



5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC  
WELL : BANE 27N1-9H2  
FIELD : WATTENBERG  
COUNTY : WELD  
STATE : COLORADO  
COUNTRY : U.S.A.  
UWI : 05-123-4131

COMPANY : ANADARKO E&P ONSHORE LLC

WELL : BANE 27N1-9HZ

FIELD : WATTENBERG

COUNTY : WELD

STATE : COLORADO

COUNTRY : U.S.A.

UWI : 05-123-4131

WELL LOCATION

LAT:40°3'37.595"N LONG:104°39'53.435"W  
N:14548919.86 ft E:1734194.98 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	1628	11699	0-17	1228	6506
			17-90	6506	7621
			90-92	7621	11699

## CASING RECORD

CASING SIZE	in	FROM	ft	TO	ft
12		0		1228	

DRILLING CO. : H&amp;P

RIG : 307

LWD UNIT NO. :

DISTRICT : CASPER

SPUD DATE : 06/22/2015

LWD START DATE : 06/22/2015

DEPTH : 1183 ft

LWD END DATE : 06/25/2013

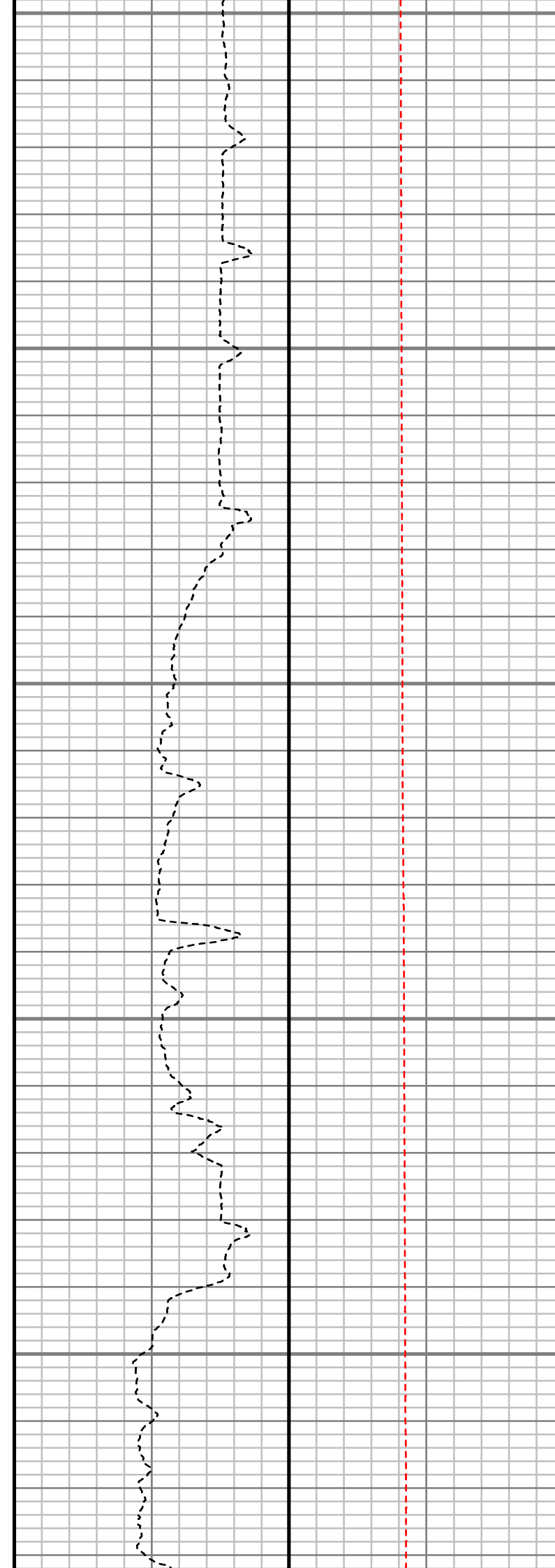
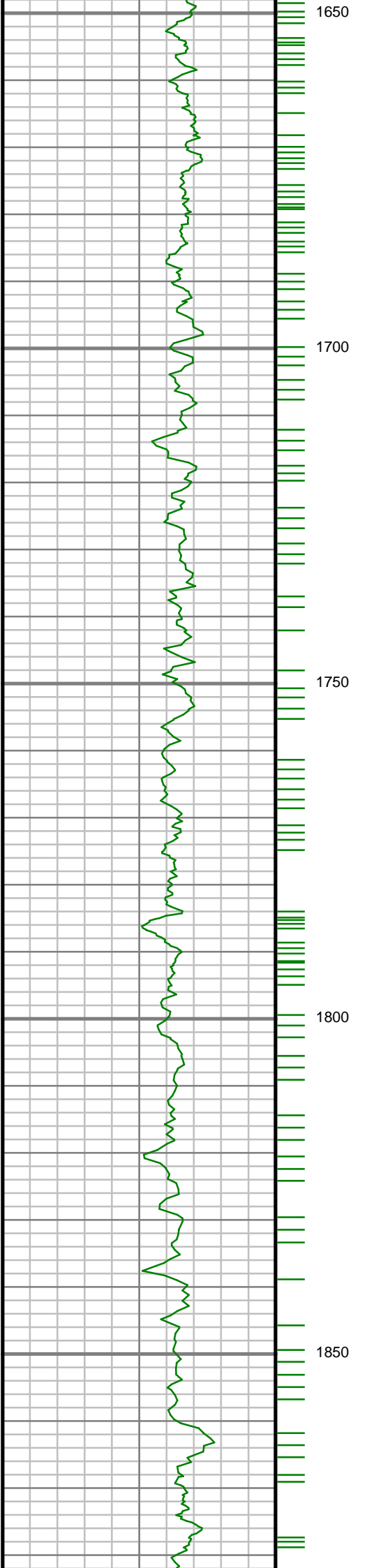
DEPTH : 11699 ft

TOTAL DEPTH : 11699 ft

Run Data

Run Data						
RUN NUMBER	1					
START DATE	06/22/2015					
START TIME	1330					
END DATE	06/25/2015					
END TIME	0145					
DEPTH IN (ft)	1628					
DEPTH OUT (ft)	11699					
LOG TOP (ft)	1583					
LOG BOTTOM (ft)	11656					
HOLE SIZE (in)	8.5					
MUD DATA @ (ft)	1628					
MUD TYPE	OIL-BASED					
DENSITY (lb / gal)	9.2					
VISCOSITY (s / qt)	78					
pH	-					
FLUID LOSS (cm <sup>3</sup> / 30)	3.2					
SALINITY (ppm)	54000					
Rm (ohmm @ deg F)	-					
Rmf (ohmm @ deg F)	-					
MAX TEMP (deg F)	193					
Rm @ MAX TEMP (ohmm)	-					
LWD ENGINEER #1	B. GREER					
LWD ENGINEER #2	M. SCHUSTER					
LWD ENGINEER #3	-					
LOG WITNESS #1	S. SADLE					
LOG WITNESS #2	-					

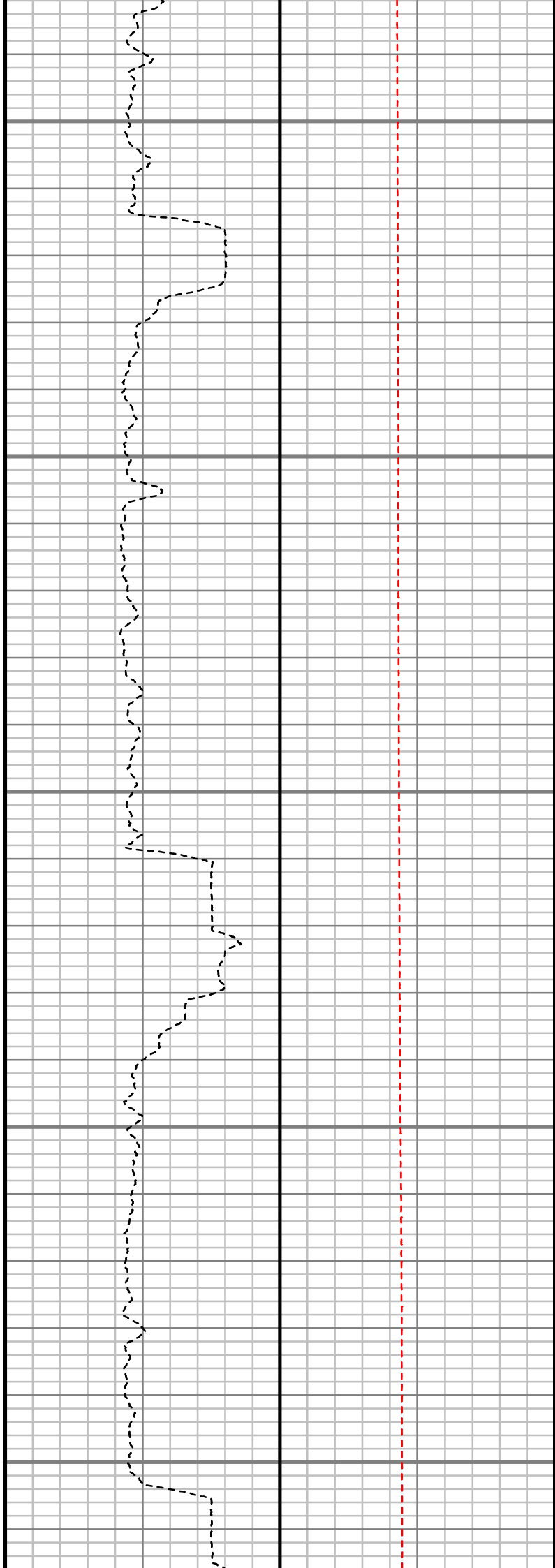
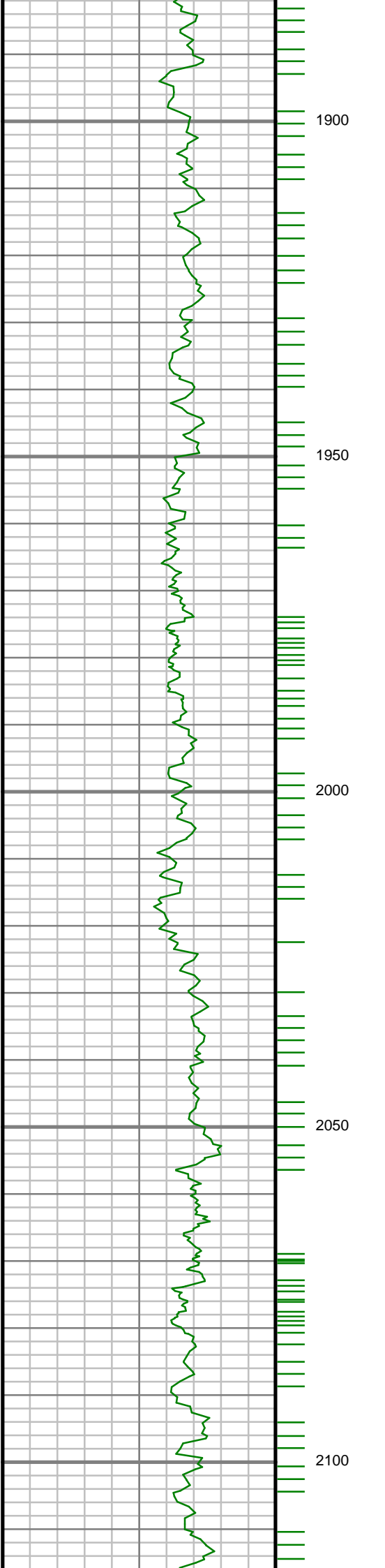




S: 27 MD: 1668.00 ft  
Inc: 16.47 deg Az:  
185.48 deg TVD:  
1643.35 ft

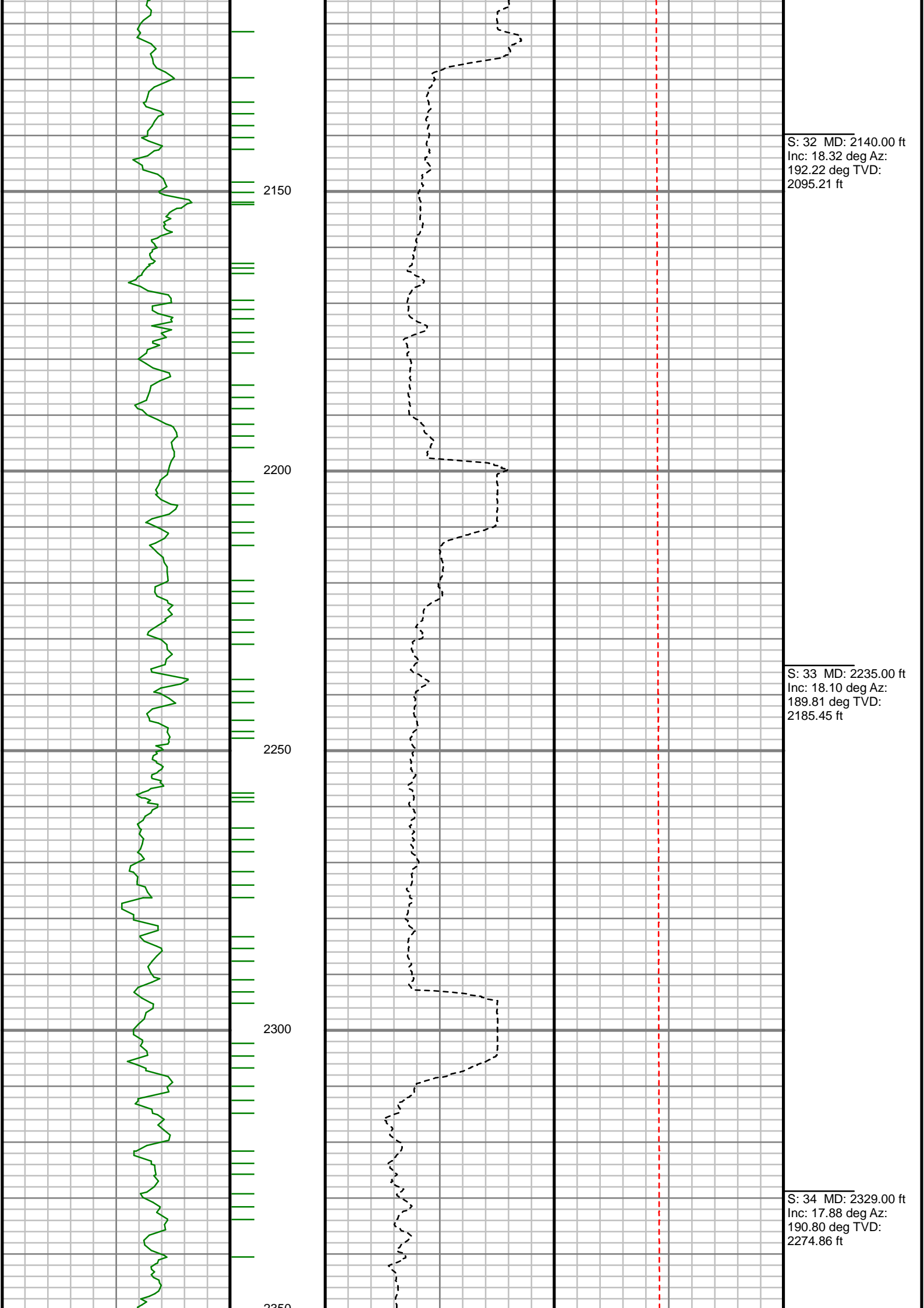
S: 28 MD: 1763.00 ft  
Inc: 16.19 deg Az:  
185.70 deg TVD:  
1734.51 ft

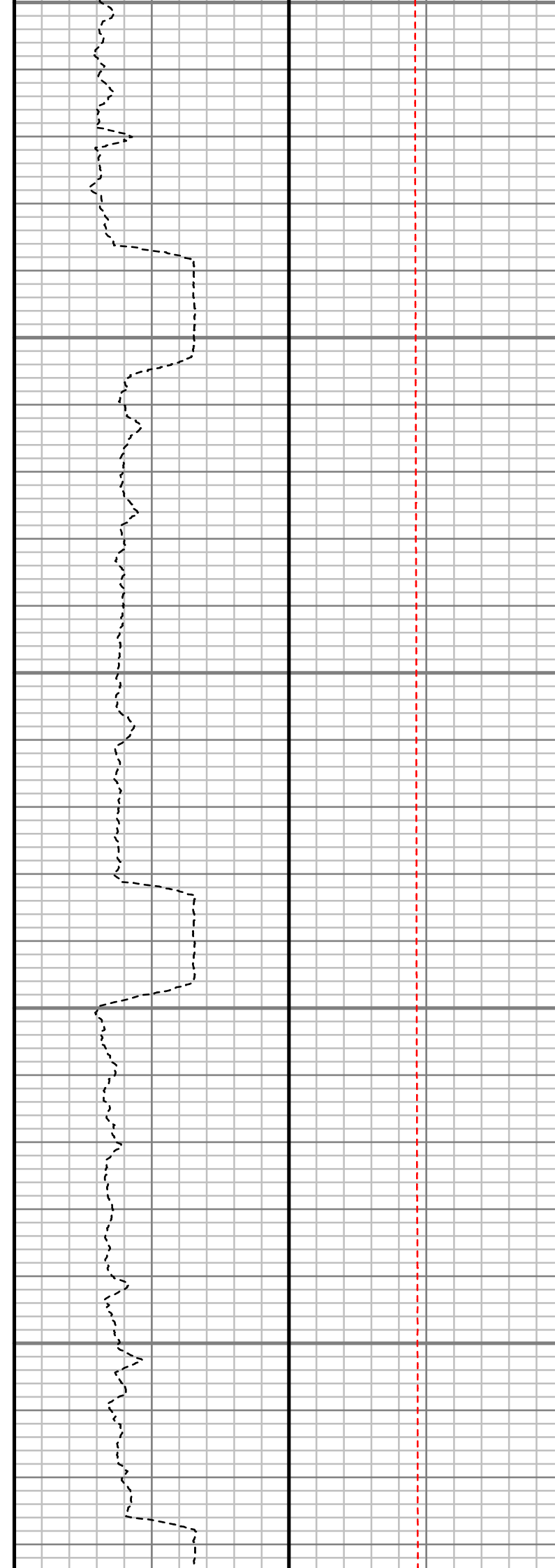
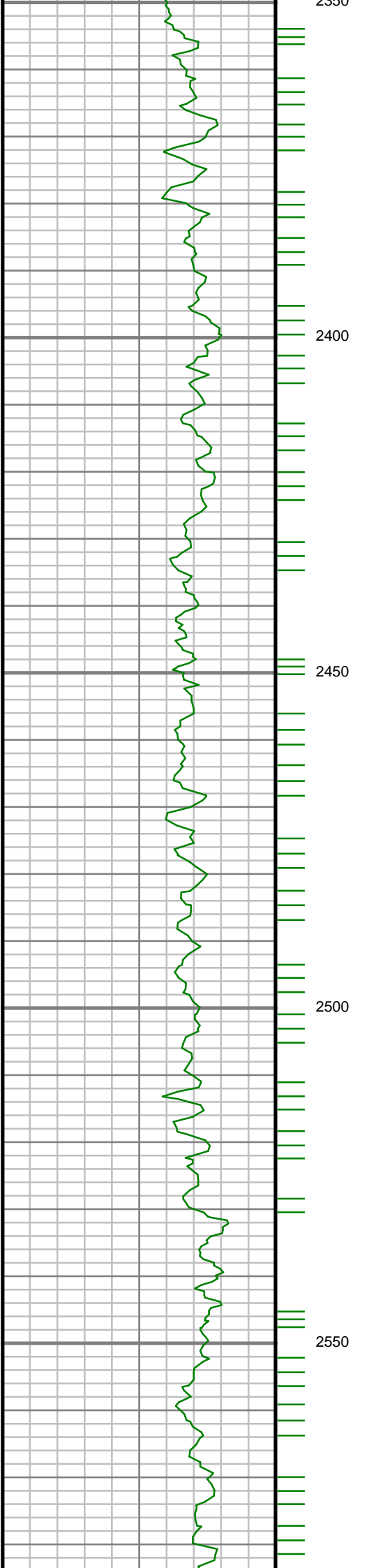
S: 29 MD: 1857.00 ft  
Inc: 17.07 deg Az:  
185.95 deg TVD:  
1824.58 ft



S: 30 MD: 1952.00 ft  
Inc: 16.86 deg Az:  
183.21 deg TVD:  
1915.45 ft

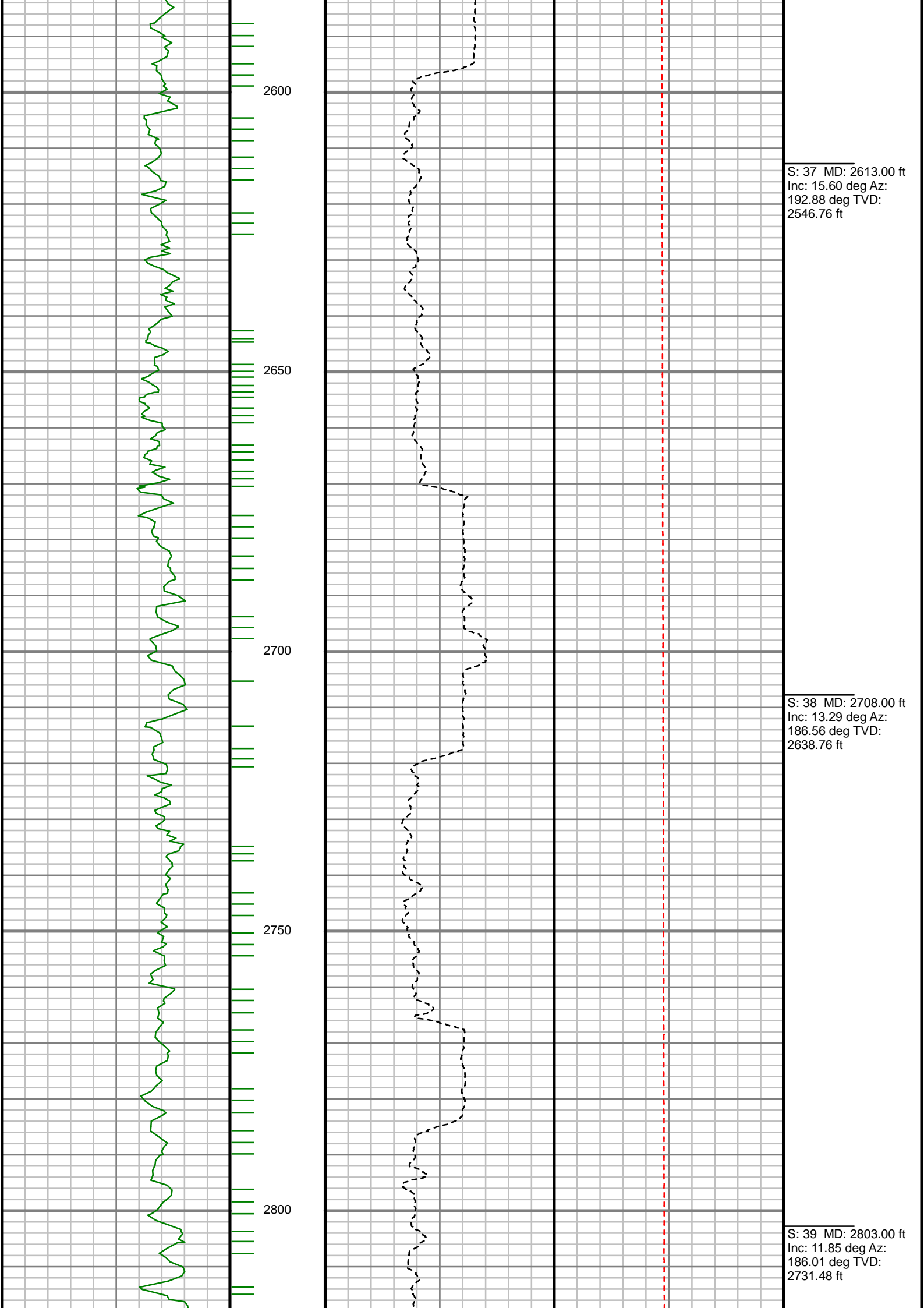
S: 31 MD: 2046.00 ft  
Inc: 16.47 deg Az:  
189.48 deg TVD:  
2005.51 ft

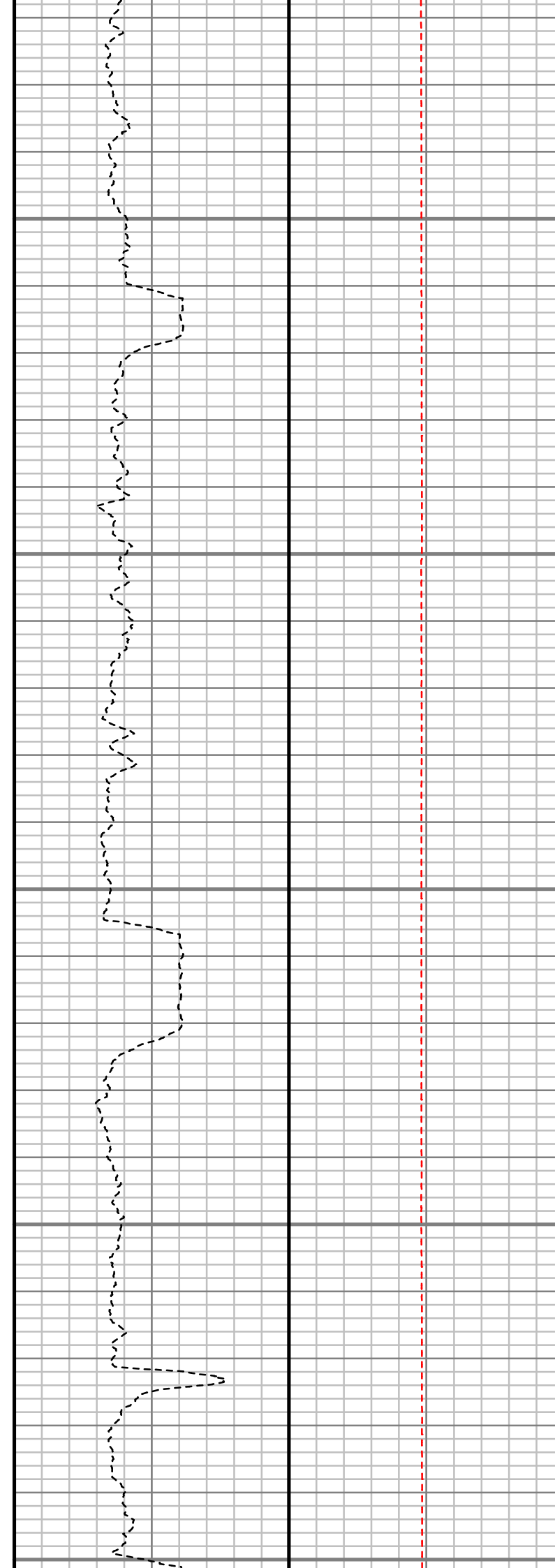
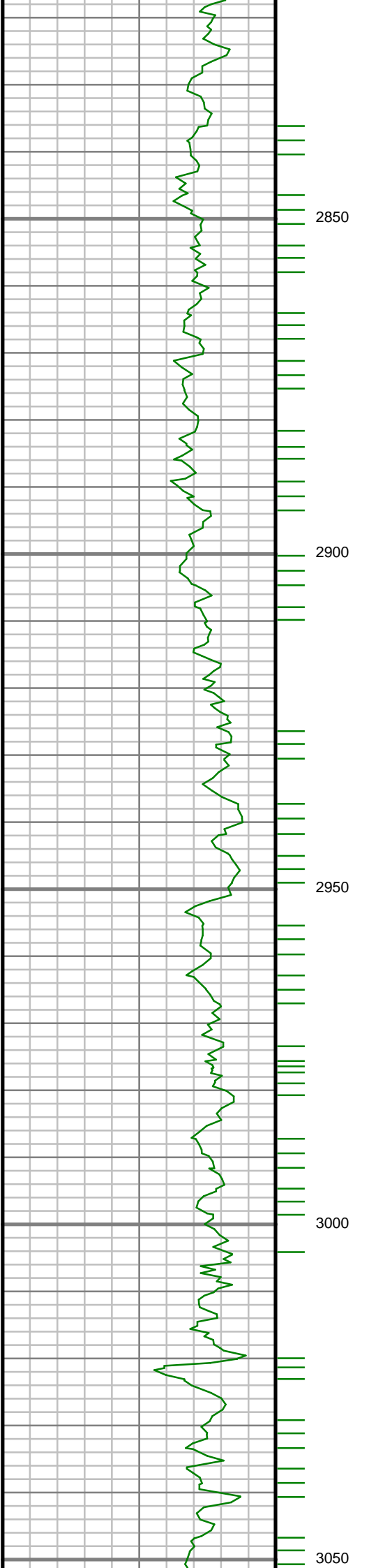




S: 35 MD: 2424.00 ft  
Inc: 17.16 deg Az:  
190.12 deg TVD:  
2365.45 ft

S: 36 MD: 2518.00 ft  
Inc: 16.41 deg Az:  
192.18 deg TVD:  
2455.44 ft

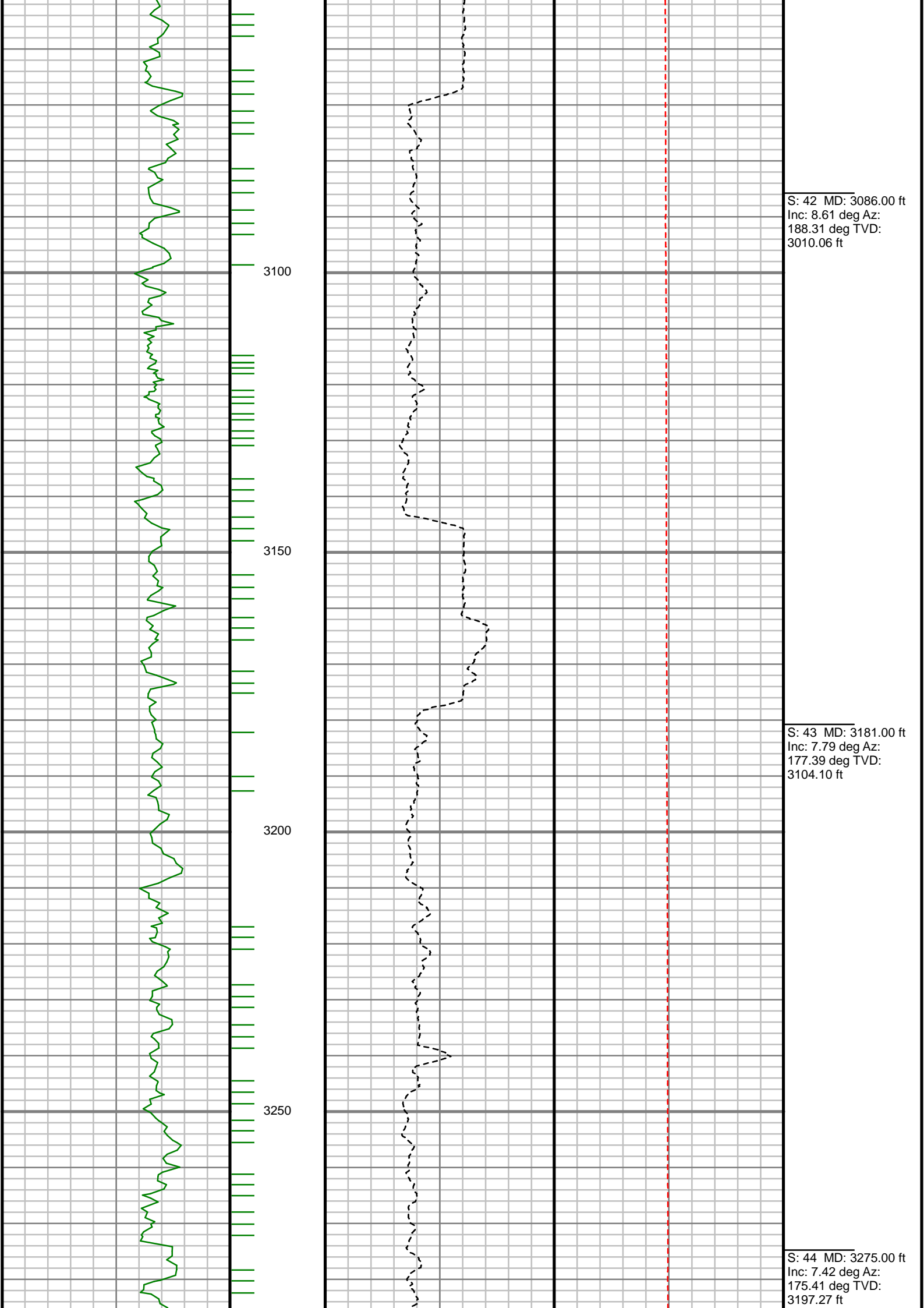




S: 40 MD: 2897.00 ft  
Inc: 10.49 deg Az:  
186.09 deg TVD:  
2823.69 ft

S: 41 MD: 2992.00 ft  
Inc: 9.56 deg Az:  
187.55 deg TVD:  
2917.24 ft

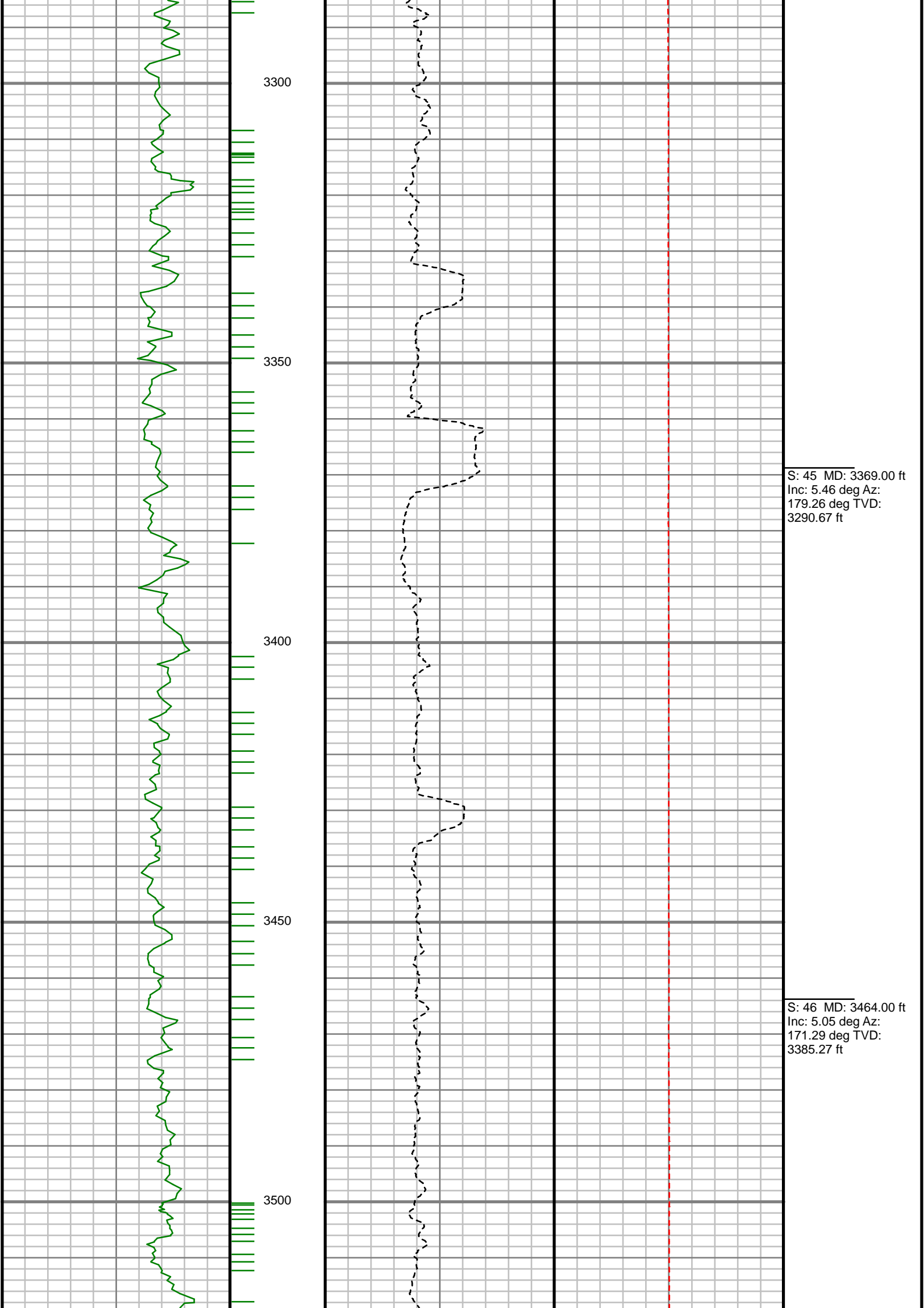


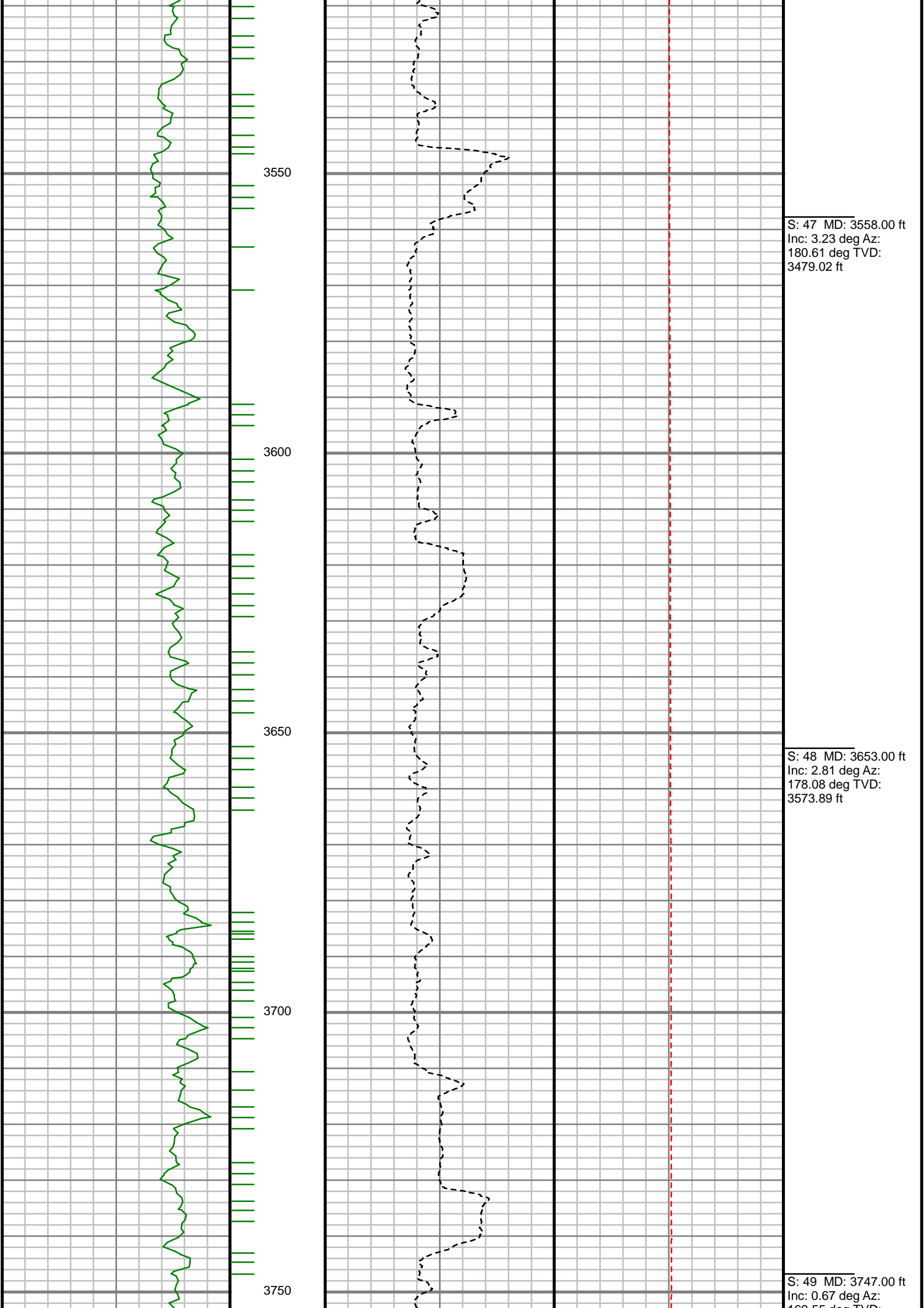


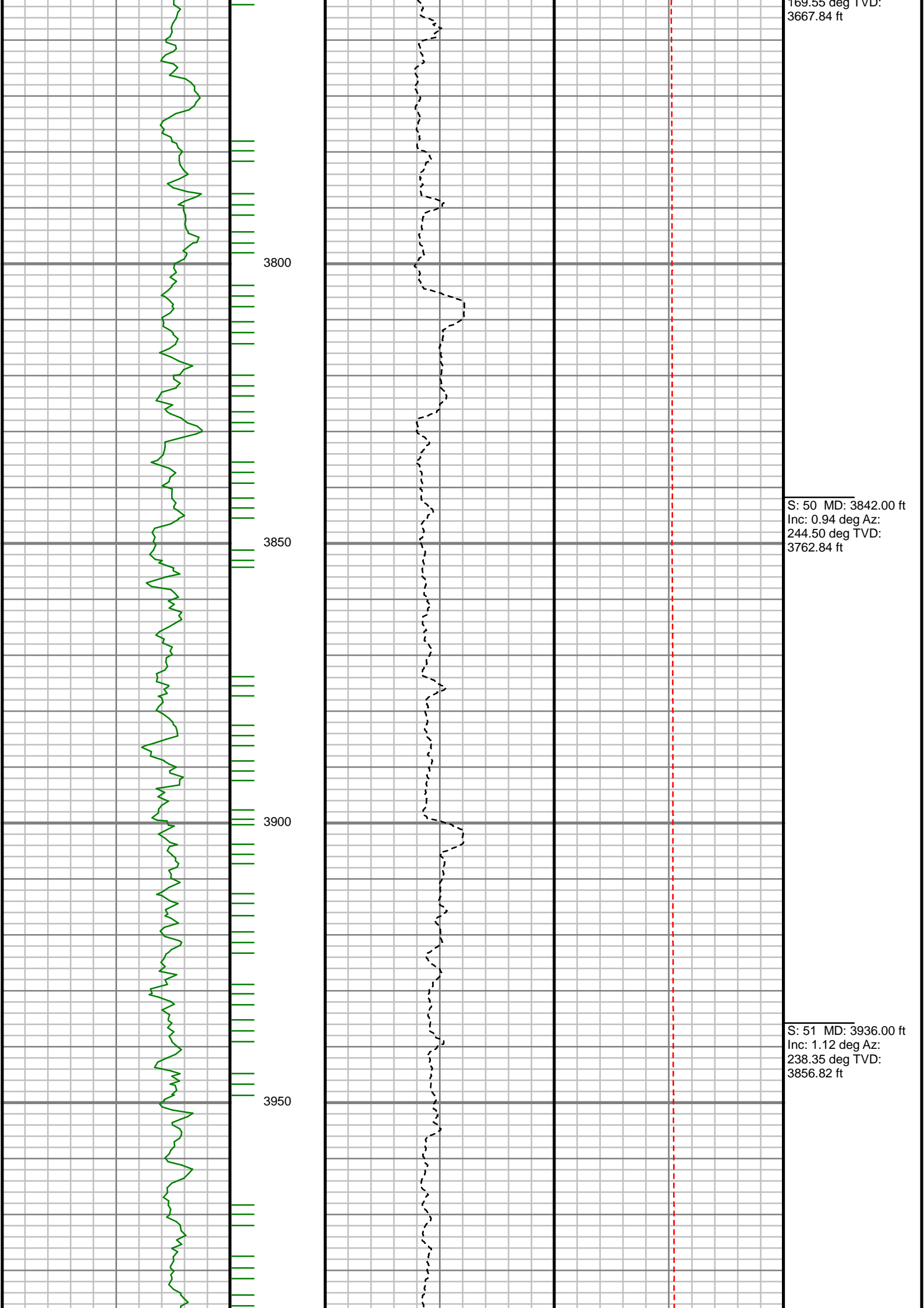
S: 42 MD: 3086.00 ft  
Inc: 8.61 deg Az:  
188.31 deg TVD:  
3010.06 ft

S: 43 MD: 3181.00 ft  
Inc: 7.79 deg Az:  
177.39 deg TVD:  
3104.10 ft

S: 44 MD: 3275.00 ft  
Inc: 7.42 deg Az:  
175.41 deg TVD:  
3197.27 ft



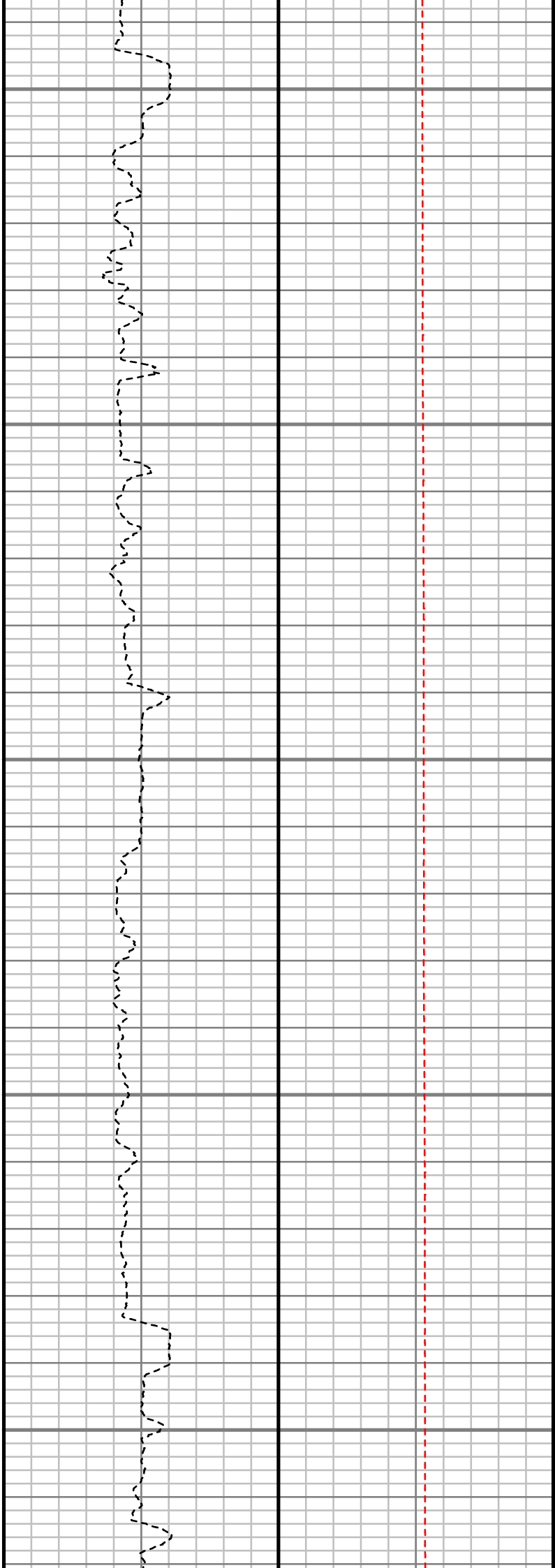
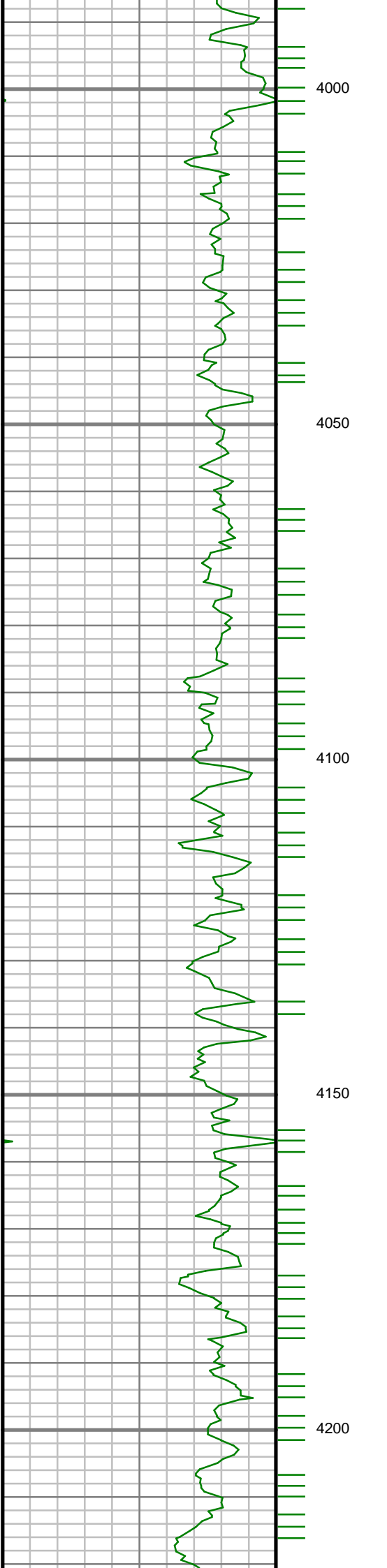




169.55 deg TVD:  
3667.84 ft

S: 50 MD: 3842.00 ft  
Inc: 0.94 deg Az:  
244.50 deg TVD:  
3762.84 ft

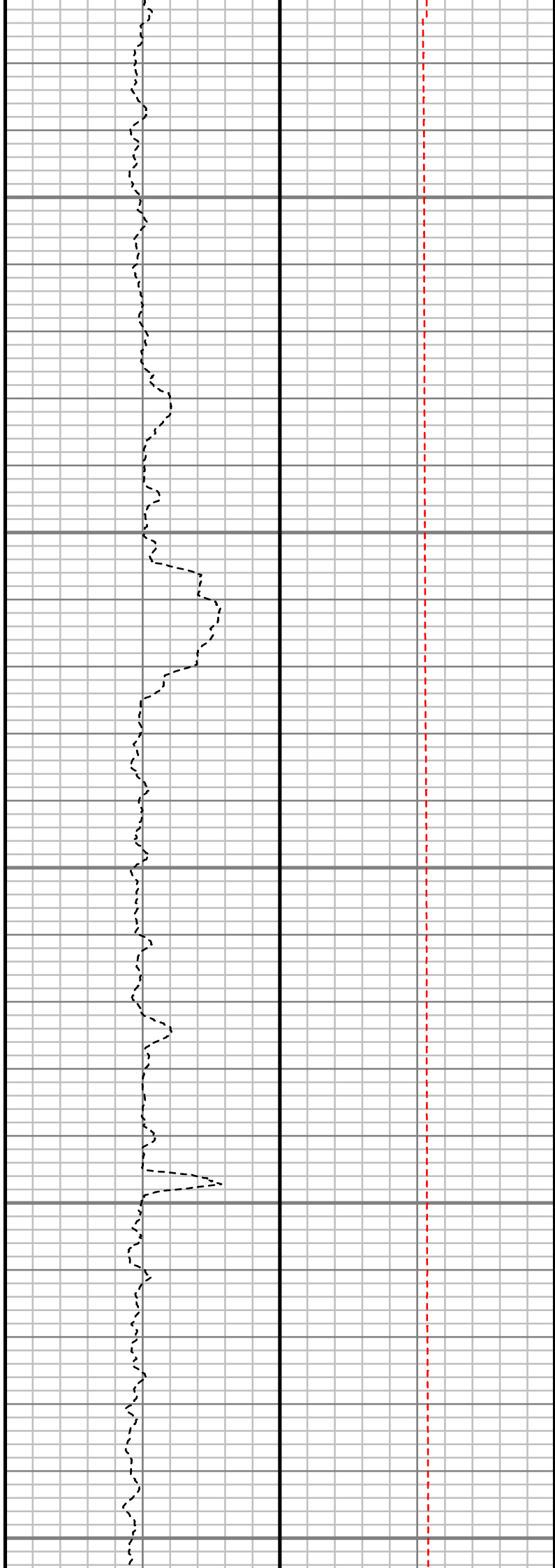
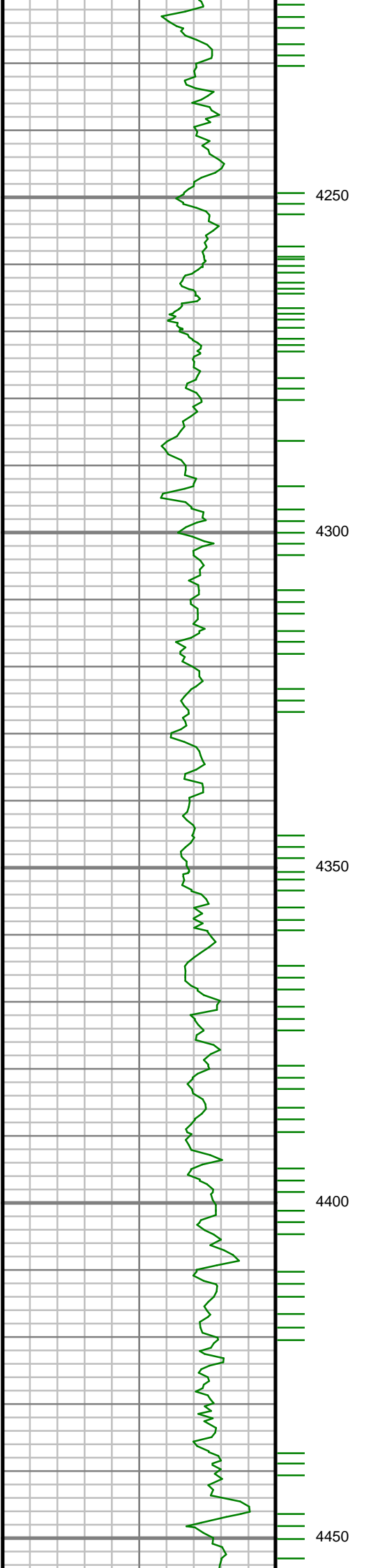
S: 51 MD: 3936.00 ft  
Inc: 1.12 deg Az:  
238.35 deg TVD:  
3856.82 ft



S: 52 MD: 4031.00 ft  
Inc: 0.90 deg Az:  
245.65 deg TVD:  
3951.81 ft

S: 53 MD: 4125.00 ft  
Inc: 0.78 deg Az:  
268.91 deg TVD:  
4045.80 ft

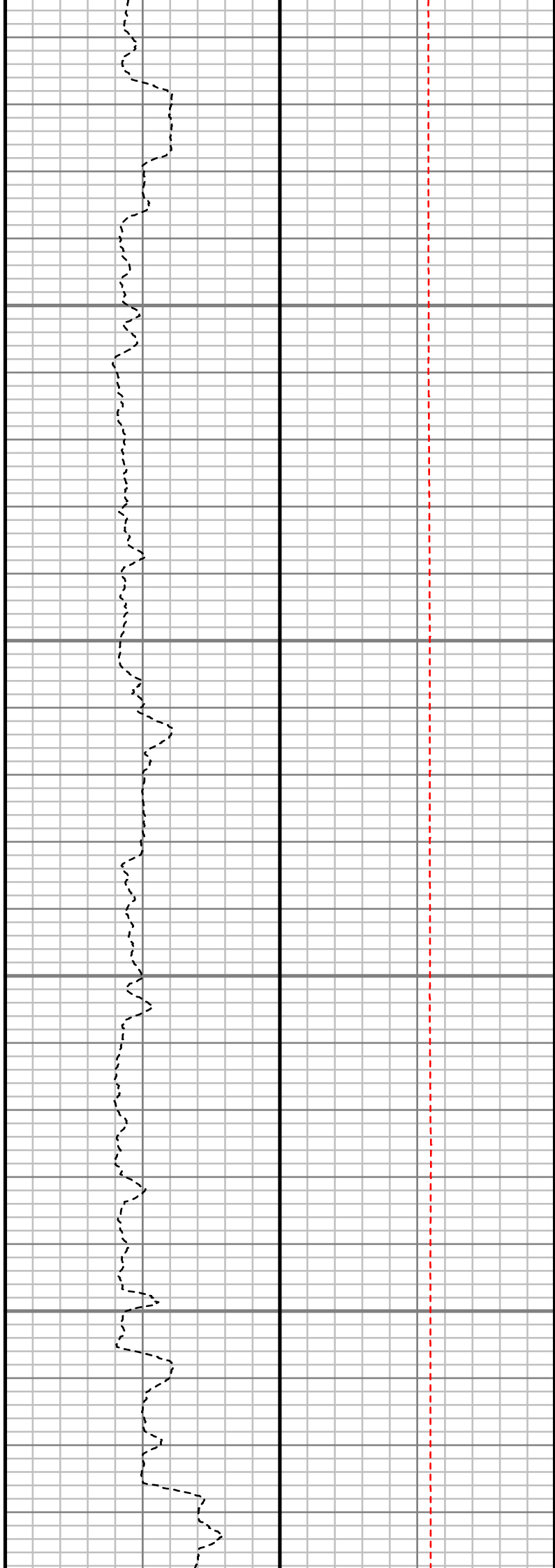
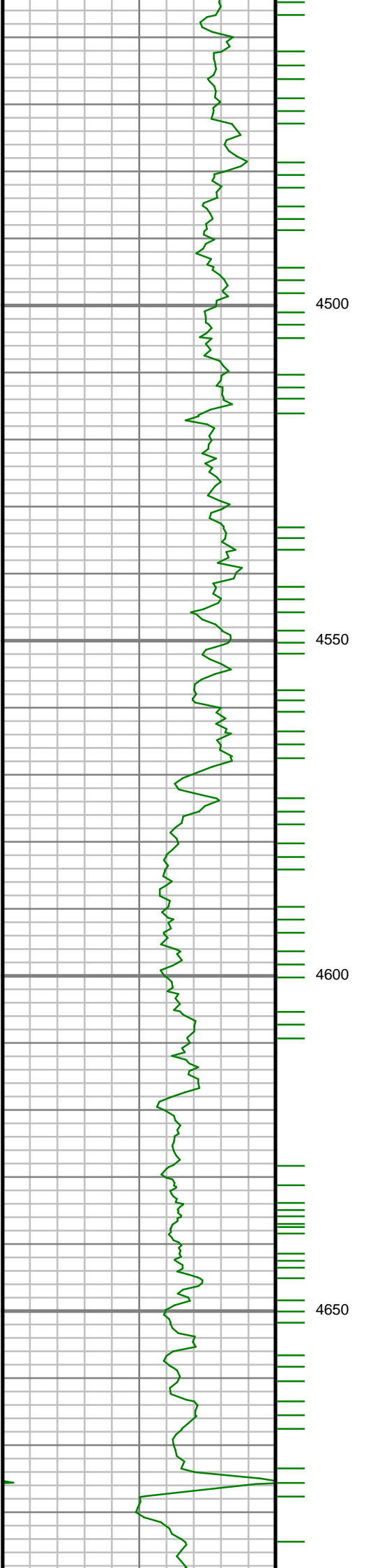
S: 54 MD: 4200.00 ft



S: 54 MD: 4220.00 ft  
Inc: 1.10 deg Az:  
268.75 deg TVD:  
4140.78 ft

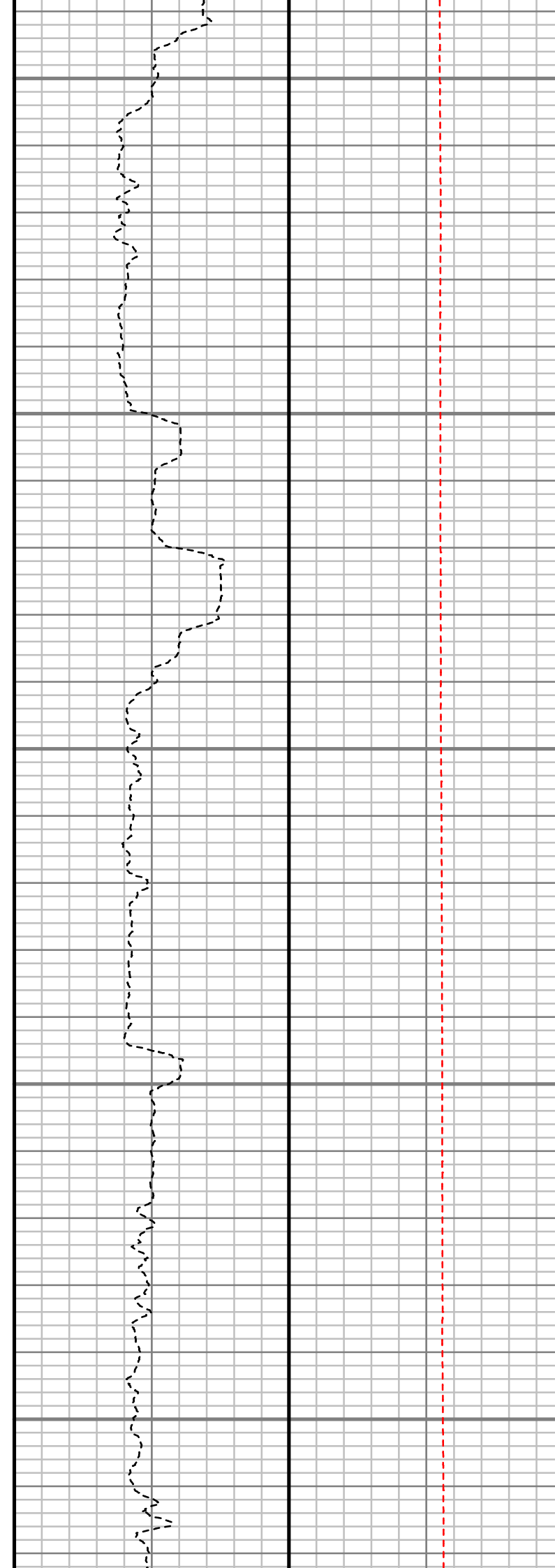
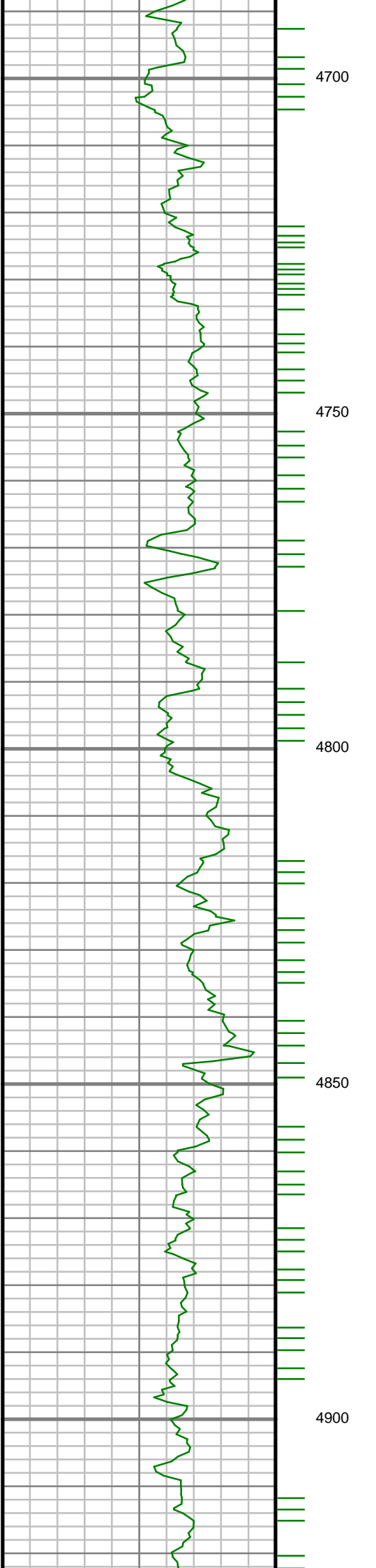
S: 55 MD: 4314.00 ft  
Inc: 0.42 deg Az:  
332.44 deg TVD:  
4234.78 ft

S: 56 MD: 4409.00 ft  
Inc: 1.00 deg Az:  
339.99 deg TVD:  
4329.77 ft



S: 57 MD: 4503.00 ft  
Inc: 1.26 deg Az:  
311.00 deg TVD:  
4423.75 ft

S: 58 MD: 4598.00 ft  
Inc: 1.64 deg Az:  
288.52 deg TVD:  
4518.72 ft

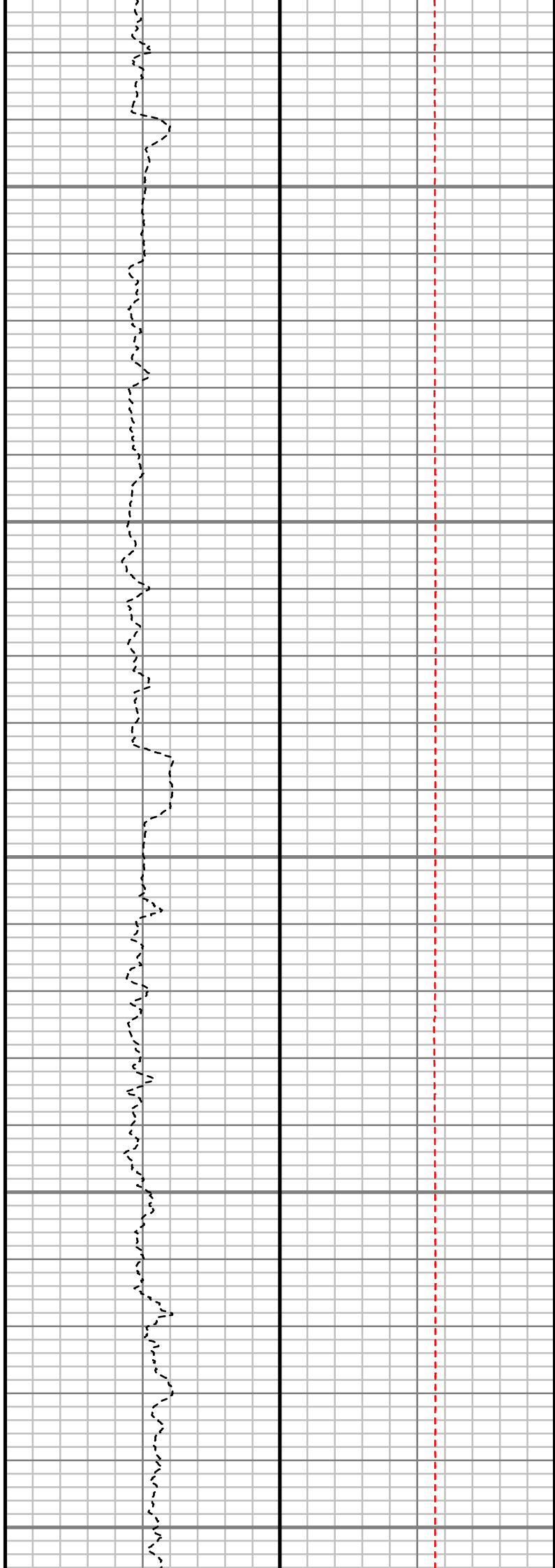
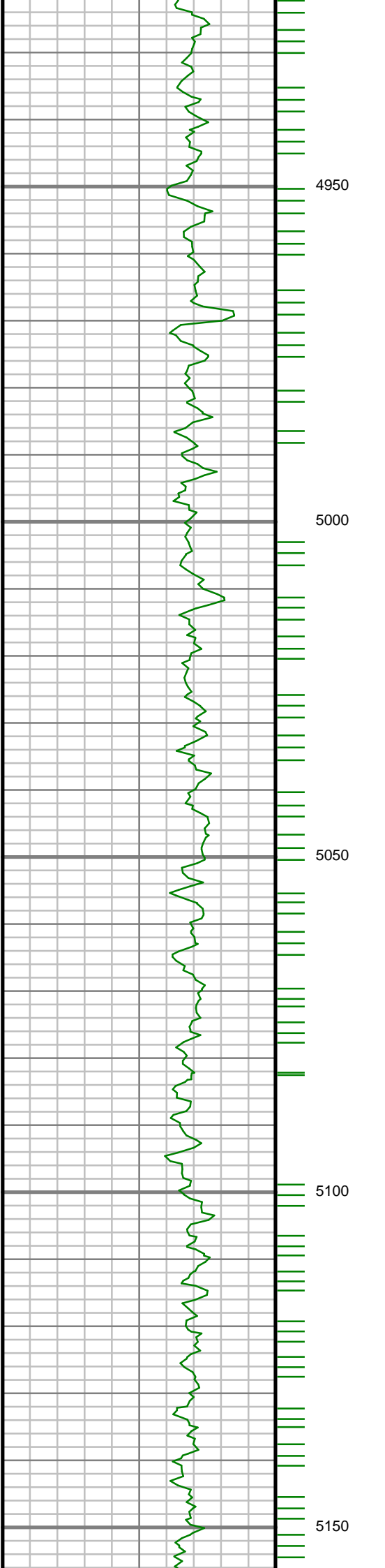


S: 59 MD: 4692.00 ft  
Inc: 1.02 deg Az:  
222.19 deg TVD:  
4612.70 ft

S: 60 MD: 4787.00 ft  
Inc: 0.67 deg Az:  
128.48 deg TVD:  
4707.69 ft

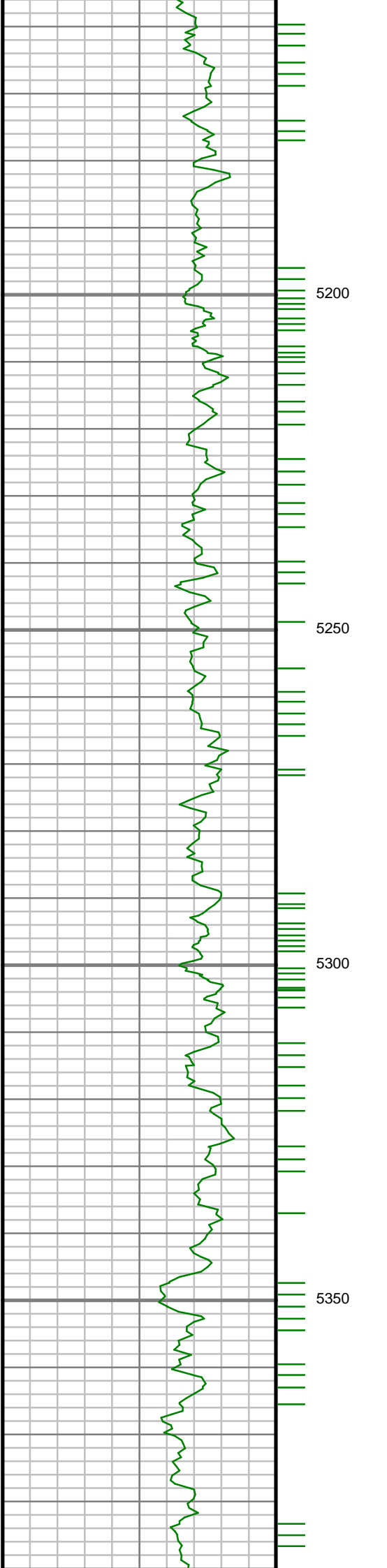
S: 61 MD: 4881.00 ft  
Inc: 0.75 deg Az:  
122.93 deg TVD:  
4801.69 ft





S: 62 MD: 4976.00 ft  
Inc: 0.55 deg Az:  
115.12 deg TVD:  
4896.68 ft

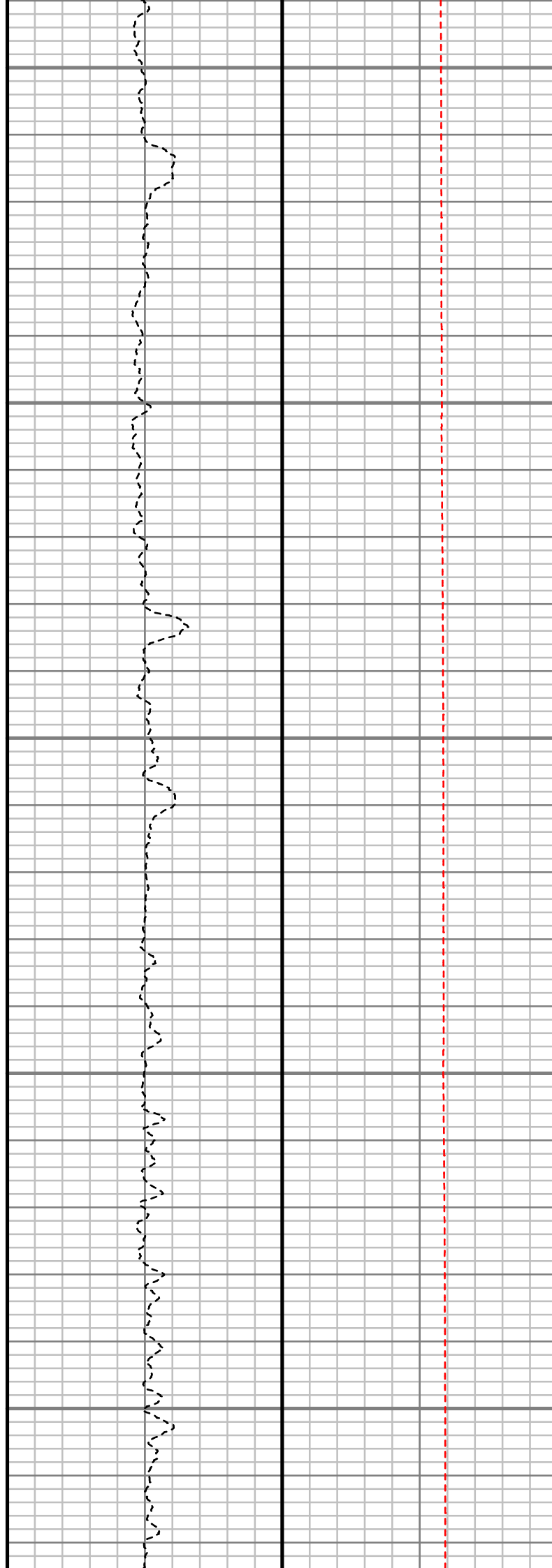
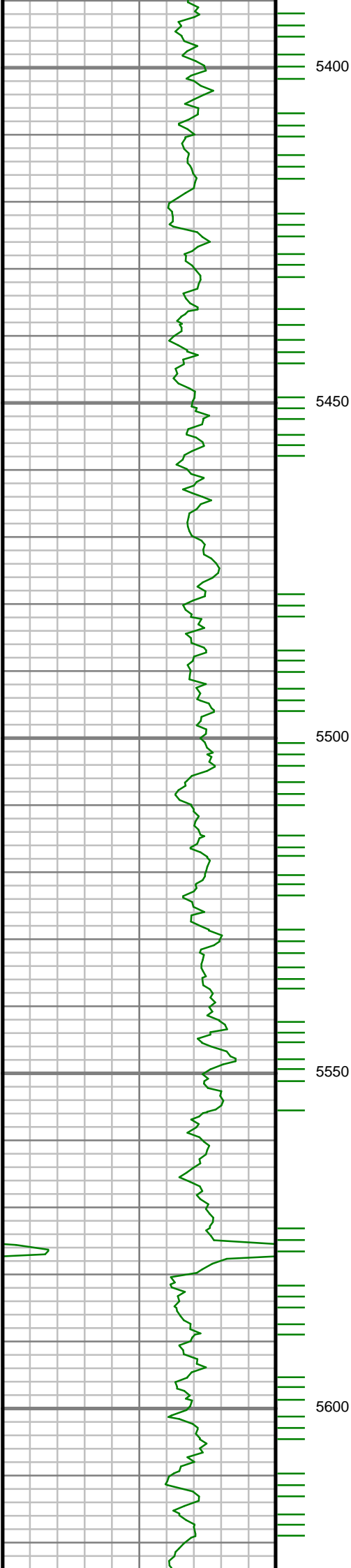
S: 63 MD: 5070.00 ft  
Inc: 1.01 deg Az: 29.52  
deg TVD: 4990.67 ft



S: 64 MD: 5165.00 ft  
Inc: 1.81 deg Az: 17.80  
deg TVD: 5085.64 ft

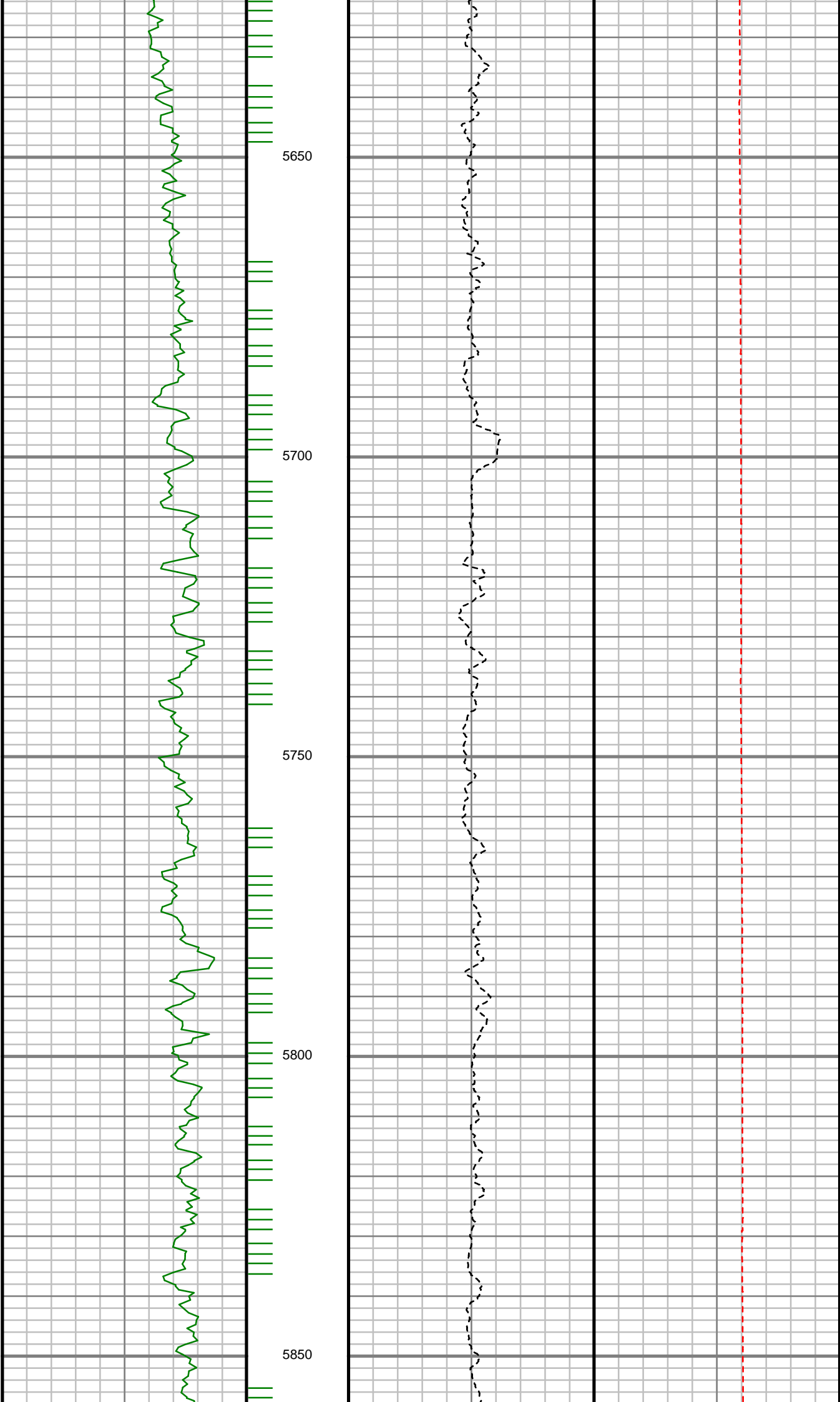
S: 65 MD: 5259.00 ft  
Inc: 1.24 deg Az: 22.55  
deg TVD: 5179.61 ft

S: 66 MD: 5354.00 ft  
Inc: 0.87 deg Az: 61.72  
deg TVD: 5274.60 ft



S: 67 MD: 5448.00 ft  
Inc: 0.89 deg Az: 80.10  
deg TVD: 5368.58 ft

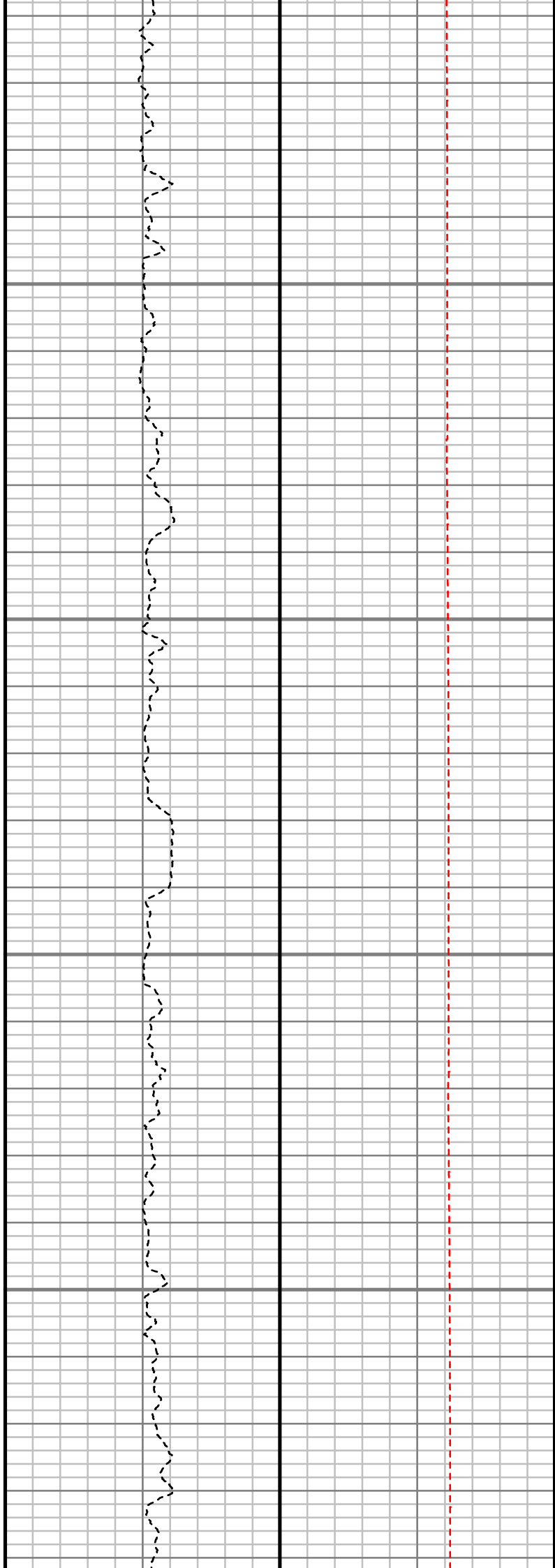
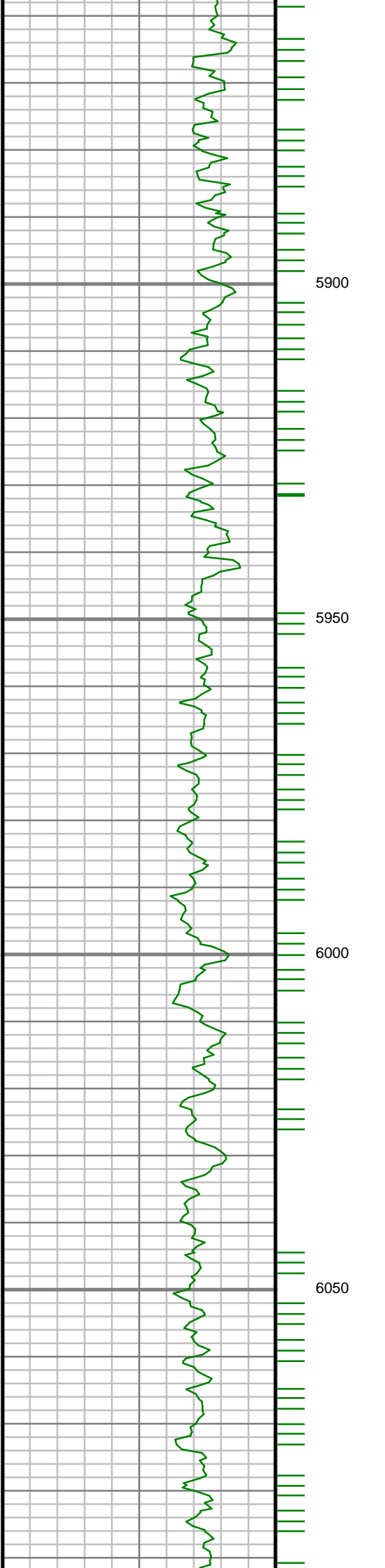
S: 68 MD: 5542.00 ft  
Inc: 0.58 deg Az: 87.05  
deg TVD: 5462.58 ft



S: 69 MD: 5637.00 ft  
Inc: 0.63 deg Az: 94.21  
deg TVD: 5557.57 ft

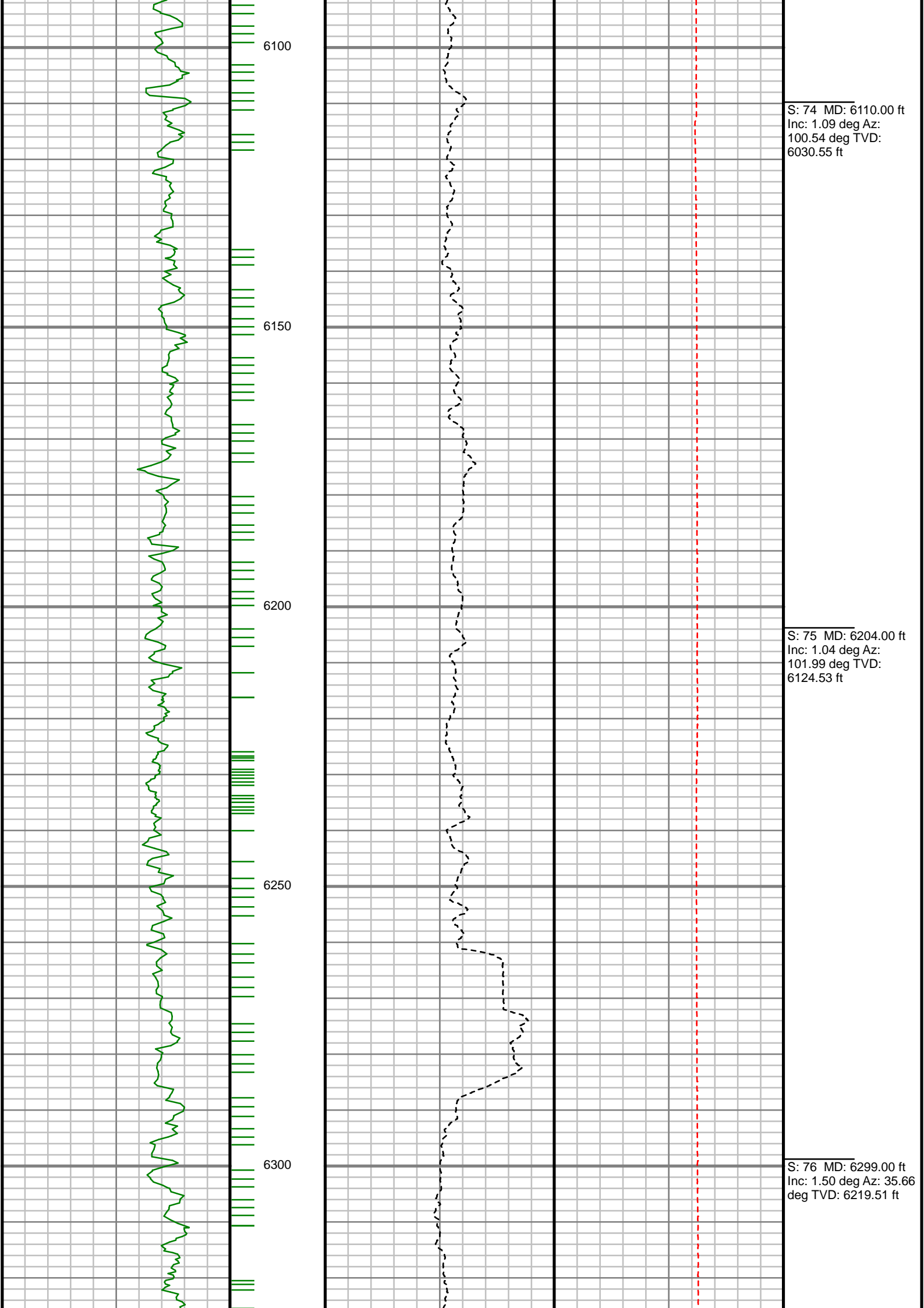
S: 70 MD: 5731.00 ft  
Inc: 0.34 deg Az: 85.83  
deg TVD: 5651.57 ft

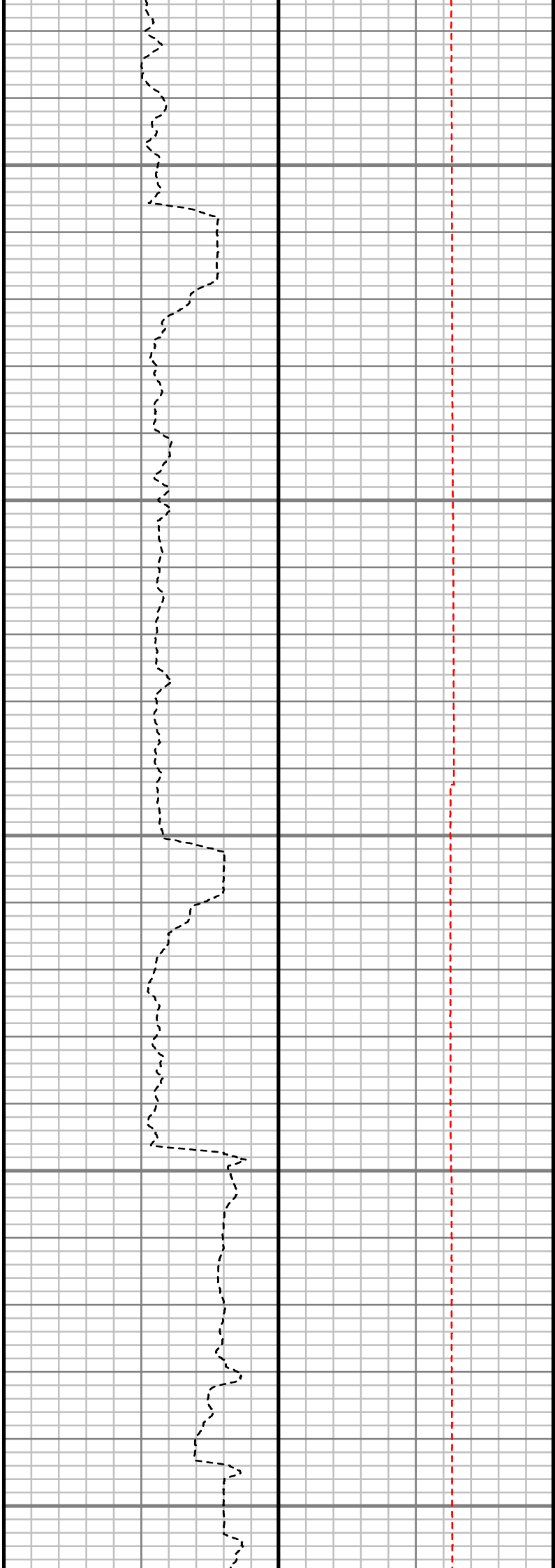
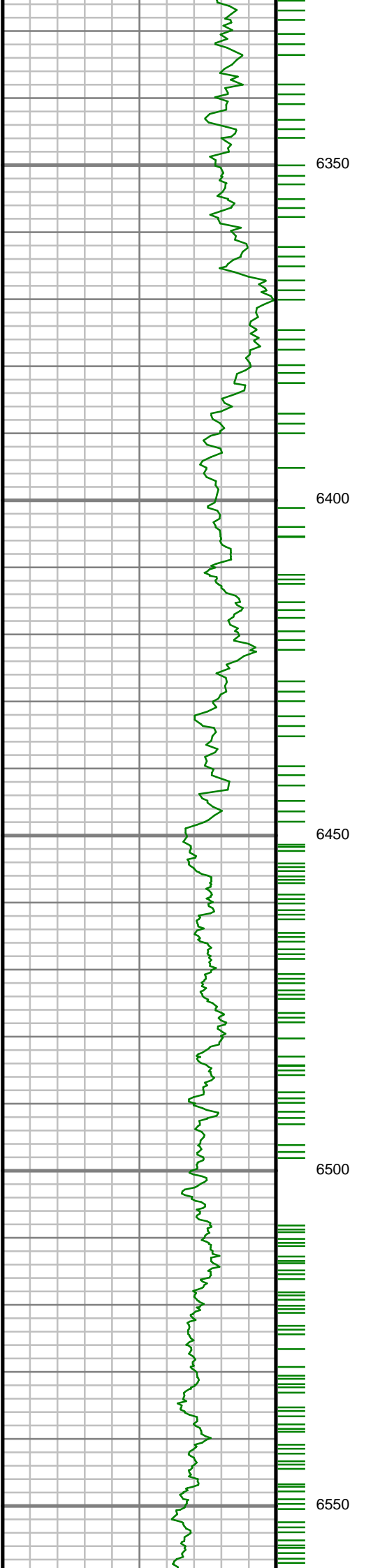
S: 71 MD: 5826.00 ft  
Inc: 0.34 deg Az:  
150.46 deg TVD:  
5746.57 ft



S: 72 MD: 5920.00 ft  
Inc: 0.48 deg Az: 86.93  
deg TVD: 5840.56 ft

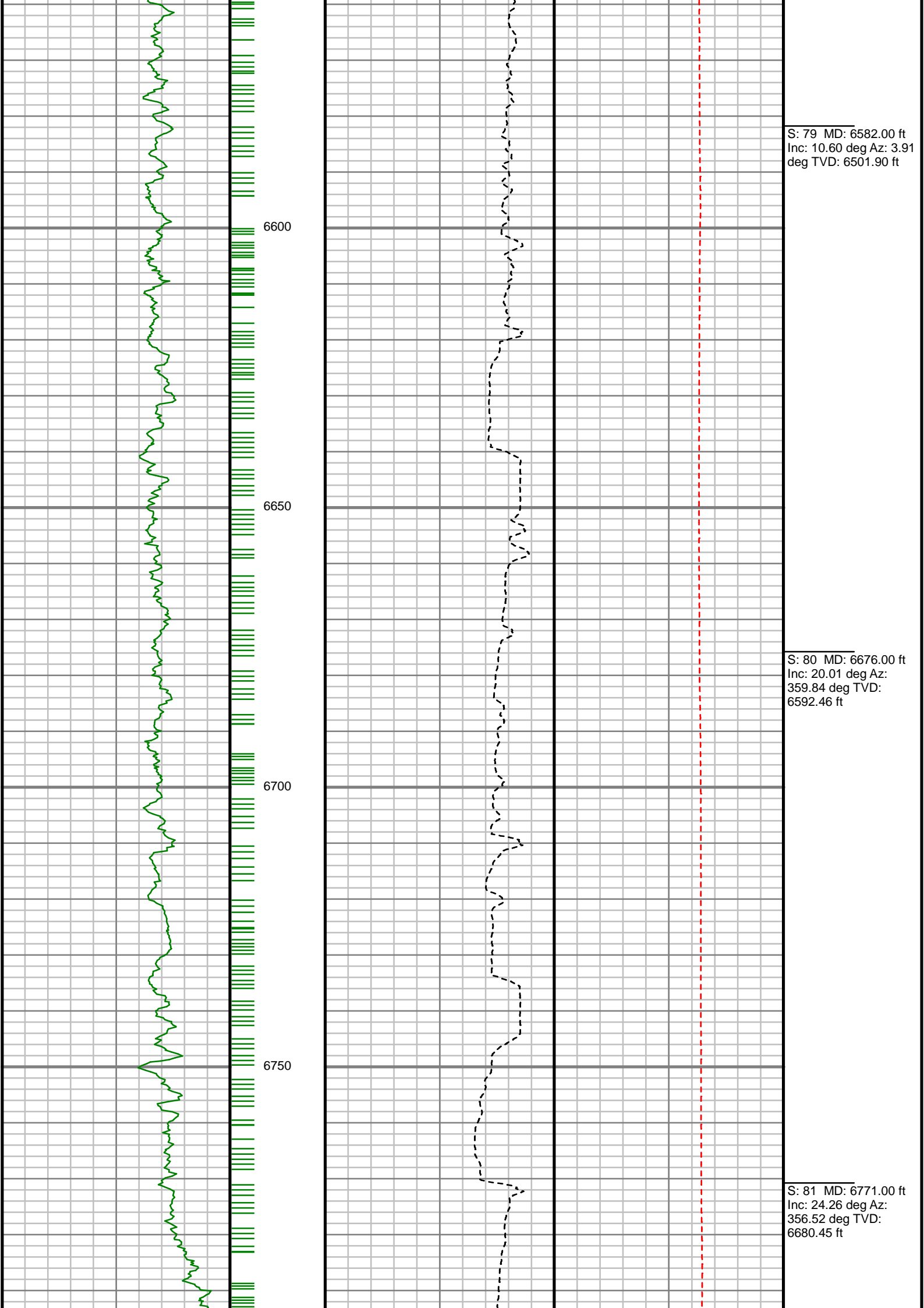
S: 73 MD: 6015.00 ft  
Inc: 0.73 deg Az: 111.90  
deg TVD: 5935.56 ft



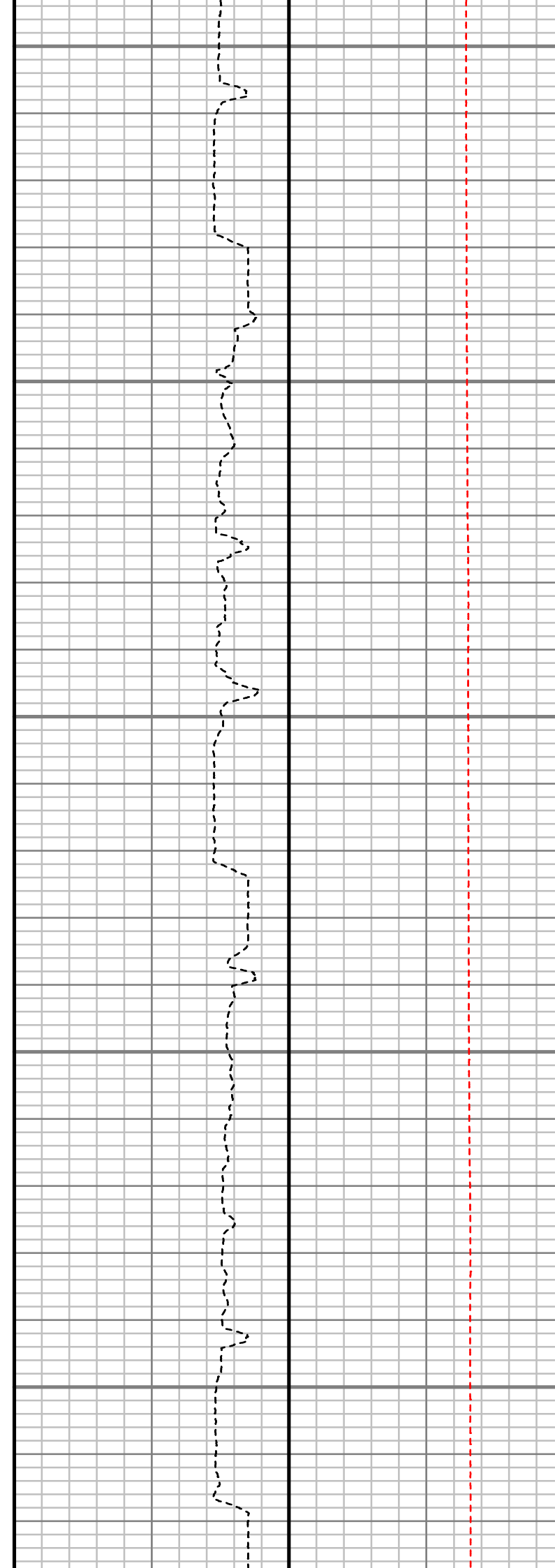
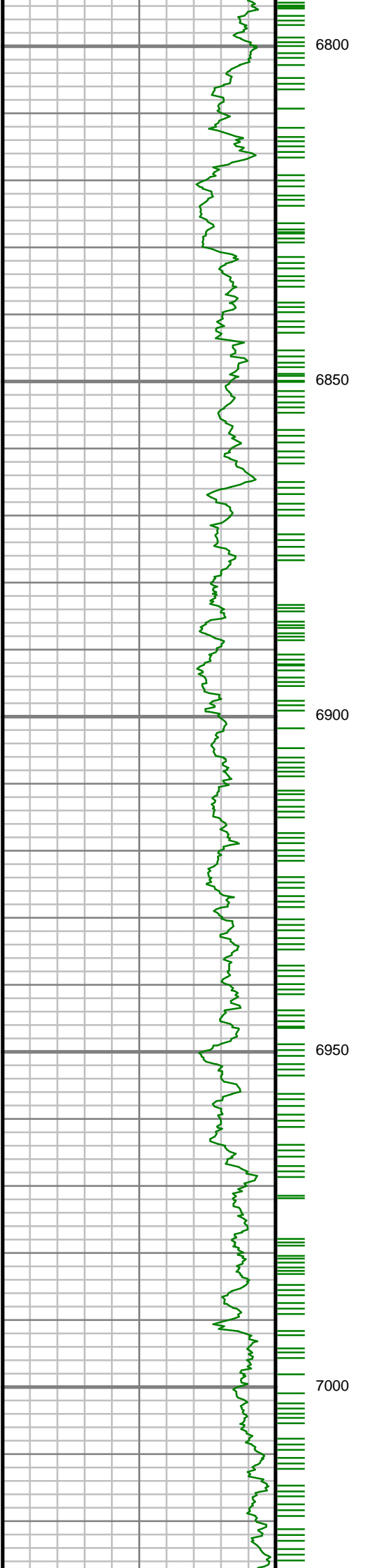


S: 77 MD: 6393.00 ft  
Inc: 0.96 deg Az: 19.49  
deg TVD: 6313.49 ft

S: 78 MD: 6487.00 ft  
Inc: 0.78 deg Az:  
360.00 deg TVD:  
6407.48 ft

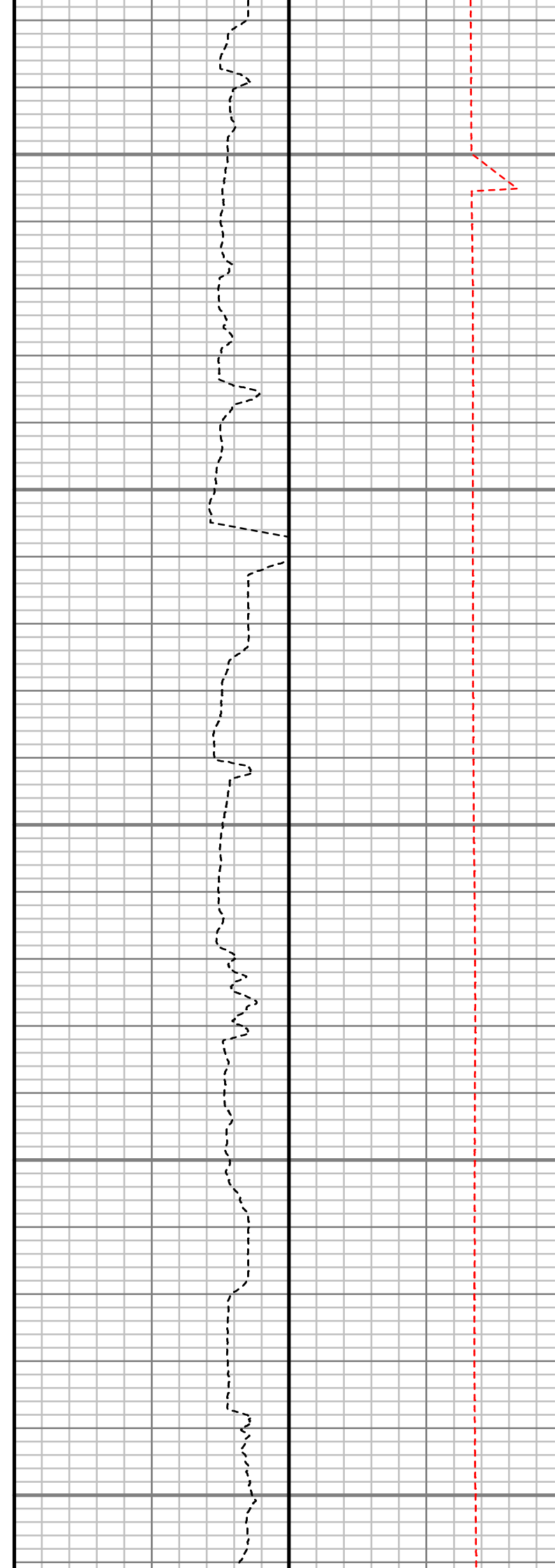
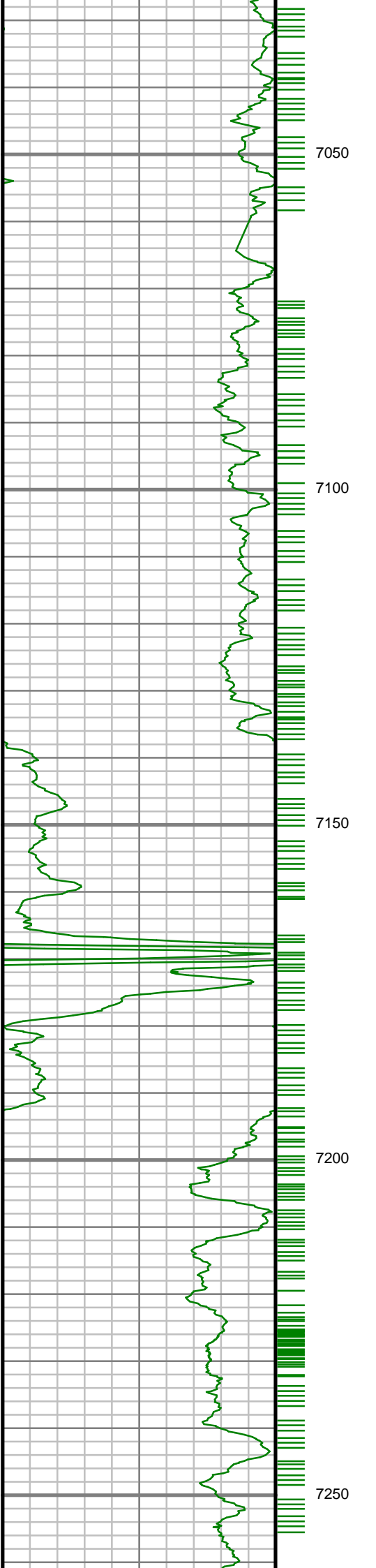






S: 82 MD: 6865.00 ft  
Inc: 32.89 deg Az: 0.07  
deg TVD: 6762.92 ft

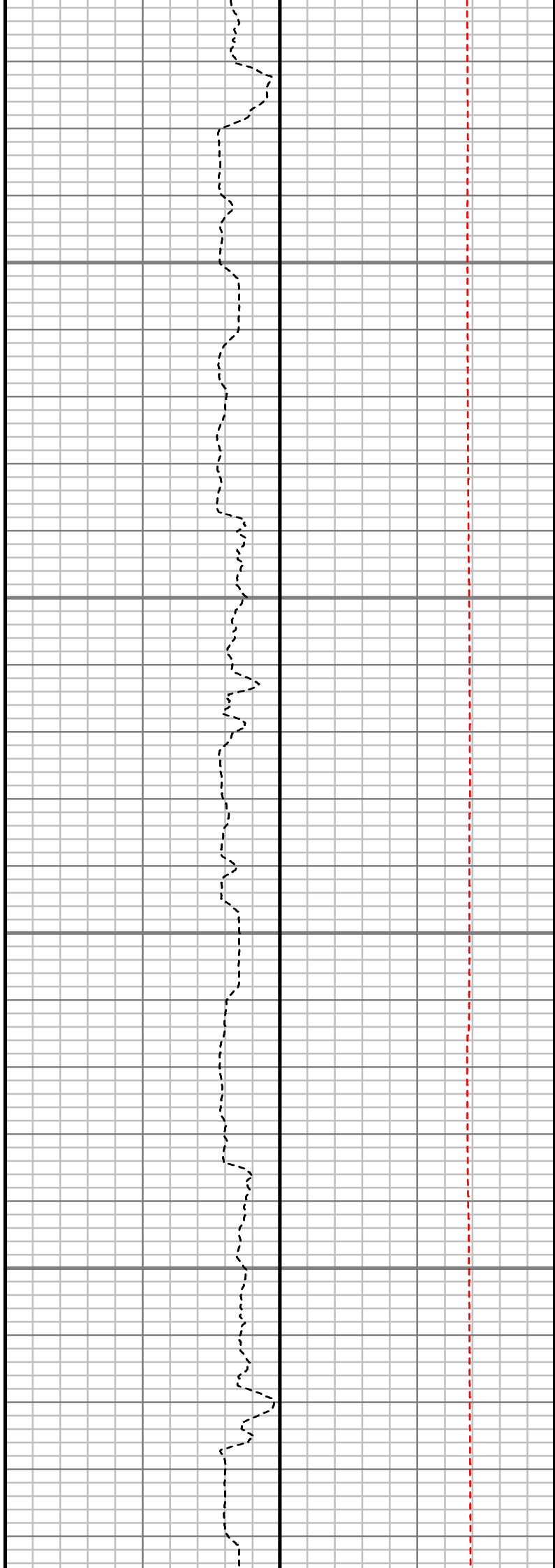
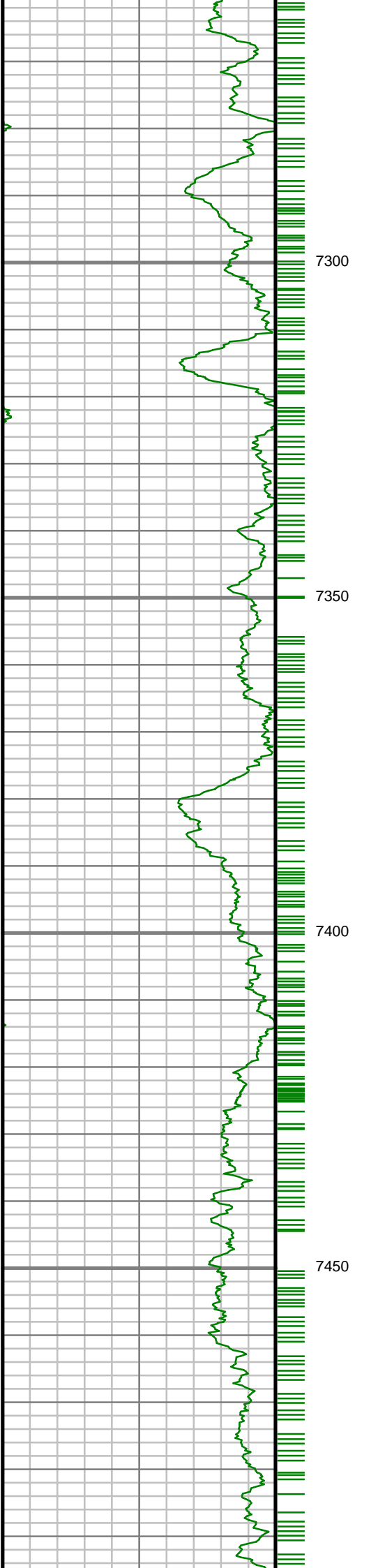
S: 83 MD: 6960.00 ft  
Inc: 41.34 deg Az:  
359.88 deg TVD:  
6838.61 ft



S: 84 MD: 7054.00 ft  
Inc: 50.00 deg Az:  
358.76 deg TVD:  
6904.24 ft

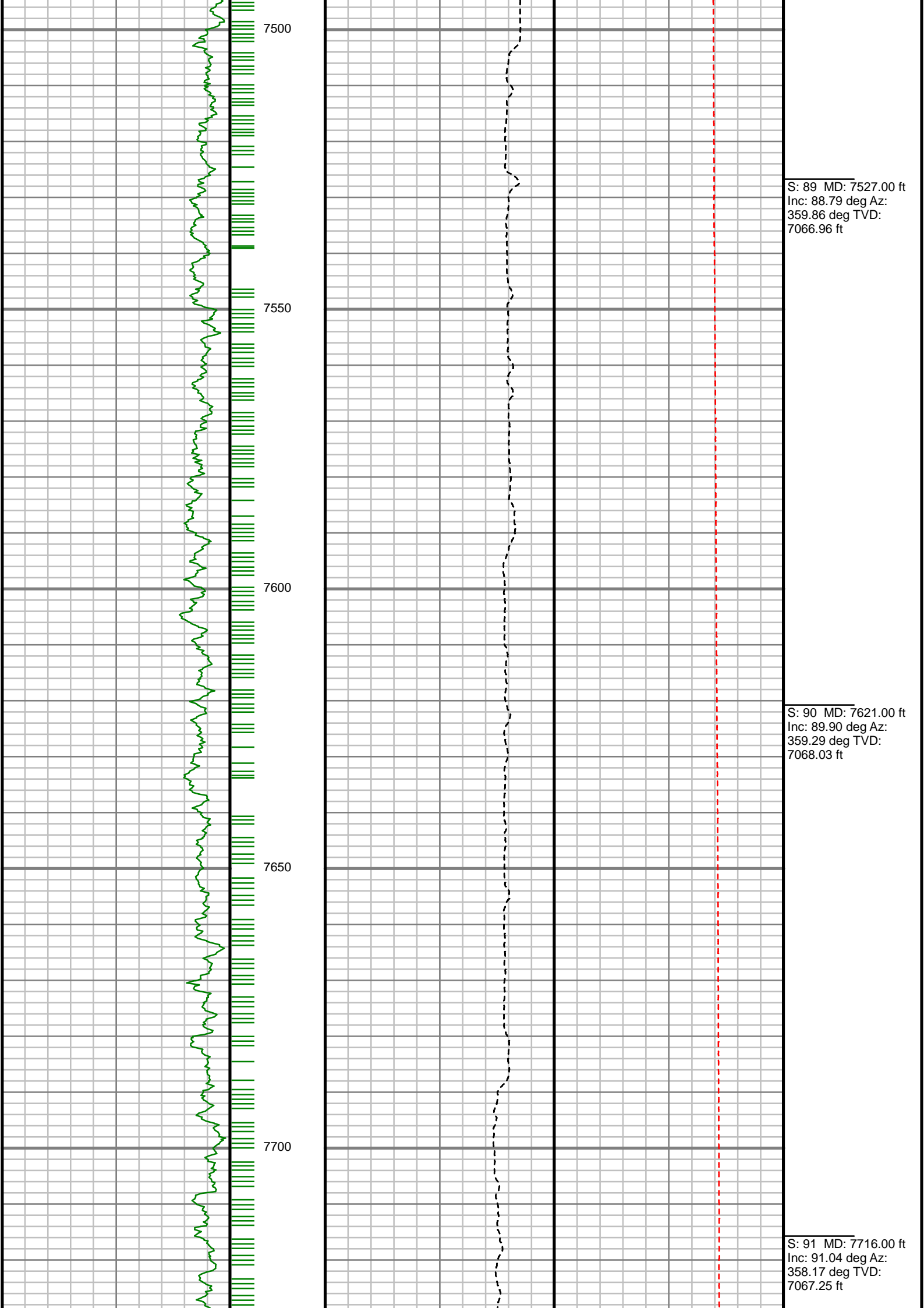
S: 85 MD: 7149.00 ft  
Inc: 57.20 deg Az:  
358.93 deg TVD:  
6960.57 ft

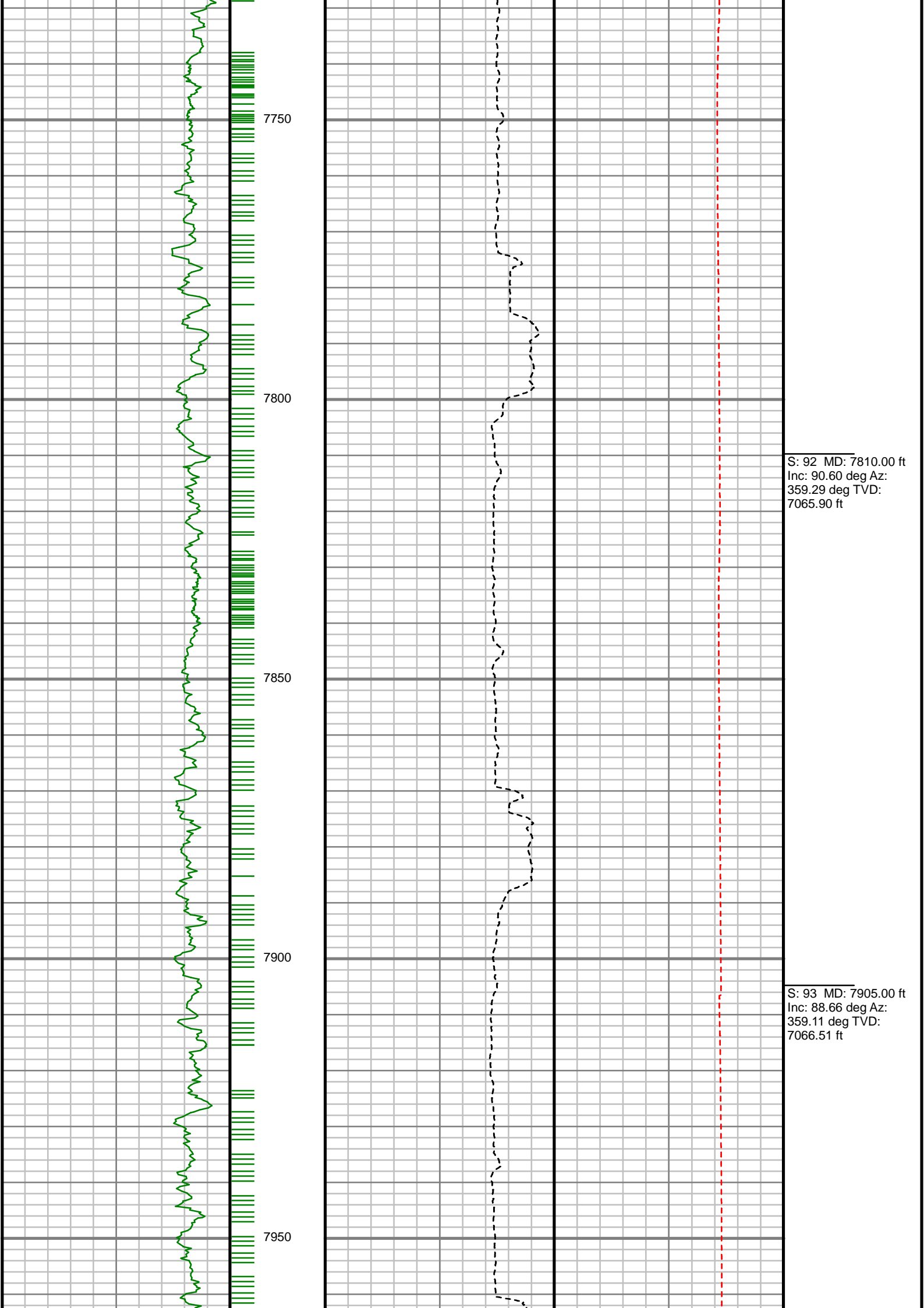
S: 86 MD: 7243.00 ft  
Inc: 65.29 deg Az: 0.61  
deg TVD: 7005.76 ft

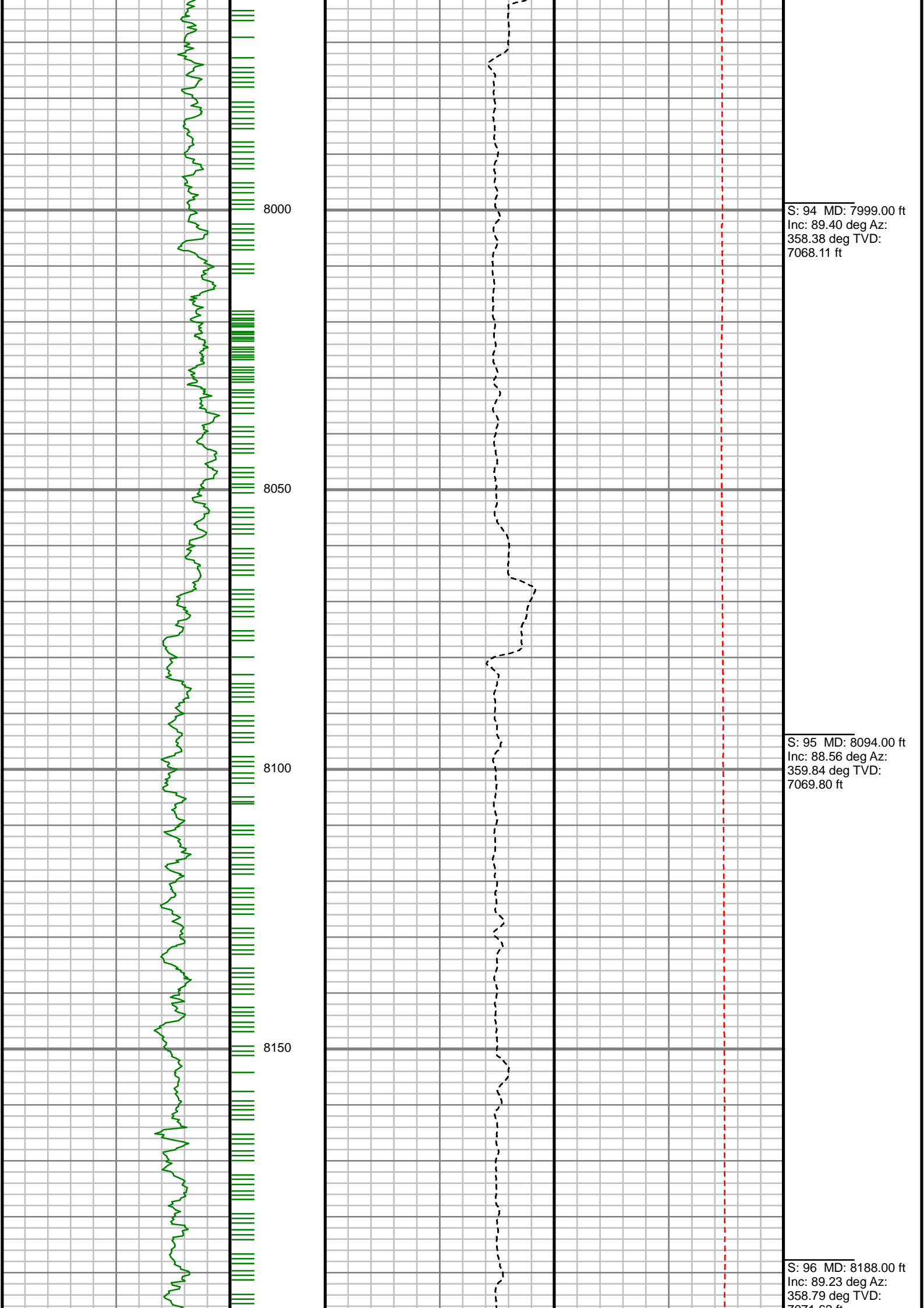


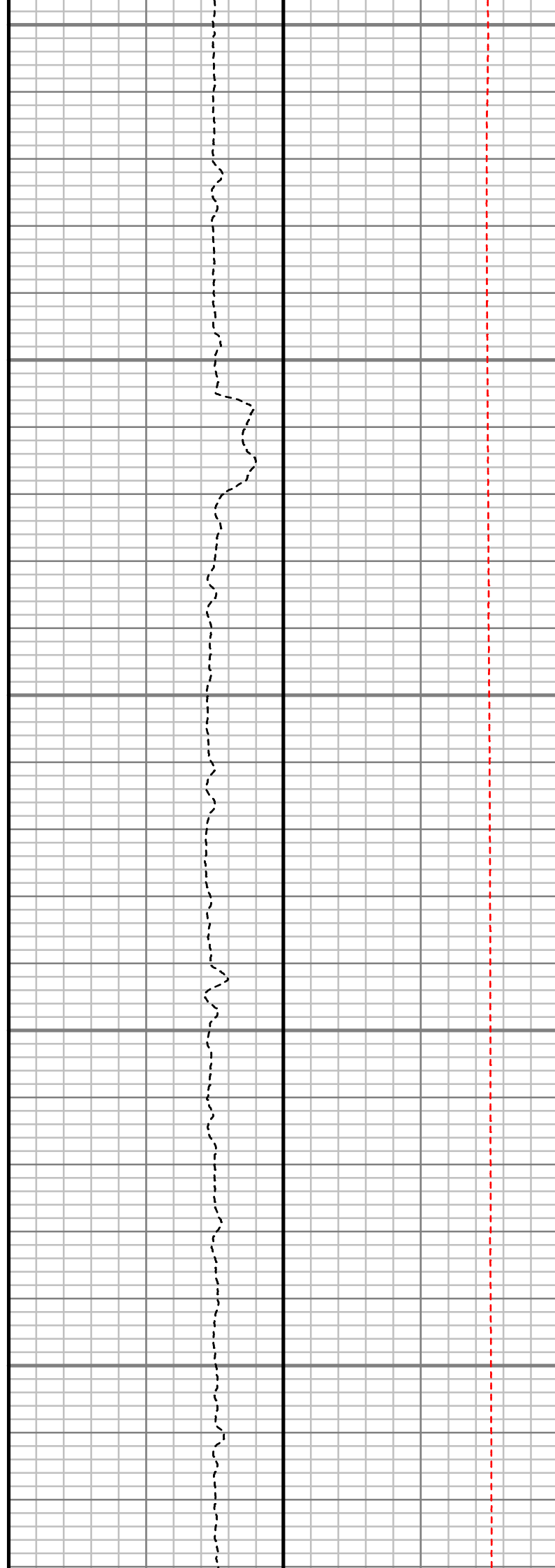
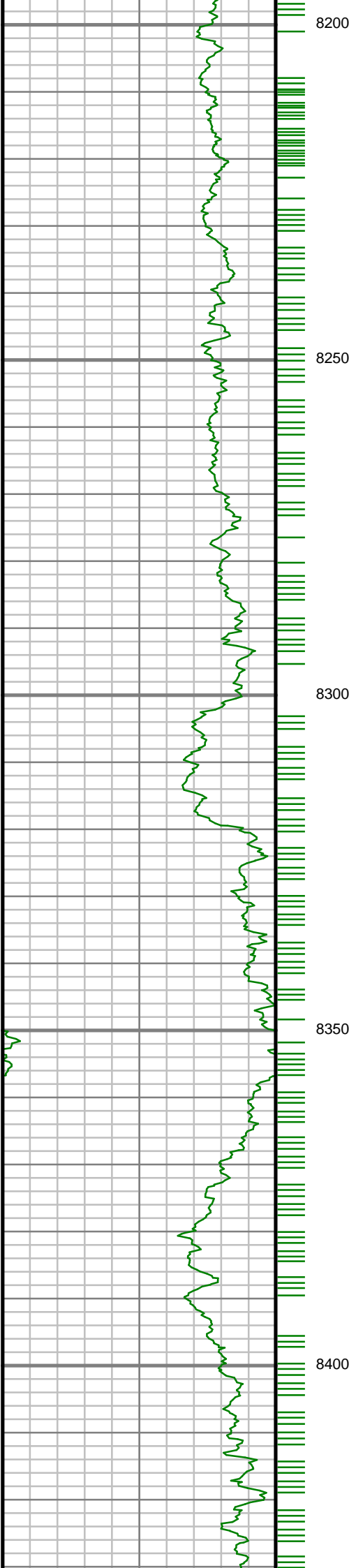
S: 87 MD: 7338.00 ft  
Inc: 74.15 deg Az: 0.27  
deg TVD: 7038.65 ft

S: 88 MD: 7432.00 ft  
Inc: 81.22 deg Az:  
359.64 deg TVD:  
7058.69 ft



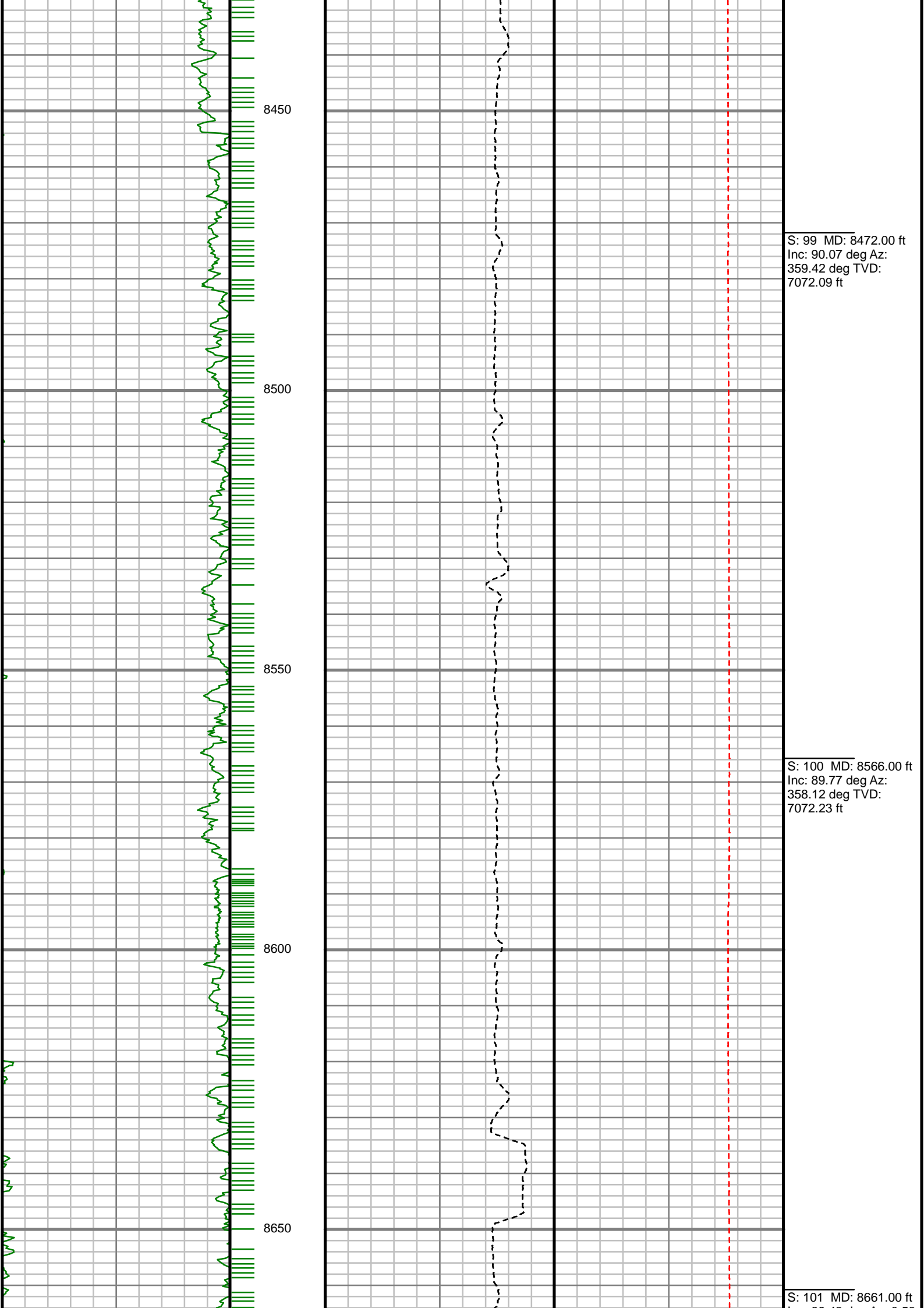




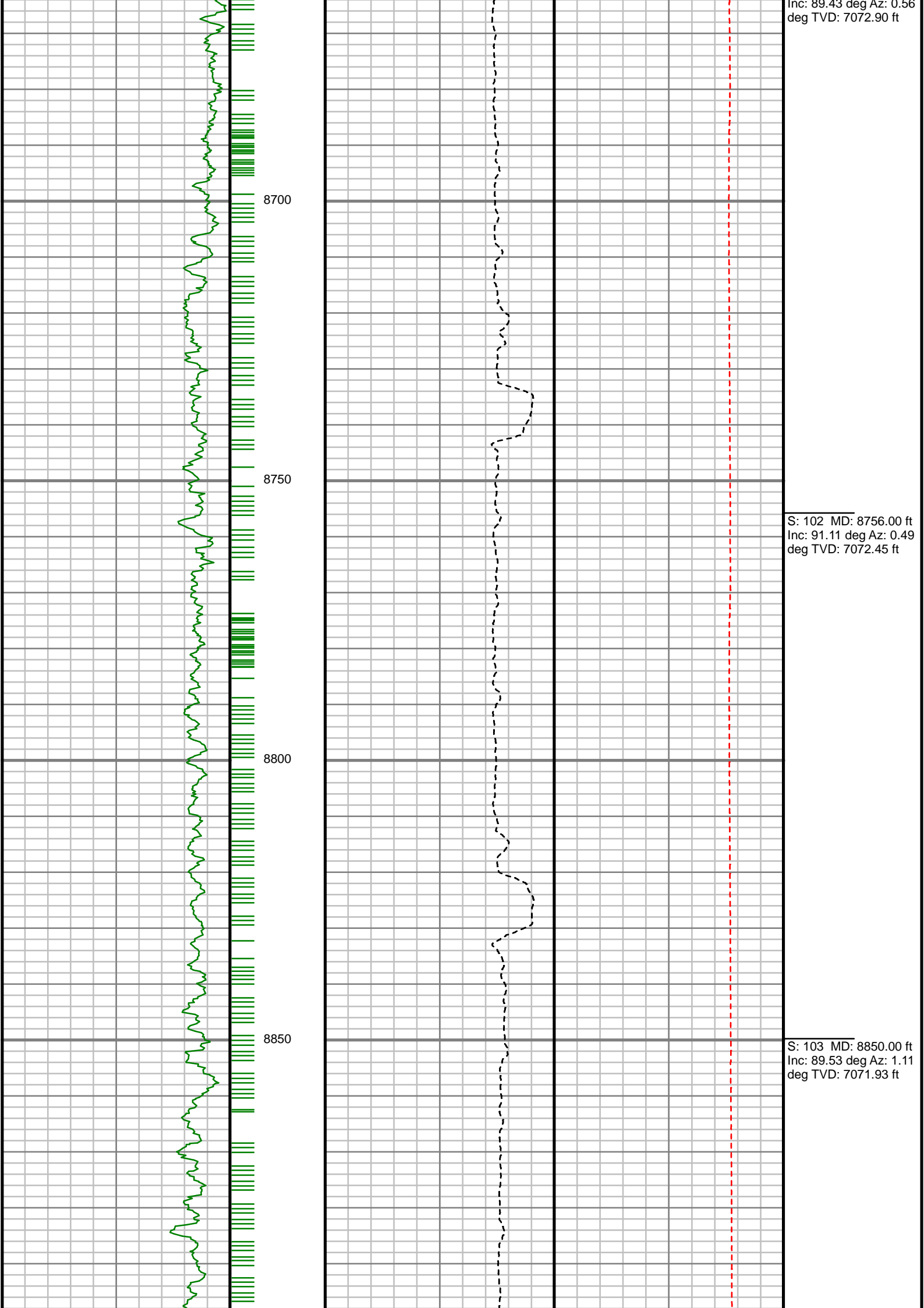


S: 97 MD: 8283.00 ft  
Inc: 89.93 deg Az: 0.58  
deg TVD: 7072.31 ft

S: 98 MD: 8377.00 ft  
Inc: 90.13 deg Az: 0.01  
deg TVD: 7072.26 ft



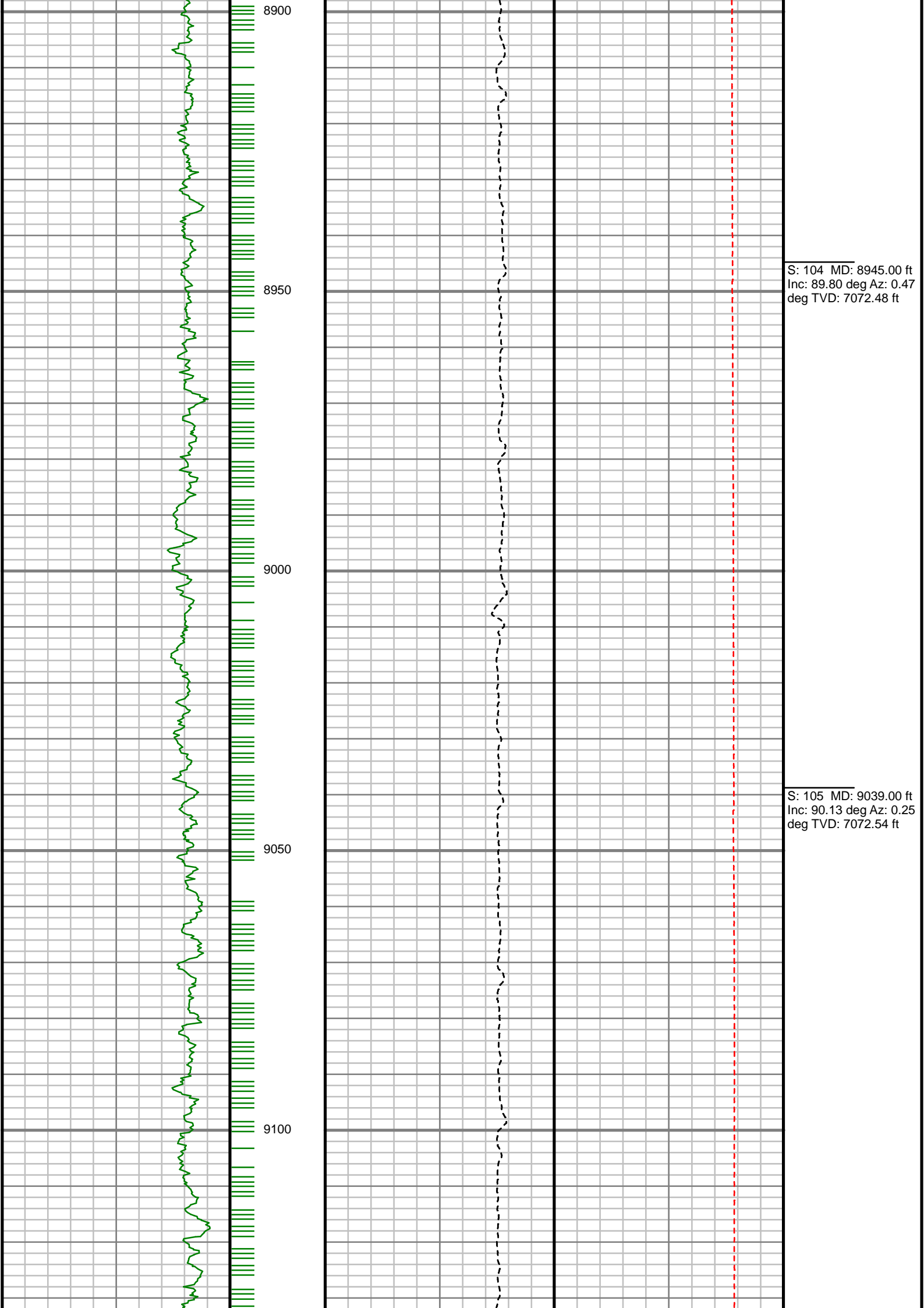


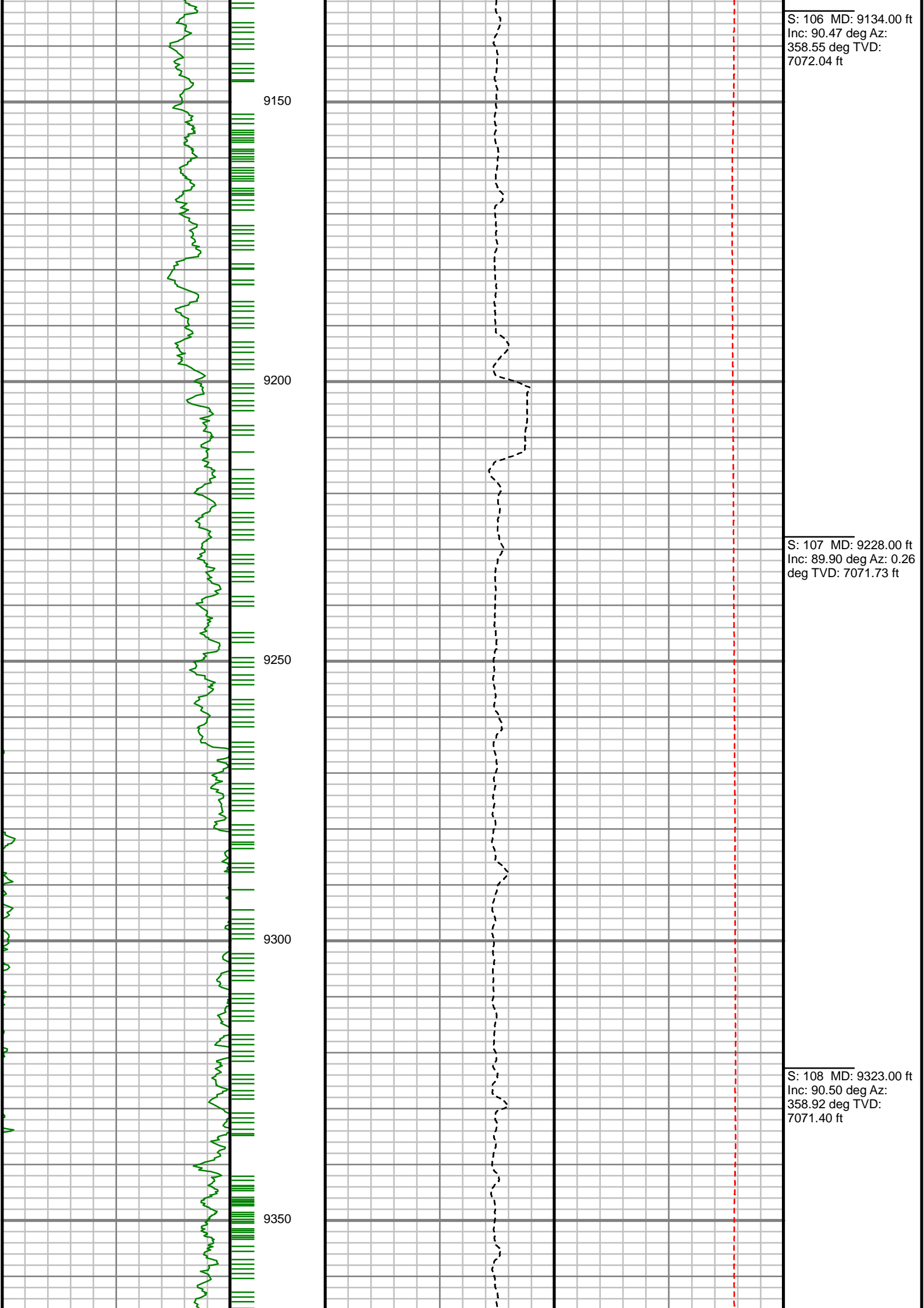


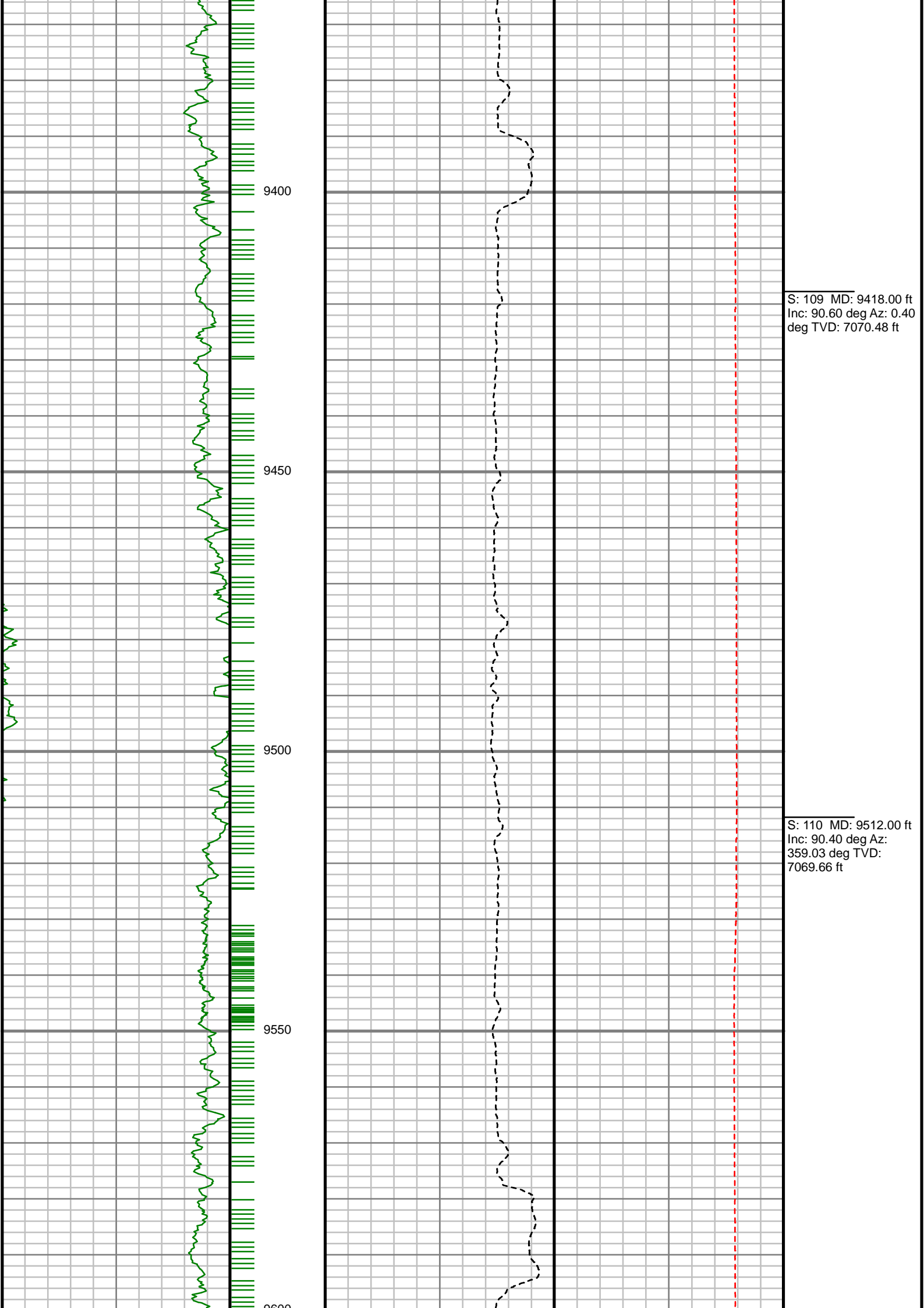
Inc: 89.43 deg Az: 0.56  
deg TVD: 7072.90 ft

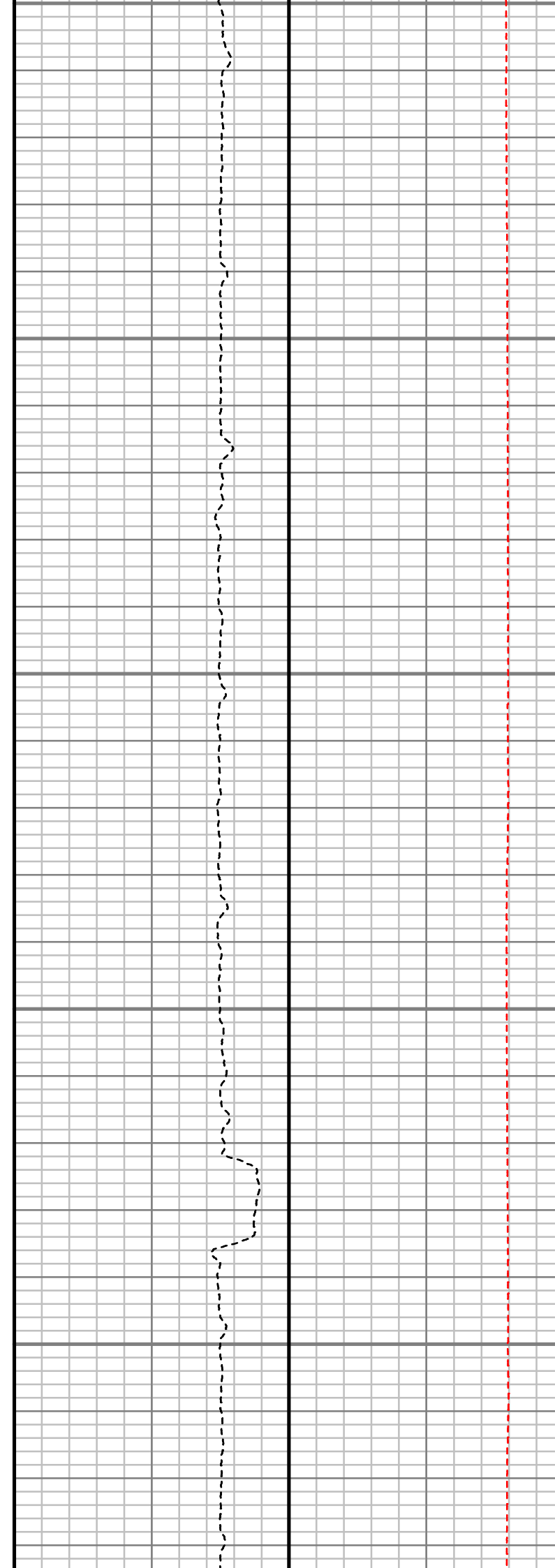
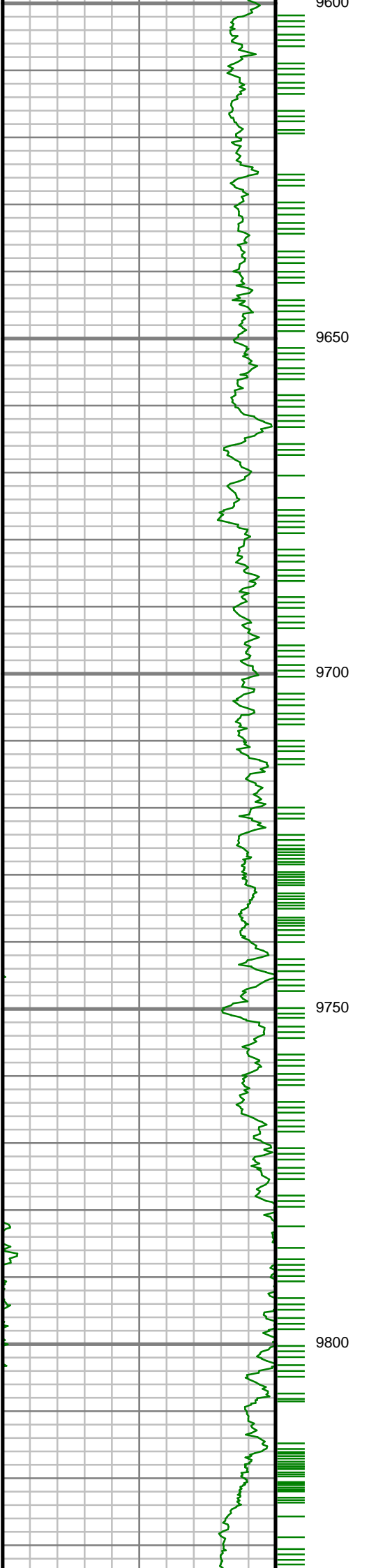
S: 102 MD: 8756.00 ft  
Inc: 91.11 deg Az: 0.49  
deg TVD: 7072.45 ft

S: 103 MD: 8850.00 ft  
Inc: 89.53 deg Az: 1.11  
deg TVD: 7071.93 ft

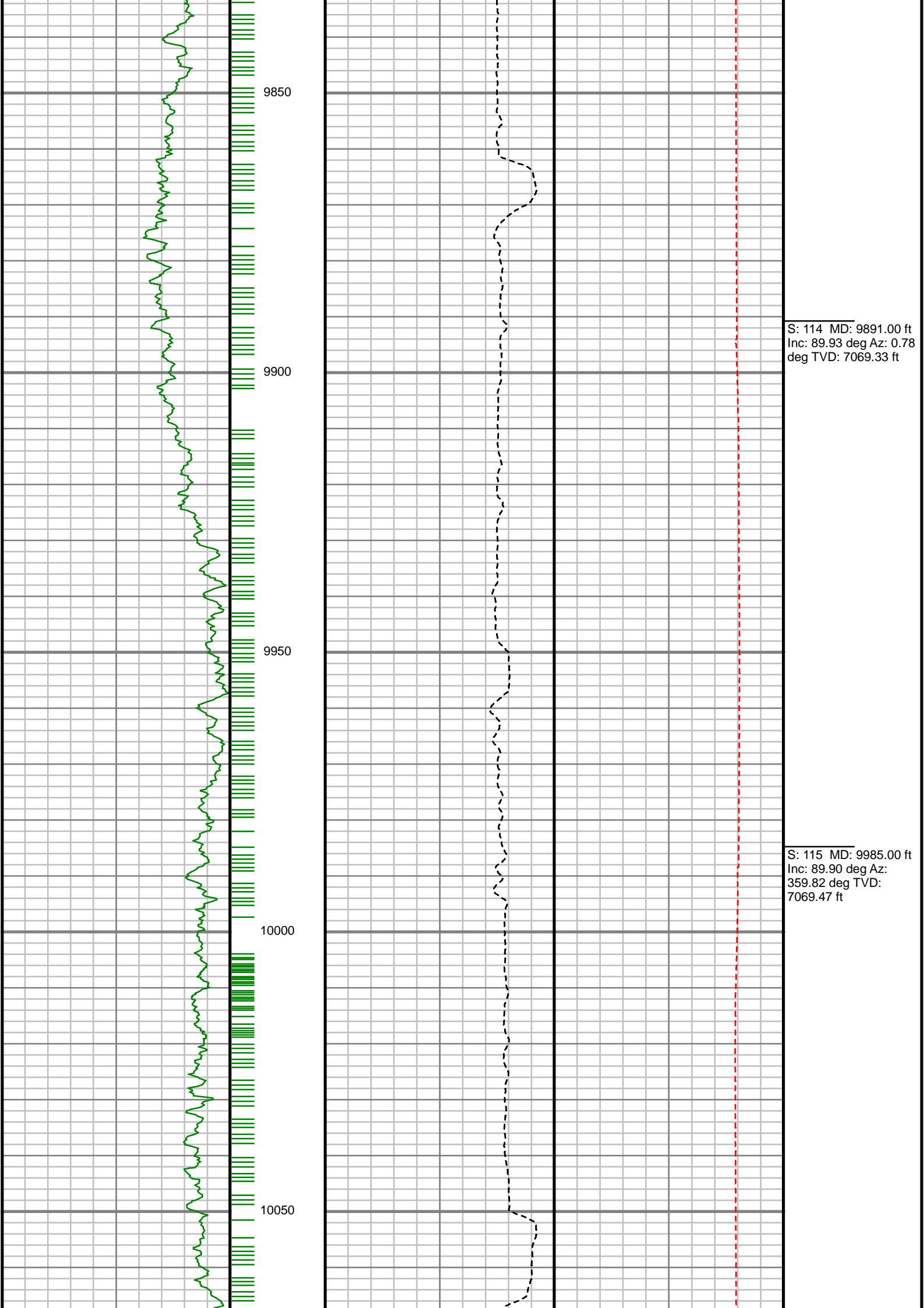






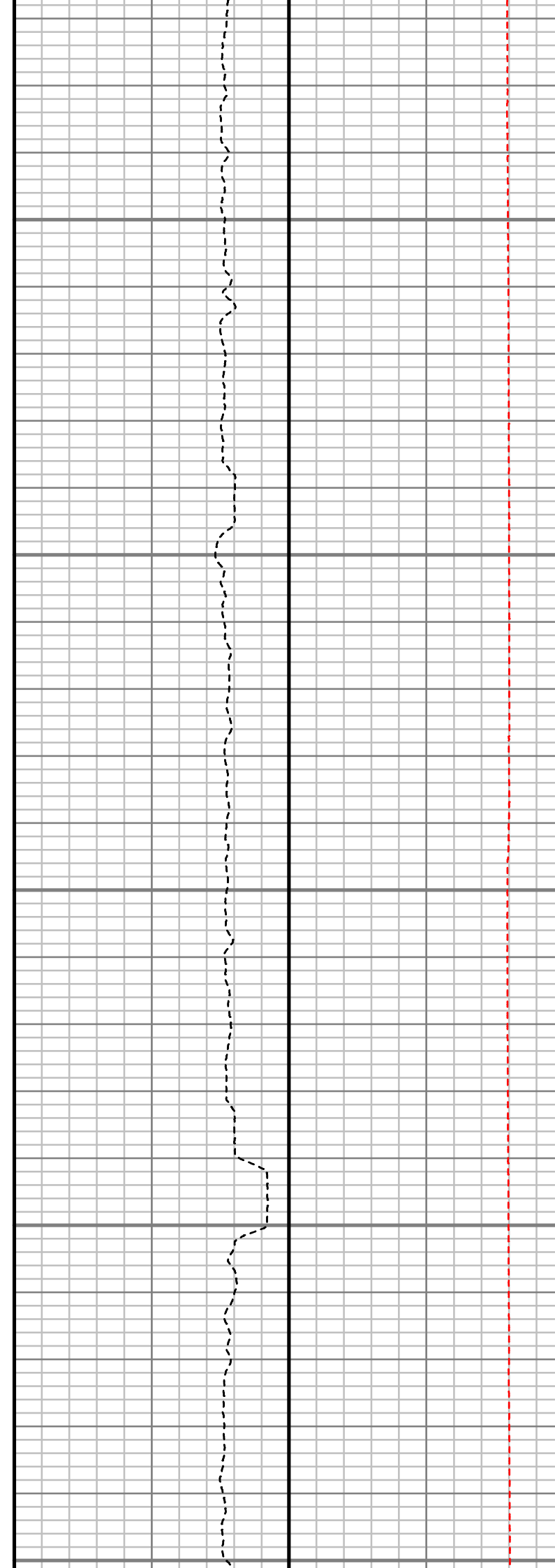
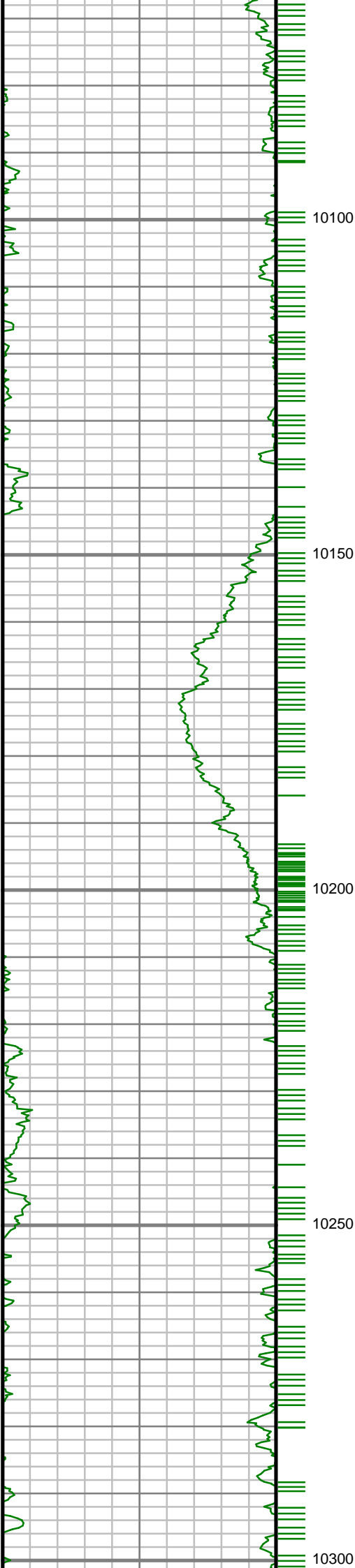


S: 111 MD: 9607.00 ft Inc: 90.54 deg Az: 1.55 deg TVD: 7068.88 ft	
S: 112 MD: 9701.00 ft Inc: 90.67 deg Az: 0.30 deg TVD: 7067.89 ft	
S: 113 MD: 9796.00 ft Inc: 88.83 deg Az: 1.23 deg TVD: 7068.31 ft	



S: 114 MD: 9891.00 ft  
Inc: 89.93 deg Az: 0.78  
deg TVD: 7069.33 ft

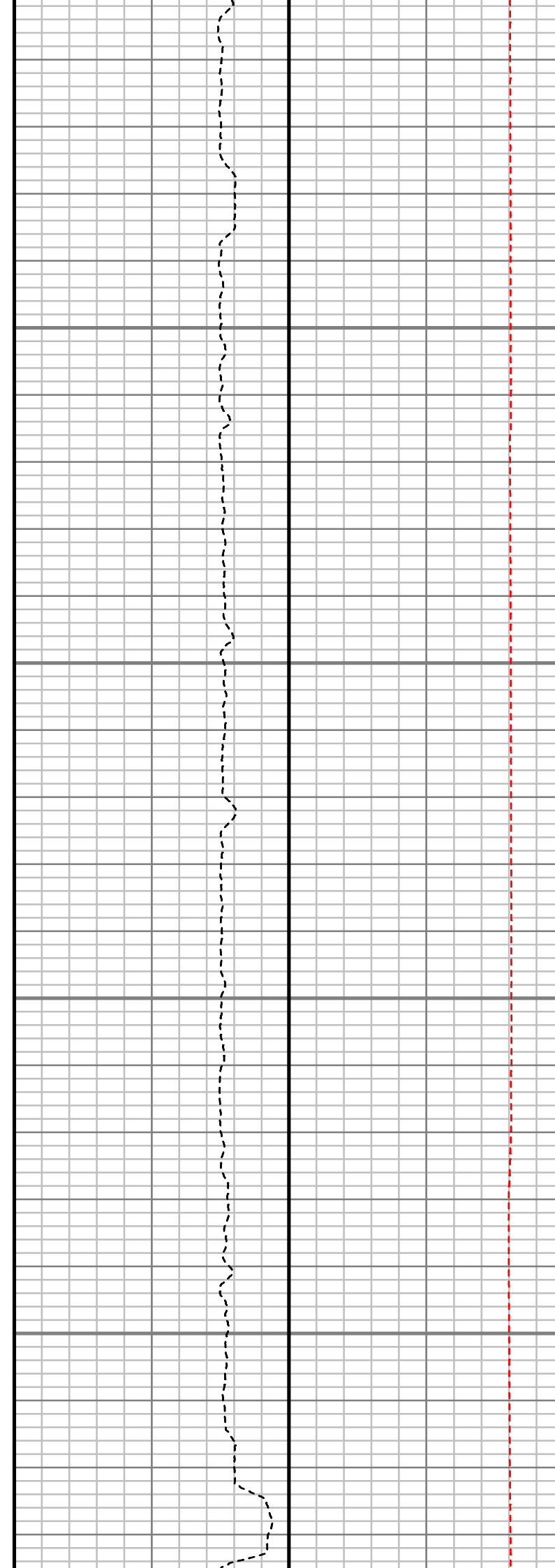
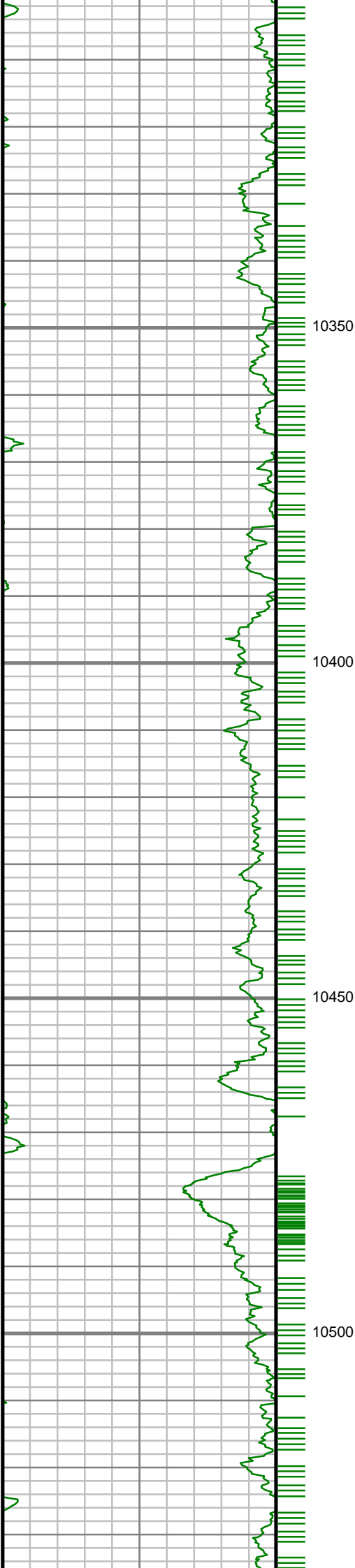
S: 115 MD: 9985.00 ft  
Inc: 89.90 deg Az:  
359.82 deg TVD:  
7069.47 ft



S: 116 MD: 10079.00 ft  
Inc: 89.26 deg Az: 2.02  
deg TVD: 7070.16 ft

S: 117 MD: 10174.00 ft  
Inc: 89.30 deg Az: 0.78  
deg TVD: 7071.35 ft

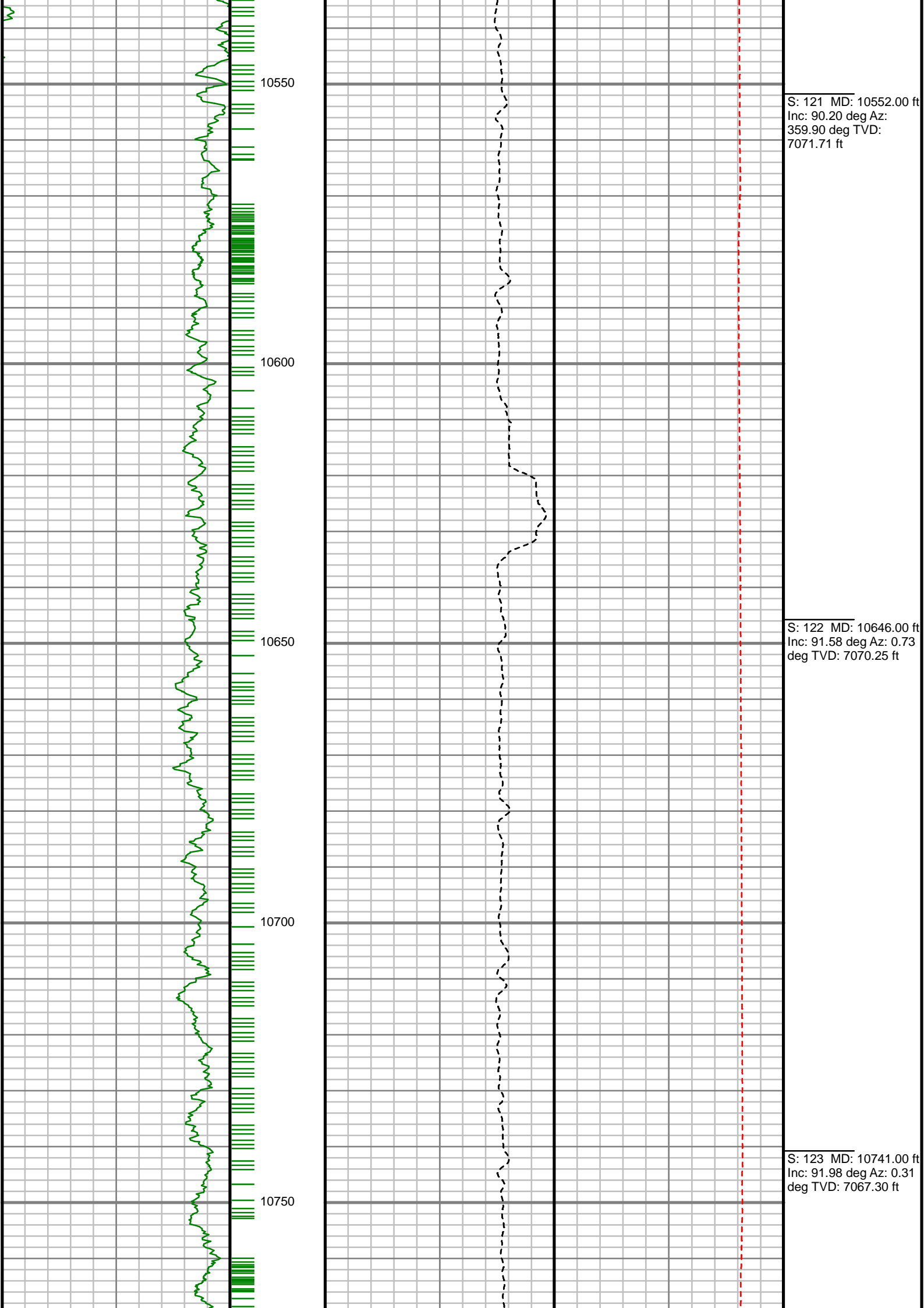
S: 118 MD: 10268.00 ft  
Inc: 90.20 deg Az: 2.34  
deg TVD: 7071.77 ft

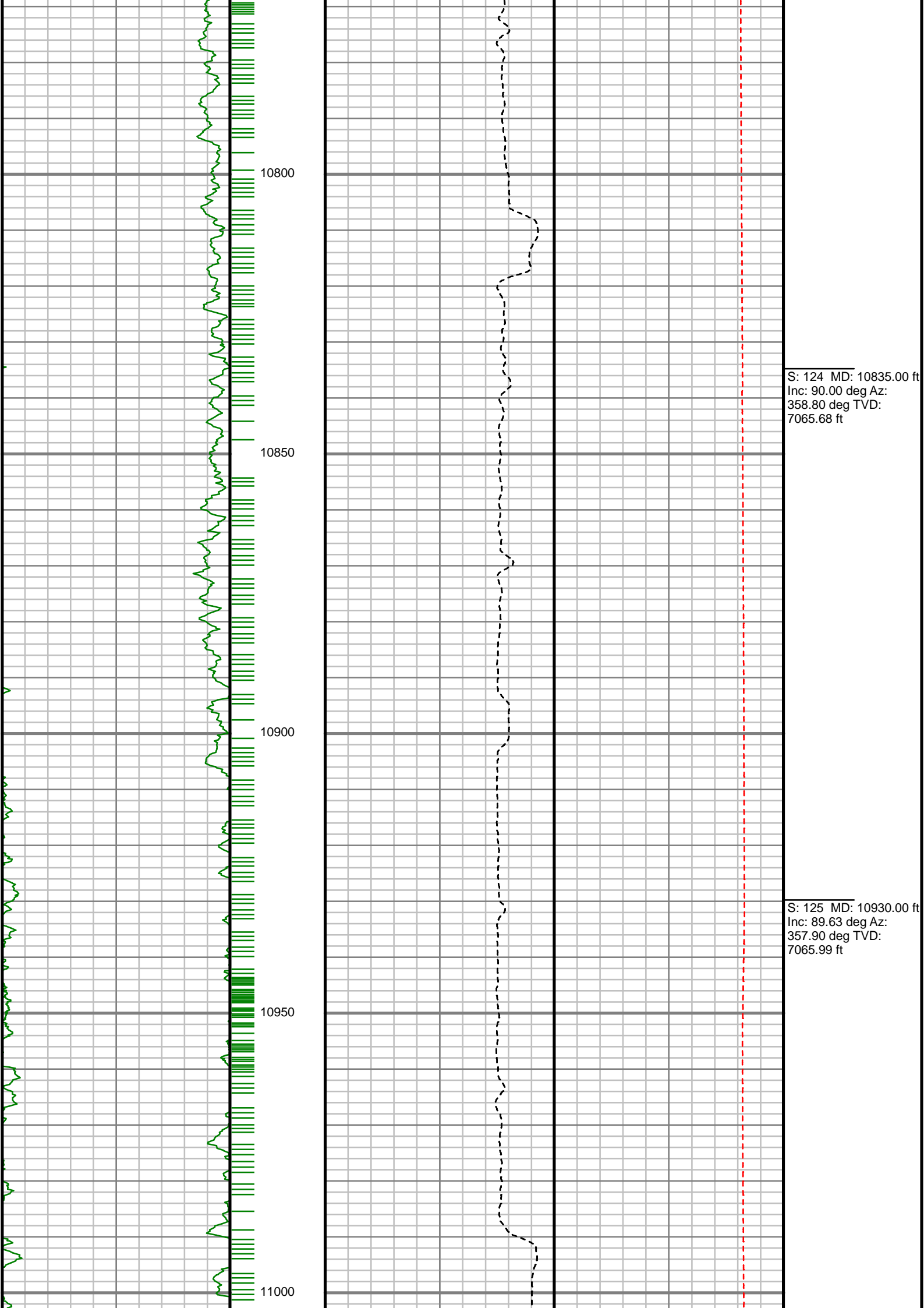


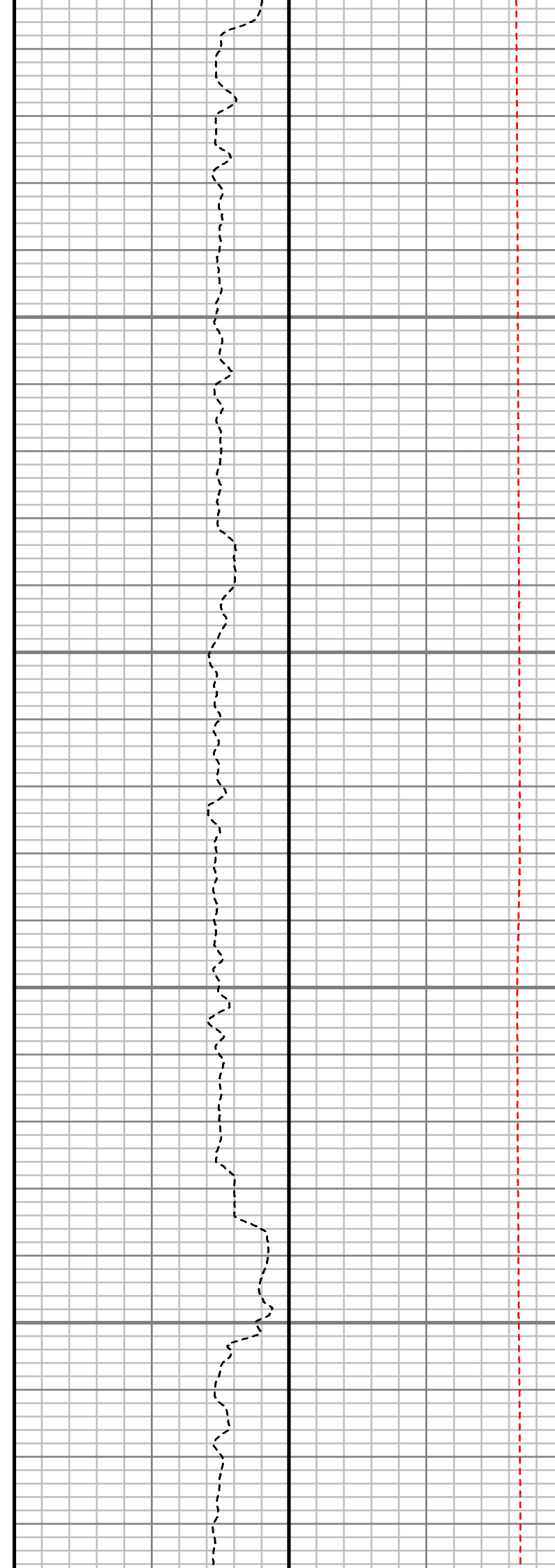
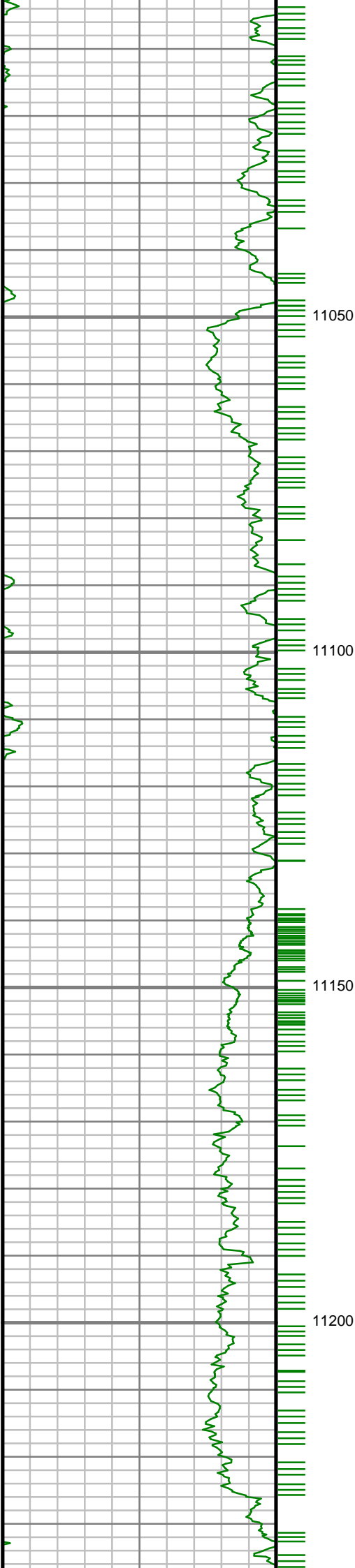
S: 119 MD: 10363.00 ft  
Inc: 90.30 deg Az: 0.93  
deg TVD: 7071.35 ft

S: 120 MD: 10457.00 ft  
Inc: 89.53 deg Az:  
359.93 deg TVD:  
7071.49 ft





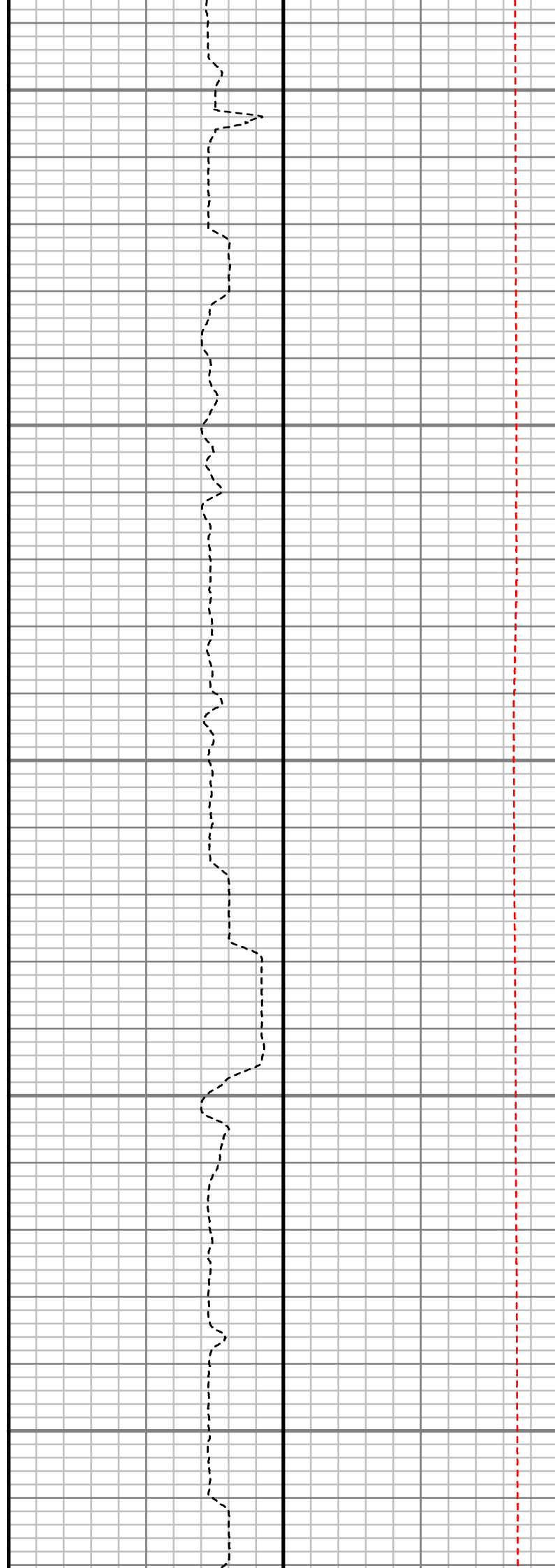
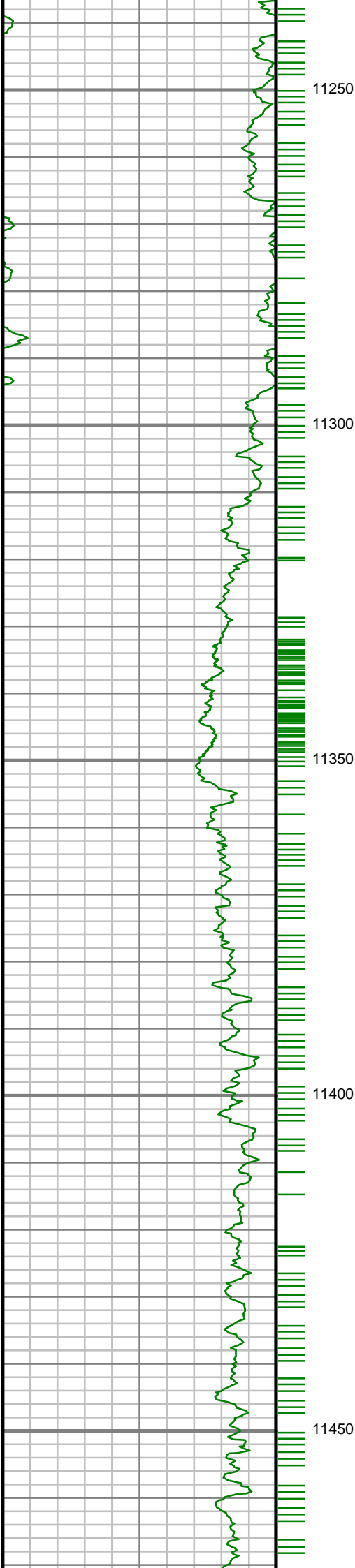




S: 126 MD: 11024.00 ft  
Inc: 89.83 deg Az:  
359.57 deg TVD:  
7066.43 ft

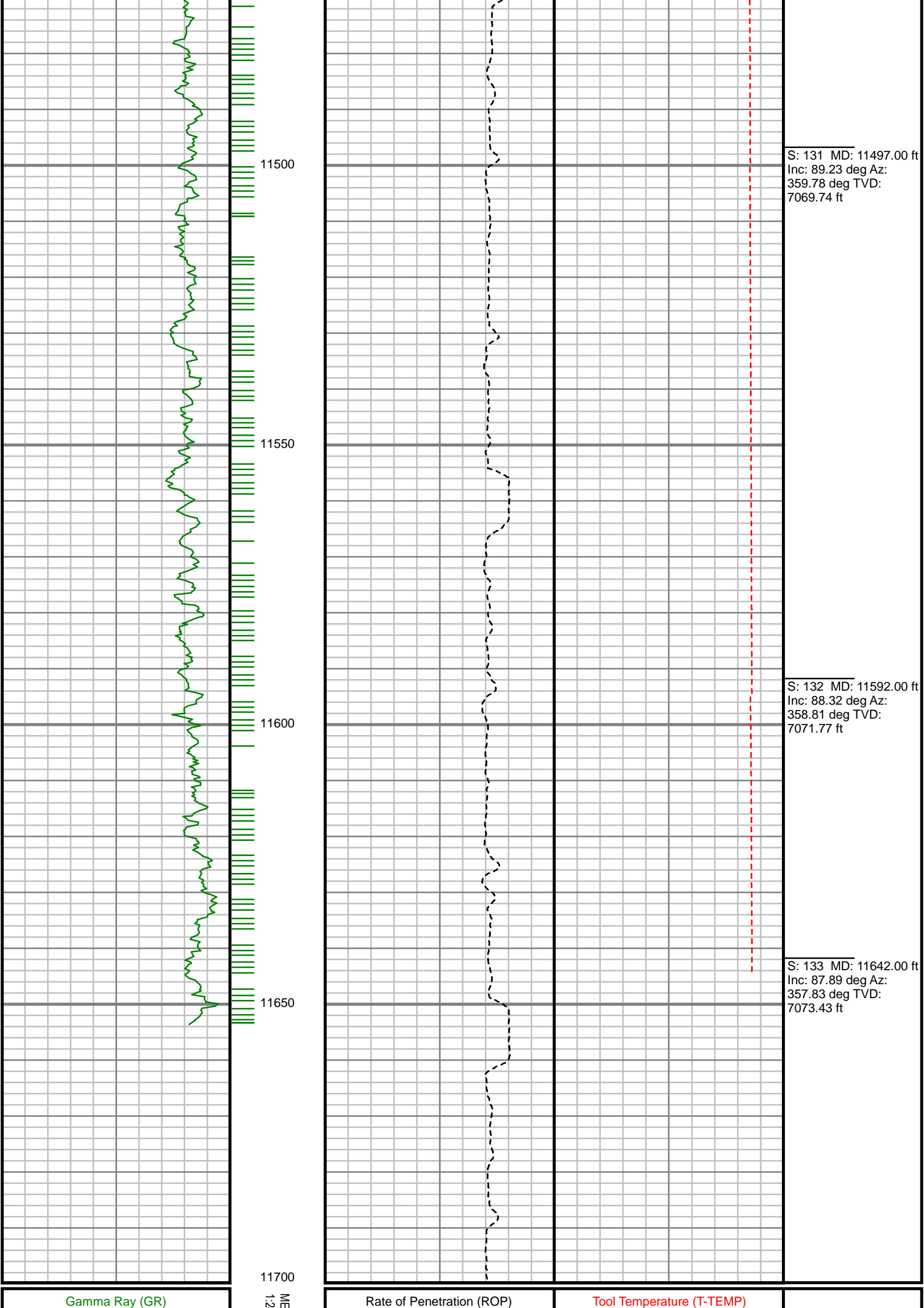
S: 127 MD: 11119.00 ft  
Inc: 89.77 deg Az:  
357.95 deg TVD:  
7066.76 ft

S: 128 MD: 11214.00 ft  
Inc: 89.73 deg Az:  
359.39 deg TVD:  
7067.18 ft



S: 129 MD: 11308.00 ft  
Inc: 89.77 deg Az:  
358.26 deg TVD:  
7067.59 ft

S: 130 MD: 11403.00 ft  
Inc: 89.20 deg Az: 0.08  
deg TVD: 7068.45 ft




0	Unit = aapi	150
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ASURED DEPTH  
40 (ft)

1000	Unit = ft/hr	0
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0	Unit = °F	250
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Comments
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Scientific Drilling

5" = 100' FEET MD

GAMMA RAY