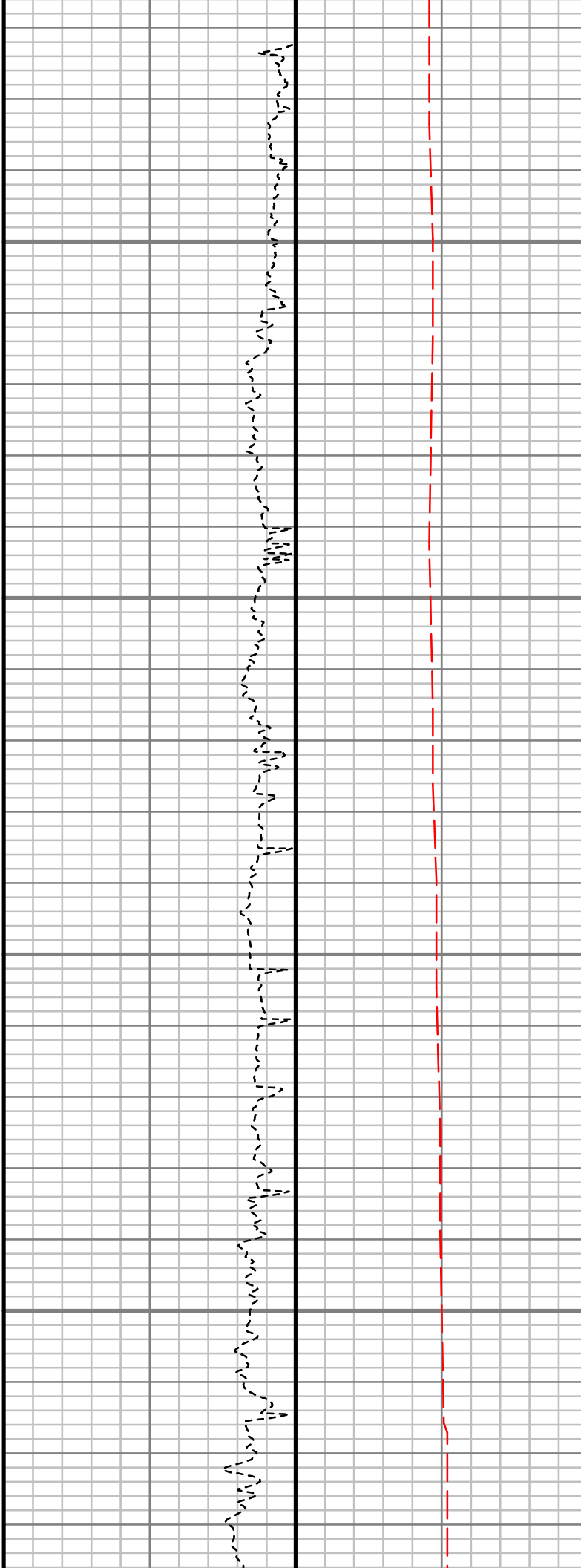
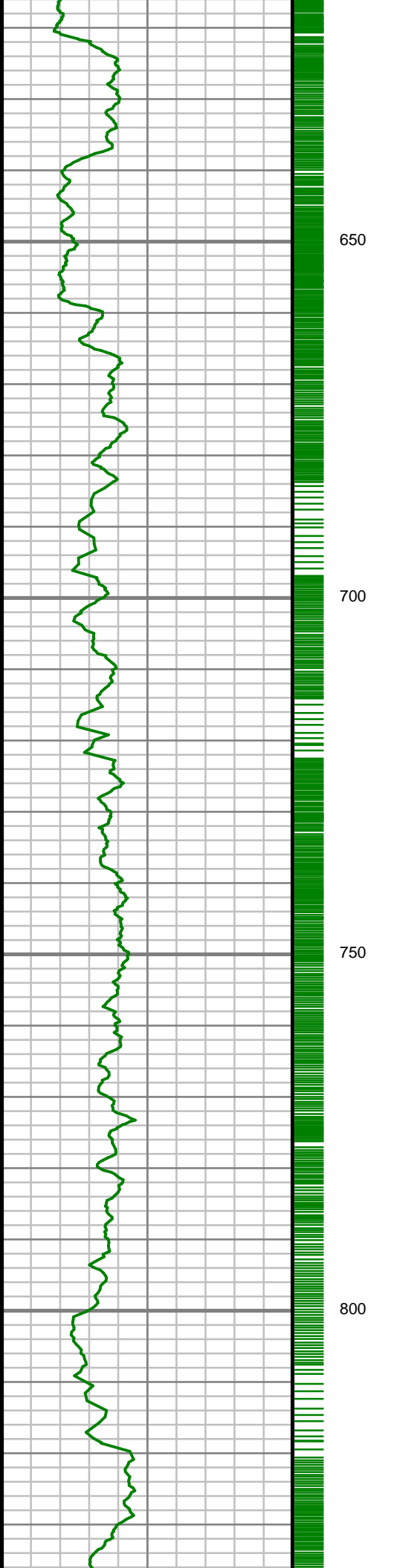


[illegible]

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.

FIELD COPY					
<div>Gamma Ray (GR)</div> <div>0 Unit = aapi 150</div>		MEASURED DEPTH	<div>Rate of Penetration (ROP)</div> <div>1000 Unit = ft/hr 0</div>	<div>Tool Temperature (T-TEMP)</div> <div>0 Unit = °F 200</div>	Comments
		<div>1:240 (ft)</div> <div>550</div> <div>600</div>			<div>T MD: 601.16 ft Inc:</div> <div>2.18 deg Az: 201.63</div> <div>deg TVD: 601.02 ft</div>



S: 1 MD: 661.00 ft Inc:
2.50 deg Az: 203.22
deg TVD: 660.81 ft

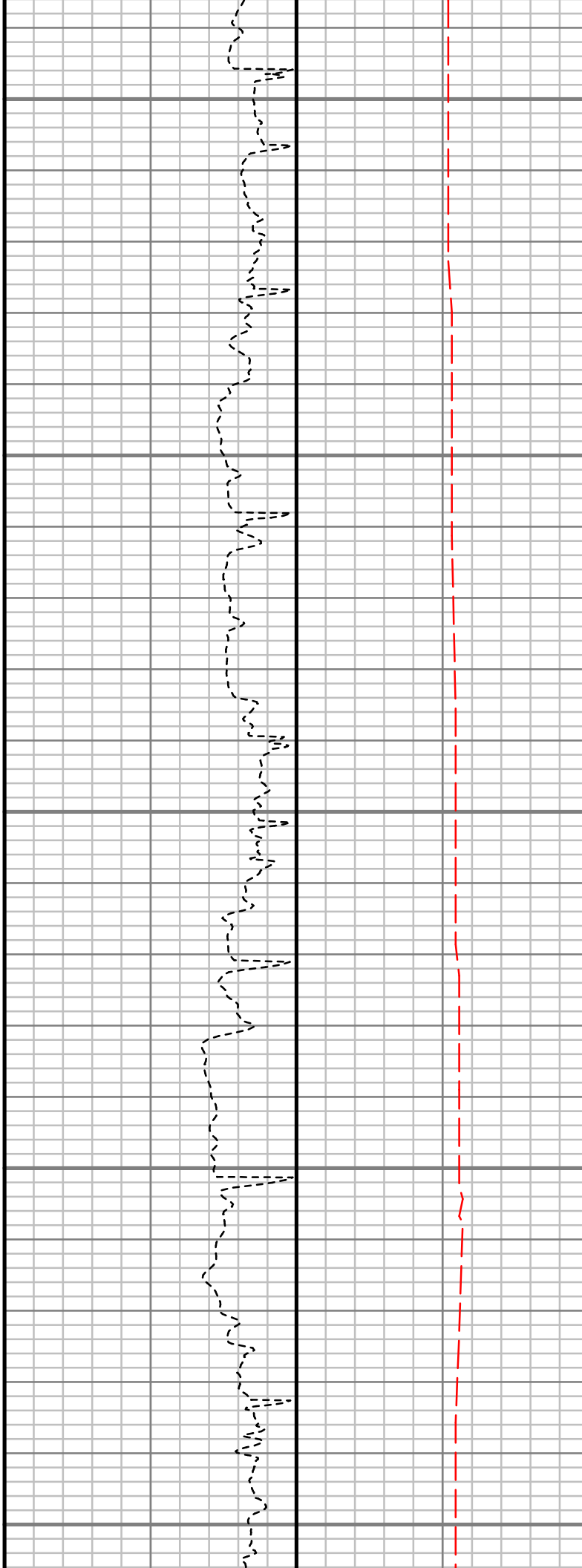
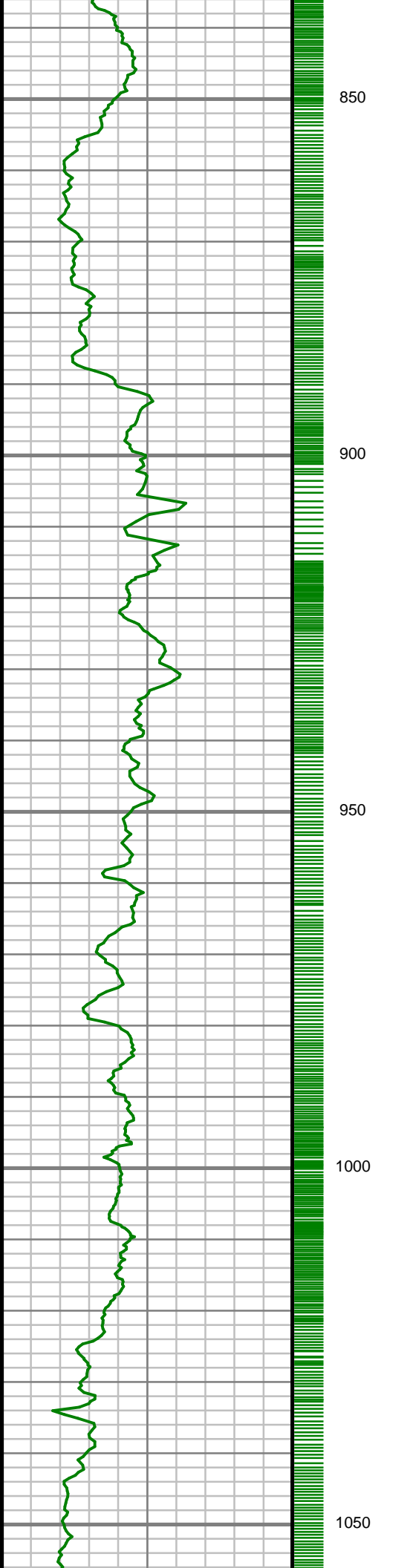
S: 2 MD: 693.00 ft Inc:
2.14 deg Az: 205.14
deg TVD: 692.78 ft

S: 3 MD: 724.00 ft Inc:
1.77 deg Az: 203.63
deg TVD: 723.77 ft

S: 4 MD: 755.00 ft Inc:
1.56 deg Az: 212.65
deg TVD: 754.75 ft

S: 5 MD: 786.00 ft Inc:
1.37 deg Az: 229.82
deg TVD: 785.74 ft

S: 6 MD: 817.00 ft Inc:
0.98 deg Az: 231.03
deg TVD: 816.74 ft



S: 7 MD: 848.00 ft Inc:
0.81 deg Az: 263.54
deg TVD: 847.73 ft

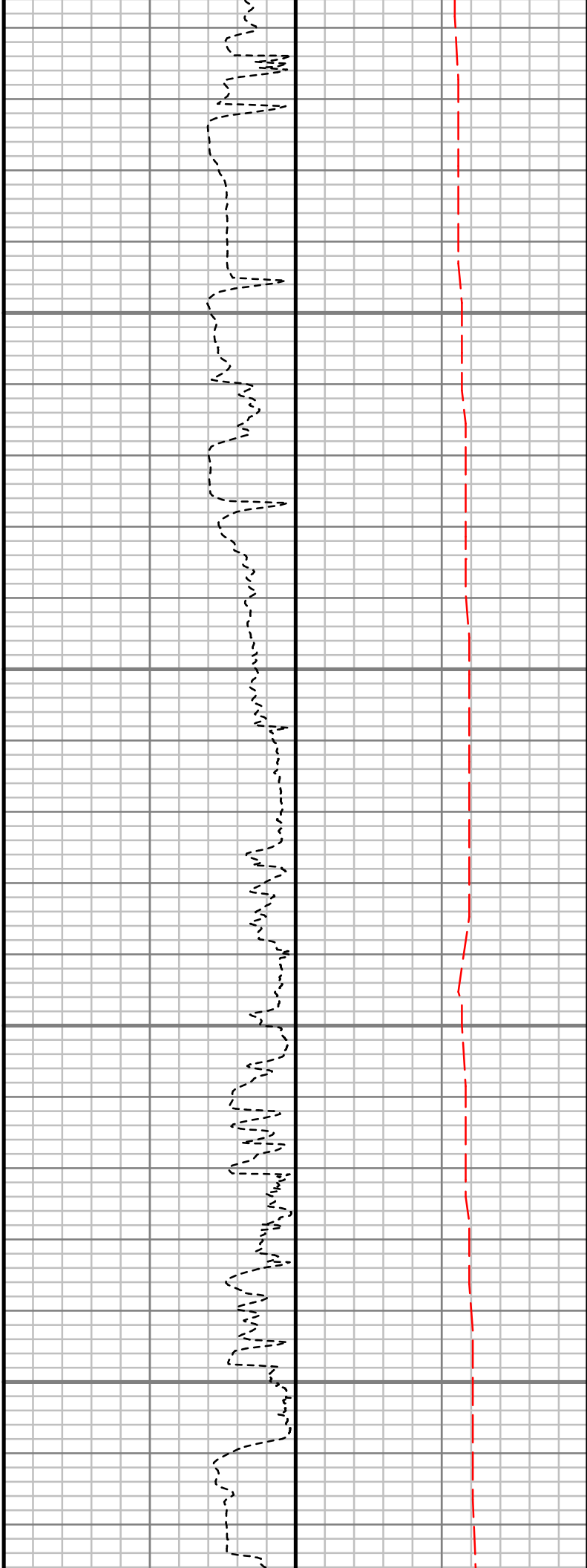
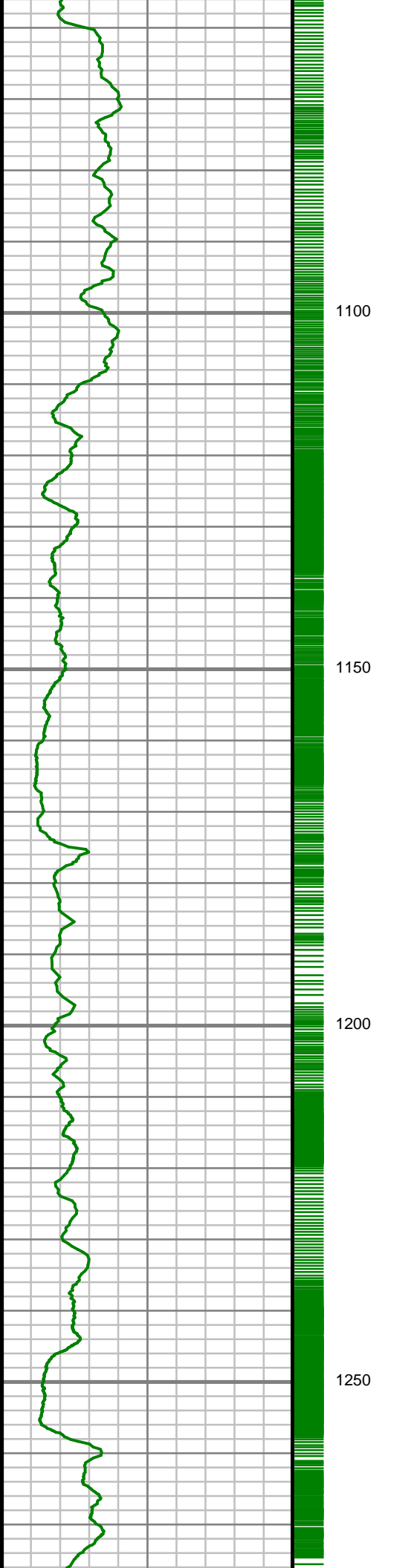
S: 8 MD: 879.00 ft Inc:
0.86 deg Az: 268.27
deg TVD: 878.73 ft

S: 9 MD: 911.00 ft Inc:
0.55 deg Az: 303.15
deg TVD: 910.73 ft

S: 10 MD: 973.00 ft
Inc: 0.89 deg Az:
357.89 deg TVD:
972.72 ft

S: 11 MD: 1004.00 ft
Inc: 1.05 deg Az: 2.15
deg TVD: 1003.72 ft

S: 12 MD: 1035.00 ft
Inc: 1.39 deg Az:
352.18 deg TVD:
1034.71 ft

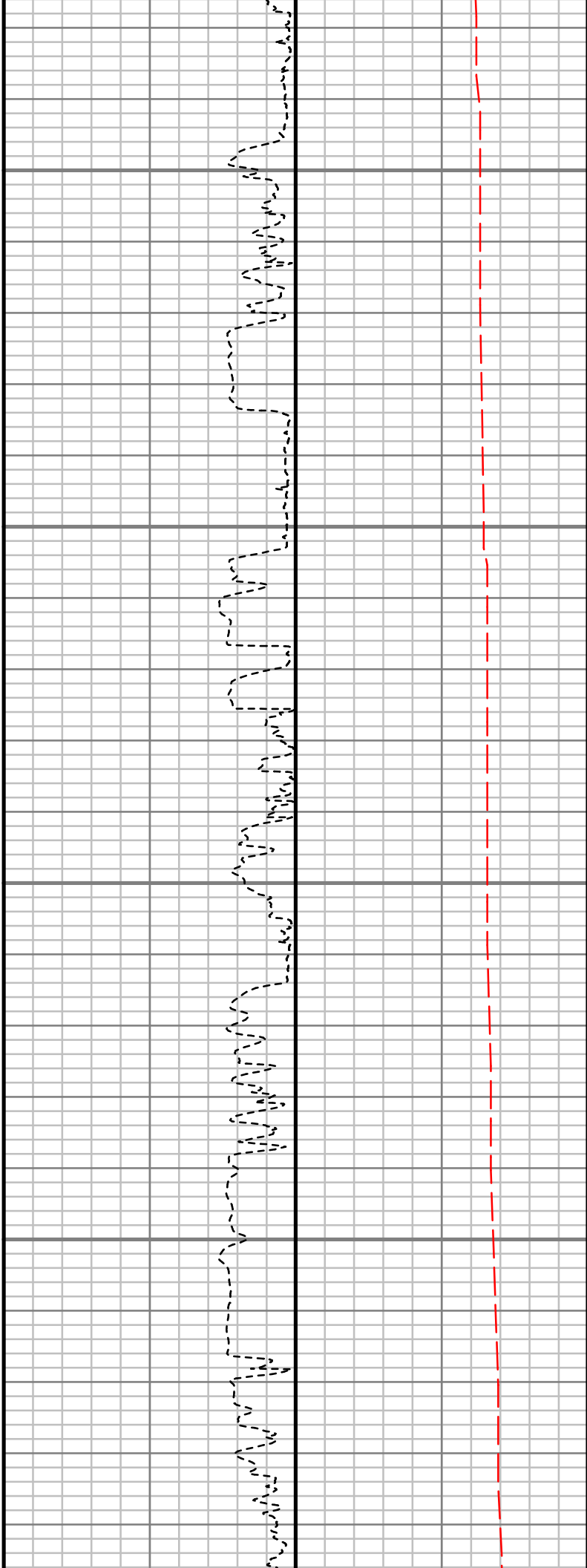
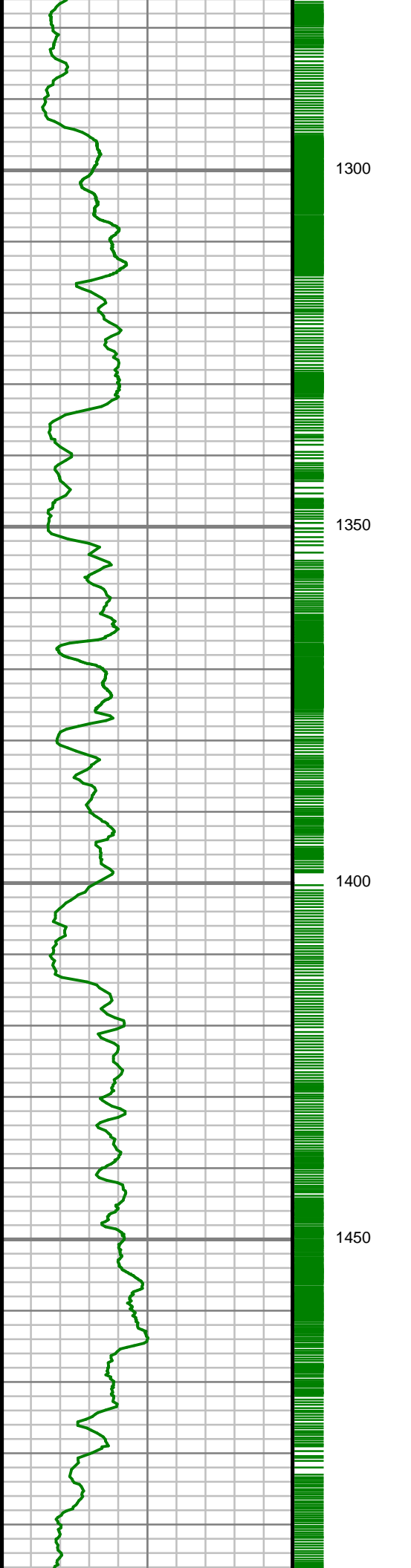


S: 13 MD: 1066.00 ft
Inc: 1.56 deg Az:
351.85 deg TVD:
1065.70 ft

S: 14 MD: 1098.00 ft
Inc: 1.75 deg Az:
353.85 deg TVD:
1097.69 ft

S: 15 MD: 1129.00 ft
Inc: 1.76 deg Az: 1.30
deg TVD: 1128.67 ft

S: 16 MD: 1222.00 ft
Inc: 2.11 deg Az: 2.23
deg TVD: 1221.62 ft



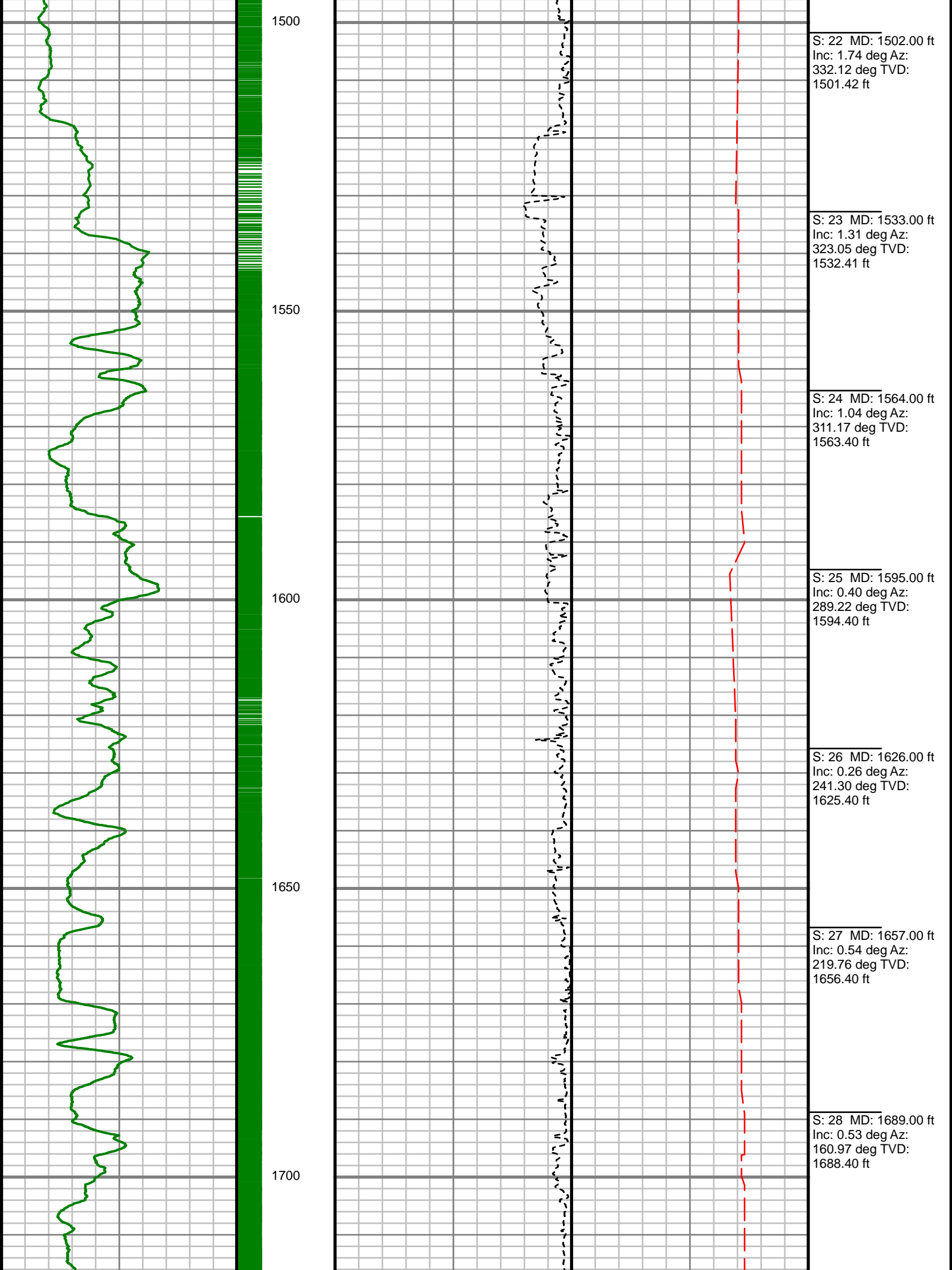
S: 17 MD: 1316.00 ft
Inc: 2.51 deg Az:
359.89 deg TVD:
1315.54 ft

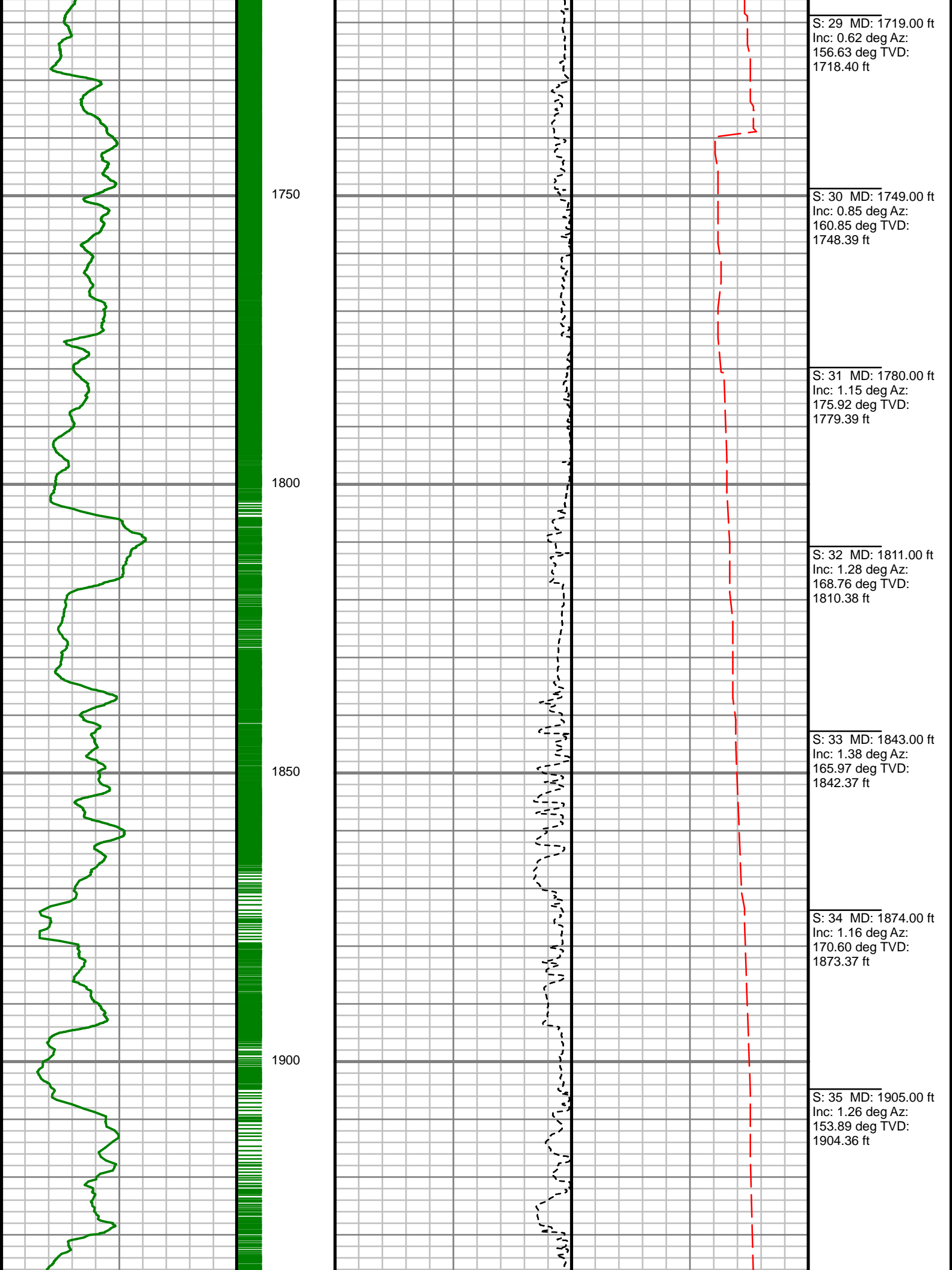
S: 18 MD: 1377.00 ft
Inc: 2.35 deg Az:
355.30 deg TVD:
1376.49 ft

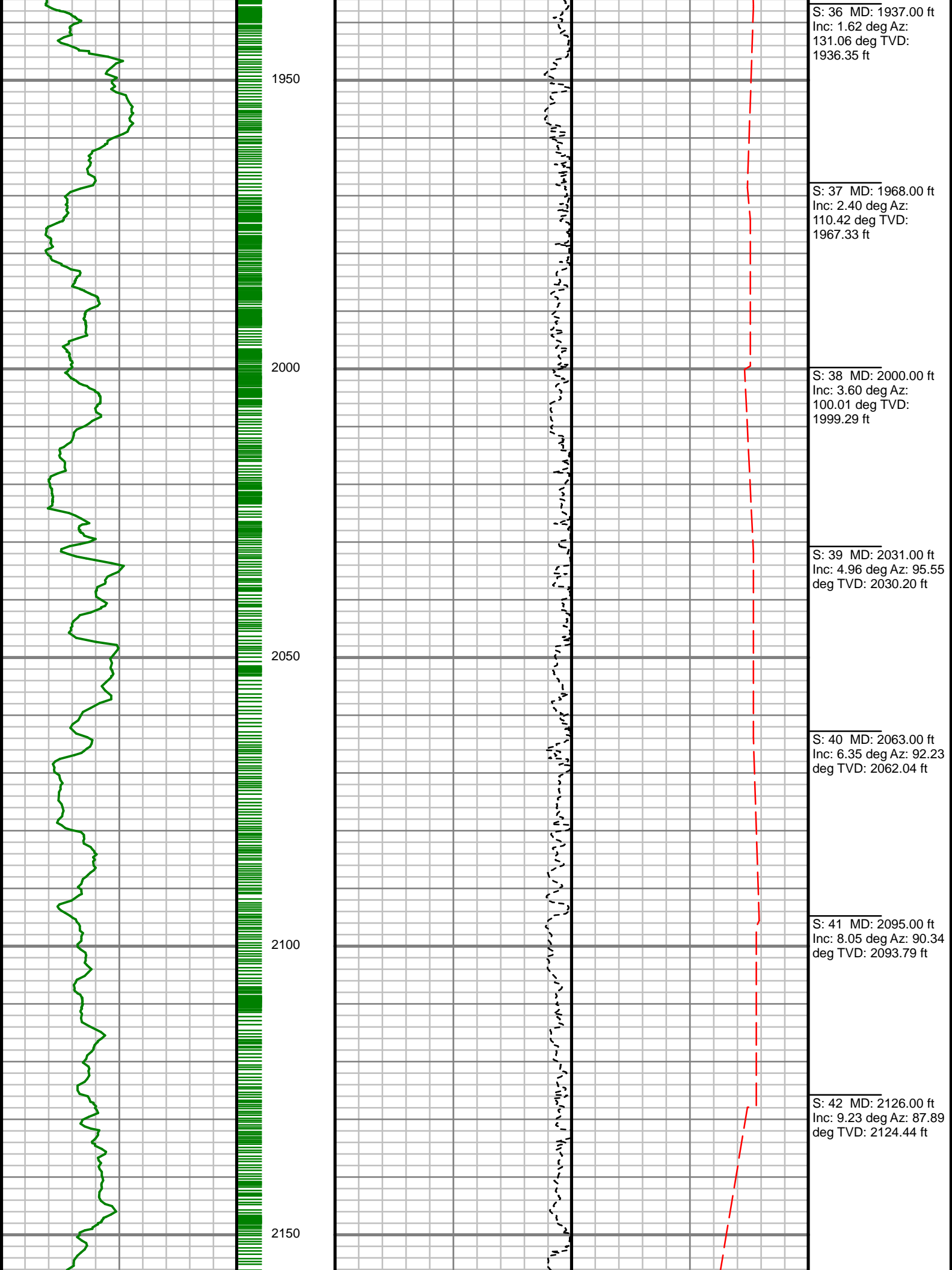
S: 19 MD: 1408.00 ft
Inc: 1.85 deg Az:
345.01 deg TVD:
1407.47 ft

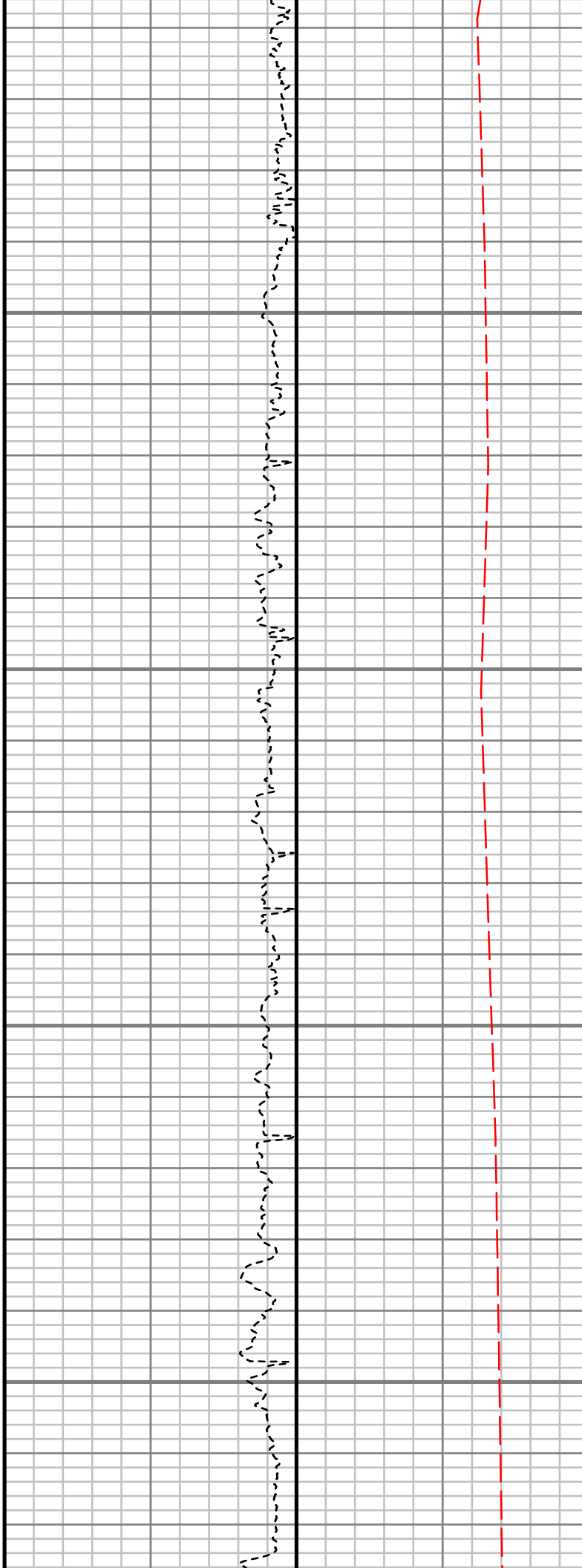
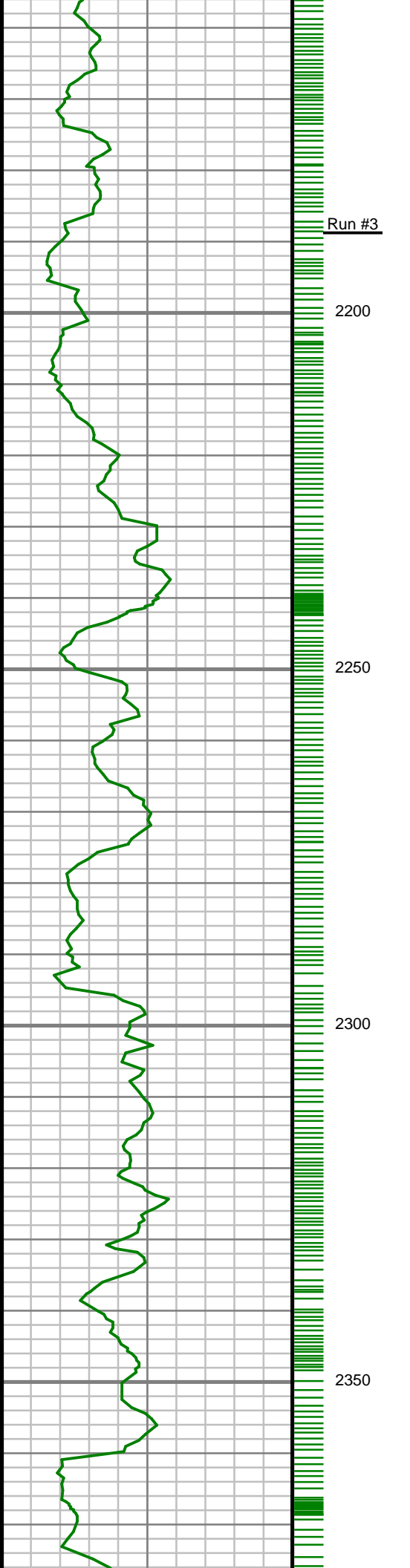
S: 20 MD: 1439.00 ft
Inc: 2.04 deg Az:
350.65 deg TVD:
1438.45 ft

S: 21 MD: 1470.00 ft
Inc: 1.61 deg Az:
345.30 deg TVD:
1469.43 ft

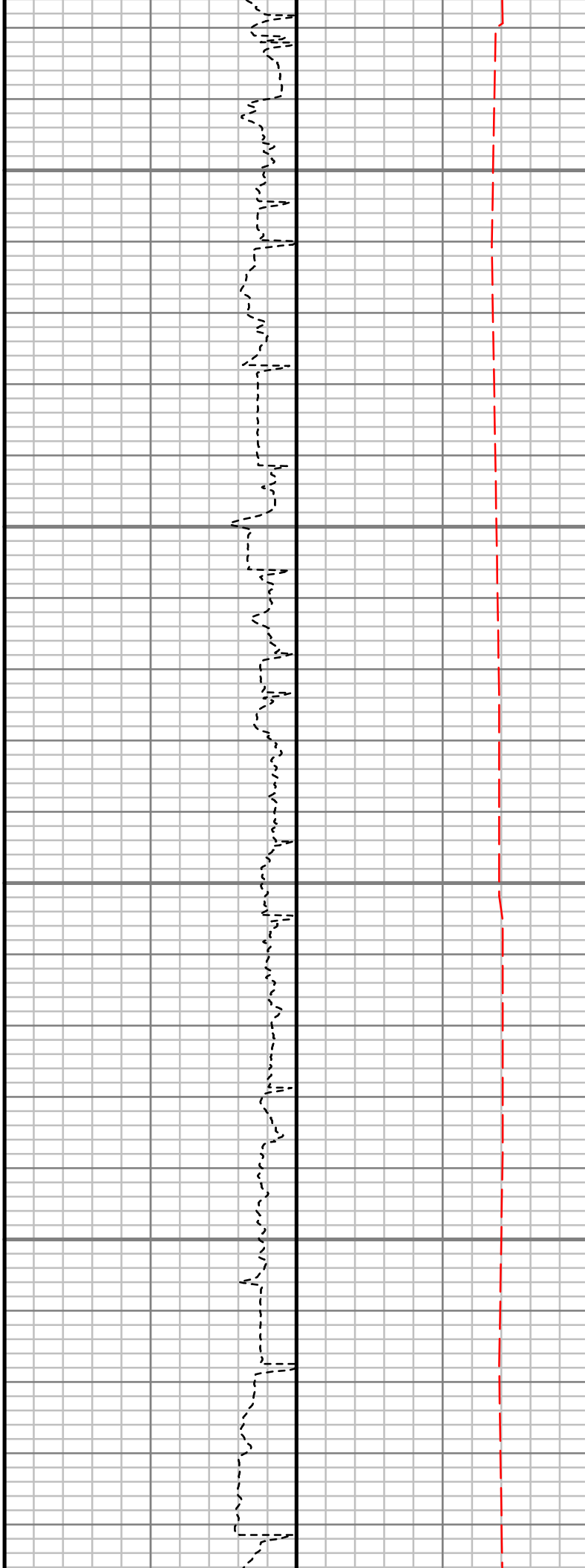
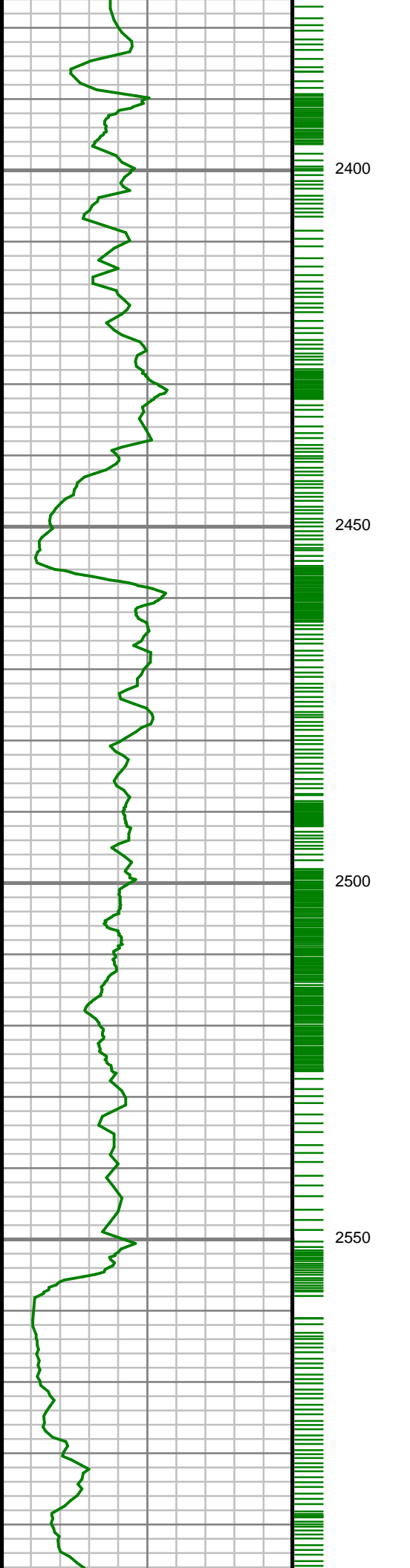








S: 43 MD: 2158.00 ft Inc: 10.71 deg Az: 87.46 deg TVD: 2155.95 ft
S: 44 MD: 2189.00 ft Inc: 12.79 deg Az: 88.57 deg TVD: 2186.30 ft
S: 45 MD: 2221.00 ft Inc: 15.05 deg Az: 89.84 deg TVD: 2217.36 ft
S: 46 MD: 2253.00 ft Inc: 17.21 deg Az: 91.34 deg TVD: 2248.10 ft
S: 47 MD: 2284.00 ft Inc: 19.69 deg Az: 91.56 deg TVD: 2277.50 ft
S: 48 MD: 2316.00 ft Inc: 22.43 deg Az: 91.97 deg TVD: 2307.36 ft
S: 49 MD: 2347.00 ft Inc: 25.57 deg Az: 91.62 deg TVD: 2335.68 ft



S: 50 MD: 2379.00 ft
Inc: 28.24 deg Az:
91.25 deg TVD:
2364.21 ft

S: 51 MD: 2410.00 ft
Inc: 30.34 deg Az:
90.51 deg TVD:
2391.25 ft

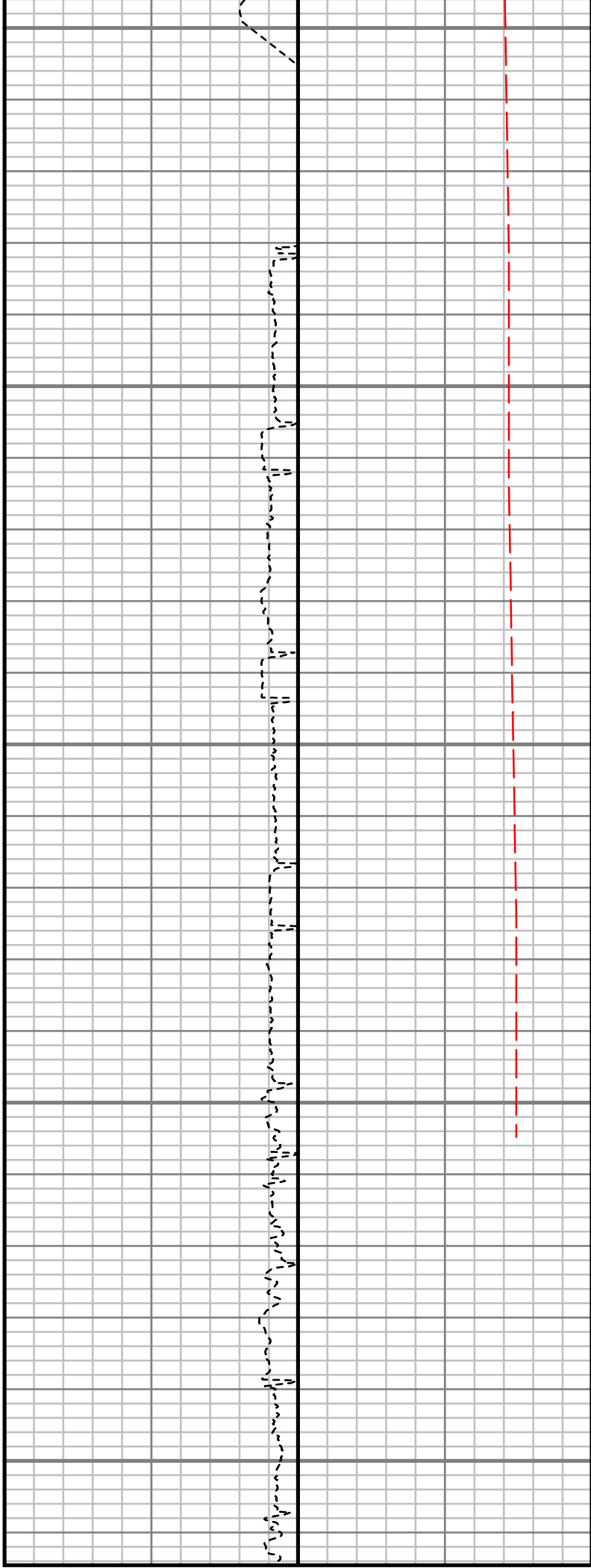
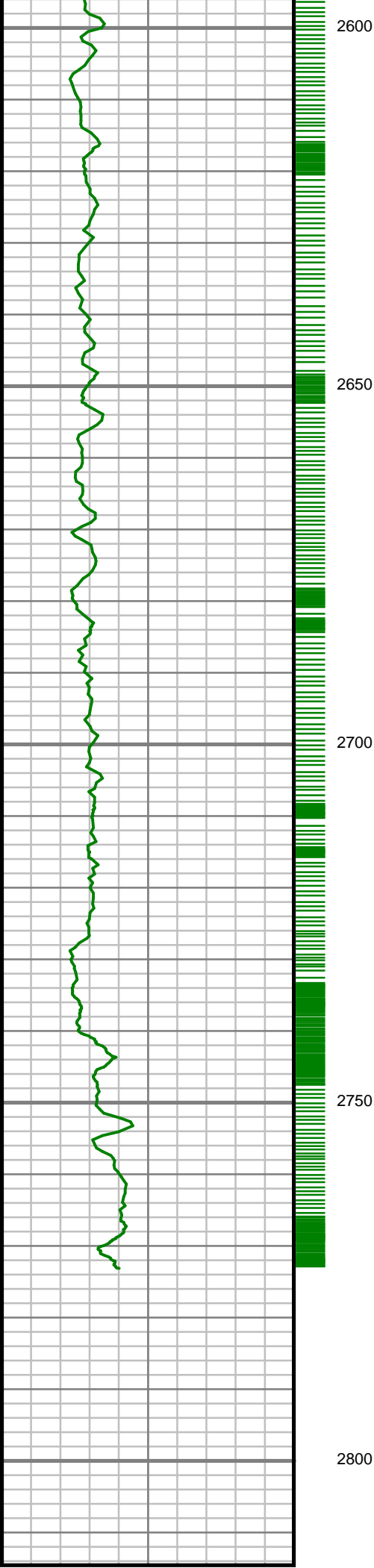
S: 52 MD: 2442.00 ft
Inc: 31.62 deg Az:
89.22 deg TVD:
2418.68 ft

S: 53 MD: 2473.00 ft
Inc: 34.08 deg Az:
88.84 deg TVD:
2444.72 ft

S: 54 MD: 2505.00 ft
Inc: 35.64 deg Az:
88.42 deg TVD:
2470.98 ft

S: 55 MD: 2536.00 ft
Inc: 36.52 deg Az:
87.64 deg TVD:
2496.03 ft

S: 56 MD: 2568.00 ft
Inc: 37.64 deg Az:
87.55 deg TVD:
2521.56 ft



S: 57 MD: 2600.00 ft
Inc: 39.54 deg Az:
88.55 deg TVD:
2546.57 ft

S: 58 MD: 2631.00 ft
Inc: 41.66 deg Az:
89.71 deg TVD:
2570.11 ft

S: 59 MD: 2663.00 ft
Inc: 43.92 deg Az:
90.50 deg TVD:
2593.59 ft

S: 60 MD: 2694.00 ft
Inc: 46.52 deg Az:
90.49 deg TVD:
2615.43 ft

S: 61 MD: 2726.00 ft
Inc: 49.03 deg Az:
90.14 deg TVD:
2636.93 ft

S: 62 MD: 2752.00 ft
Inc: 50.47 deg Az:
90.02 deg TVD:
2653.73 ft

Gamma Ray (GR)		
0	Unit = aapi	150

MEASURED DEPTH
1240 (ft)

Rate of Penetration (ROP)		
1000	Unit = ft/hr	0

Tool Temperature (T-TEMP)		
0	Unit = °F	200

Comments

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
601.16	2.18	201.63	601.02	-1.64	-11.59	-1.05	Invalid	Invalid
661.00	2.50	203.22	660.81	-2.69	-13.85	-1.98	0.55	59.84
693.00	2.14	205.14	692.78	-3.28	-15.03	-2.51	1.15	32.00
724.00	1.77	203.63	723.77	-3.77	-15.99	-2.95	1.20	31.00
755.00	1.56	212.65	754.75	-4.23	-16.79	-3.37	1.08	31.00
786.00	1.37	229.82	785.74	-4.77	-17.38	-3.88	1.54	31.00
817.00	0.98	231.03	816.74	-5.28	-17.79	-4.37	1.26	31.00
848.00	0.81	263.54	847.73	-5.71	-17.98	-4.79	1.70	31.00
879.00	0.86	268.27	878.73	-6.16	-18.01	-5.24	0.27	31.00
911.00	0.55	303.15	910.73	-6.53	-17.93	-5.61	1.61	32.00
973.00	0.89	357.89	972.72	-6.76	-17.29	-5.88	1.17	62.00
1004.00	1.05	2.15	1003.72	-6.73	-16.76	-5.88	0.57	31.00
1035.00	1.39	352.18	1034.71	-6.74	-16.11	-5.92	1.29	31.00
1066.00	1.56	351.85	1065.70	-6.81	-15.32	-6.03	0.55	31.00
1098.00	1.75	353.85	1097.69	-6.87	-14.40	-6.14	0.62	32.00
1129.00	1.76	1.30	1128.67	-6.87	-13.45	-6.18	0.74	31.00
1222.00	2.11	2.23	1221.62	-6.61	-10.32	-6.08	0.38	93.00
1316.00	2.51	359.89	1315.54	-6.35	-6.53	-6.02	0.44	94.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
1377.00	2.35	355.30	1376.49	-6.32	-3.95	-6.13	0.41	61.00
1408.00	1.85	345.01	1407.47	-6.44	-2.83	-6.31	2.01	31.00
1439.00	2.04	350.65	1438.45	-6.61	-1.80	-6.53	0.87	31.00
1470.00	1.61	345.30	1469.43	-6.76	-0.84	-6.73	1.49	31.00
1502.00	1.74	332.12	1501.42	-7.06	0.03	-7.07	1.27	32.00
1533.00	1.31	323.05	1532.41	-7.45	0.73	-7.50	1.59	31.00
1564.00	1.04	311.17	1563.40	-7.85	1.20	-7.93	1.17	31.00
1595.00	0.40	289.22	1594.40	-8.16	1.42	-8.24	2.21	31.00
1626.00	0.26	241.30	1625.40	-8.32	1.42	-8.40	0.96	31.00
1657.00	0.54	219.76	1656.40	-8.48	1.27	-8.56	1.01	31.00
1689.00	0.53	160.97	1688.40	-8.54	1.02	-8.61	1.64	32.00
1719.00	0.62	156.63	1718.40	-8.45	0.74	-8.50	0.33	30.00
1749.00	0.85	160.85	1748.39	-8.33	0.38	-8.36	0.79	30.00
1780.00	1.15	175.92	1779.39	-8.26	-0.15	-8.26	1.28	31.00
1811.00	1.28	168.76	1810.38	-8.20	-0.80	-8.17	0.64	31.00
1843.00	1.38	165.97	1842.37	-8.08	-1.52	-8.01	0.37	32.00
1874.00	1.16	170.60	1873.37	-7.97	-2.20	-7.87	0.78	31.00
1905.00	1.26	153.89	1904.36	-7.80	-2.81	-7.67	1.18	31.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
1937.00	1.62	131.06	1936.35	-7.34	-3.42	-7.17	2.09	32.00
1968.00	2.40	110.42	1967.33	-6.43	-3.94	-6.23	3.39	31.00
2000.00	3.60	100.01	1999.29	-4.83	-4.35	-4.62	4.10	32.00
2031.00	4.96	95.55	2030.20	-2.56	-4.65	-2.32	4.51	31.00
2063.00	6.35	92.23	2062.04	0.57	-4.85	0.82	4.46	32.00
2095.00	8.05	90.34	2093.79	4.57	-4.93	4.83	5.36	32.00
2126.00	9.23	87.89	2124.44	9.23	-4.85	9.49	3.99	31.00
2158.00	10.71	87.46	2155.95	14.77	-4.63	15.02	4.63	32.00
2189.00	12.79	88.57	2186.30	21.08	-4.41	21.33	6.75	31.00
2221.00	15.05	89.84	2217.36	28.77	-4.31	29.03	7.13	32.00
2253.00	17.21	91.34	2248.10	37.64	-4.41	37.92	6.87	32.00
2284.00	19.69	91.56	2277.50	47.42	-4.66	47.72	8.00	31.00
2316.00	22.43	91.97	2307.36	58.88	-5.02	59.22	8.57	32.00
2347.00	25.57	91.62	2335.68	71.44	-5.41	71.82	10.14	31.00
2379.00	28.24	91.25	2364.21	85.88	-5.77	86.29	8.36	32.00
2410.00	30.34	90.51	2391.25	101.01	-6.00	101.45	6.87	31.00
2442.00	31.62	89.22	2418.68	117.46	-5.96	117.92	4.51	32.00
2473.00	34.08	88.84	2444.72	134.27	-5.67	134.74	7.96	31.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
2505.00	35.64	88.42	2470.98	152.55	-5.23	153.02	4.93	32.00
2536.00	36.52	87.64	2496.03	170.80	-4.60	171.27	3.20	31.00
2568.00	37.64	87.55	2521.56	190.10	-3.79	190.54	3.50	32.00
2600.00	39.54	88.55	2546.57	210.05	-3.12	210.49	6.25	32.00
2631.00	41.66	89.71	2570.11	230.21	-2.82	230.66	7.26	31.00
2663.00	43.92	90.50	2593.59	251.92	-2.86	252.40	7.26	32.00
2694.00	46.52	90.49	2615.43	273.88	-3.05	274.40	8.39	31.00
2726.00	49.03	90.14	2636.93	297.54	-3.18	298.09	7.89	32.00
2752.00	50.47	90.02	2653.73	317.35	-3.21	317.93	5.55	26.00

5" = 100' MD