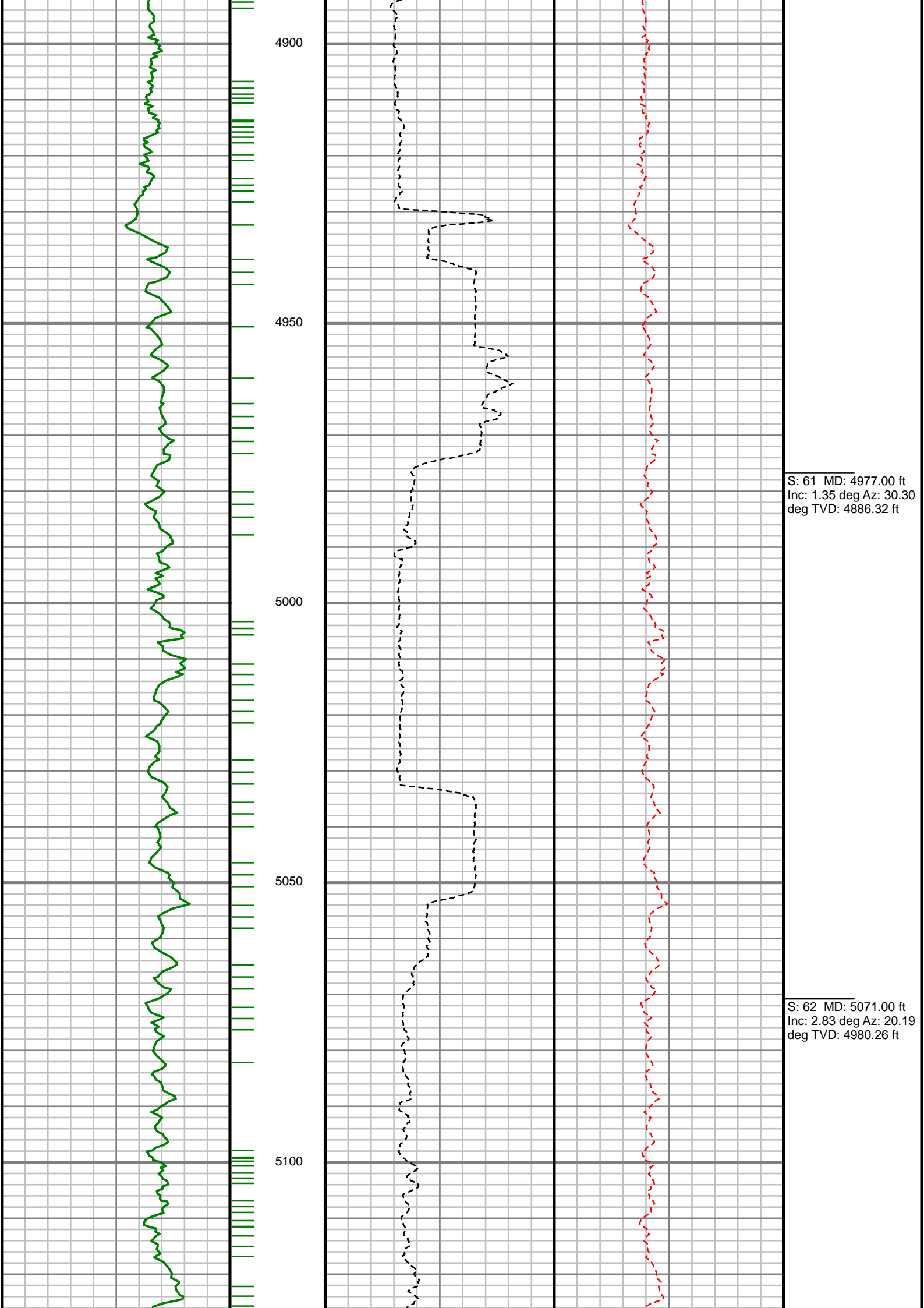


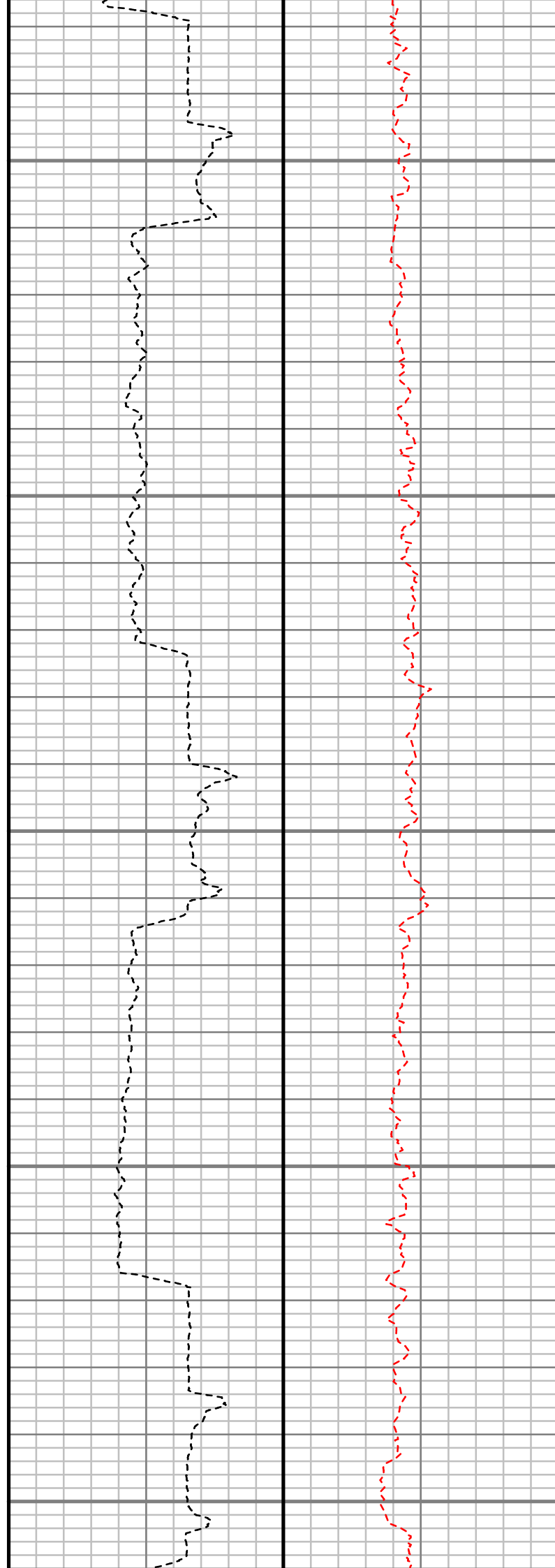
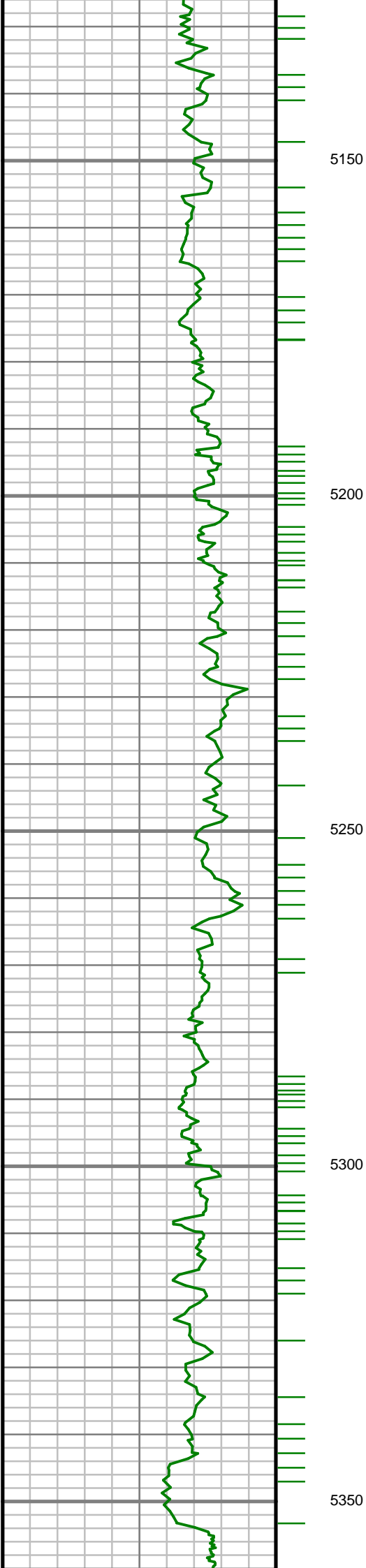
S: 58 MD: 4693.00 ft  
Inc: 1.10 deg Az: 60.00  
deg TVD: 4602.47 ft

S: 59 MD: 4788.00 ft  
Inc: 1.87 deg Az: 20.00  
deg TVD: 4697.44 ft

S: 60 MD: 4882.00 ft  
Inc: 2.47 deg Az: 4.94  
deg TVD: 4791.38 ft



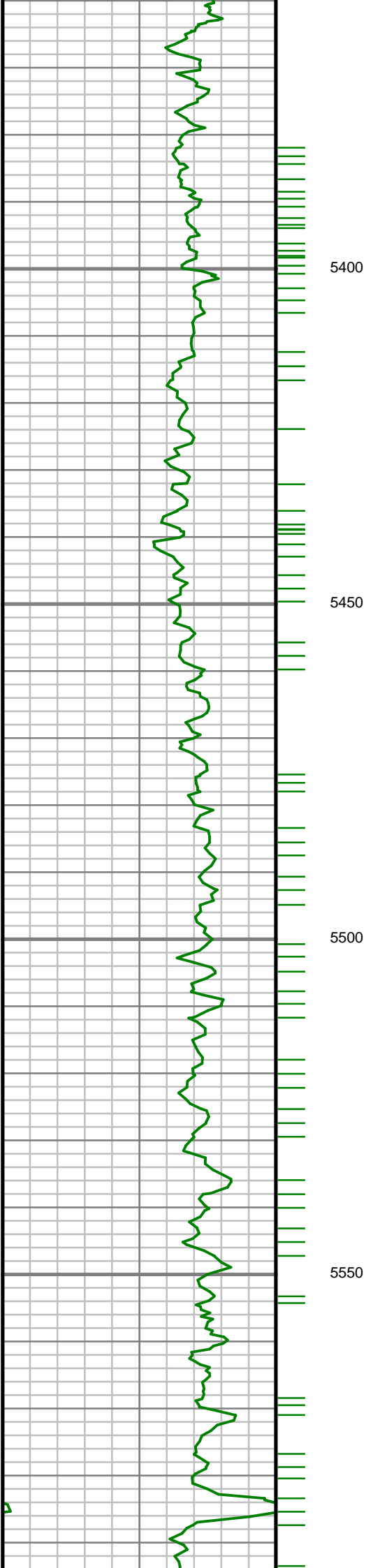




S: 63 MD: 5166.00 ft  
Inc: 2.46 deg Az: 42.45  
deg TVD: 5075.16 ft

S: 64 MD: 5260.00 ft  
Inc: 1.97 deg Az: 77.61  
deg TVD: 5169.09 ft

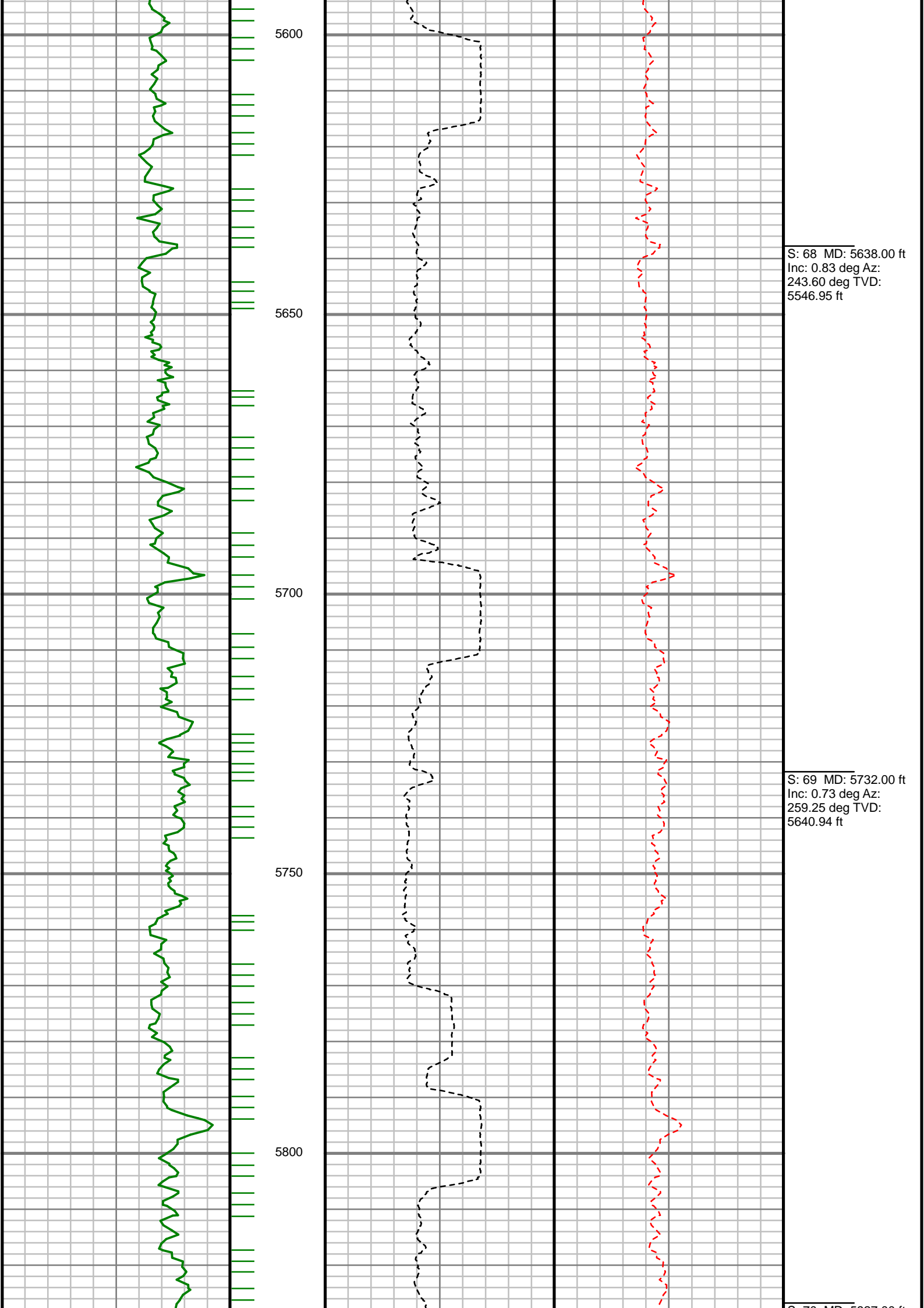
S: 65 MD: 5355.00 ft  
Inc: 1.21 deg Az:

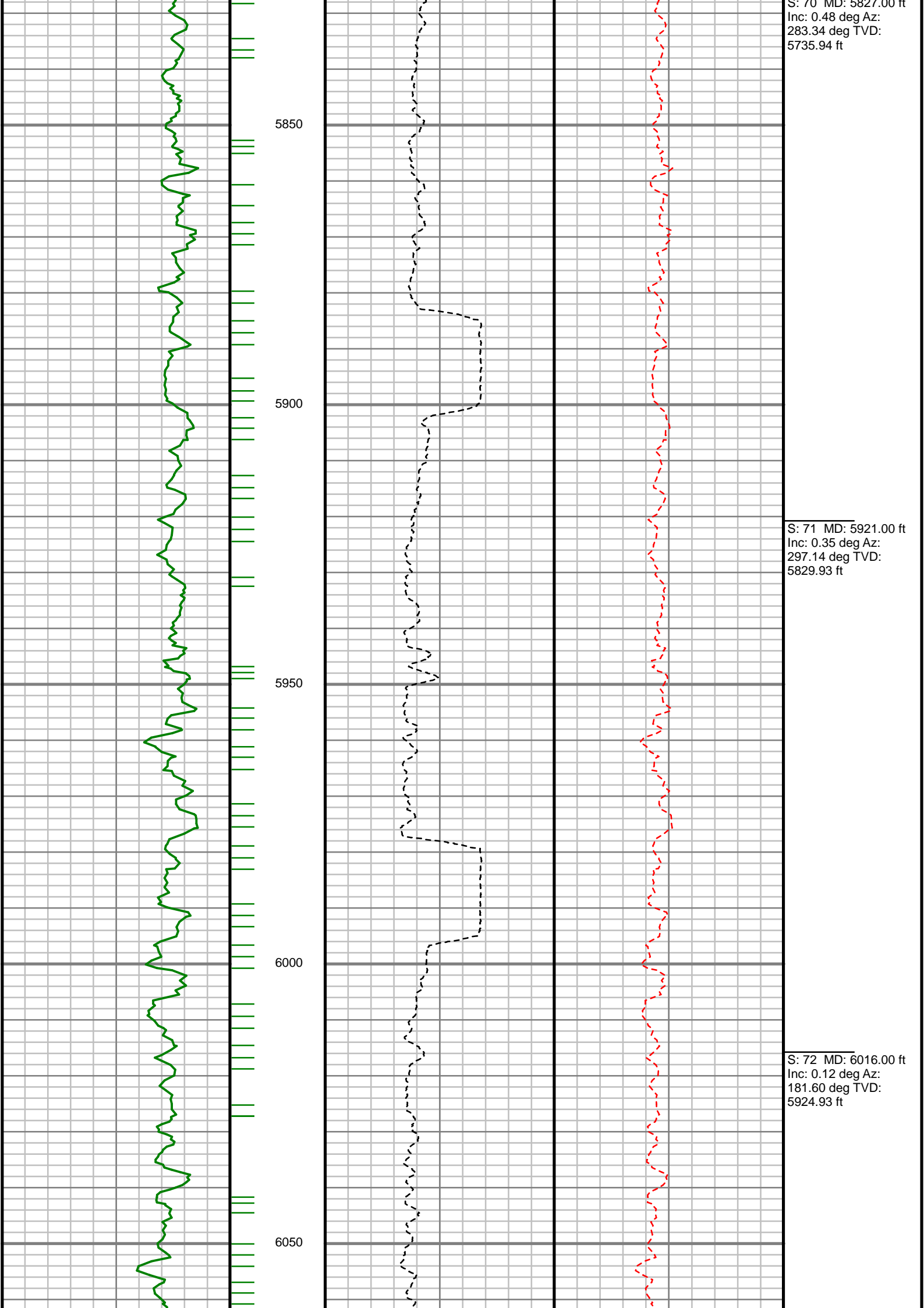


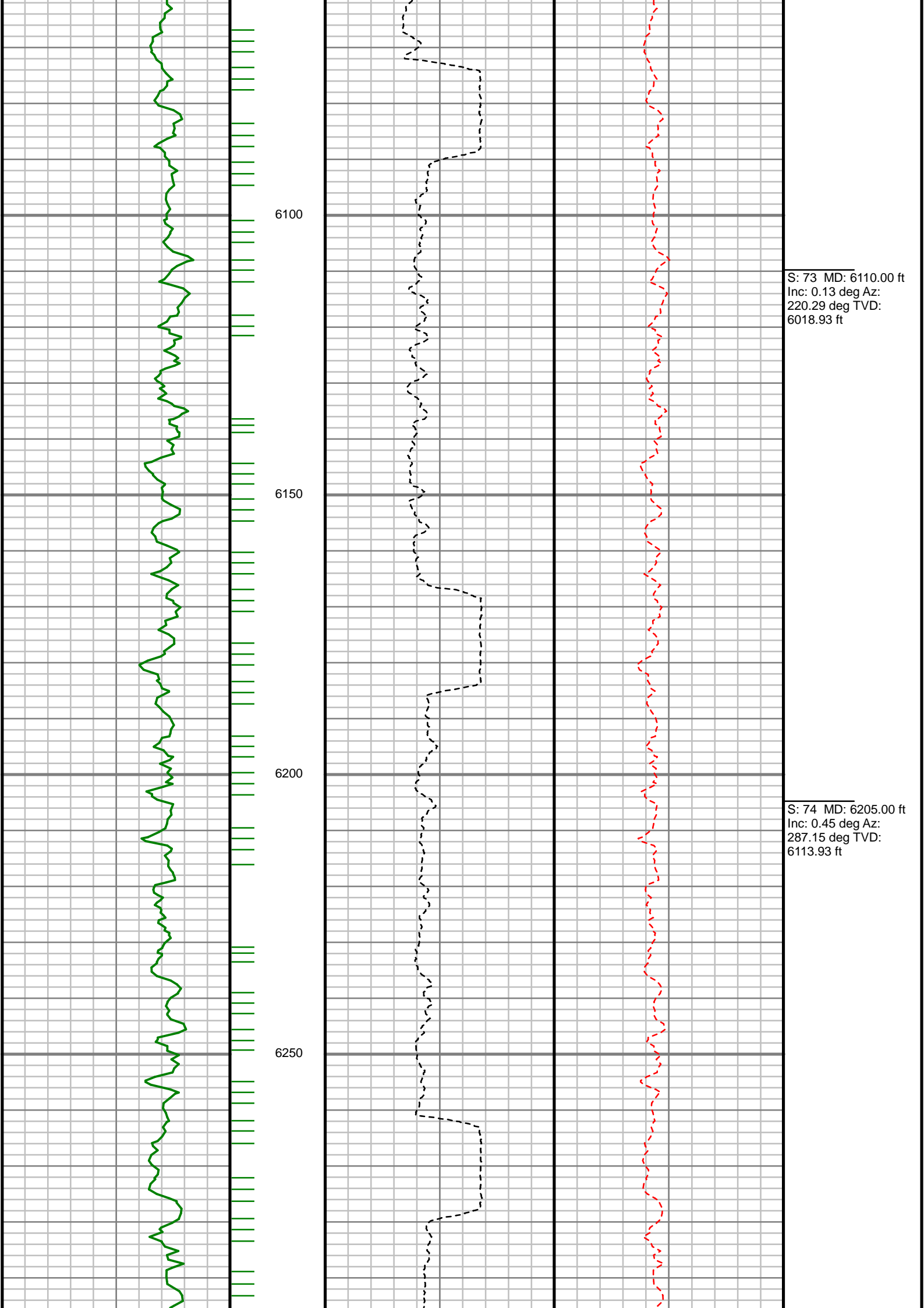
188.12 deg TVD:  
5264.07 ft

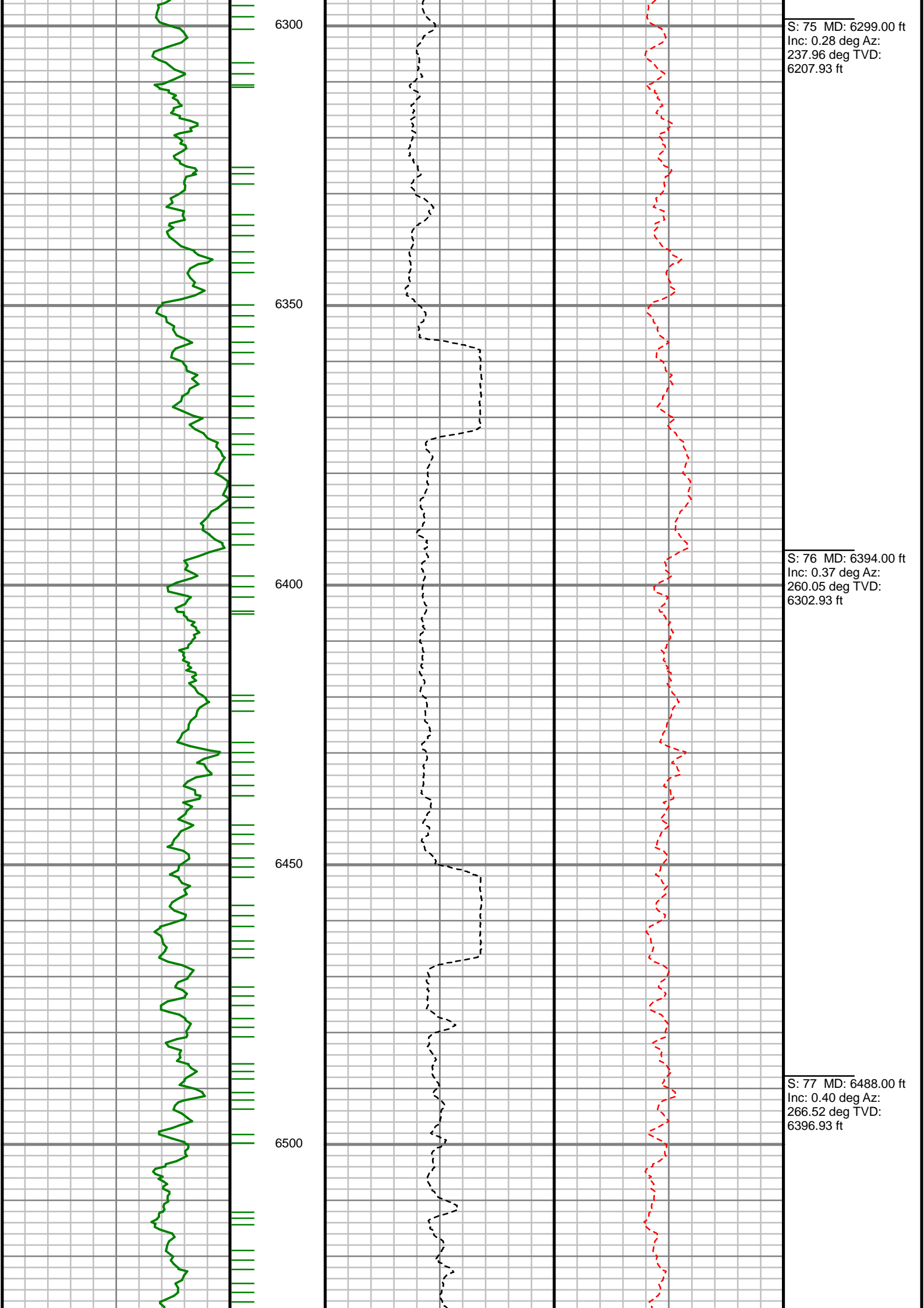
S: 66 MD: 5449.00 ft  
Inc: 2.39 deg Az:  
212.11 deg TVD:  
5358.03 ft

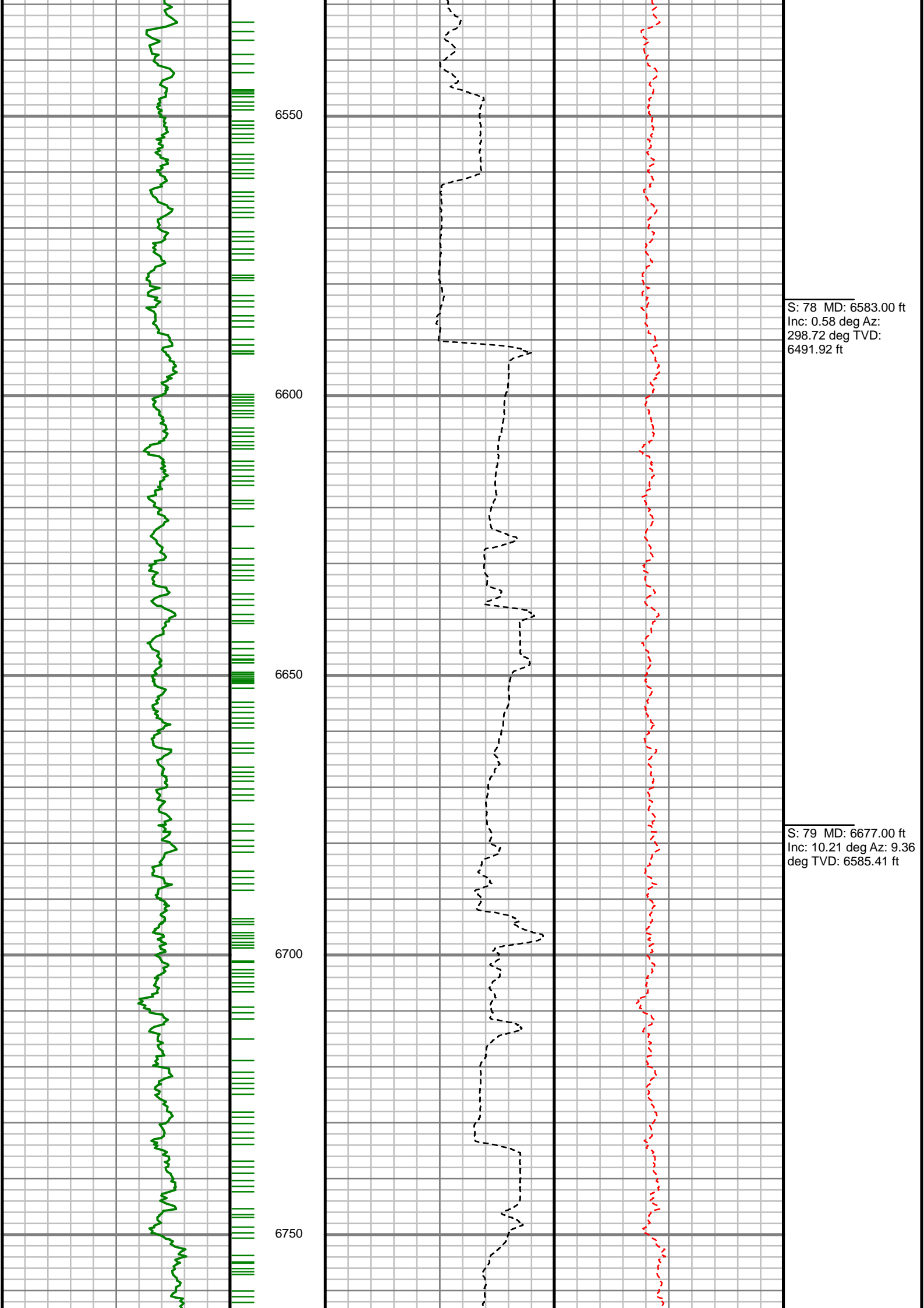
S: 67 MD: 5543.00 ft  
Inc: 1.58 deg Az:  
235.58 deg TVD:  
5451.97 ft



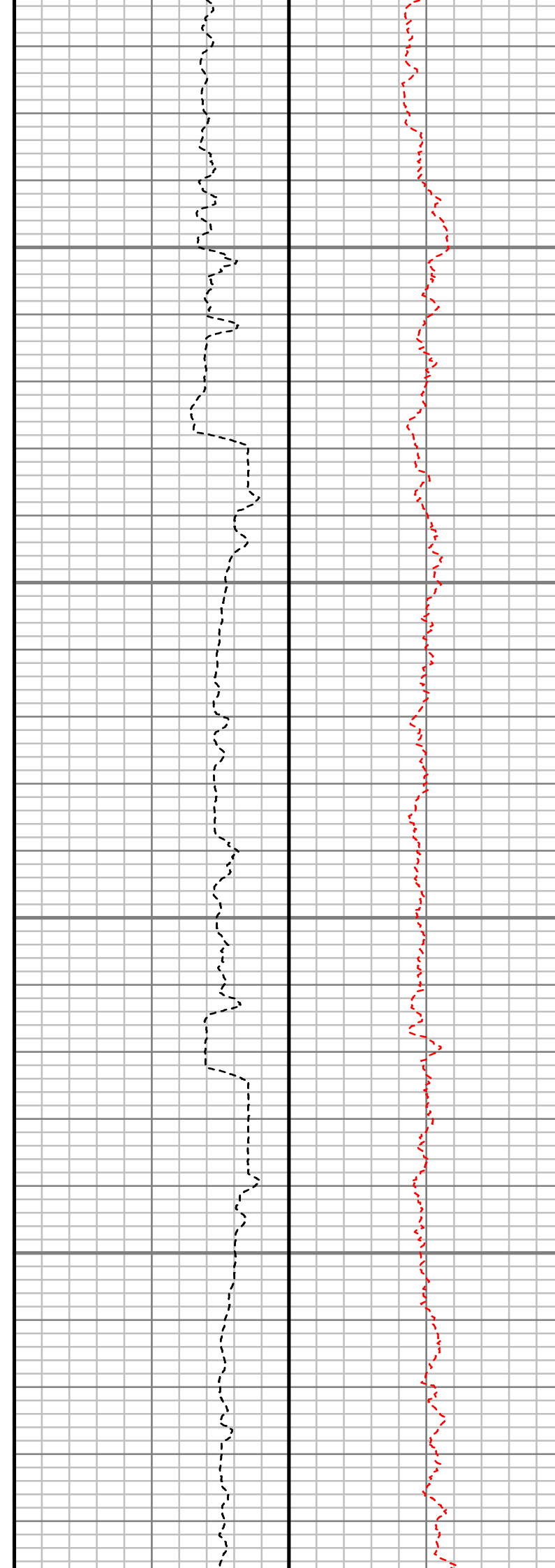
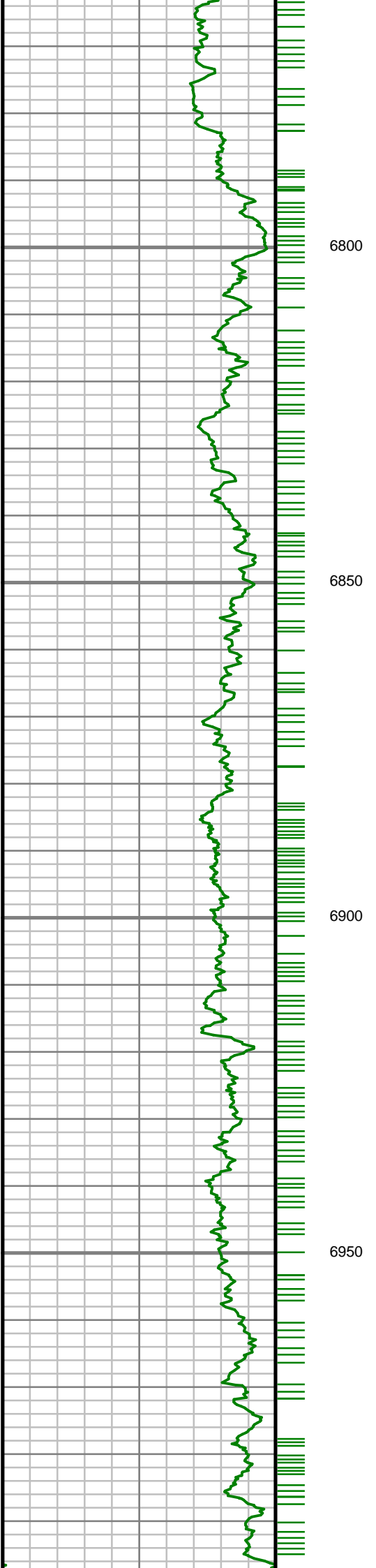








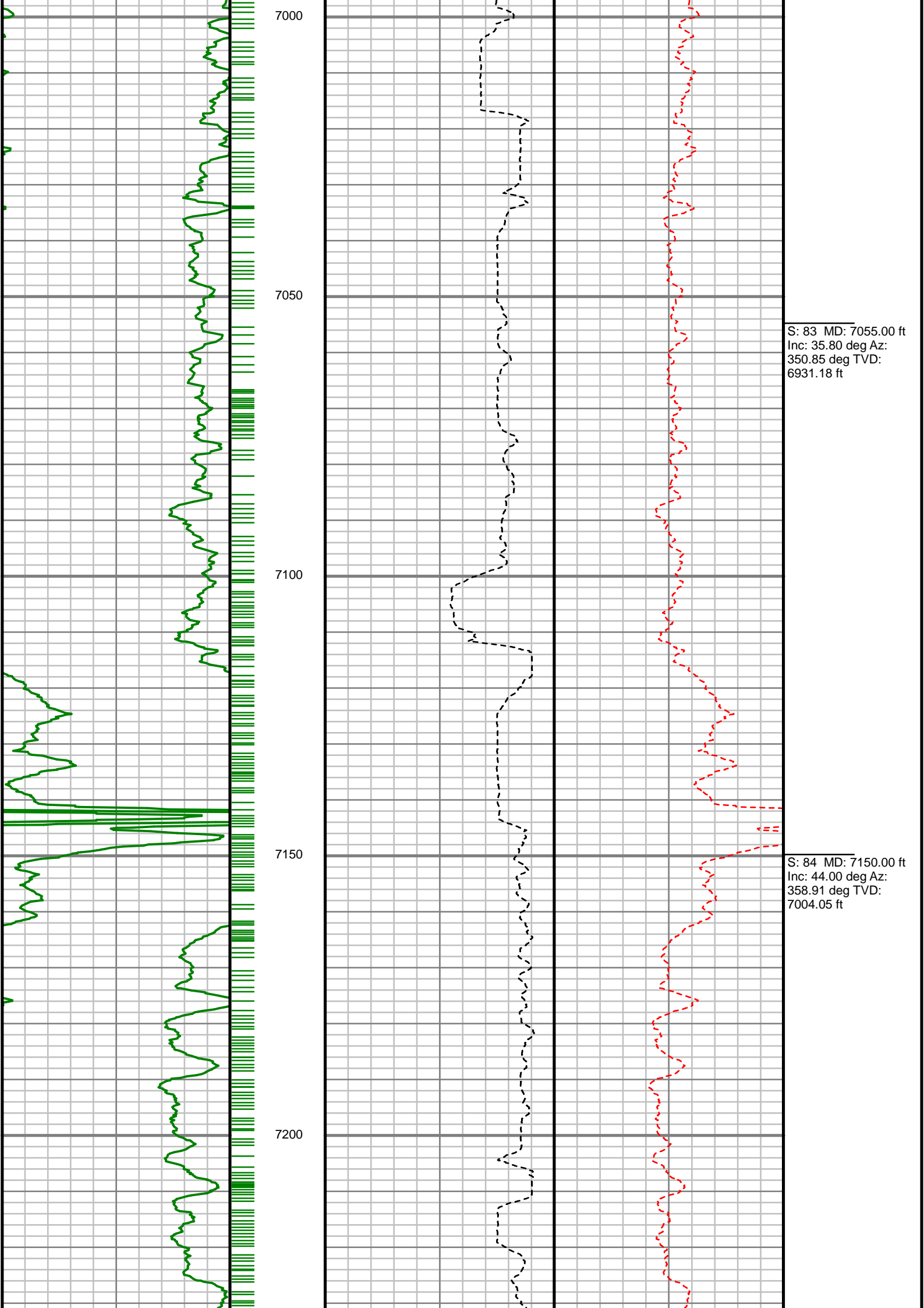


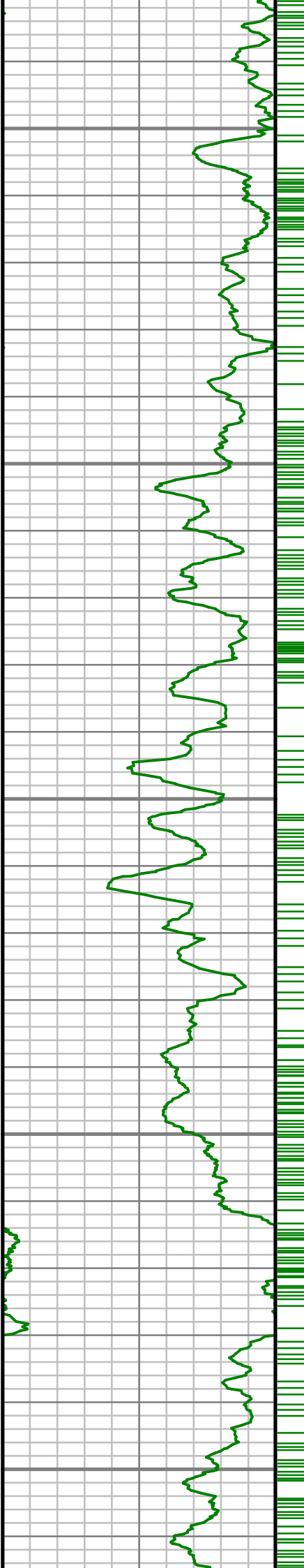


S: 80 MD: 6772.00 ft  
Inc: 14.97 deg Az:  
353.79 deg TVD:  
6678.13 ft

S: 81 MD: 6866.00 ft  
Inc: 21.89 deg Az:  
354.30 deg TVD:  
6767.25 ft

S: 82 MD: 6961.00 ft  
Inc: 30.42 deg Az:  
347.58 deg TVD:  
6852.46 ft





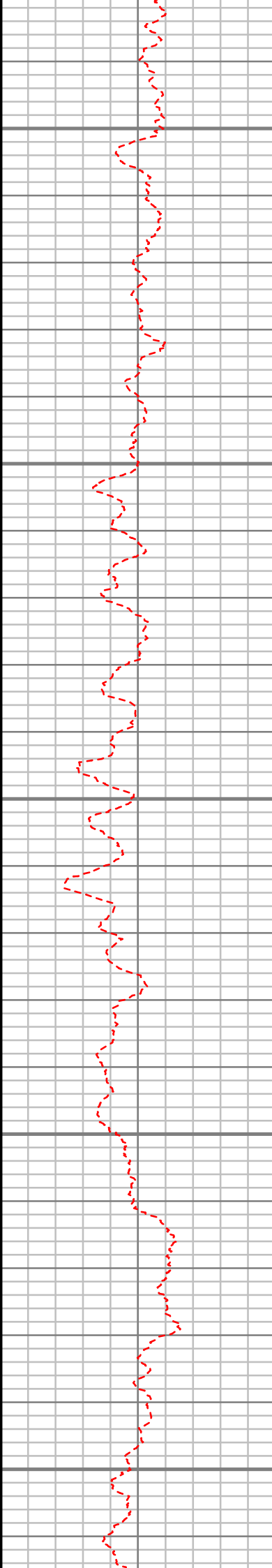
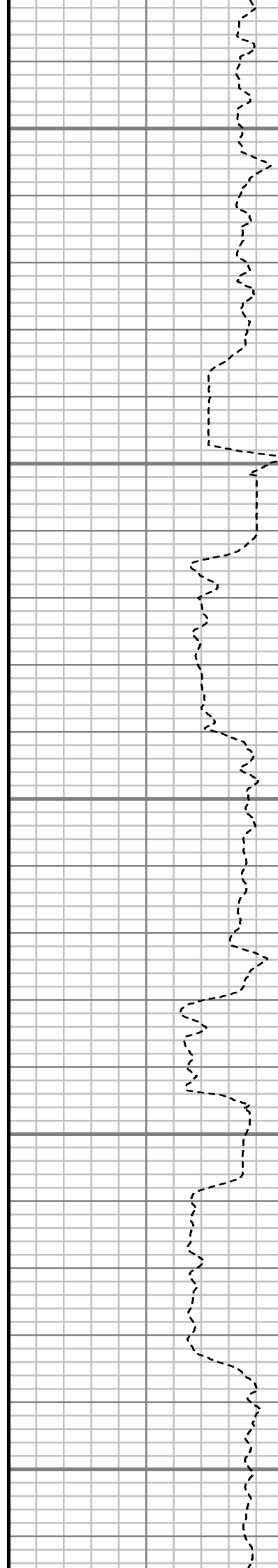
7250

7300

7350

7400

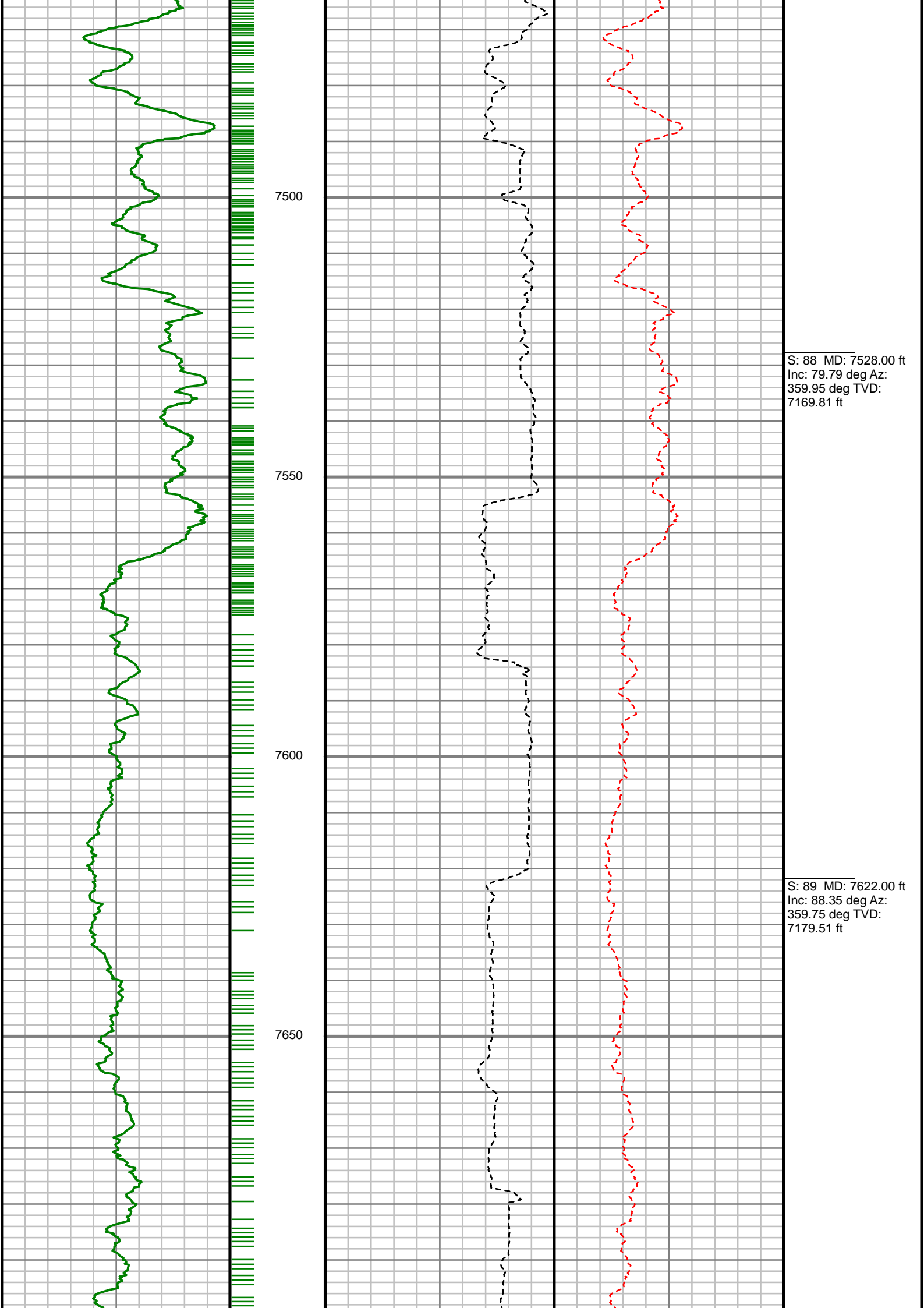
7450

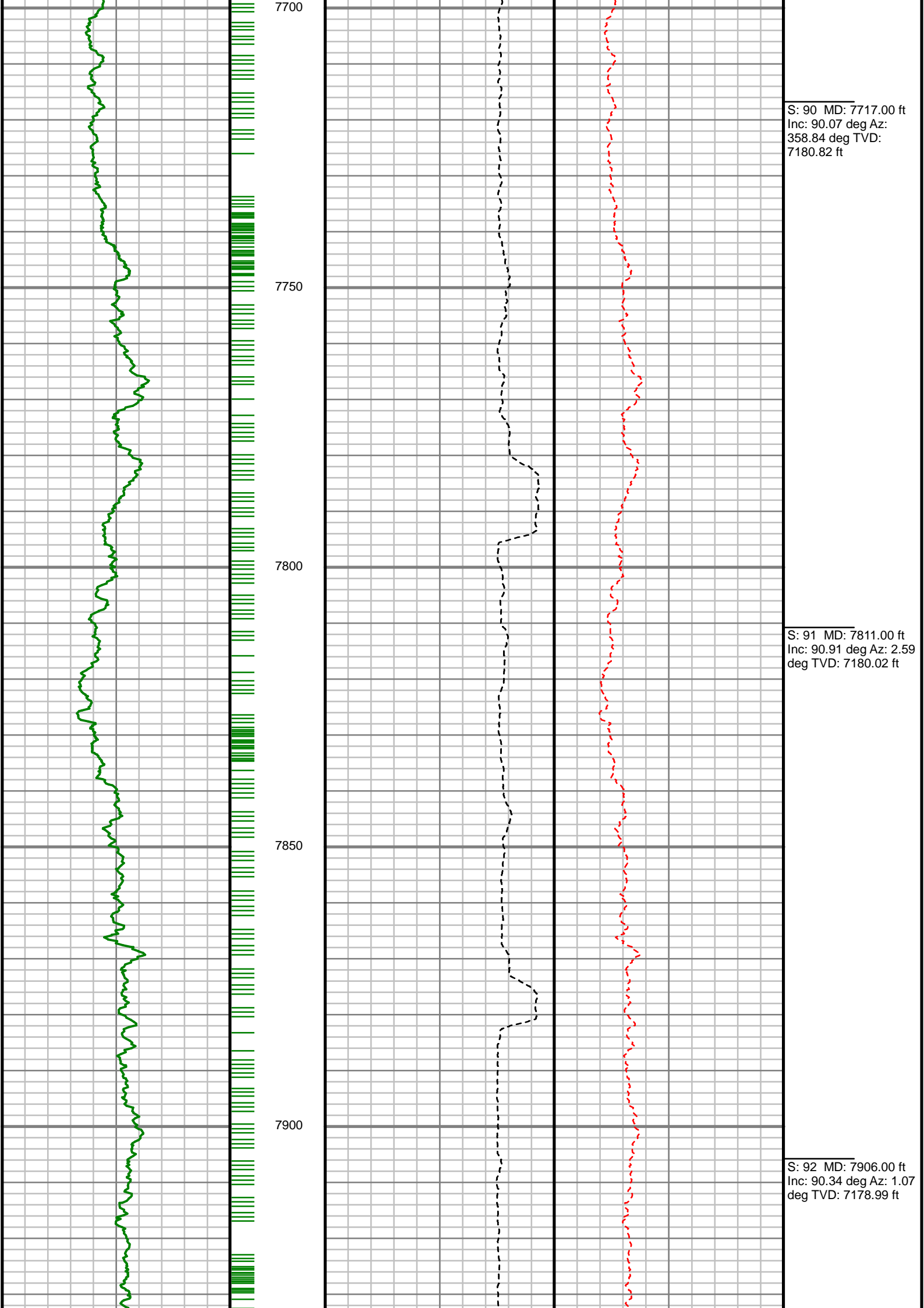


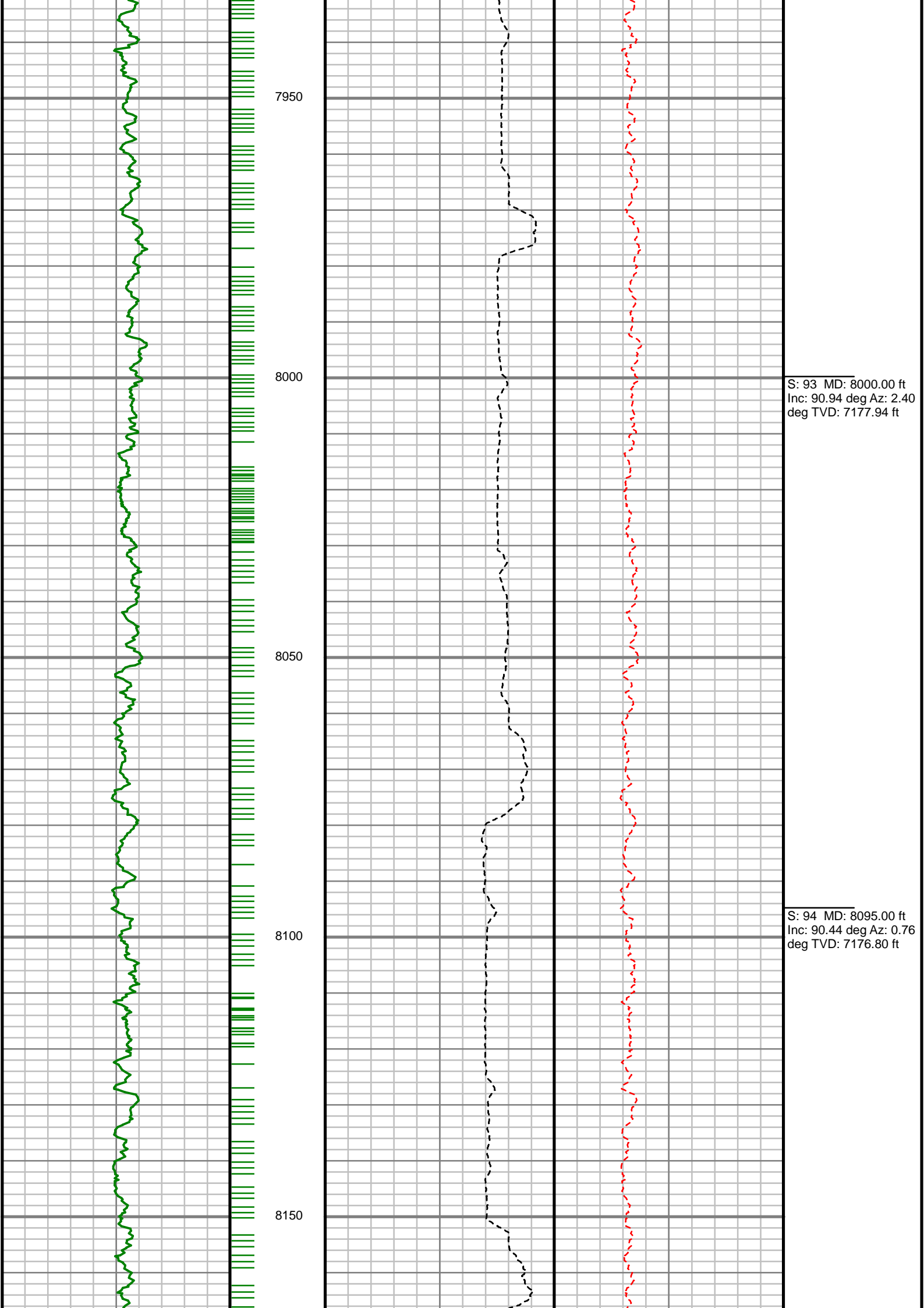
S: 85 MD: 7244.00 ft  
Inc: 57.29 deg Az: 0.06  
deg TVD: 7063.53 ft

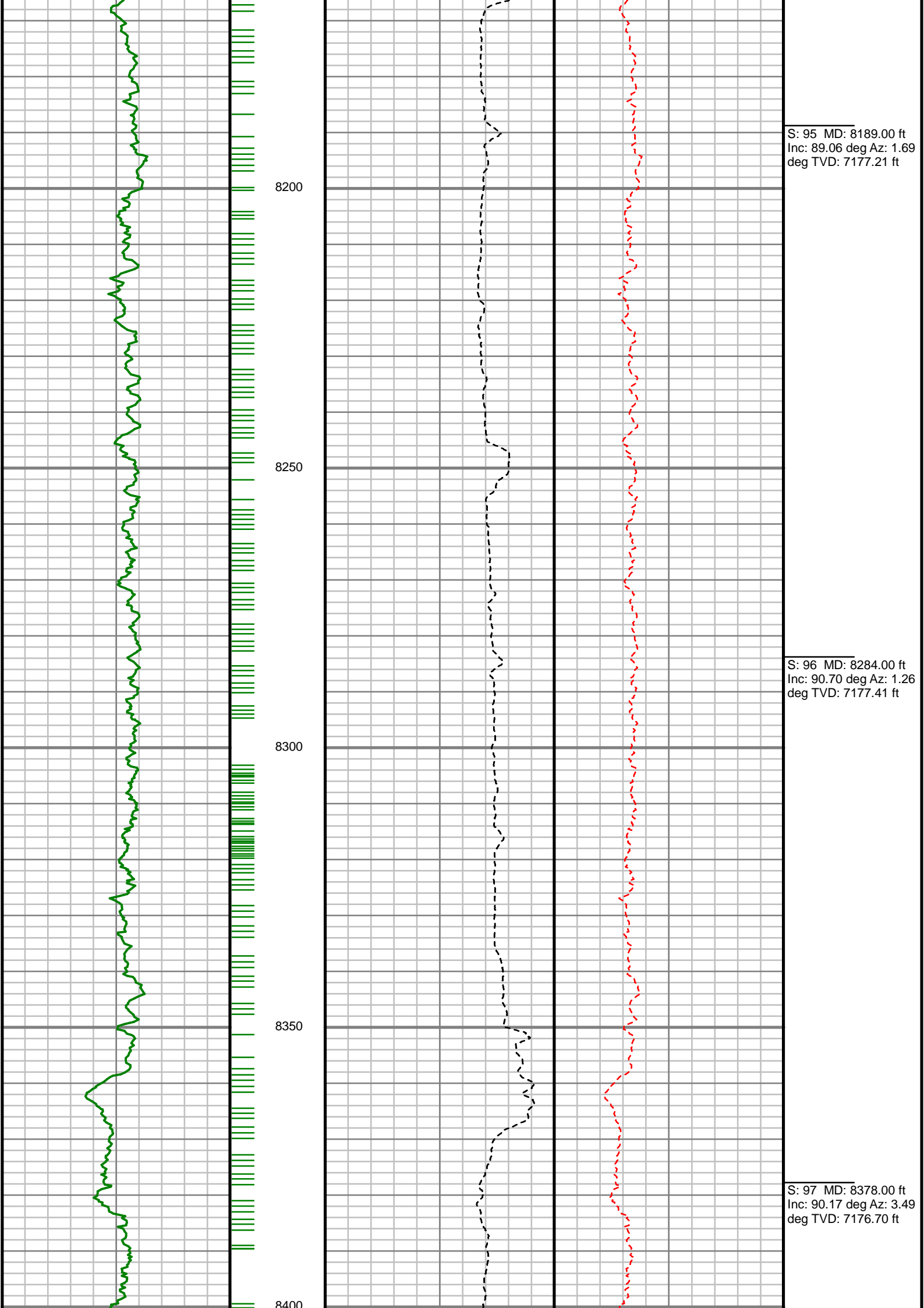
S: 86 MD: 7339.00 ft  
Inc: 64.62 deg Az: 2.17  
deg TVD: 7109.62 ft

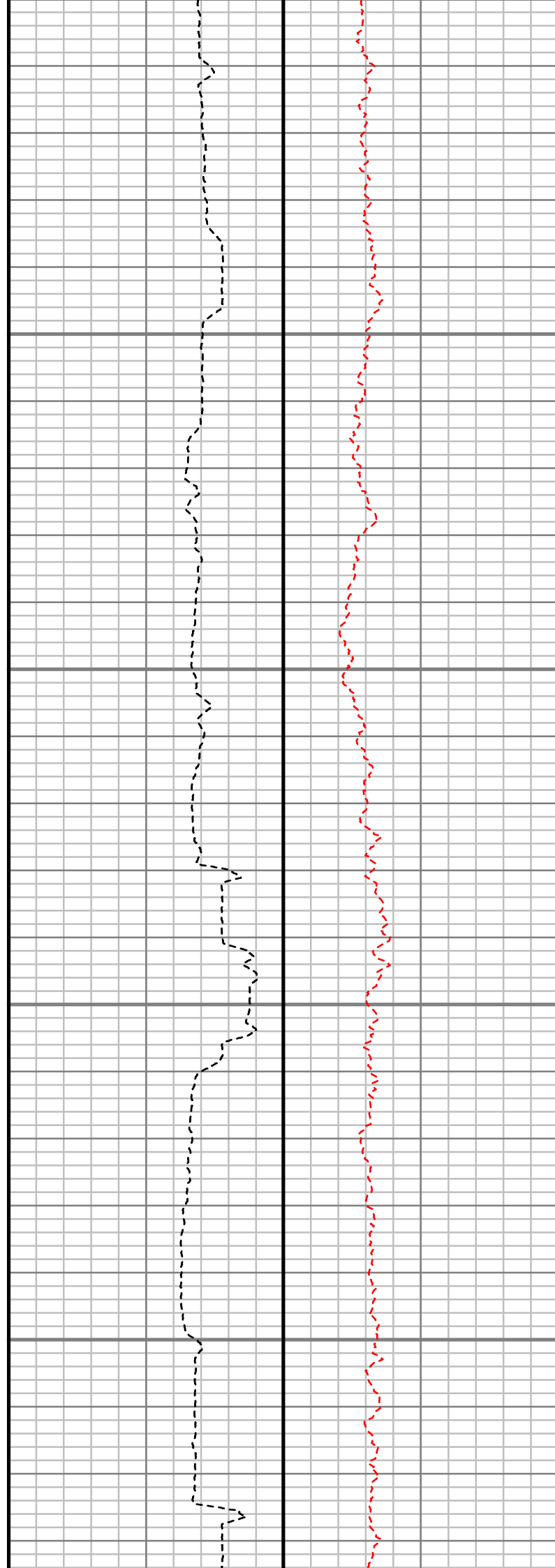
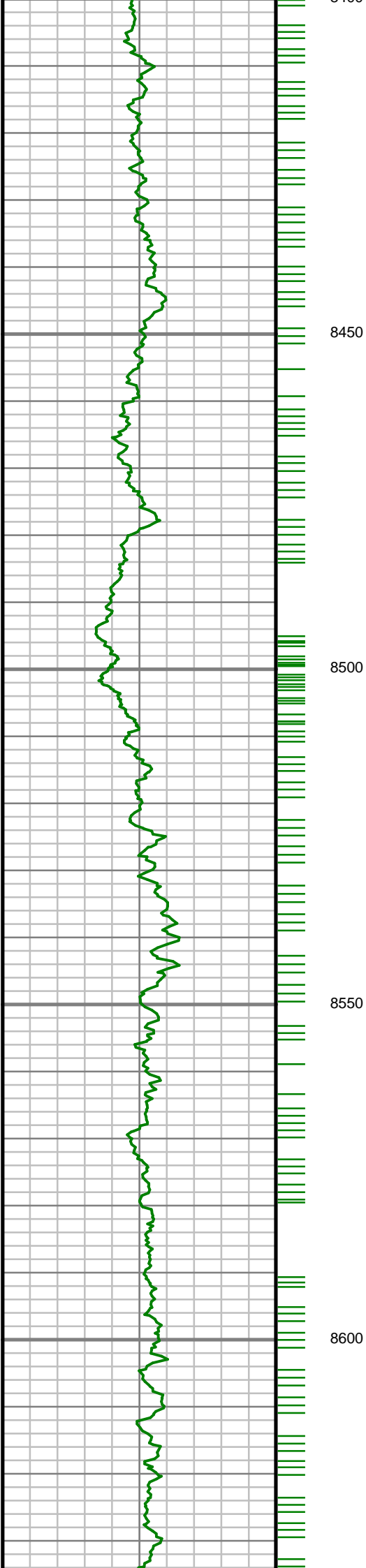
S: 87 MD: 7433.00 ft  
Inc: 70.50 deg Az: 3.08  
deg TVD: 7145.48 ft







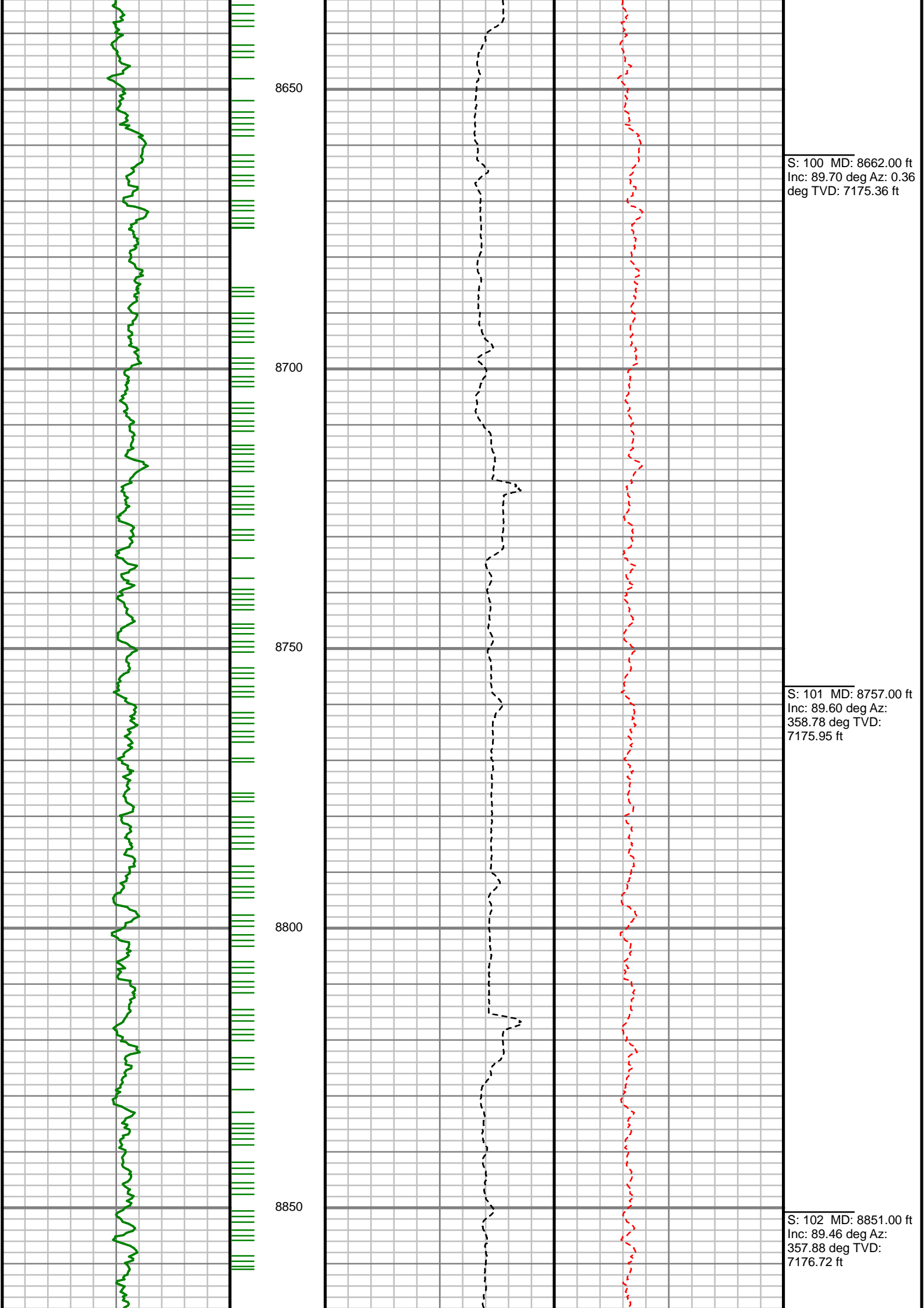


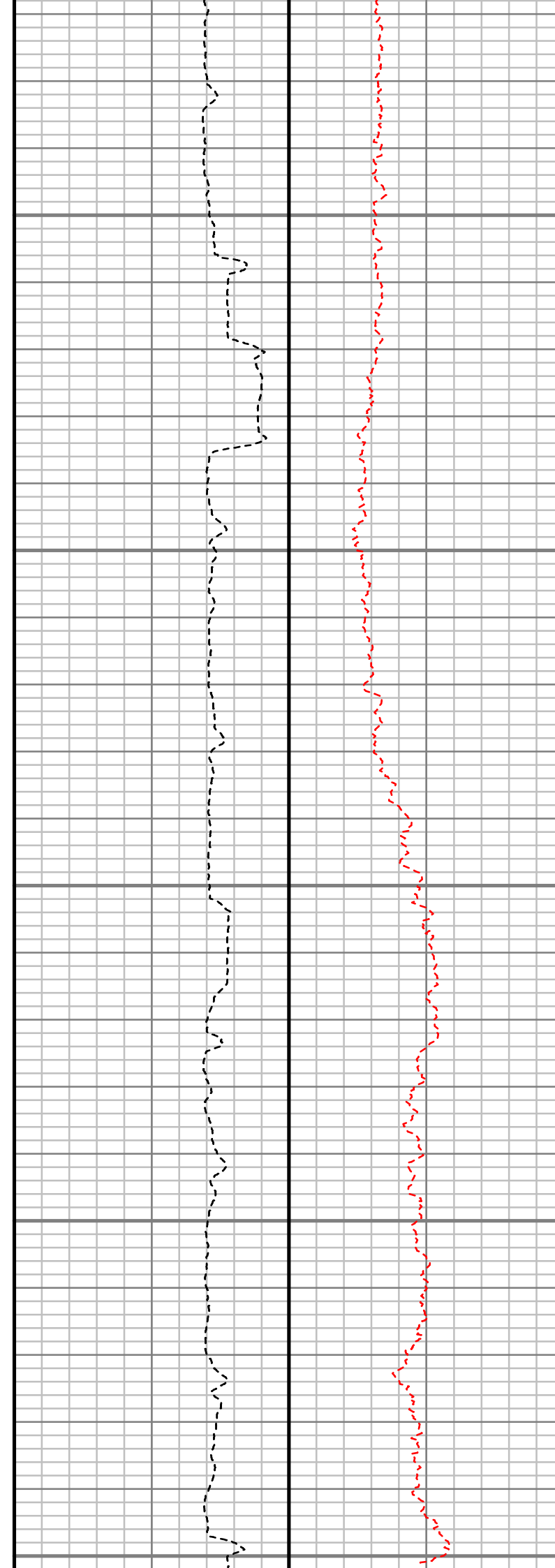
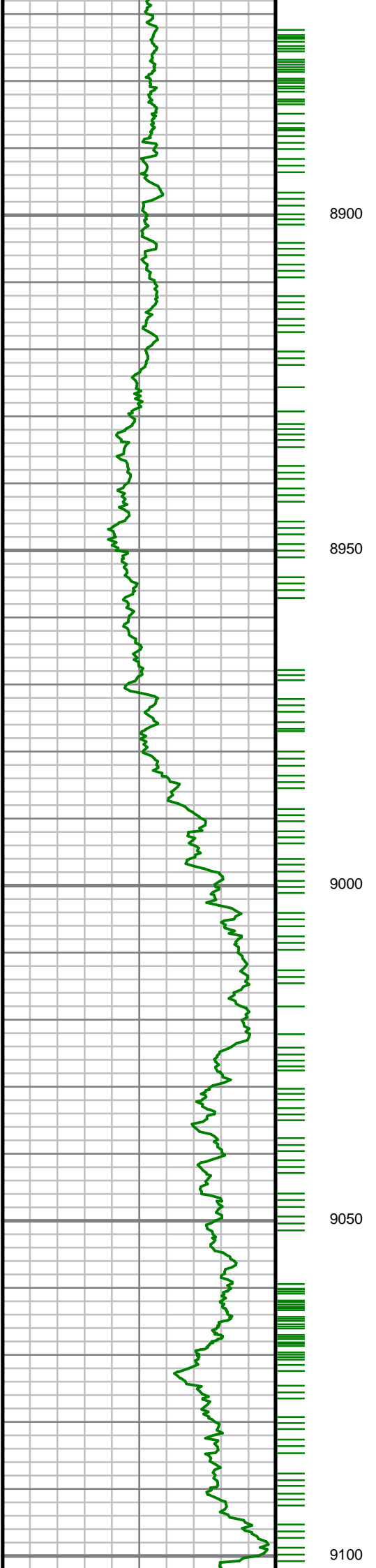


S: 98 MD: 8473.00 ft  
Inc: 91.01 deg Az: 3.11  
deg TVD: 7175.72 ft

S: 99 MD: 8567.00 ft  
Inc: 89.87 deg Az: 1.72  
deg TVD: 7175.00 ft

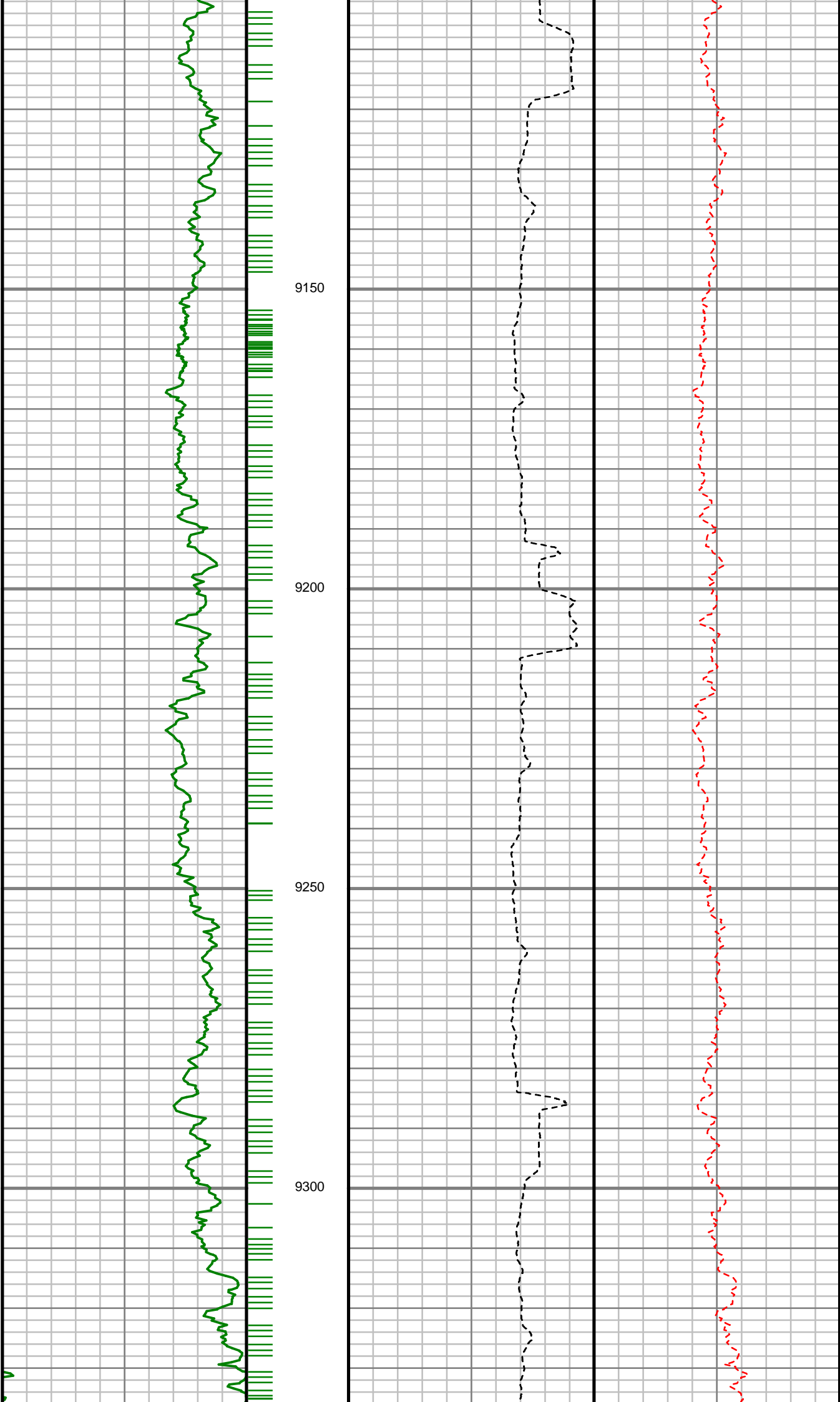






S: 103 MD: 8946.00 ft  
Inc: 90.03 deg Az: 1.37  
deg TVD: 7177.14 ft

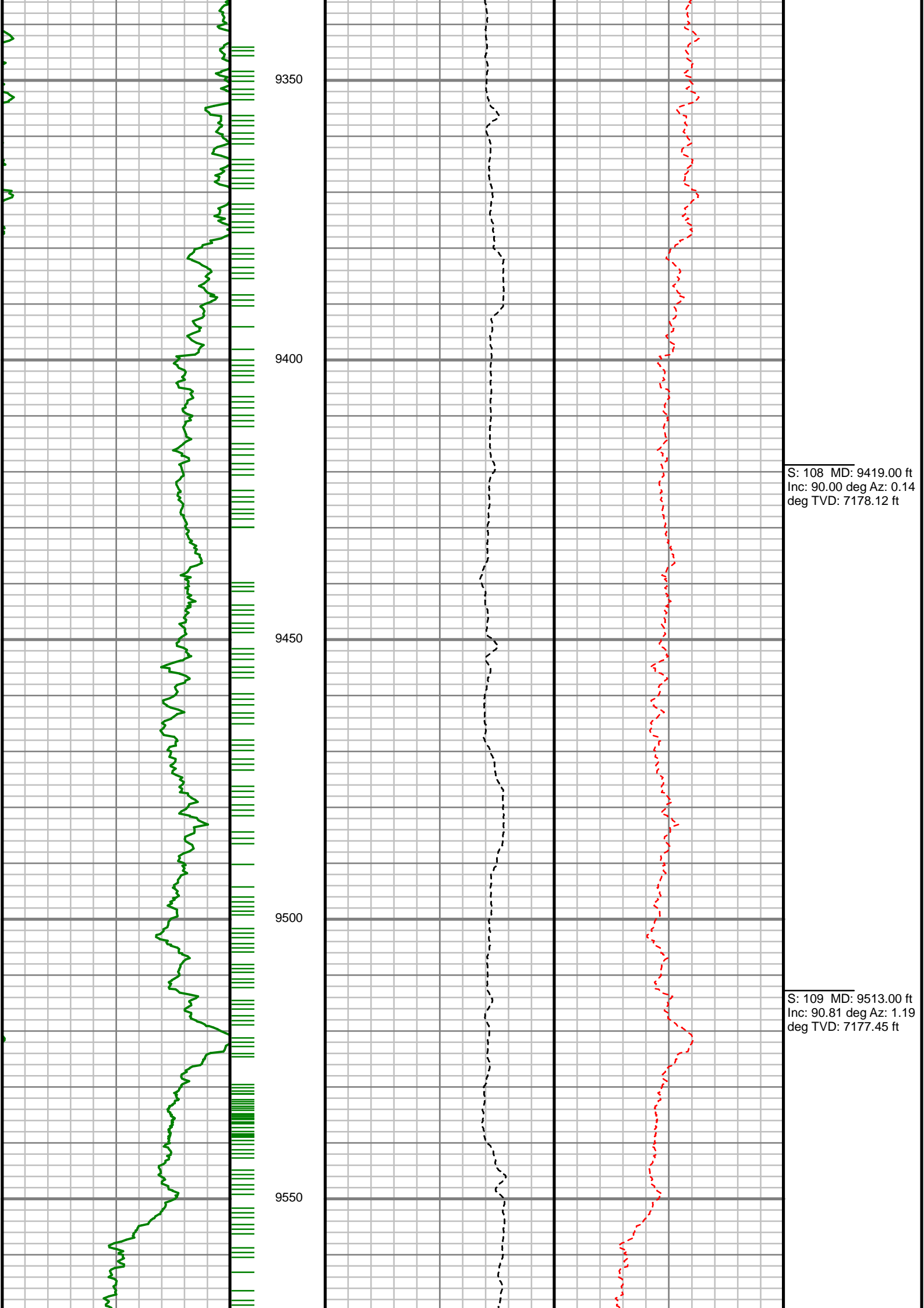
S: 104 MD: 9040.00 ft  
Inc: 91.61 deg Az: 1.30  
deg TVD: 7175.79 ft

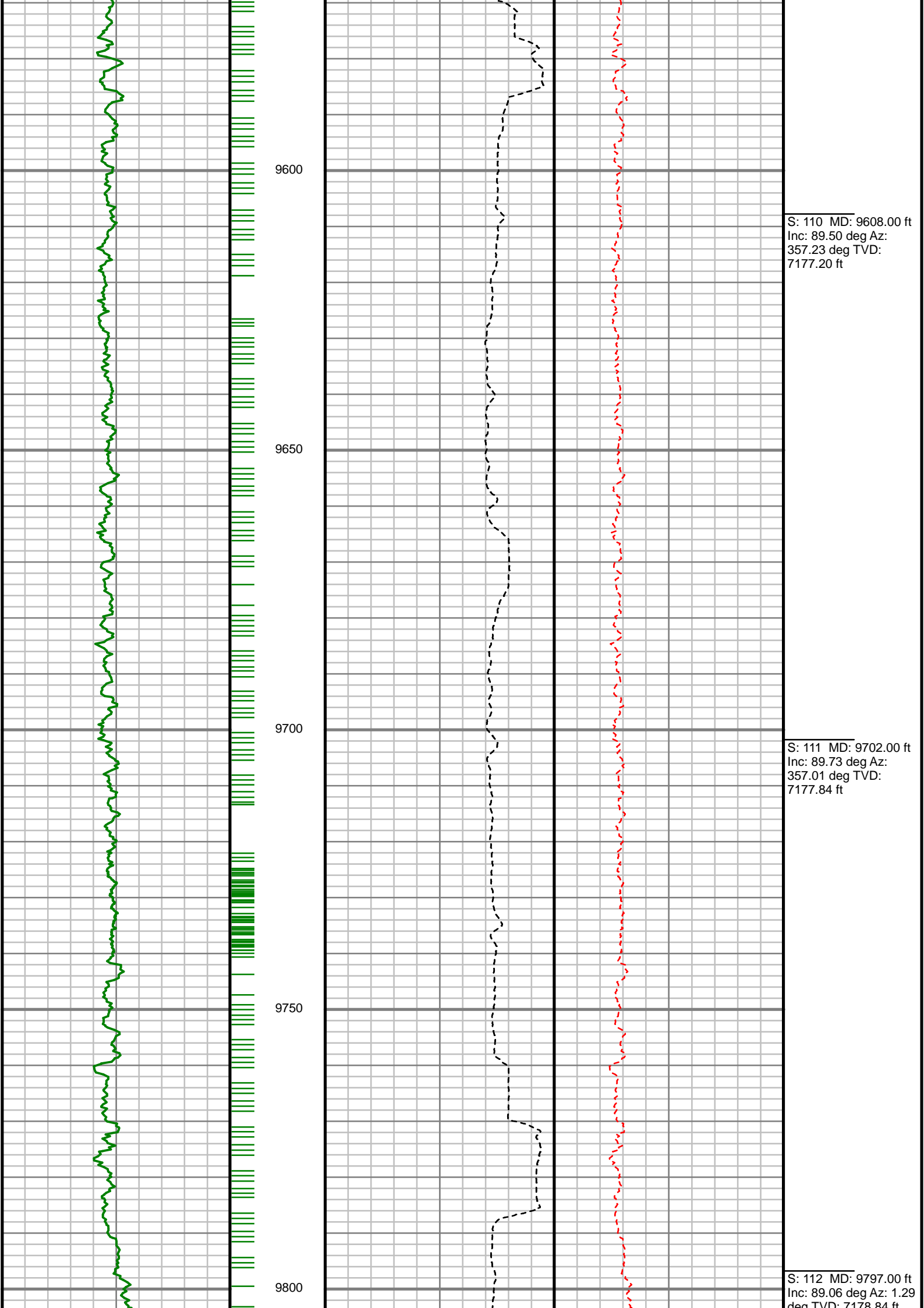


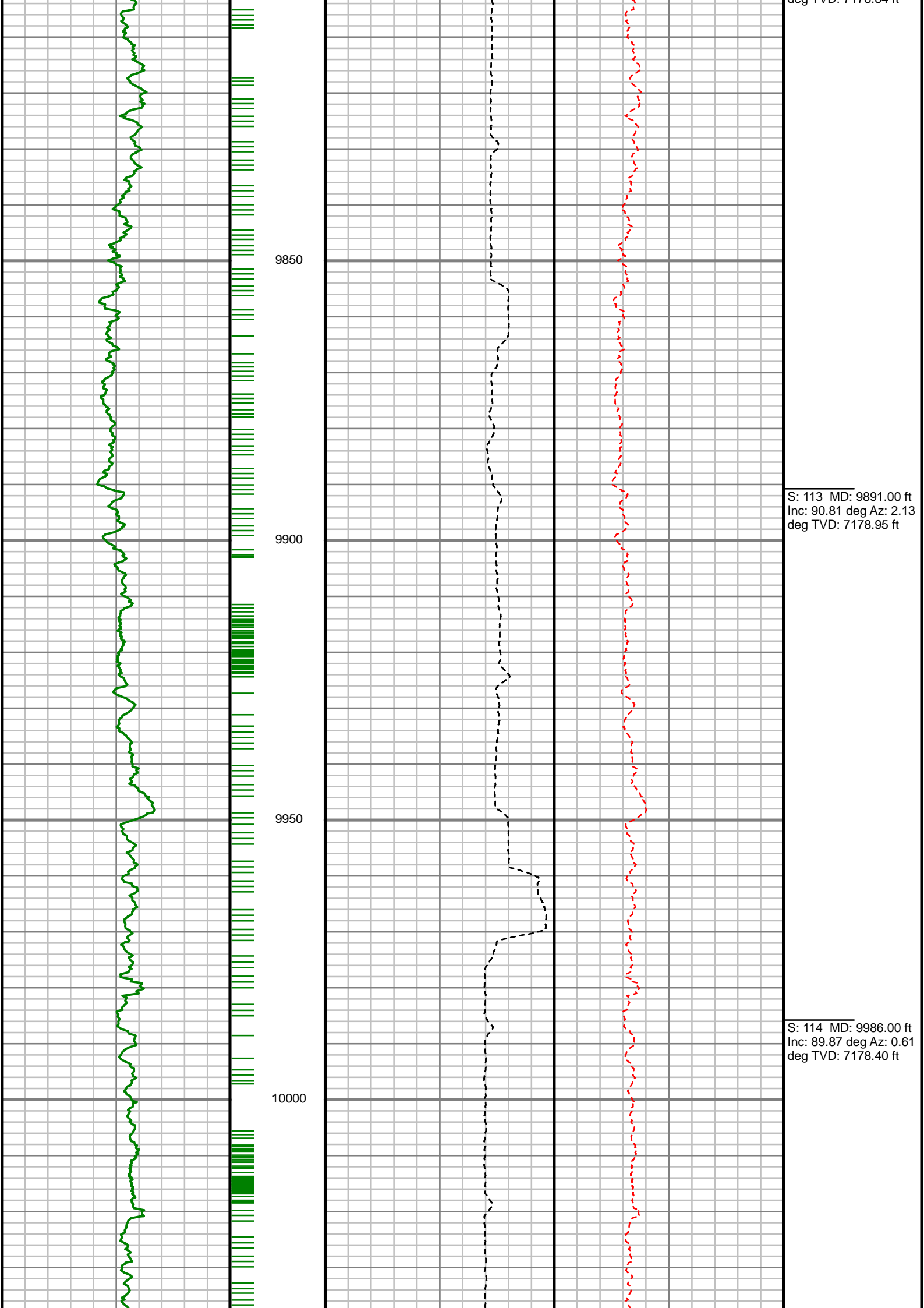
S: 105 MD: 9135.00 ft  
Inc: 90.24 deg Az: 359.97 deg TVD: 7174.25 ft

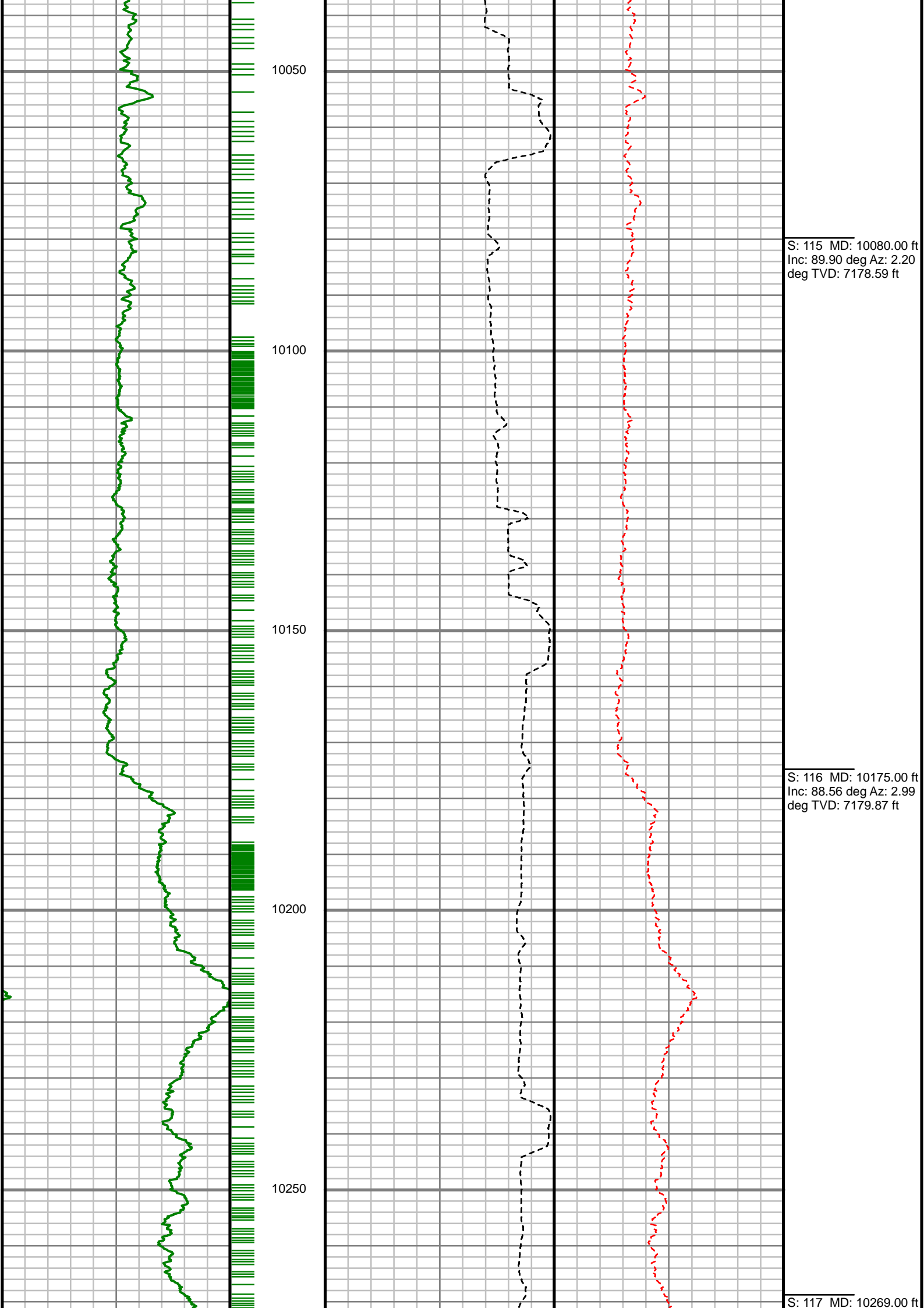
S: 106 MD: 9229.00 ft  
Inc: 88.69 deg Az: 1.29 deg TVD: 7175.14 ft

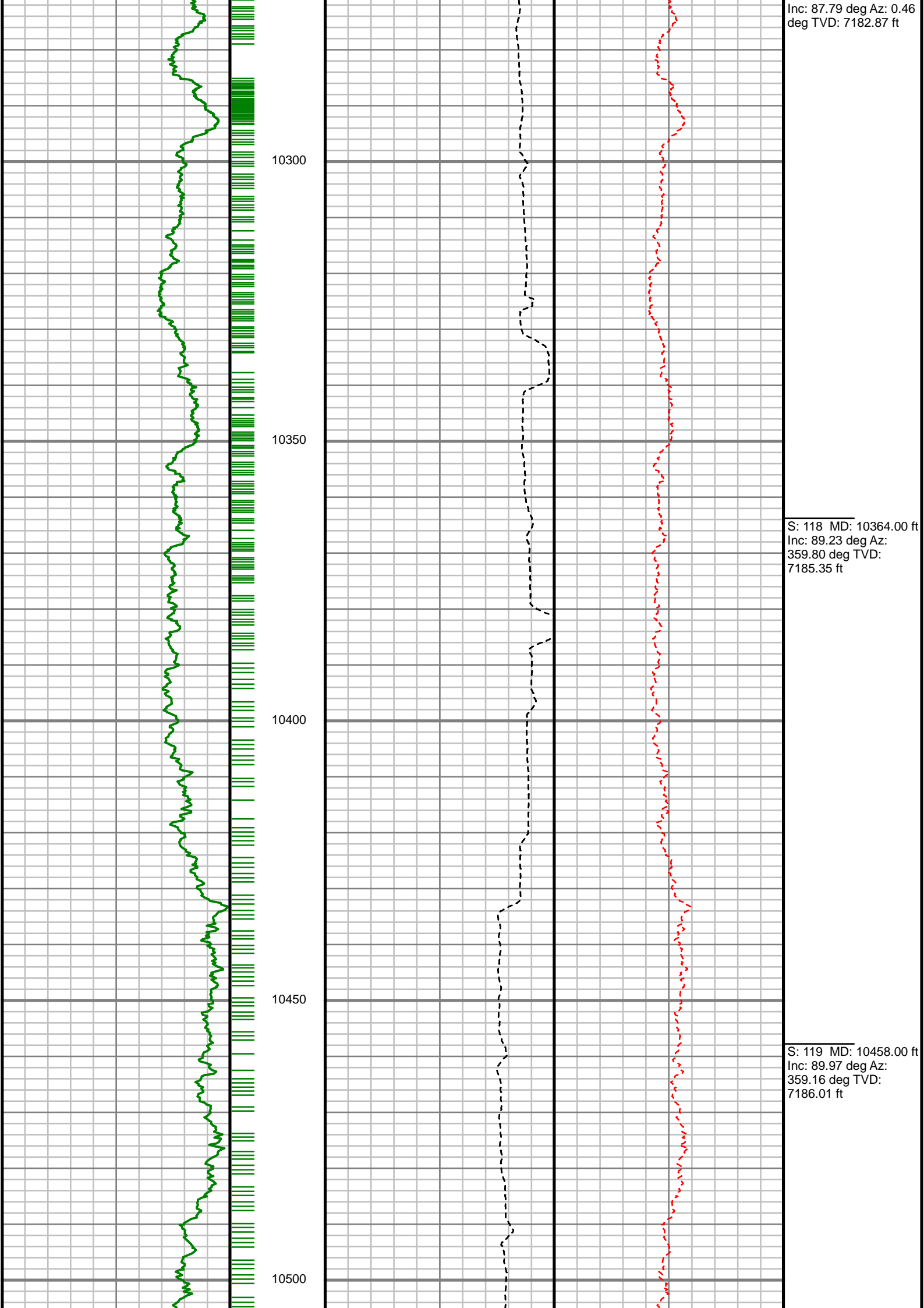
S: 107 MD: 9324.00 ft  
Inc: 88.86 deg Az: 0.64 deg TVD: 7177.17 ft



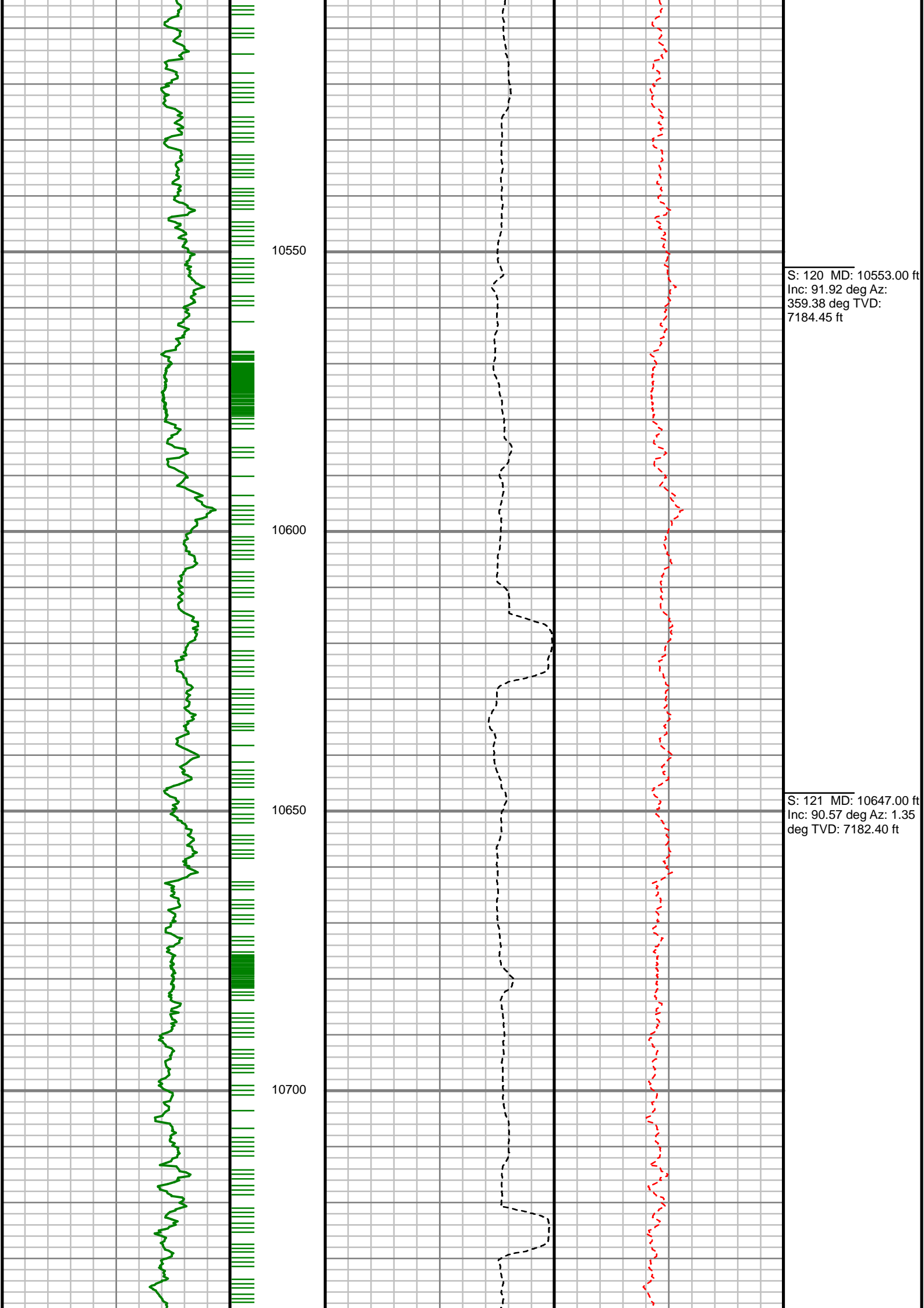


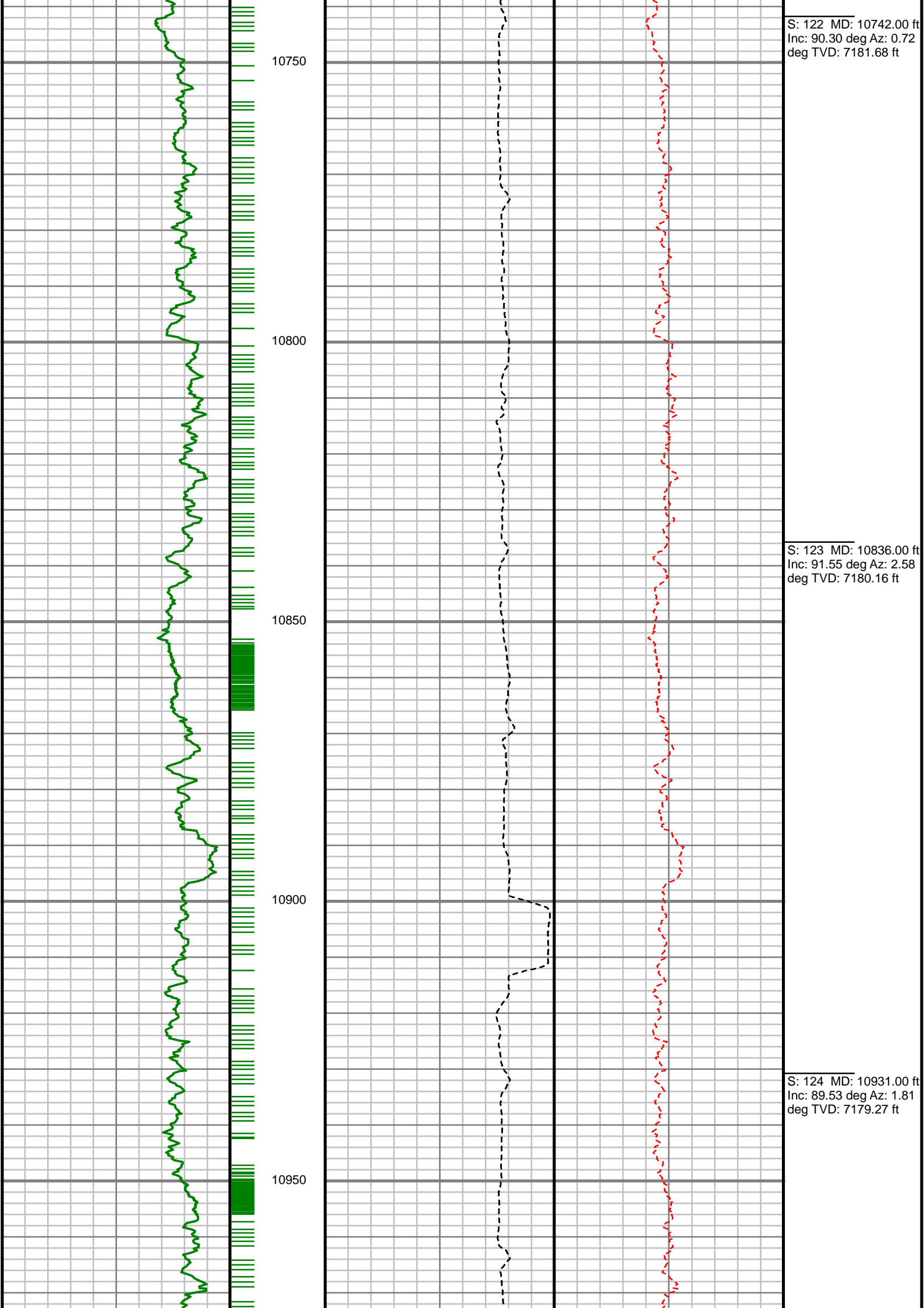


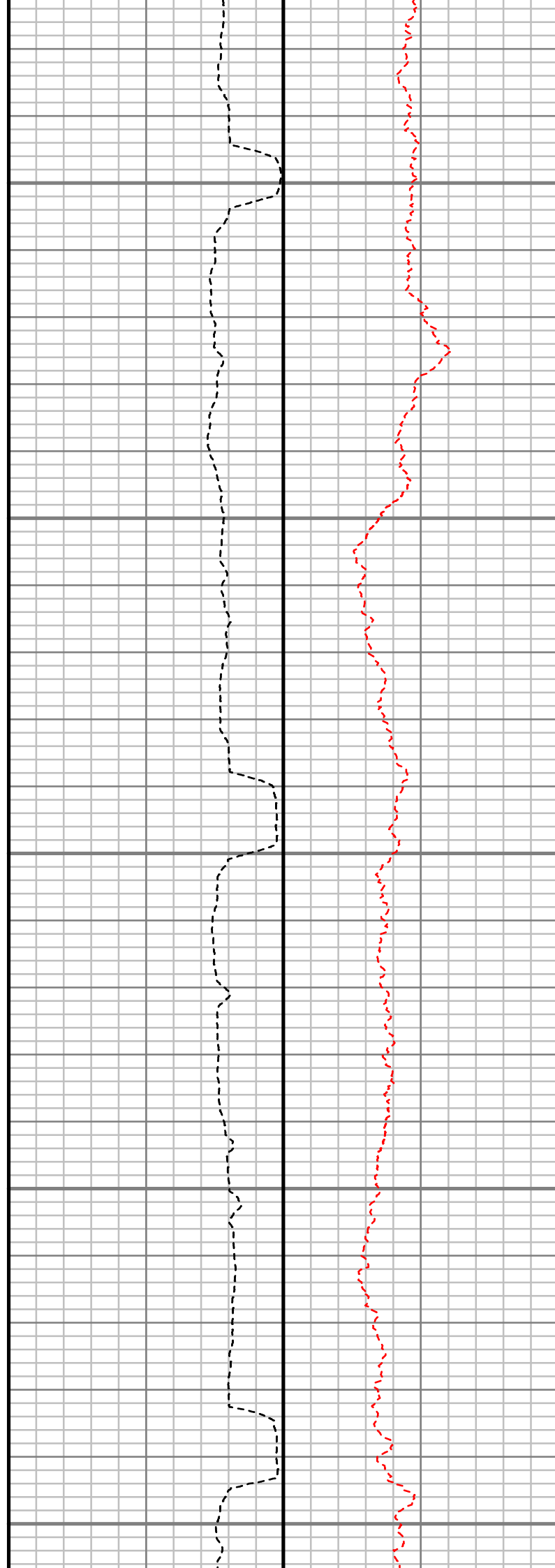
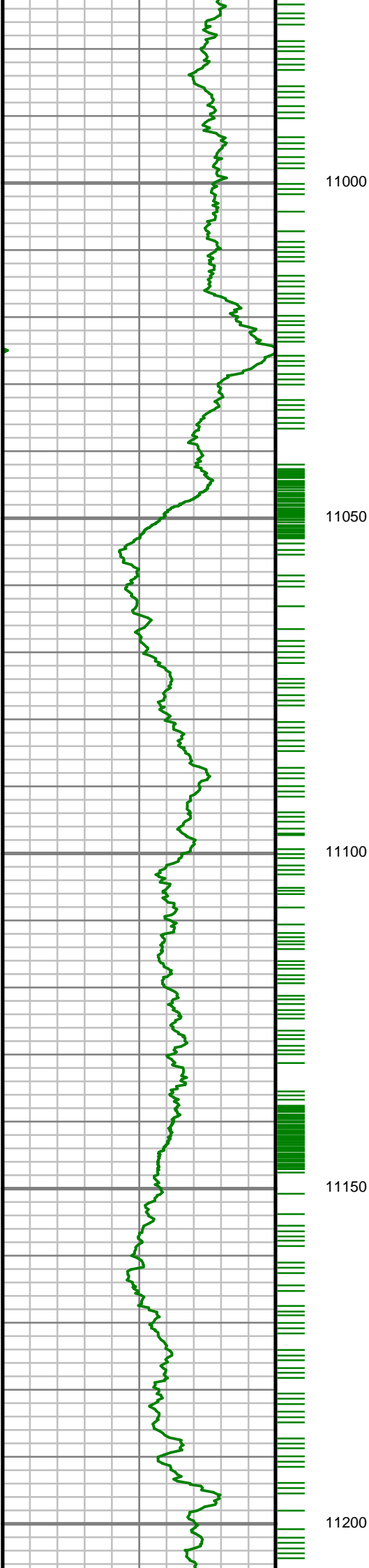






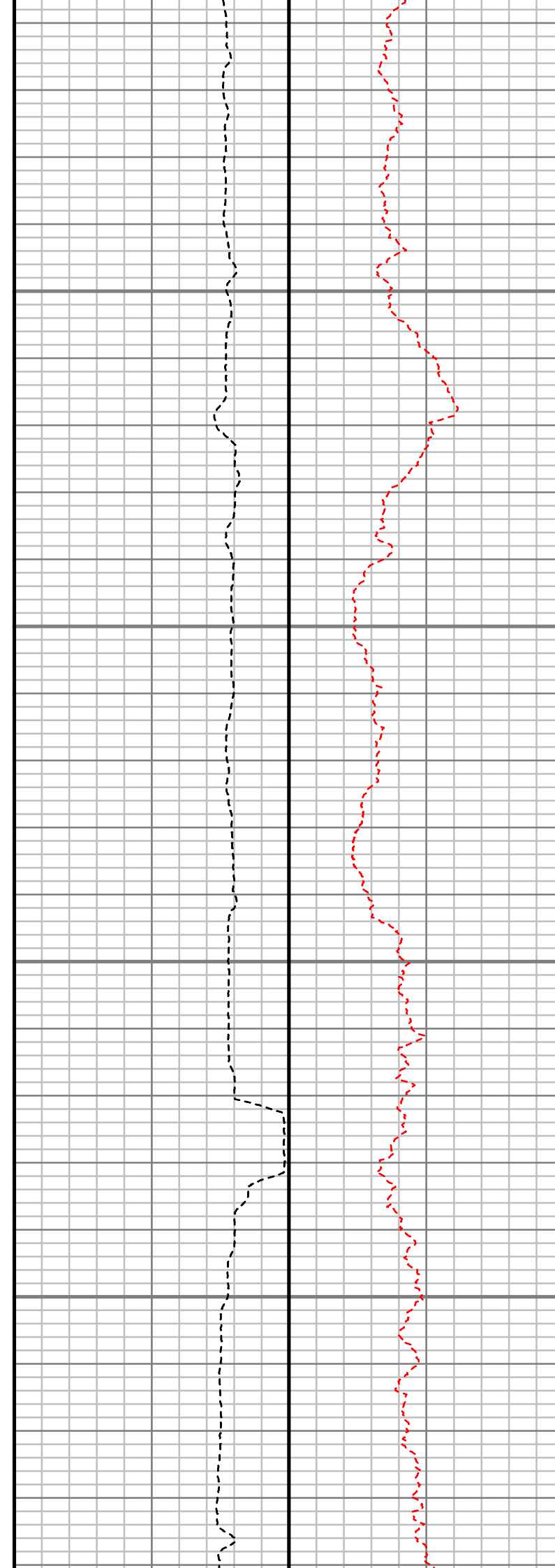
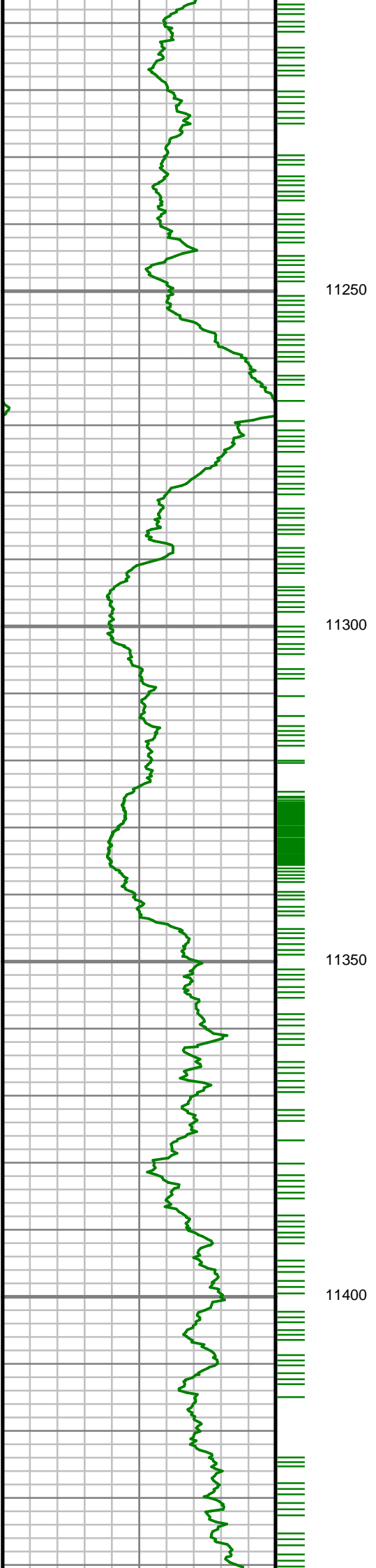






S: 125 MD: 11025.00 ft  
Inc: 90.37 deg Az: 1.75  
deg TVD: 7179.35 ft

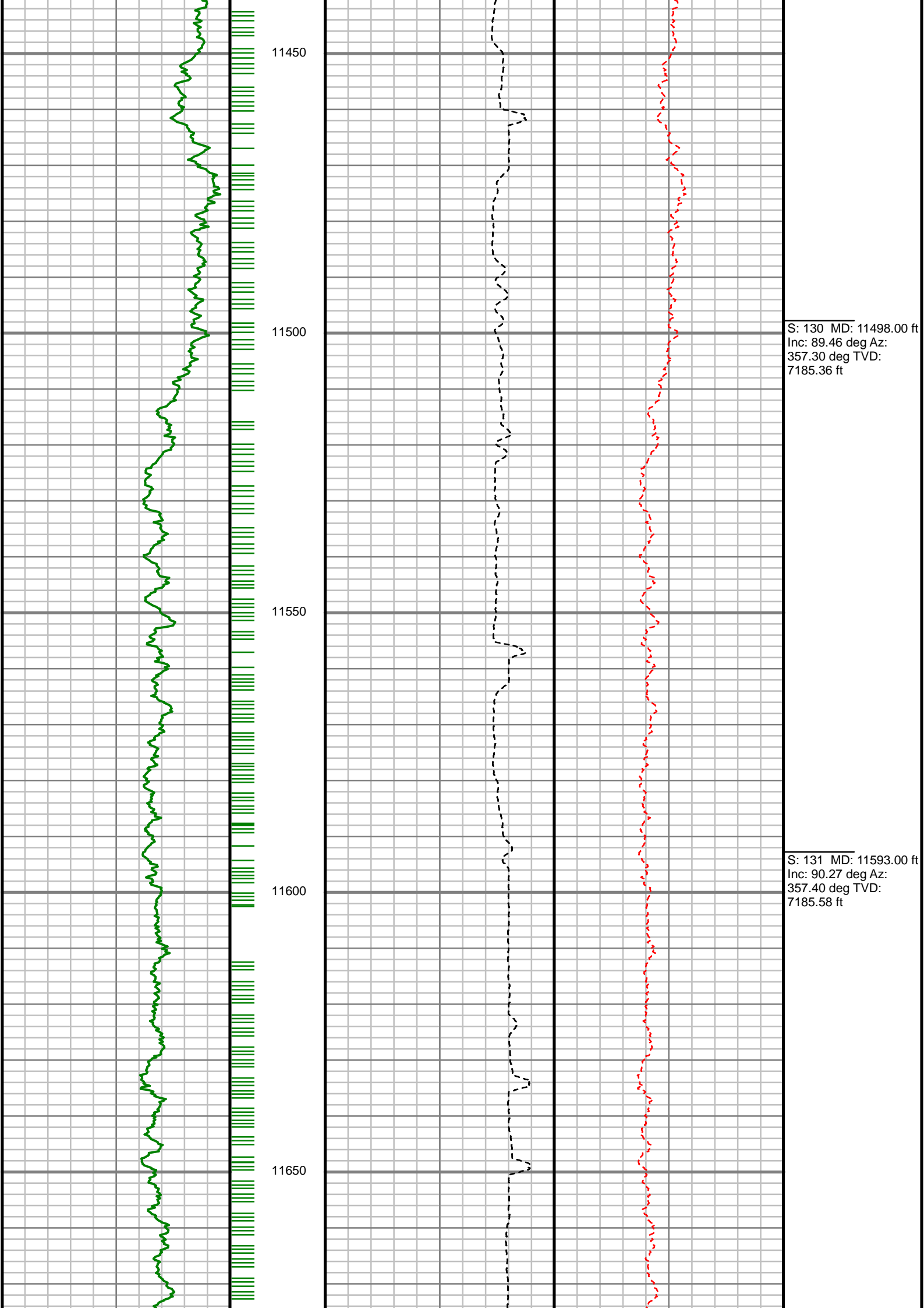
S: 126 MD: 11120.00 ft  
Inc: 88.89 deg Az: 0.27  
deg TVD: 7179.97 ft



S: 127 MD: 11214.00 ft  
Inc: 88.39 deg Az:  
358.92 deg TVD:  
7182.19 ft

S: 128 MD: 11309.00 ft  
Inc: 89.87 deg Az:  
359.80 deg TVD:  
7183.64 ft

S: 129 MD: 11404.00 ft  
Inc: 89.29 deg Az:  
357.69 deg TVD:  
7184.34 ft



11450

11500

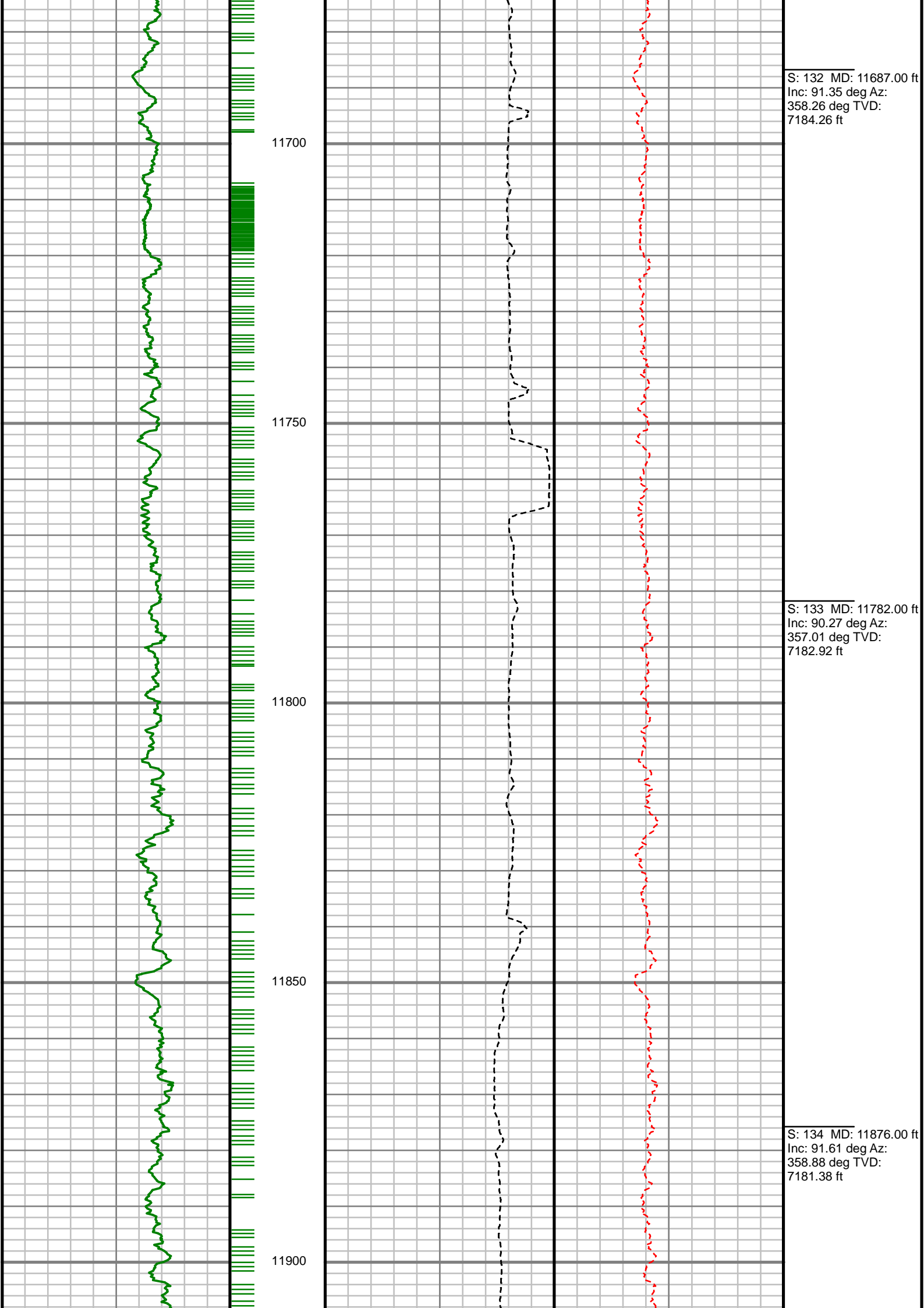
11550

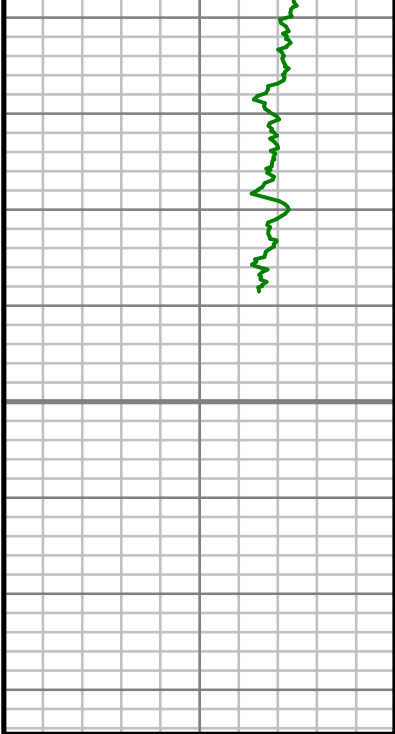
11600

11650

S: 130 MD: 11498.00 ft  
Inc: 89.46 deg Az:  
357.30 deg TVD:  
7185.36 ft

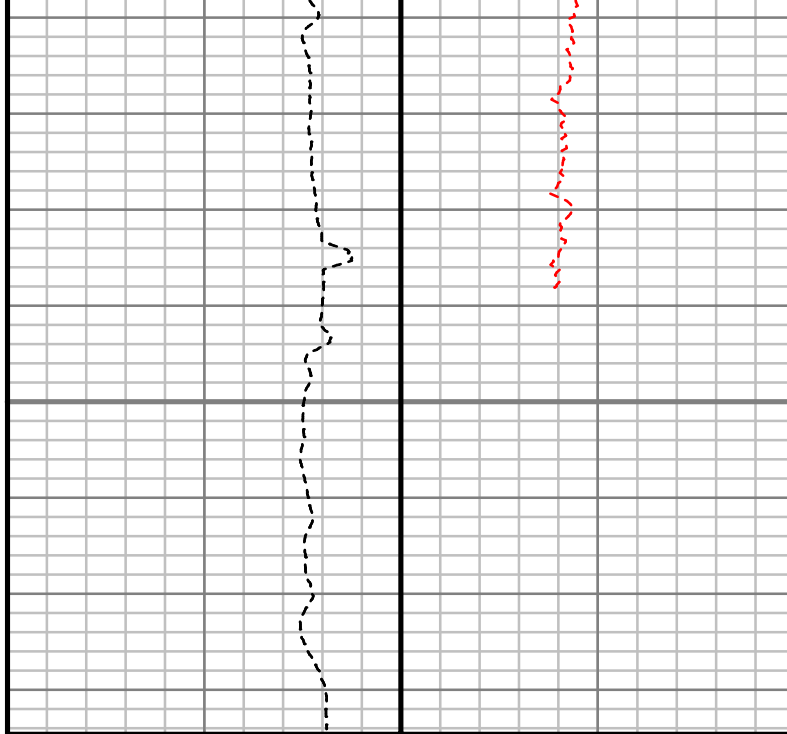
S: 131 MD: 11593.00 ft  
Inc: 90.27 deg Az:  
357.40 deg TVD:  
7185.58 ft



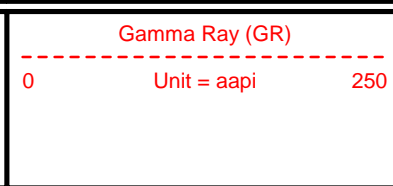
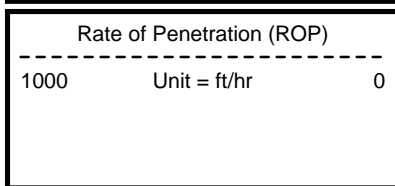
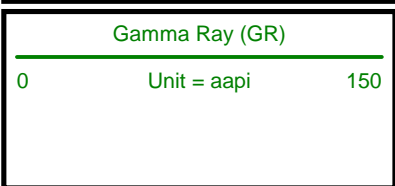


11950

MEASURED DEPTH  
1:240 (ft)



S: 135 MD: 11928.00 ft  
Inc: 92.46 deg Az:  
357.56 deg TVD:  
7179.53 ft



Comments



Scientific Drilling

GAMMA RAY

5" = 100' FEET MD