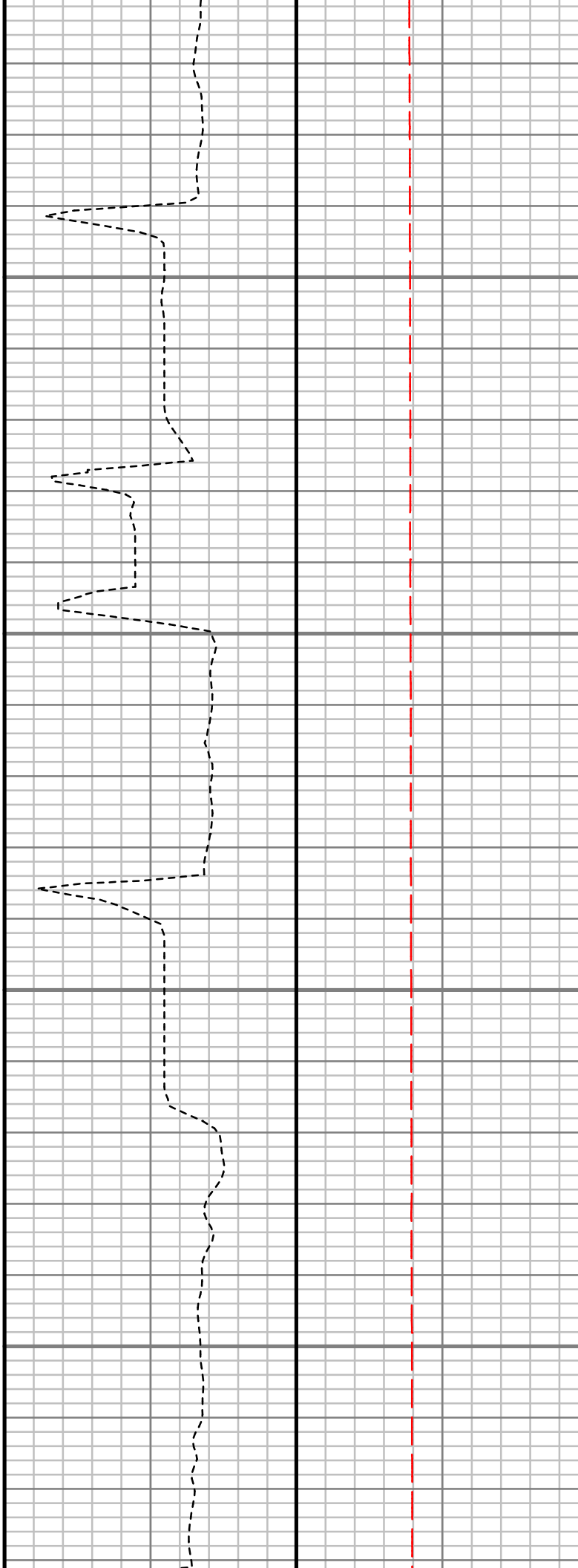
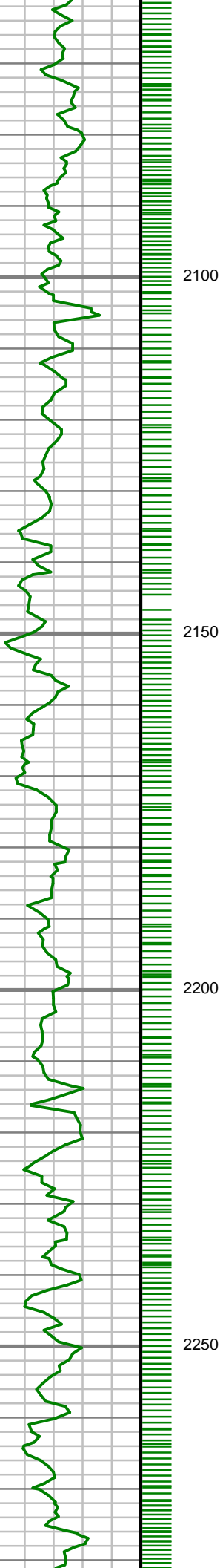


[illegible]

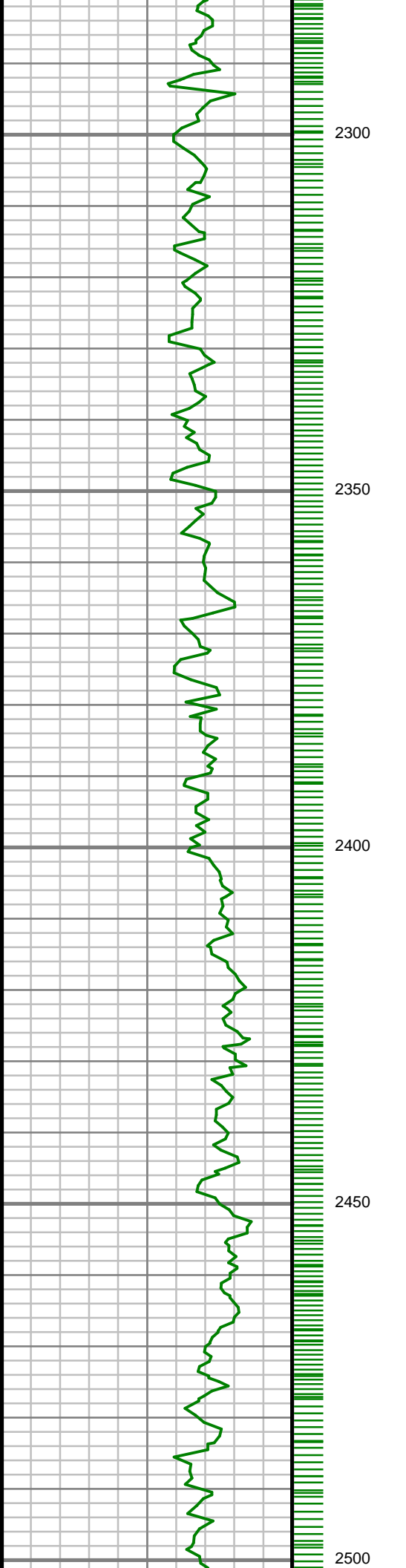
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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. LAND 37N-32HZ WATTENBERG WELD COUNTY, COLORADO 05123423010000			
Gamma Ray (GR) 0 Unit = aapi 150	MEASURED DEPTH 1:240 (ft)	Rate of Penetration (ROP) 0 Unit = ft/hr 1000	Tool Temperature (TEMP) 0 Unit = °F 300
			S: 21 MD: 2041.00 ft Inc: 15.55 deg Az: 0.02 deg TVD: 1997.74 ft



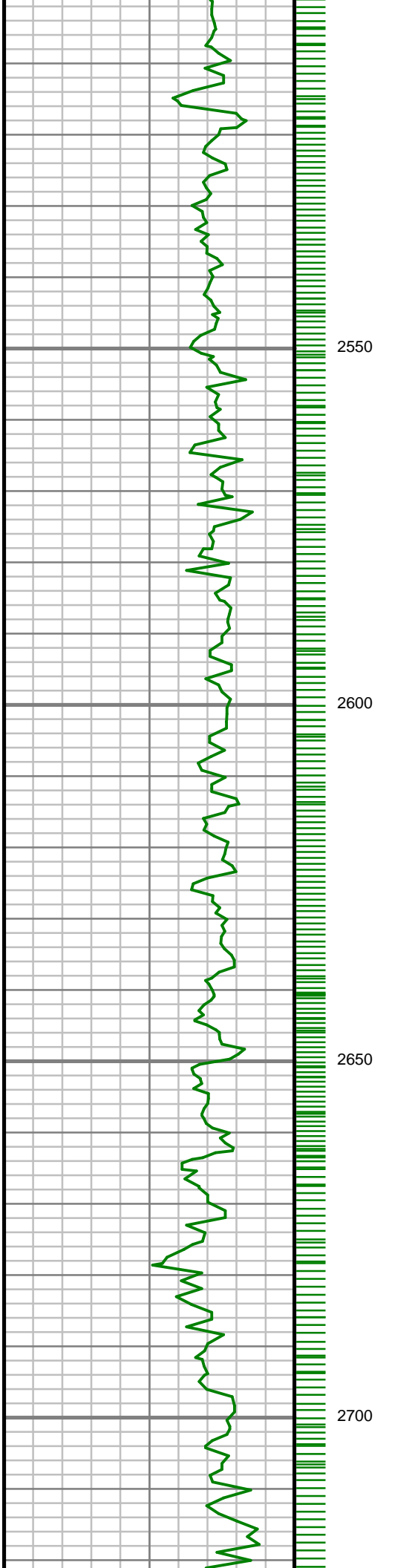
S: 22 MD: 2136.00 ft
Inc: 15.94 deg Az: 1.45
deg TVD: 2089.18 ft

S: 23 MD: 2231.00 ft
Inc: 15.79 deg Az: 1.74
deg TVD: 2180.56 ft



S: 24 MD: 2325.00 ft
Inc: 16.53 deg Az: 3.17
deg TVD: 2270.84 ft

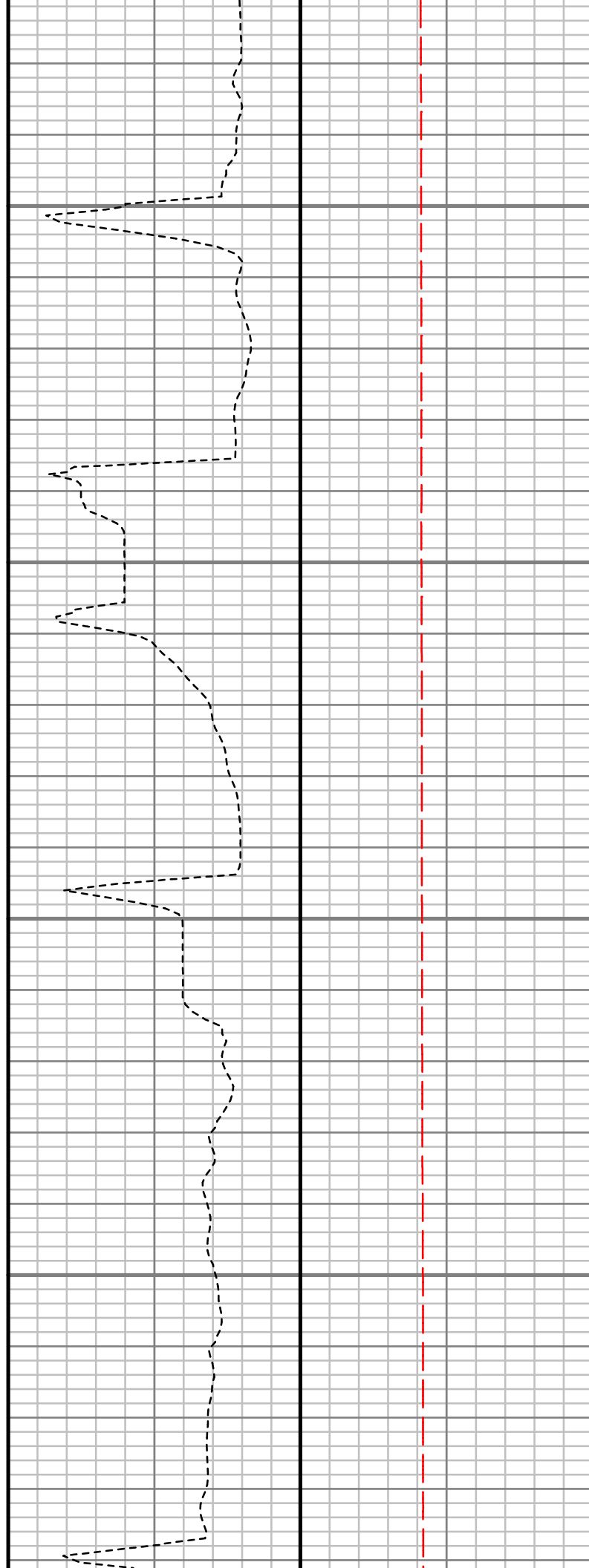
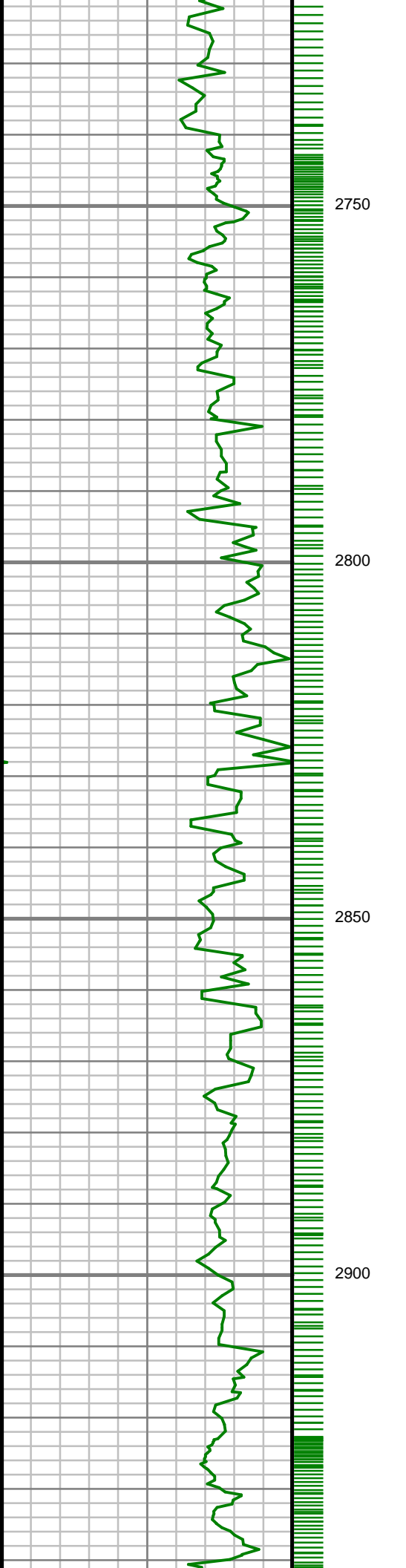
S: 25 MD: 2417.00 ft
Inc: 16.47 deg Az: 358.95 deg
TVD: 2359.06 ft



S: 26 MD: 2511.00 ft
Inc: 17.09 deg Az:
359.09 deg TVD:
2449.06 ft

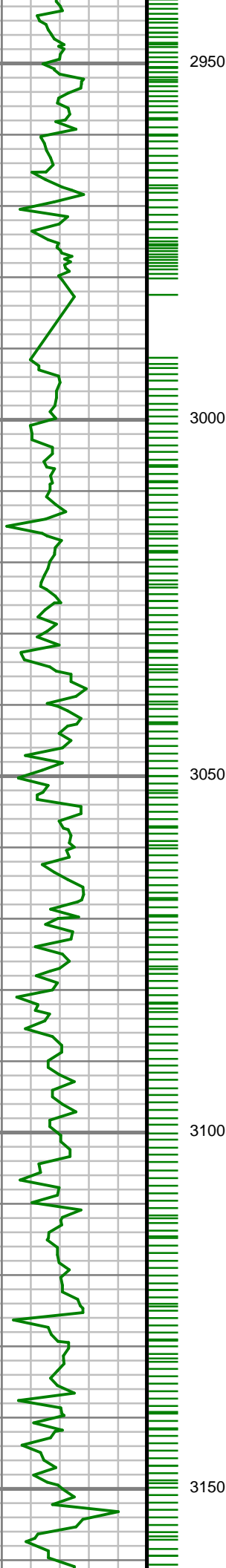
S: 27 MD: 2606.00 ft
Inc: 16.80 deg Az:
358.76 deg TVD:
2539.93 ft

S: 28 MD: 2699.00 ft
Inc: 16.35 deg Az: 4.36
deg TVD: 2629.07 ft



S: 29 MD: 2793.00 ft
Inc: 16.43 deg Az: 7.35
deg TVD: 2719.25 ft

S: 30 MD: 2887.00 ft
Inc: 16.28 deg Az: 7.18
deg TVD: 2809.45 ft



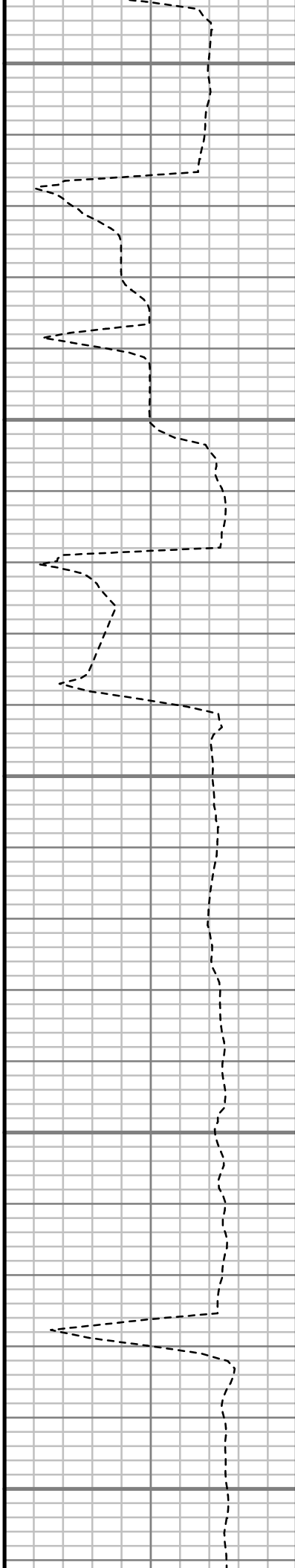
2950

3000

3050

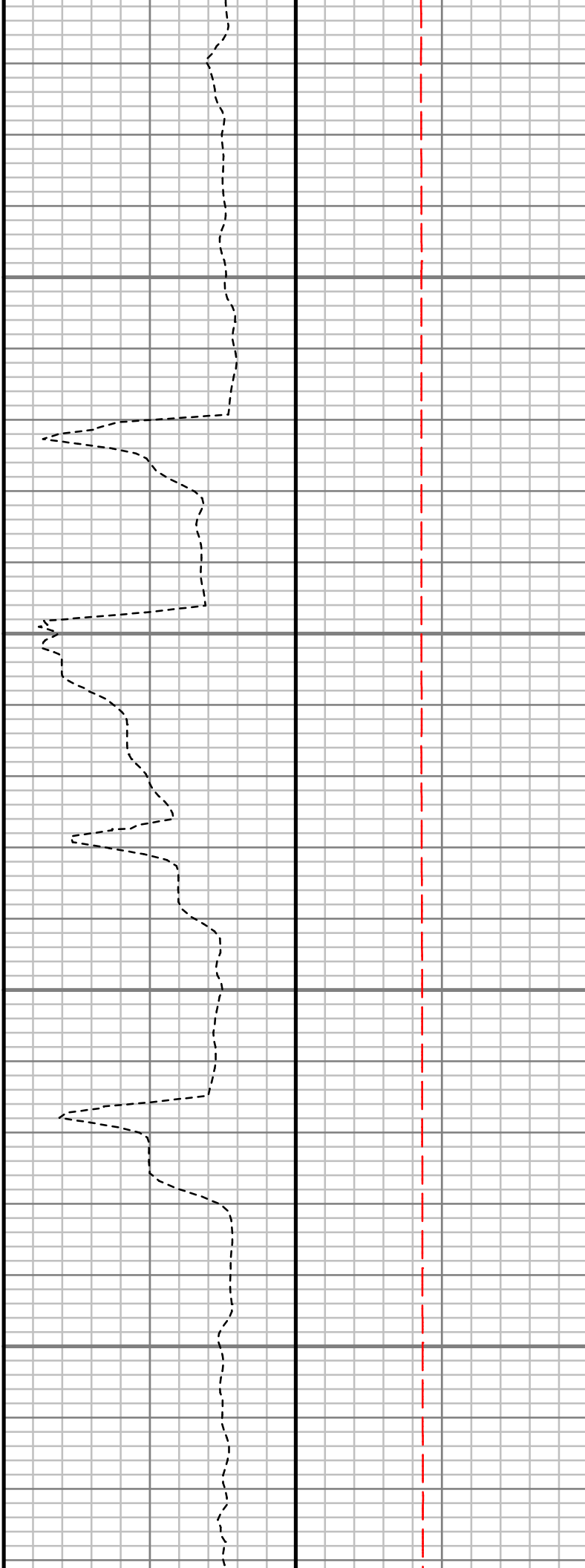
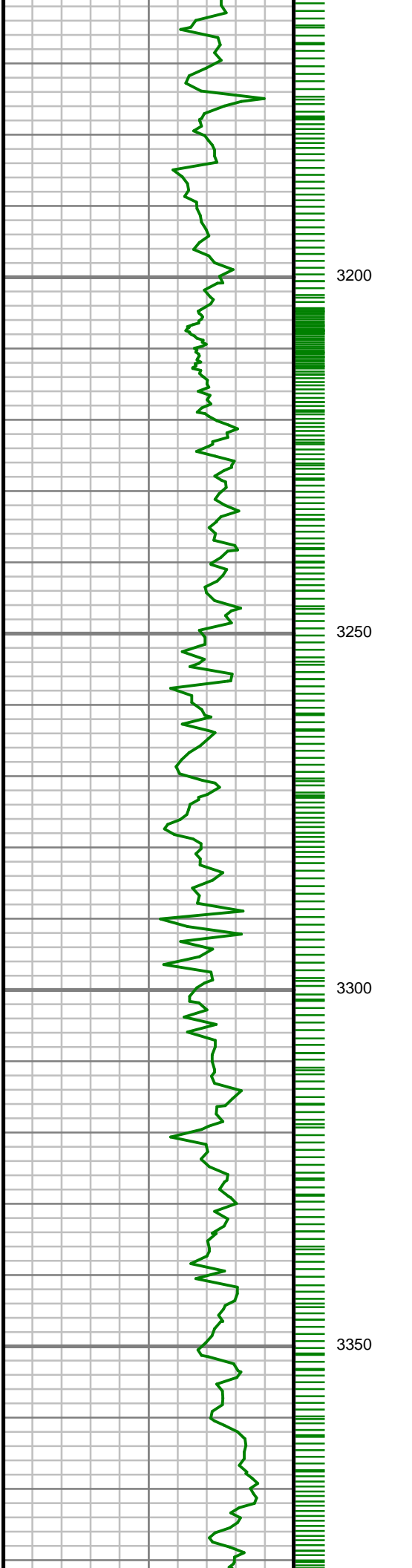
3100

3150



S: 31 MD: 2981.00 ft
Inc: 16.25 deg Az: 5.53
deg TVD: 2899.69 ft

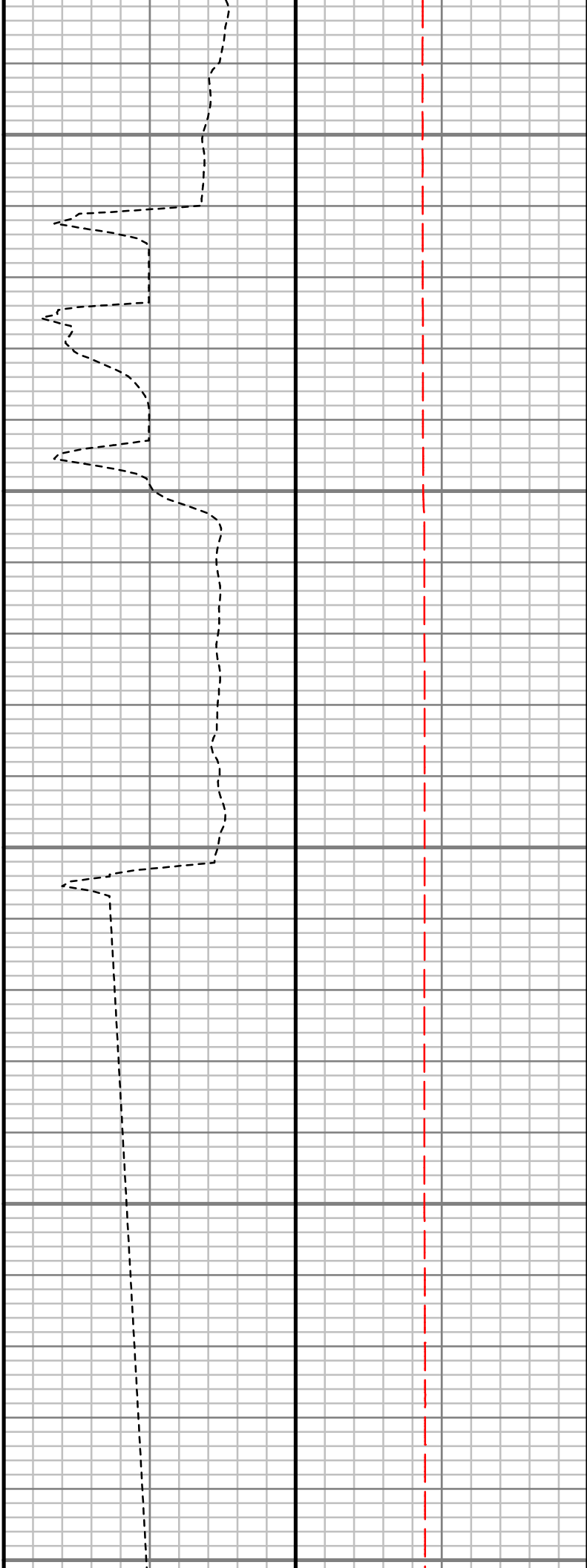
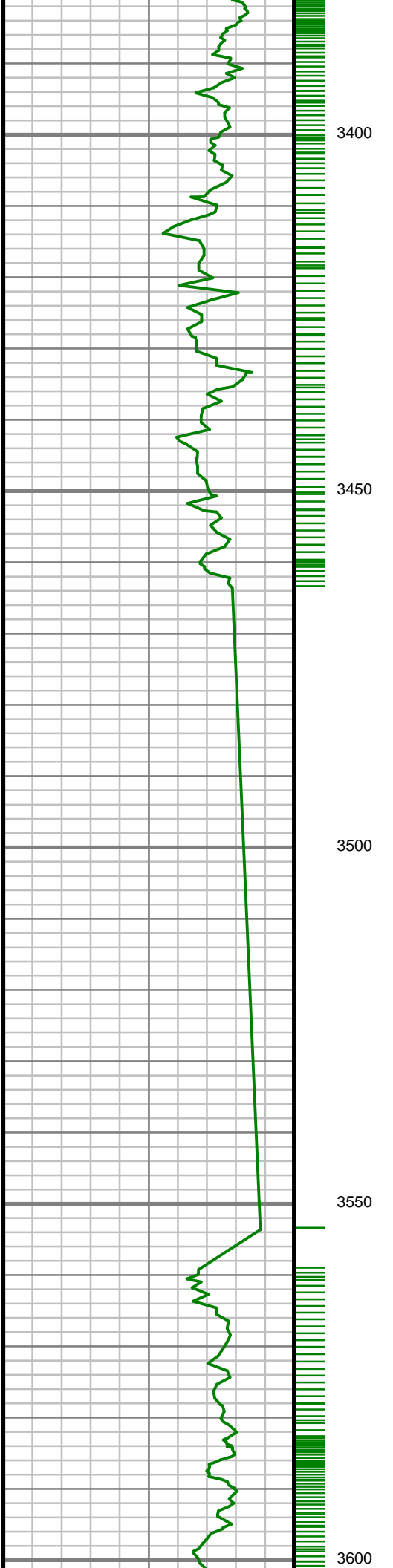
S: 32 MD: 3075.00 ft
Inc: 18.38 deg Az: 1.91
deg TVD: 2989.43 ft



S: 33 MD: 3170.00 ft
Inc: 16.58 deg Az: 0.16
deg TVD: 3080.04 ft

S: 34 MD: 3264.00 ft
Inc: 17.13 deg Az:
357.32 deg TVD:
3170.00 ft

S: 35 MD: 3358.00 ft
Inc: 16.41 deg Az:
357.91 deg TVD:
3260.00 ft



S: 36 MD: 3453.00 ft
Inc: 17.77 deg Az:
356.90 deg TVD:
3350.81 ft

S: 37 MD: 3547.00 ft
Inc: 15.62 deg Az:
354.69 deg TVD:
3440.84 ft



3650

3700

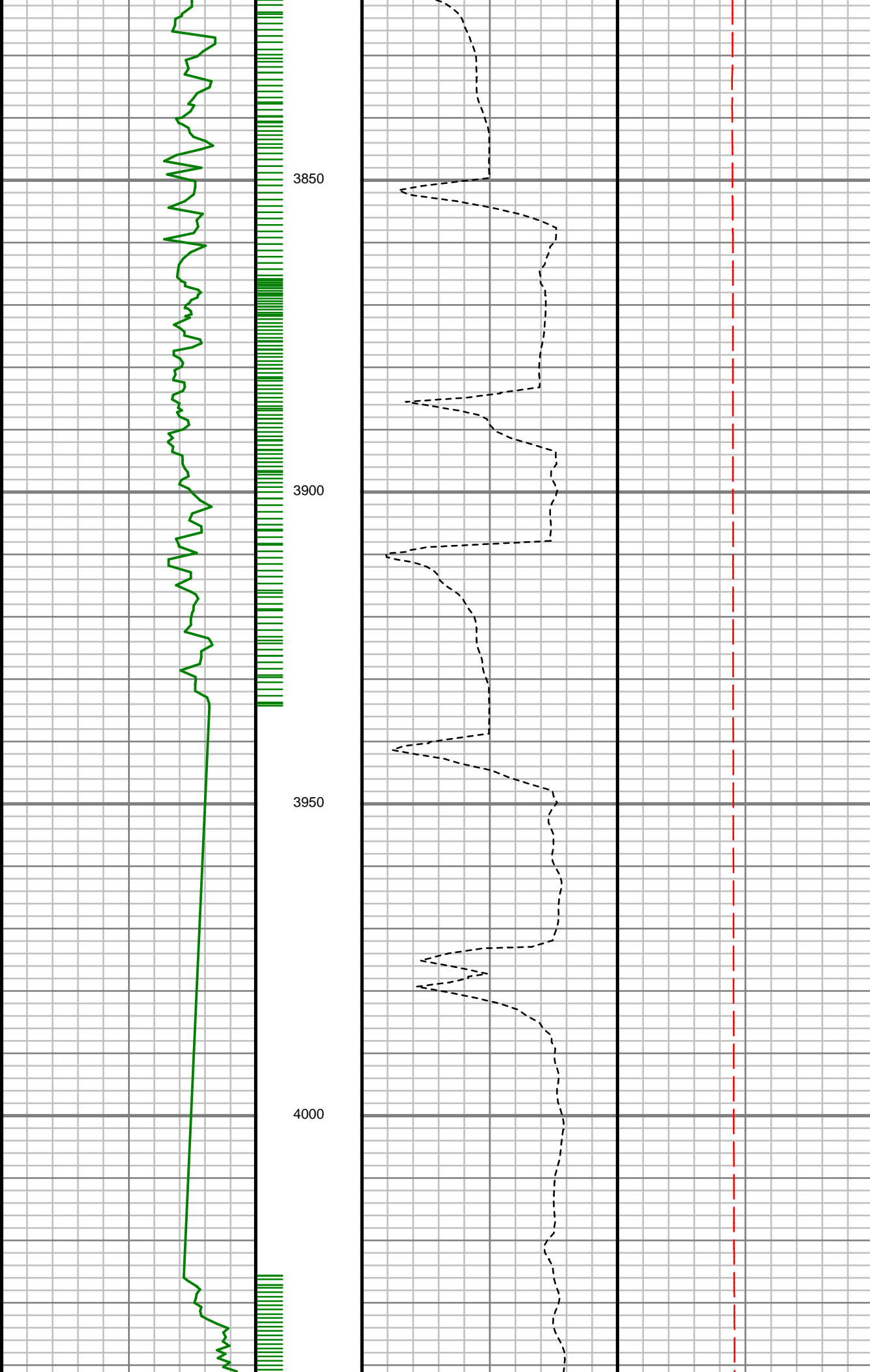
3750

3800



S: 38 MD: 3642.00 ft
Inc: 15.47 deg Az:
353.45 deg TVD:
3532.37 ft

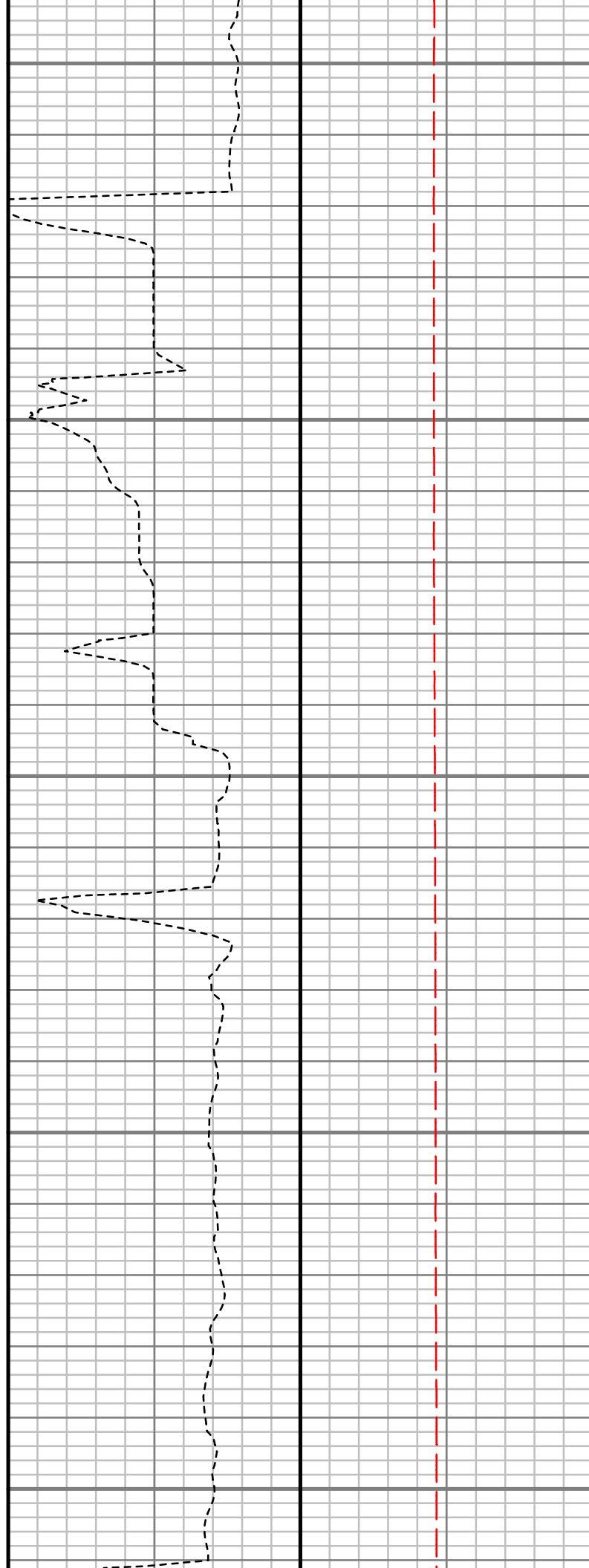
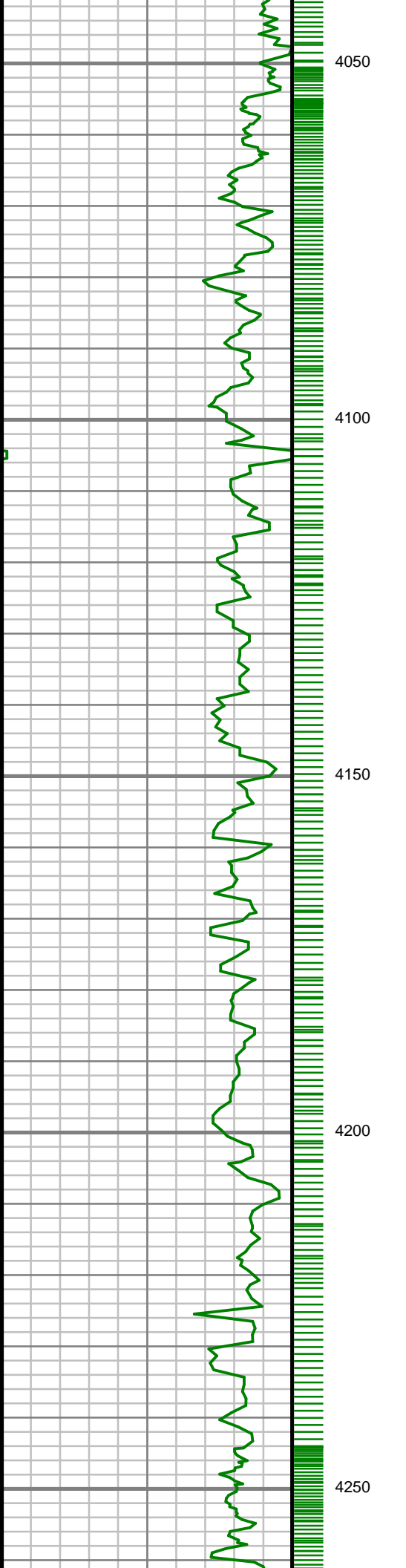
S: 39 MD: 3737.00 ft
Inc: 12.76 deg Az:
355.28 deg TVD:
3624.49 ft



S: 40 MD: 3832.00 ft
Inc: 12.77 deg Az: 2.20
deg TVD: 3717.15 ft

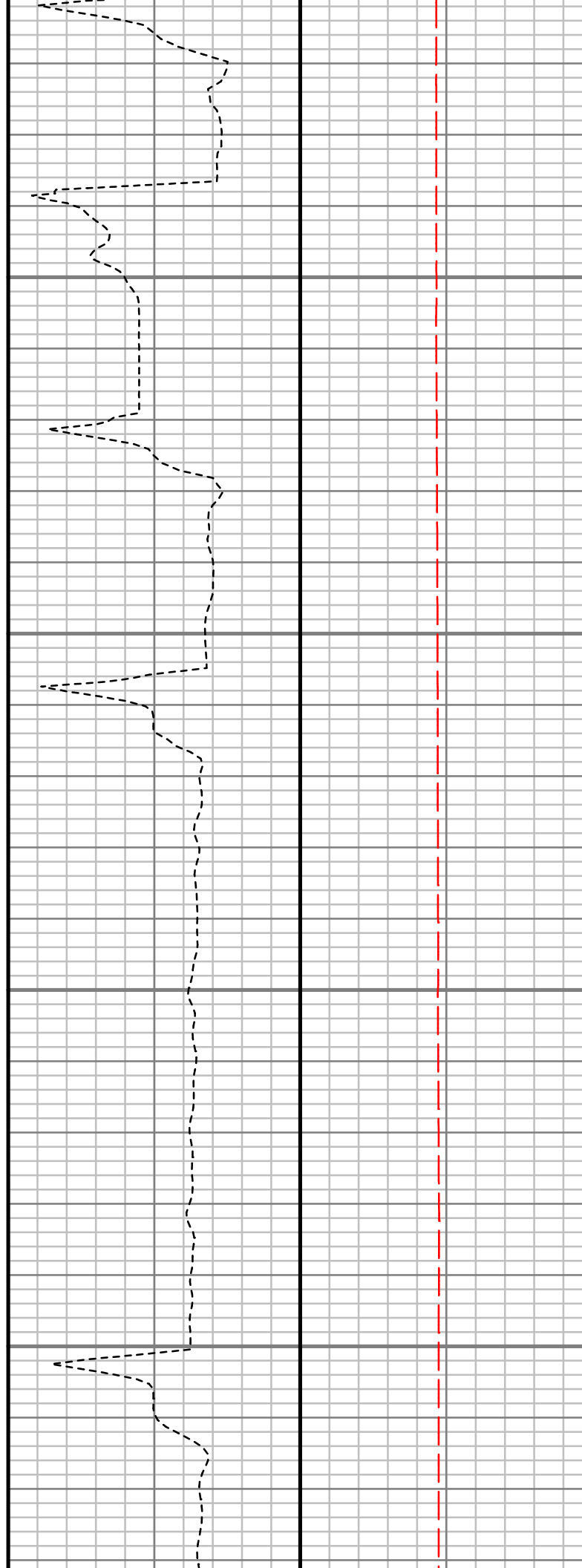
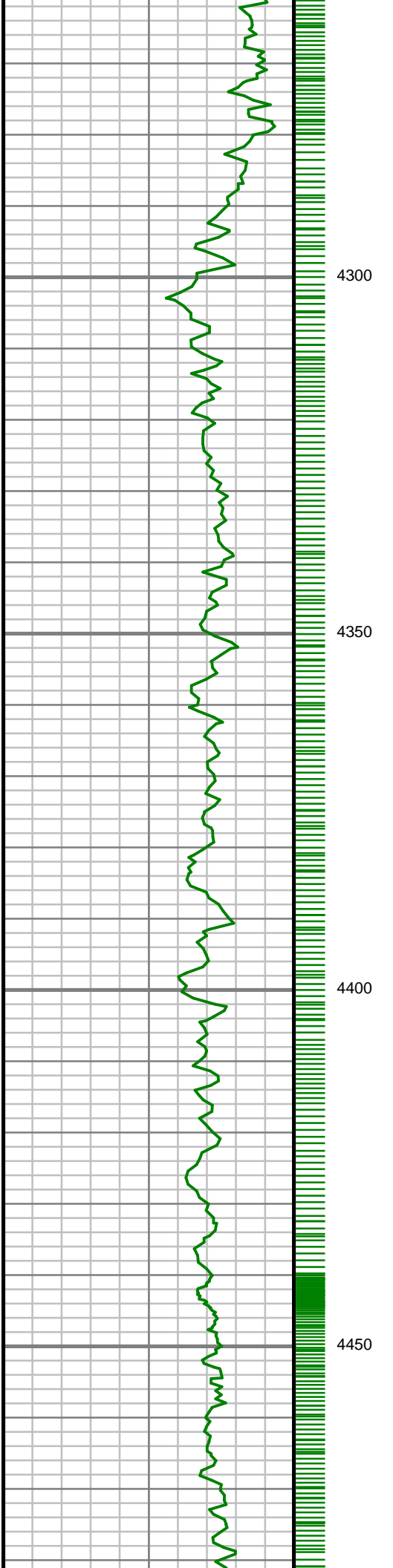
S: 41 MD: 3925.00 ft
Inc: 16.32 deg Az: 8.54
deg TVD: 3807.16 ft

S: 42 MD: 4019.00 ft
Inc: 15.50 deg Az: 4.52
deg TVD: 3897.56 ft



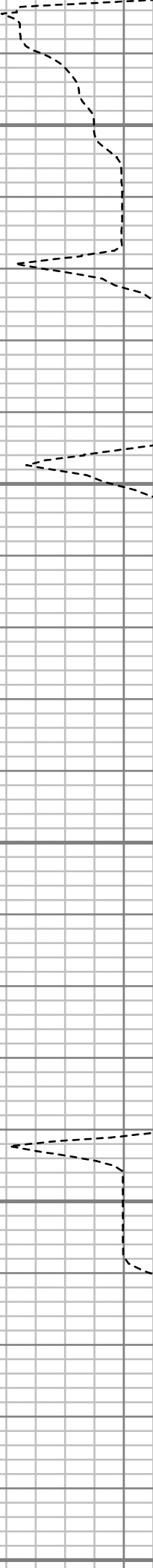
S: 43 MD: 4114.00 ft
Inc: 15.44 deg Az: 4.76
deg TVD: 3989.12 ft

S: 44 MD: 4208.00 ft
Inc: 14.89 deg Az: 5.11
deg TVD: 4079.85 ft

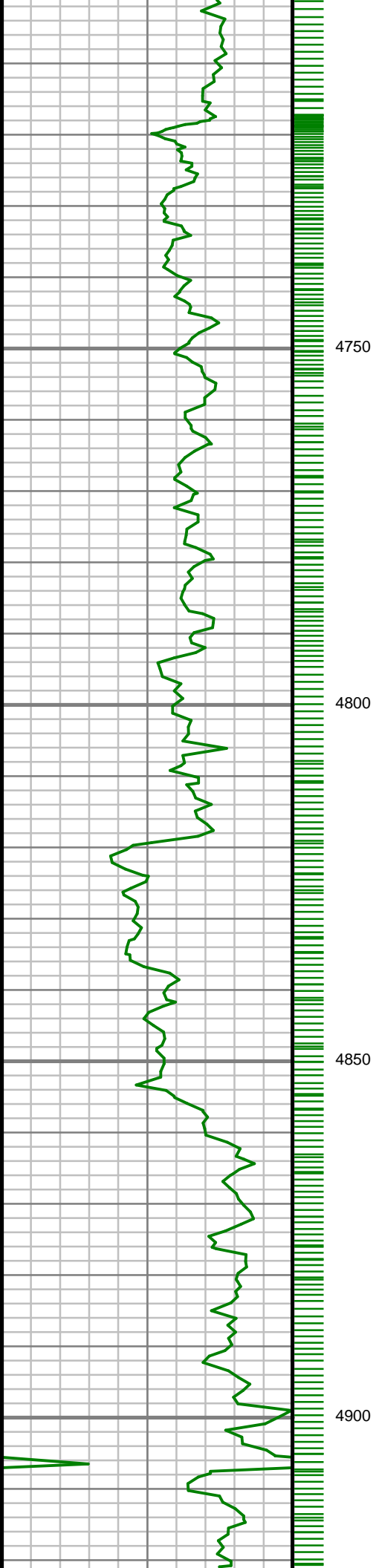


S: 45 MD: 4303.00 ft
Inc: 15.69 deg Az:
359.20 deg TVD:
4171.49 ft

S: 46 MD: 4398.00 ft
Inc: 16.37 deg Az:
358.31 deg TVD:
4262.80 ft

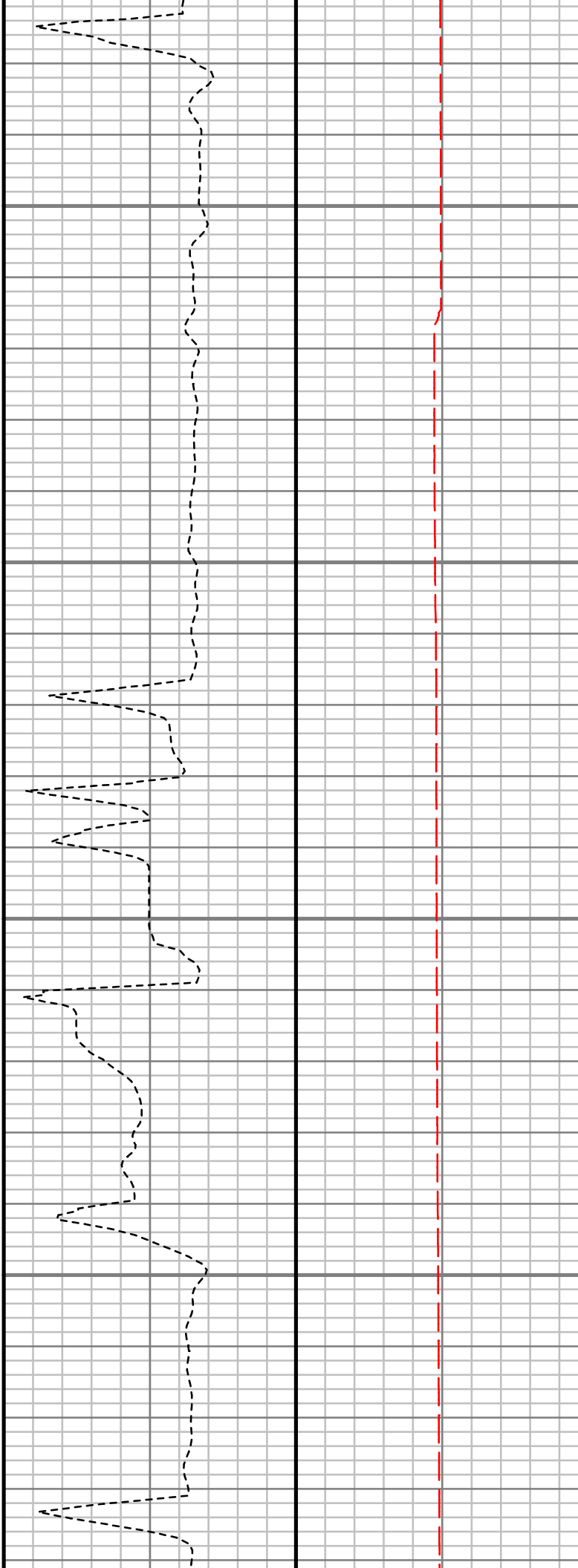
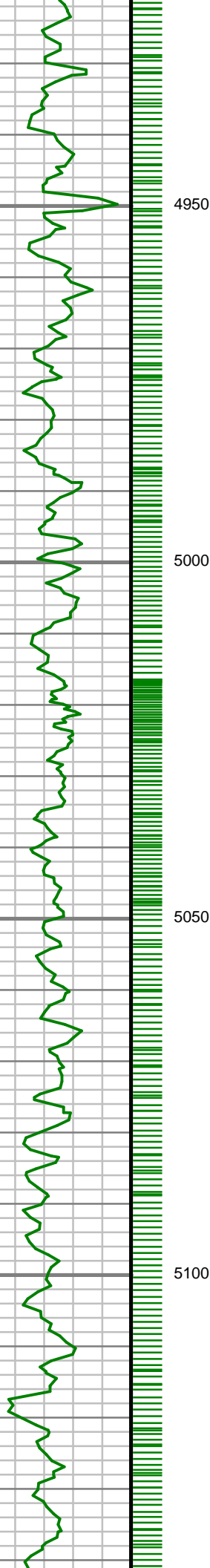


S: 49 MD: 4681.00 ft
Inc: 14.75 deg Az:
351.75 deg TVD:
4533.76 ft



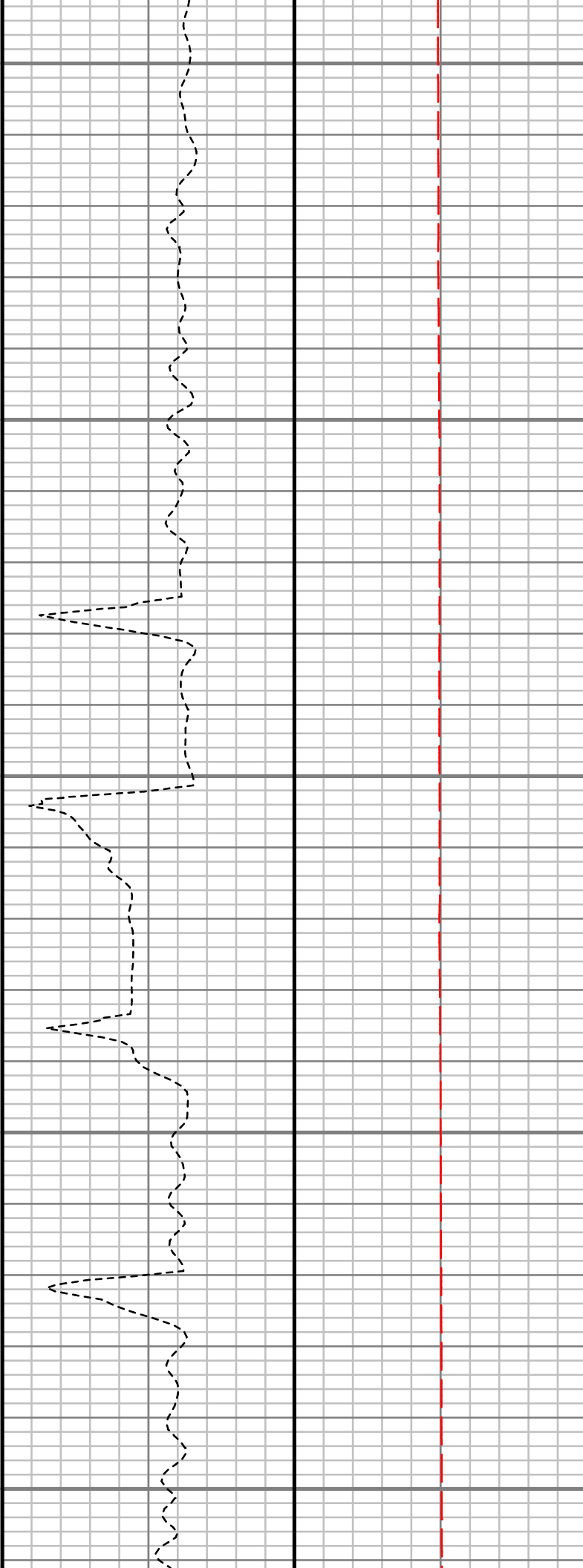
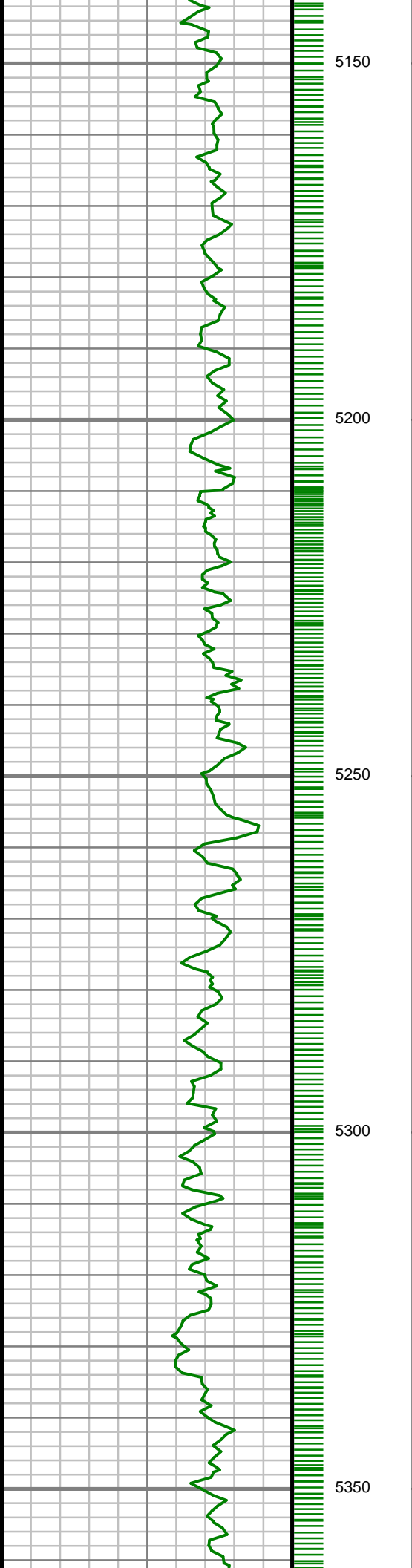
S: 50 MD: 4776.00 ft
Inc: 17.05 deg Az:
354.54 deg TVD:
4625.12 ft

S: 51 MD: 4869.00 ft
Inc: 18.34 deg Az:
356.84 deg TVD:
4713.72 ft



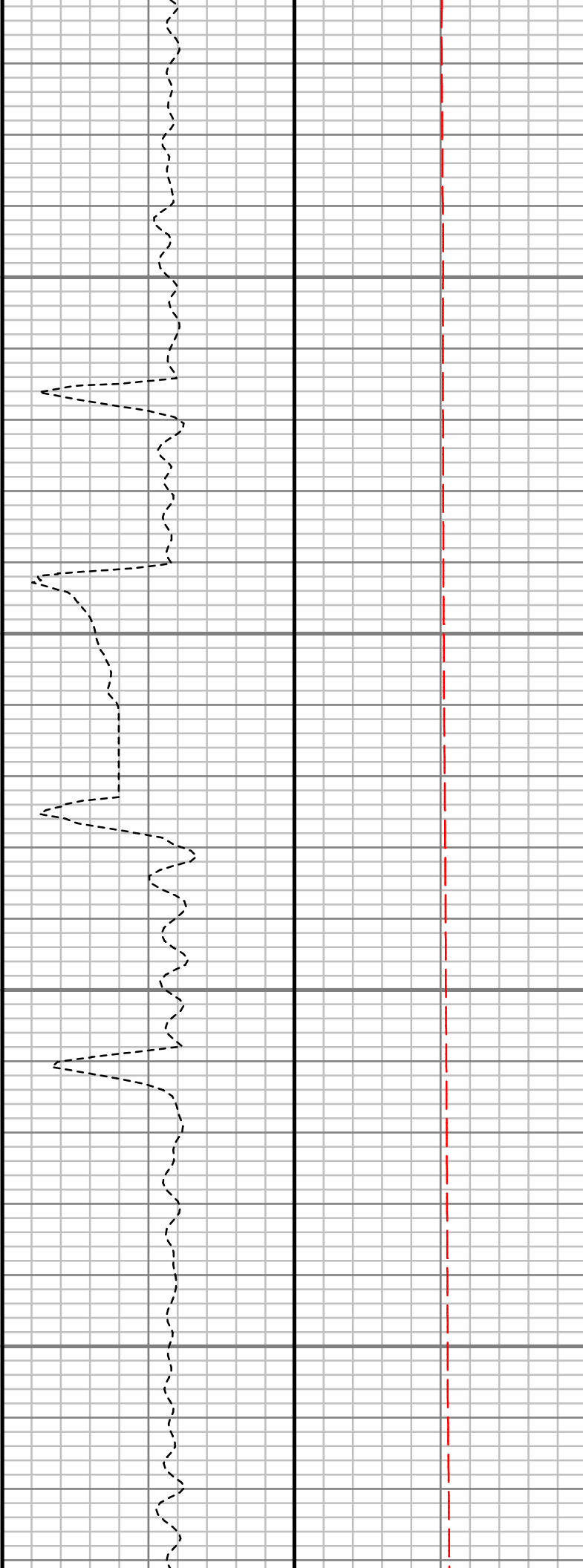
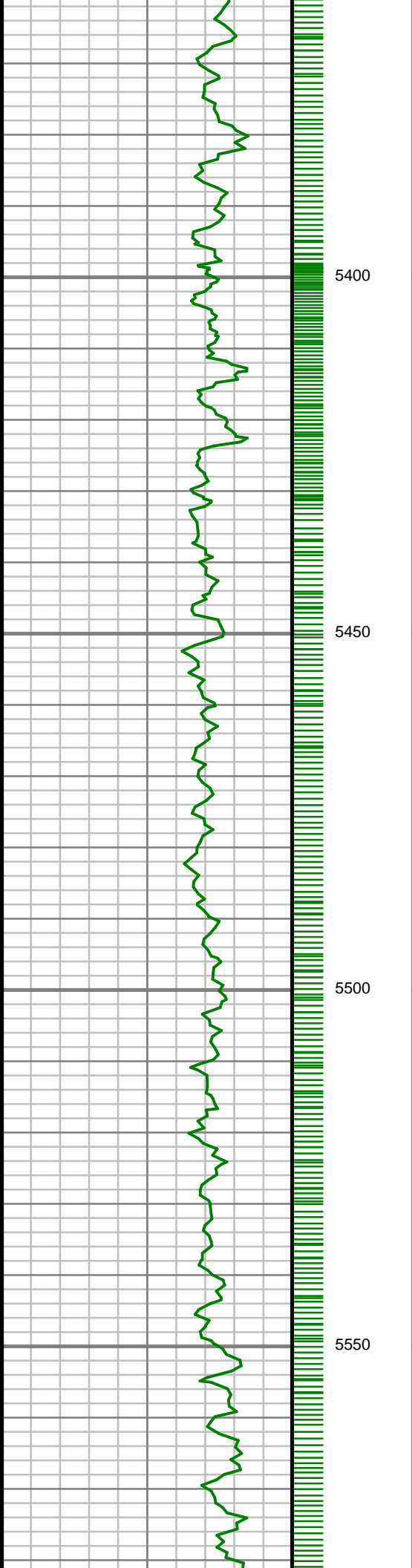
S: 52 MD: 4987.00 ft
Inc: 16.49 deg Az:
355.25 deg TVD:
4826.30 ft

S: 53 MD: 5081.00 ft
Inc: 16.49 deg Az: 2.36
deg TVD: 4916.45 ft



S: 54 MD: 5176.00 ft
Inc: 14.04 deg Az: 2.61
deg TVD: 5008.09 ft

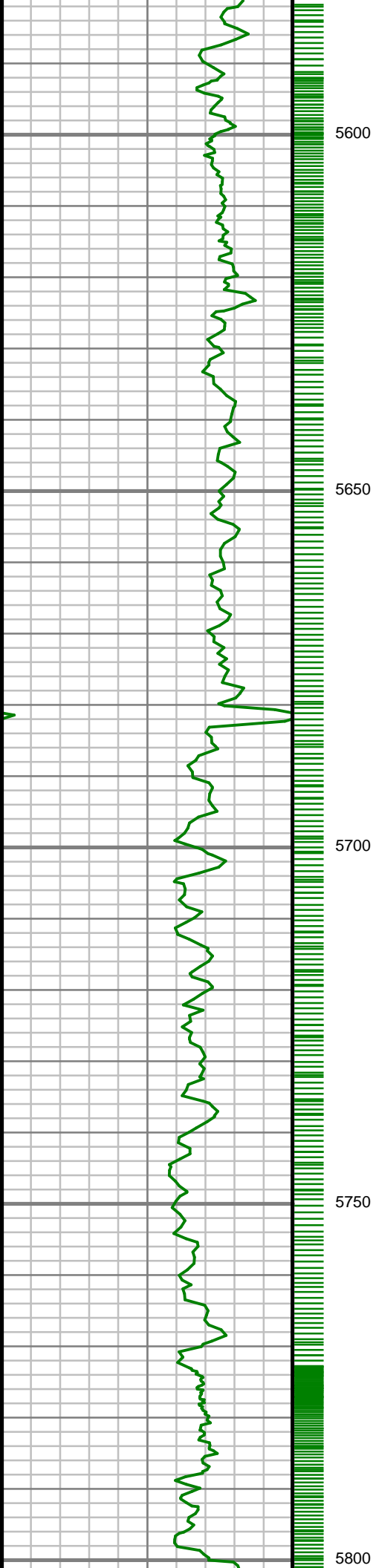
S: 55 MD: 5271.00 ft
Inc: 13.90 deg Az: 6.48
deg TVD: 5100.28 ft



S: 56 MD: 5365.00 ft
Inc: 13.33 deg Az: 6.99
deg TVD: 5191.64 ft

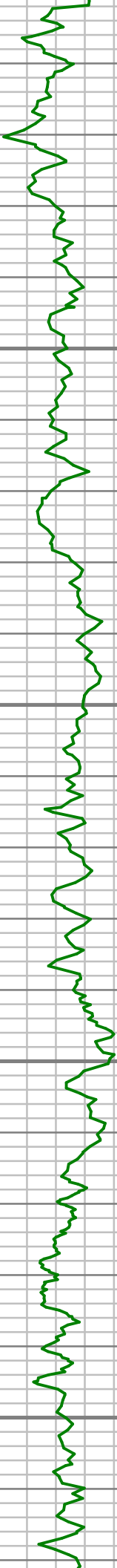
S: 57 MD: 5459.00 ft
Inc: 15.52 deg Az: 8.14
deg TVD: 5282.67 ft

S: 58 MD: 5553.00 ft
Inc: 14.18 deg Az: 6.18
deg TVD: 5373.53 ft



S: 59 MD: 5648.00 ft
Inc: 12.20 deg Az: 2.04
deg TVD: 5466.02 ft

S: 60 MD: 5742.00 ft
Inc: 12.78 deg Az: 1.93
deg TVD: 5557.79 ft

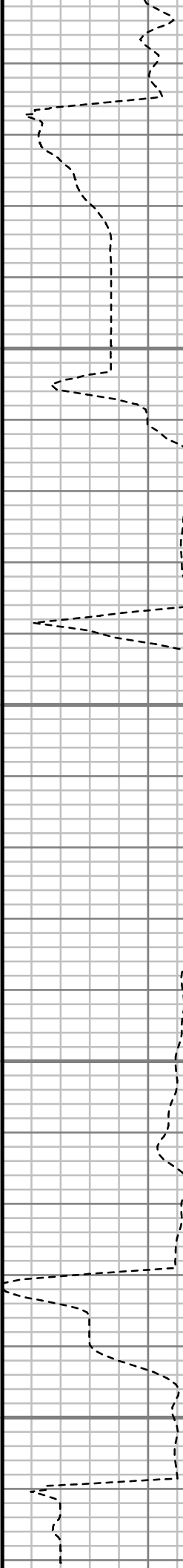


5850

5900

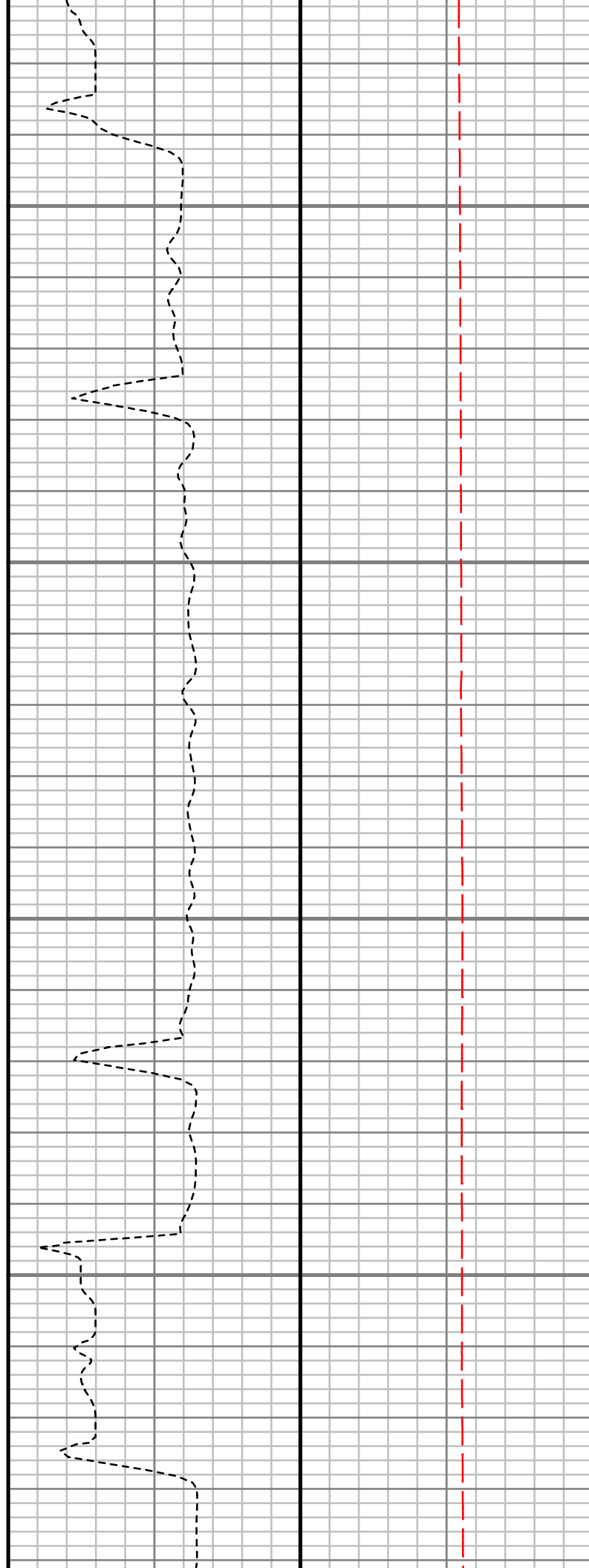
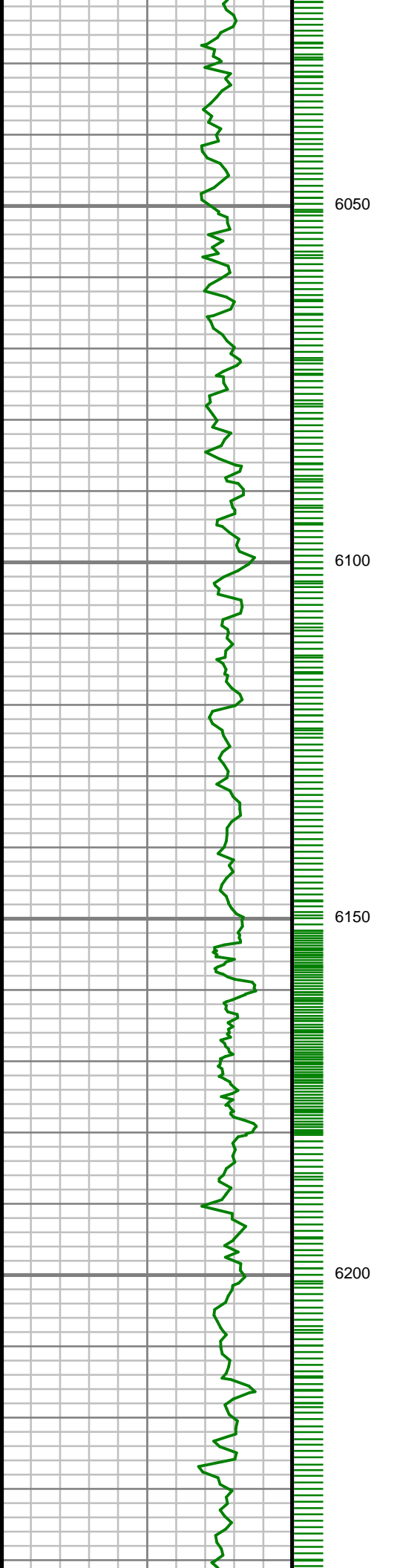
5950

6000



S: 61 MD: 5836.00 ft
Inc: 14.64 deg Az: 1.10
deg TVD: 5649.11 ft

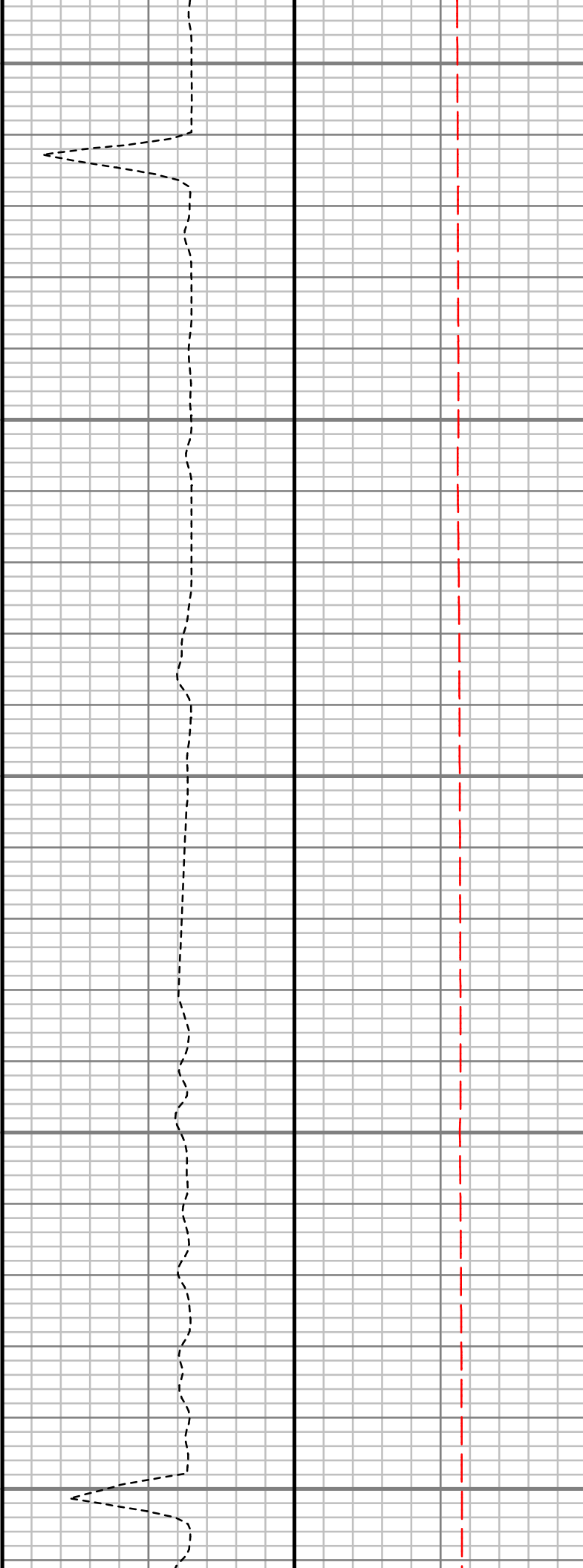
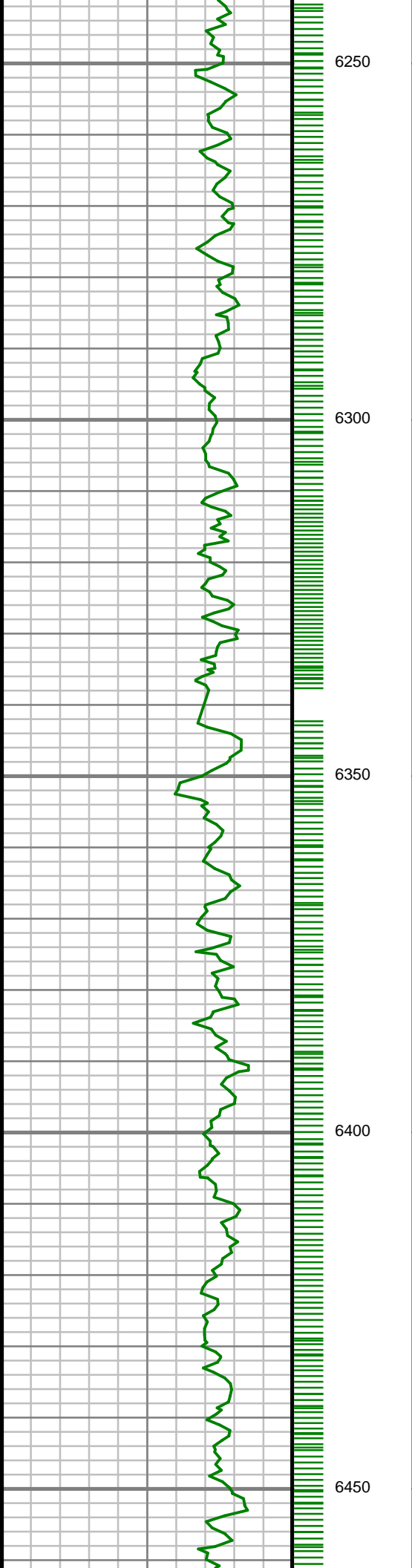
S: 62 MD: 5931.00 ft
Inc: 12.94 deg Az:
359.25 deg TVD:
5741.37 ft



S: 63 MD: 6023.00 ft
Inc: 11.50 deg Az: 1.01
deg TVD: 5831.28 ft

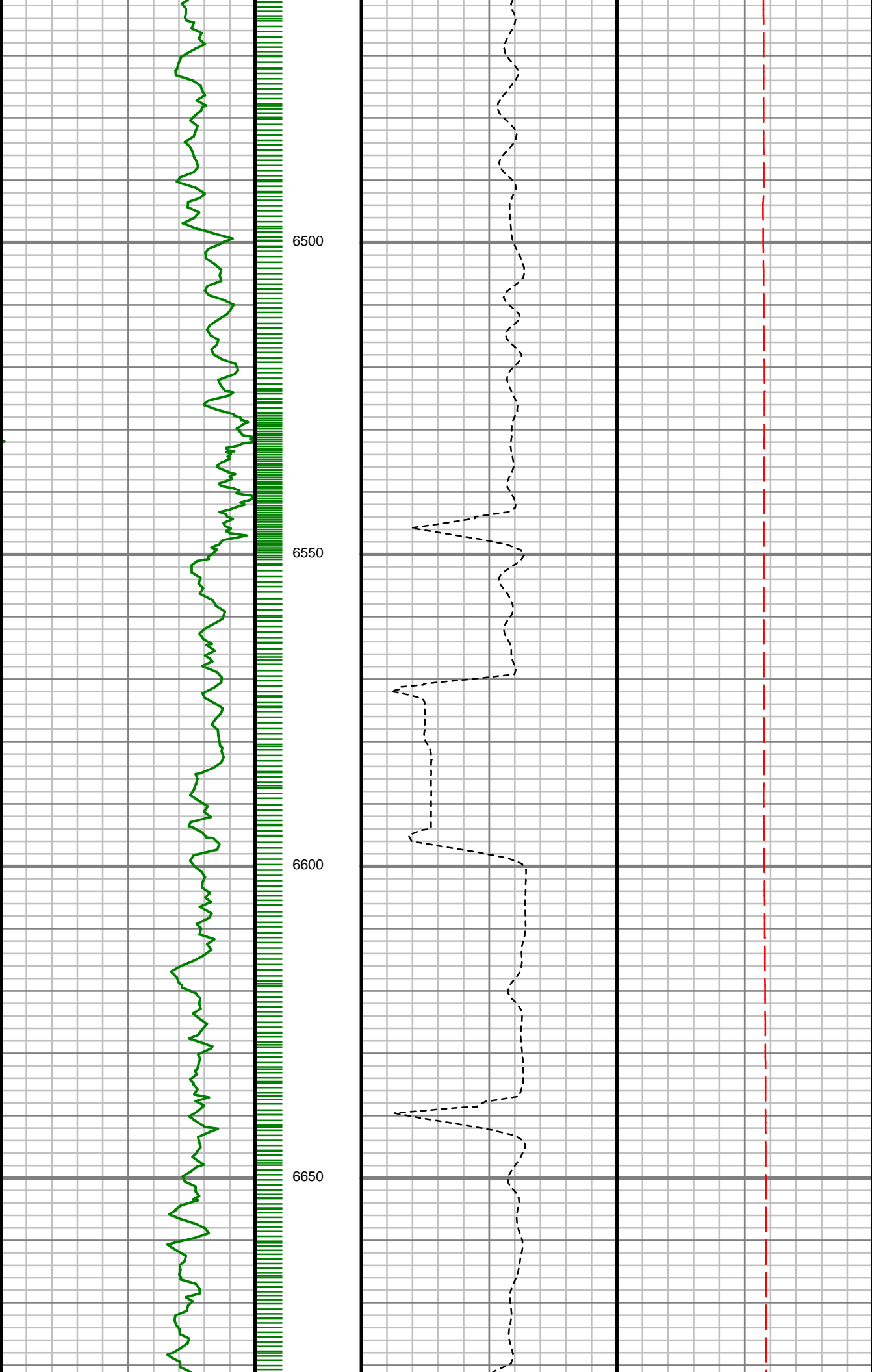
S: 64 MD: 6117.00 ft
Inc: 9.50 deg Az:
354.42 deg TVD:
5923.70 ft

S: 65 MD: 6210.00 ft
Inc: 8.08 deg Az: 6.02
deg TVD: 6015.62 ft



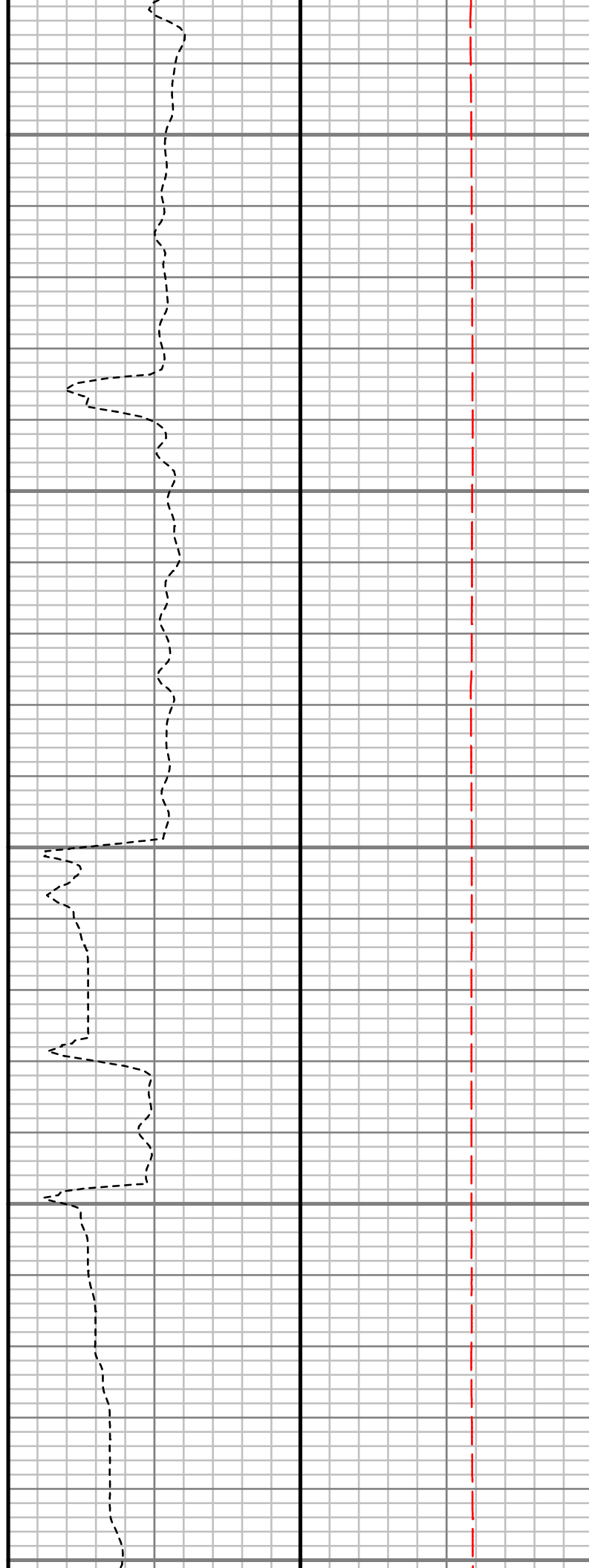
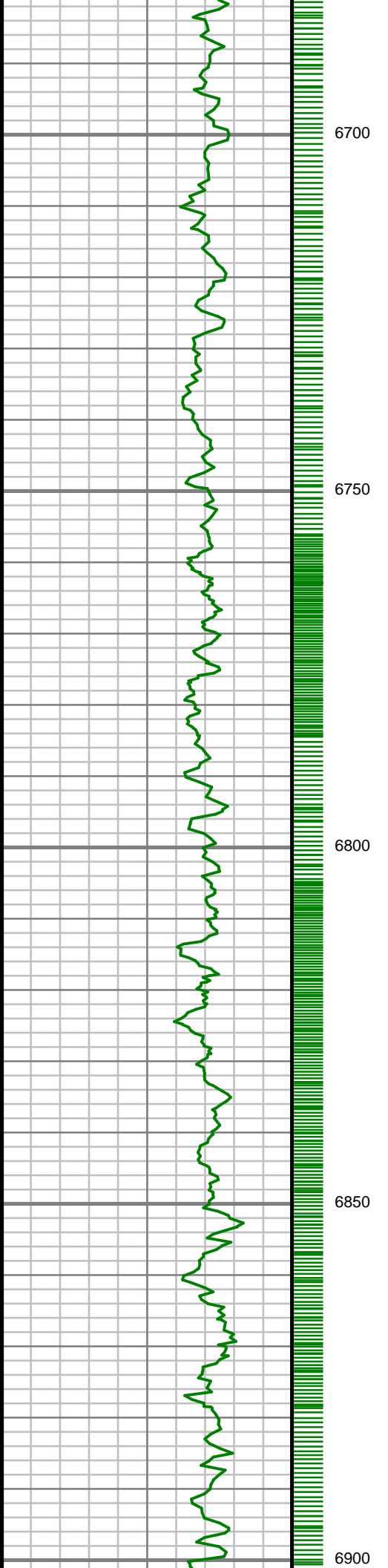
S: 66 MD: 6303.00 ft
Inc: 6.65 deg Az: 6.38
deg TVD: 6107.85 ft

S: 67 MD: 6397.00 ft
Inc: 5.02 deg Az: 2.28
deg TVD: 6201.36 ft



S: 68 MD: 6492.00 ft
Inc: 4.29 deg Az:
353.21 deg TVD:
6296.04 ft

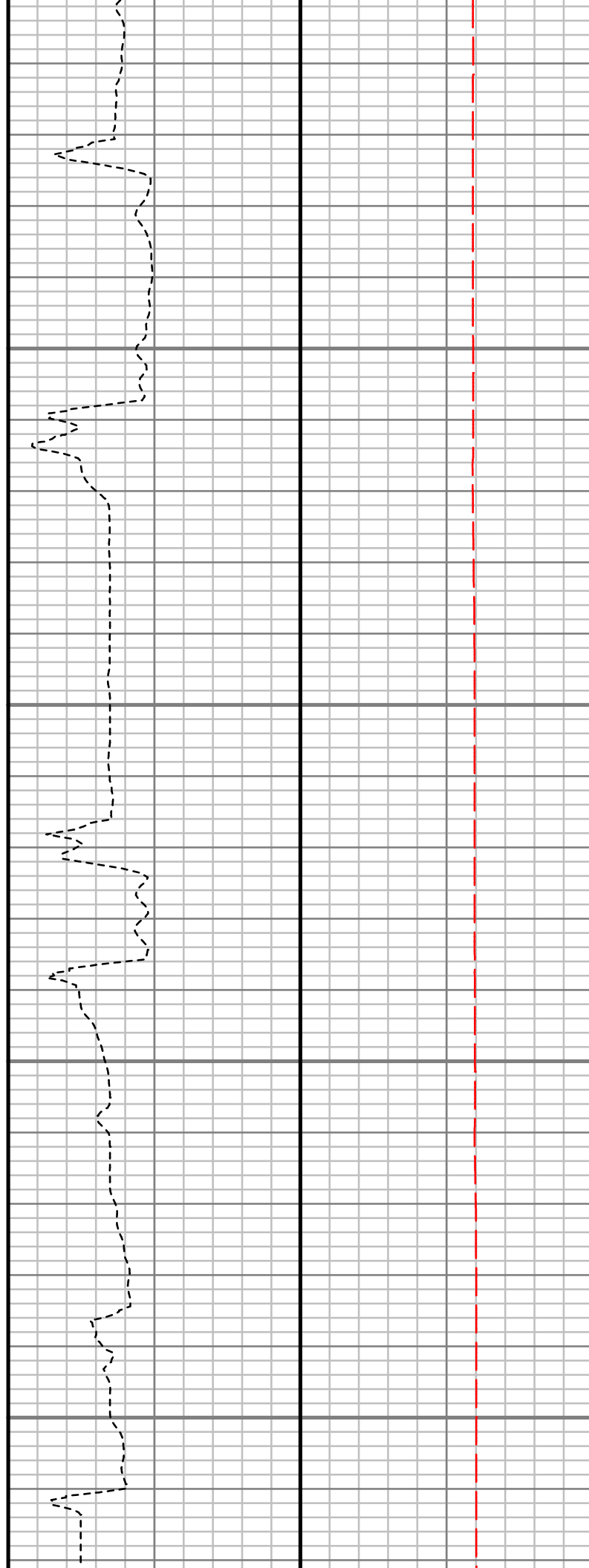
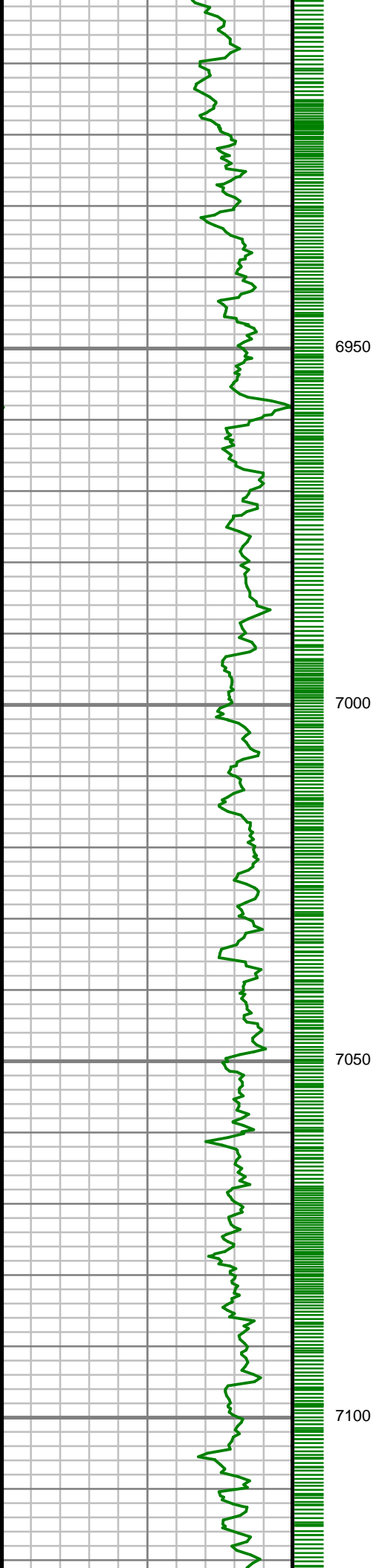
S: 69 MD: 6586.00 ft
Inc: 3.31 deg Az: 49.10
deg TVD: 6389.87 ft



S: 70 MD: 6682.00 ft
Inc: 2.88 deg Az: 57.67
deg TVD: 6485.73 ft

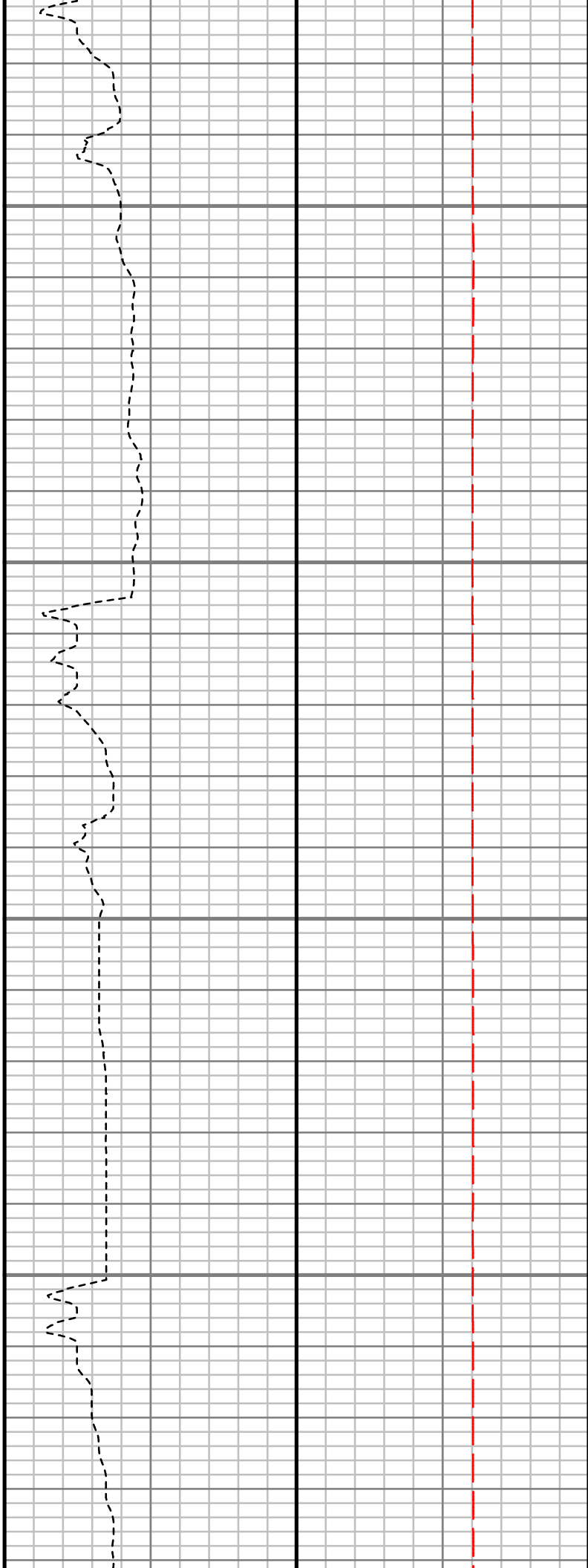
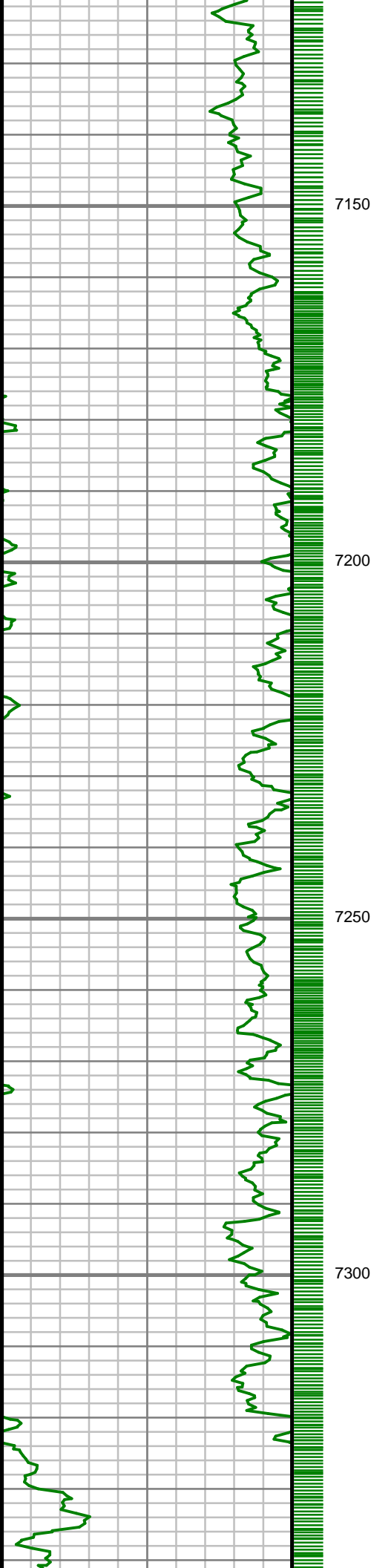
S: 71 MD: 6777.00 ft
Inc: 2.19 deg Az: 74.79
deg TVD: 6580.63 ft

S: 72 MD: 6871.00 ft
Inc: 6.66 deg Az:
160.99 deg TVD:
6674.40 ft



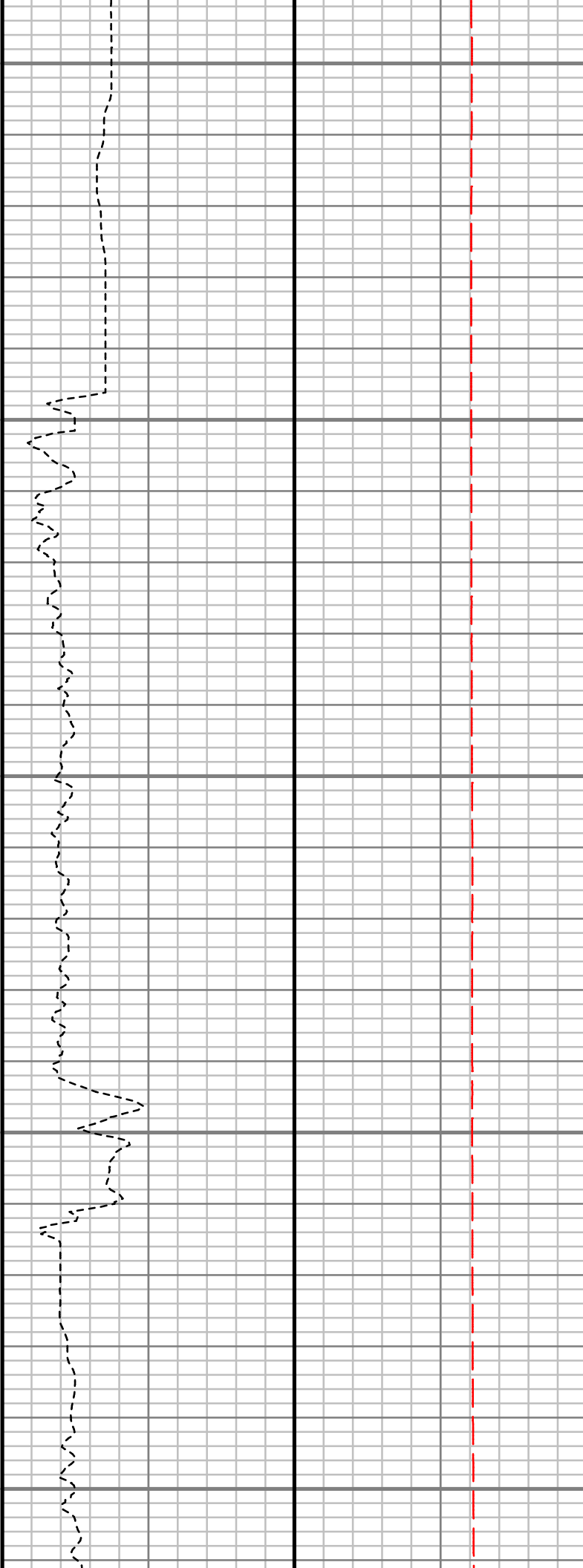
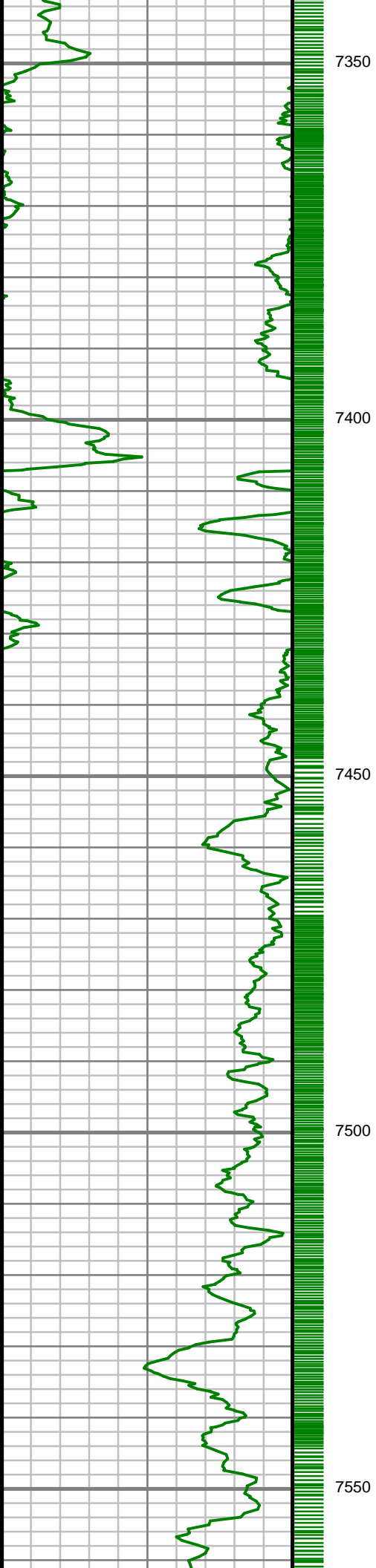
S: 73 MD: 6965.00 ft
Inc: 12.57 deg Az:
153.06 deg TVD:
6767.04 ft

S: 74 MD: 7059.00 ft
Inc: 17.87 deg Az:
169.05 deg TVD:
6857.75 ft



S: 75 MD: 7154.00 ft
Inc: 24.24 deg Az:
177.13 deg TVD:
6946.38 ft

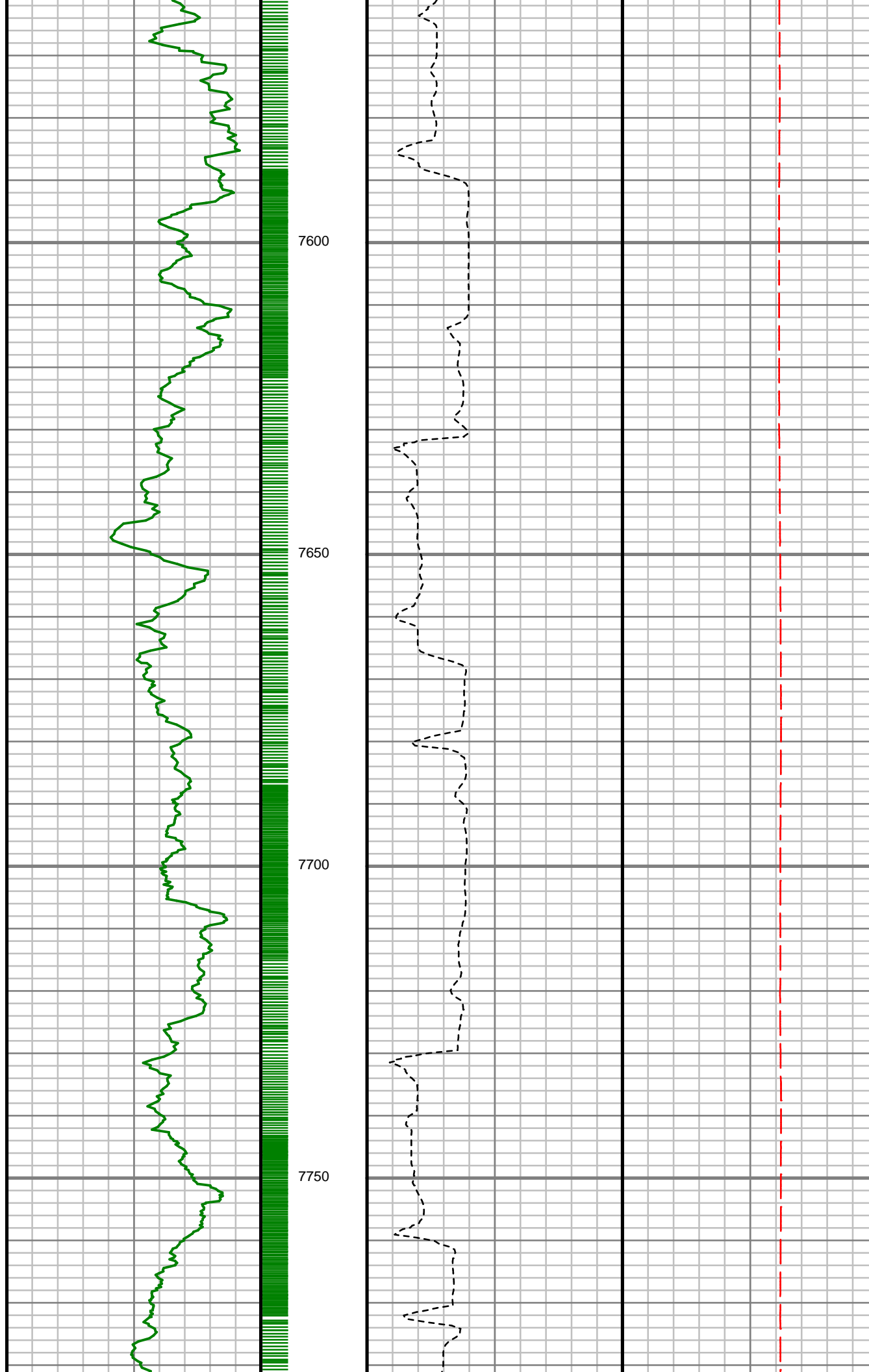
S: 76 MD: 7250.00 ft
Inc: 32.04 deg Az:
179.63 deg TVD:
7030.97 ft



S: 77 MD: 7345.00 ft
Inc: 43.52 deg Az:
182.71 deg TVD:
7105.93 ft

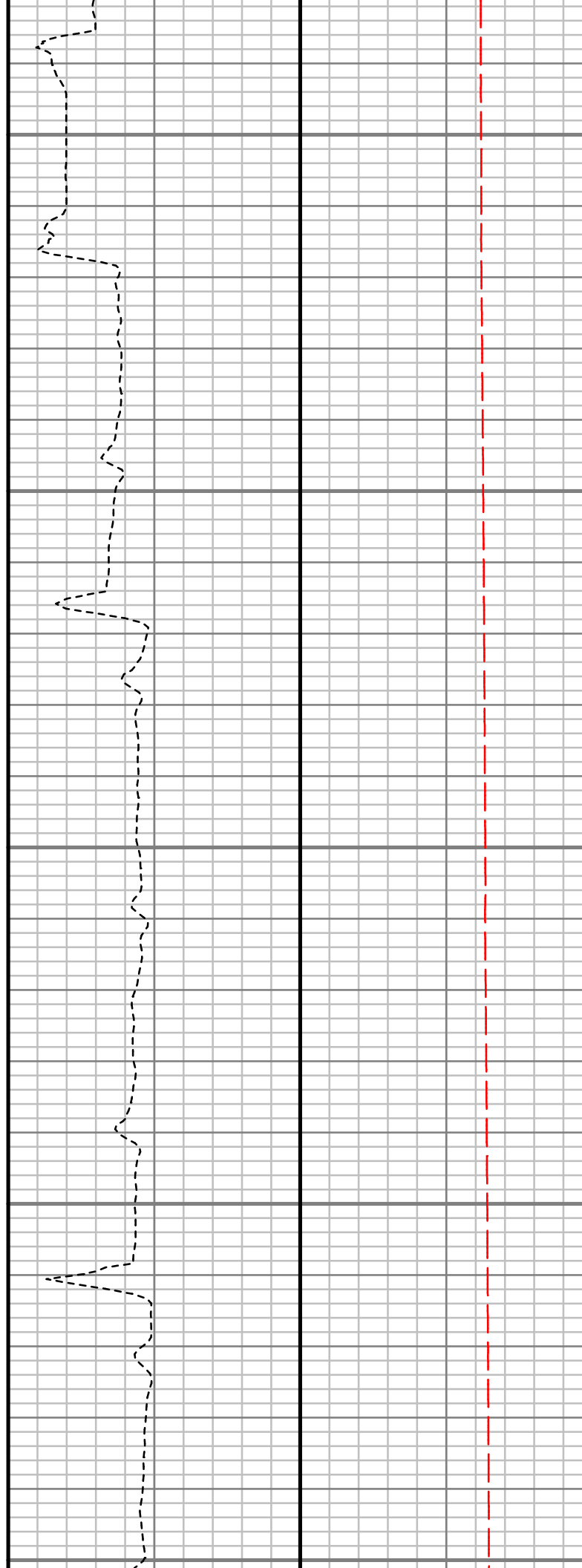
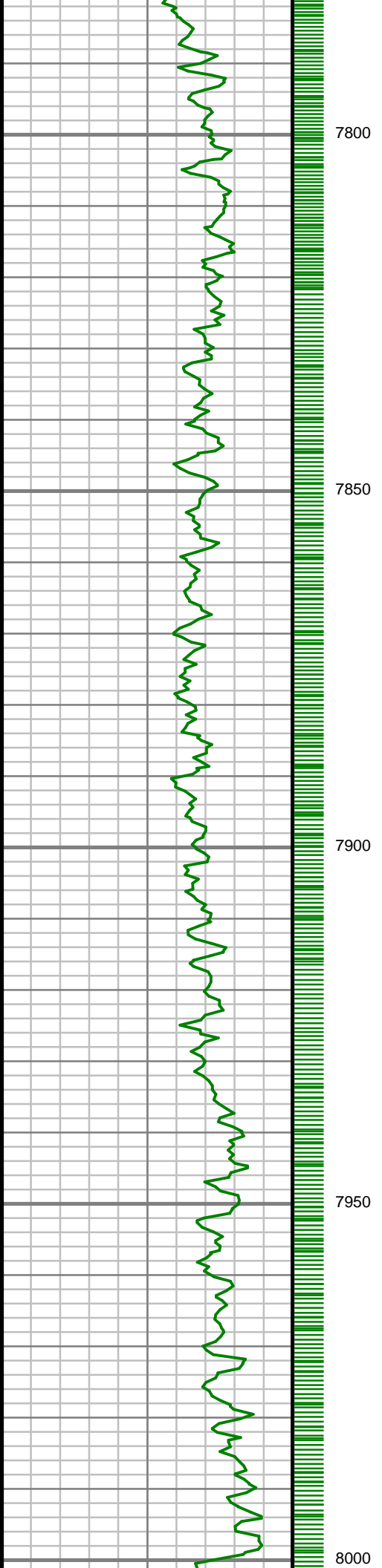
S: 78 MD: 7438.00 ft
Inc: 55.02 deg Az:
181.20 deg TVD:
7166.52 ft

S: 79 MD: 7533.00 ft
Inc: 67.53 deg Az:
179.79 deg TVD:
7212.09 ft



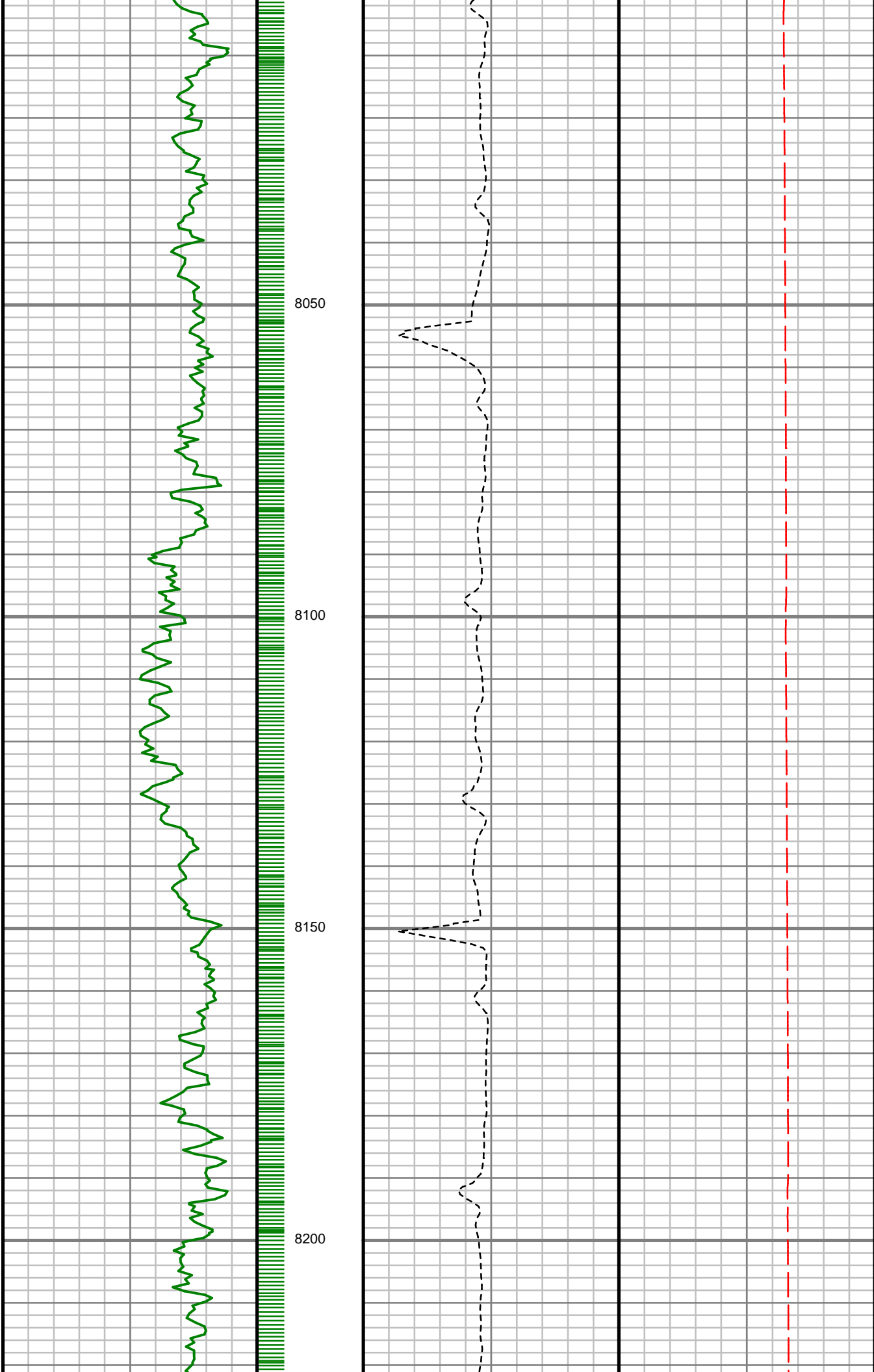
S: 80 MD: 7626.00 ft
Inc: 77.07 deg Az:
179.77 deg TVD:
7240.33 ft

S: 81 MD: 7720.00 ft
Inc: 80.31 deg Az:
180.15 deg TVD:
7258.76 ft



S: 82 MD: 7814.00 ft
Inc: 89.53 deg Az:
179.87 deg TVD:
7267.07 ft

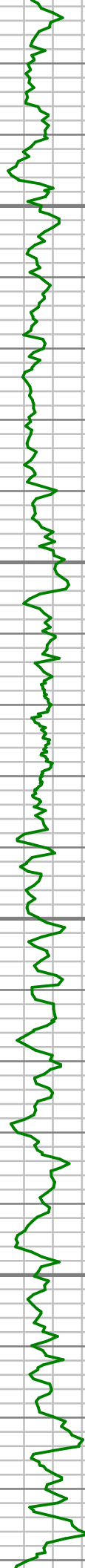
S: 83 MD: 7908.00 ft
Inc: 90.00 deg Az:
179.03 deg TVD:
7267.46 ft



S: 84 MD: 8003.00 ft
Inc: 89.97 deg Az:
178.80 deg TVD:
7267.49 ft

S: 85 MD: 8098.00 ft
Inc: 89.77 deg Az:
178.95 deg TVD:
7267.71 ft

S: 86 MD: 8192.00 ft
Inc: 89.53 deg Az:
178.46 deg TVD:
7268.29 ft

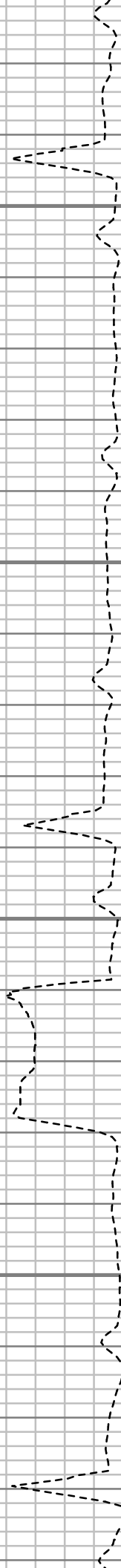


8250

8300

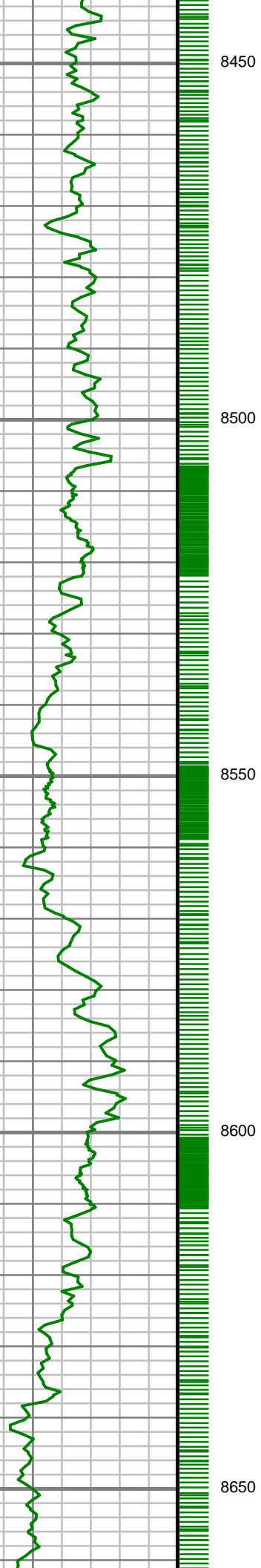
8350

8400



S: 87 MD: 8285.00 ft
Inc: 89.43 deg Az:
177.57 deg TVD:
7269.13 ft

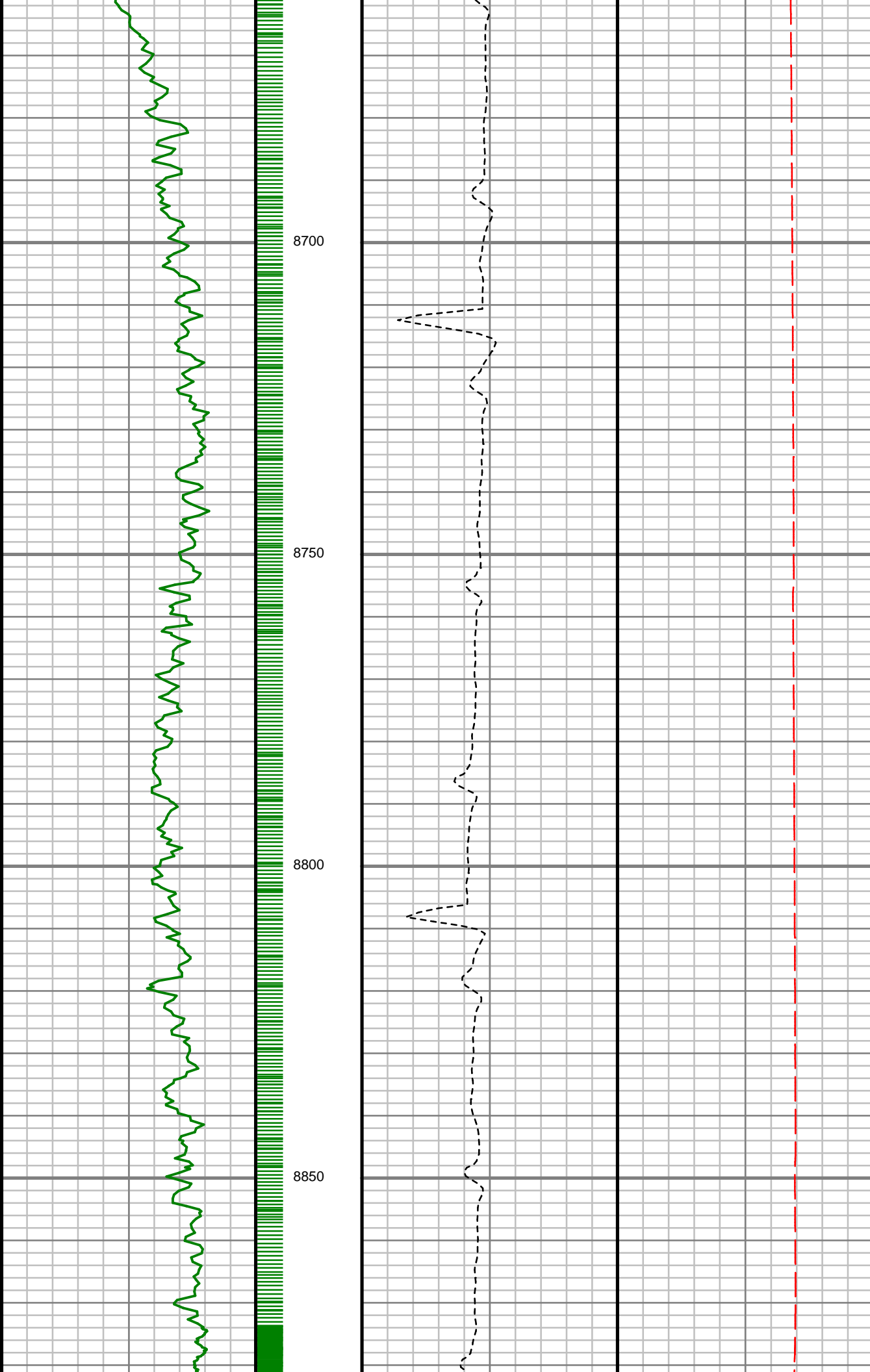
S: 88 MD: 8377.00 ft
Inc: 90.67 deg Az:
180.13 deg TVD:
7269.05 ft



S: 89 MD: 8470.00 ft
Inc: 92.18 deg Az:
180.39 deg TVD:
7266.73 ft

S: 90 MD: 8565.00 ft
Inc: 91.88 deg Az:
179.49 deg TVD:
7263.37 ft

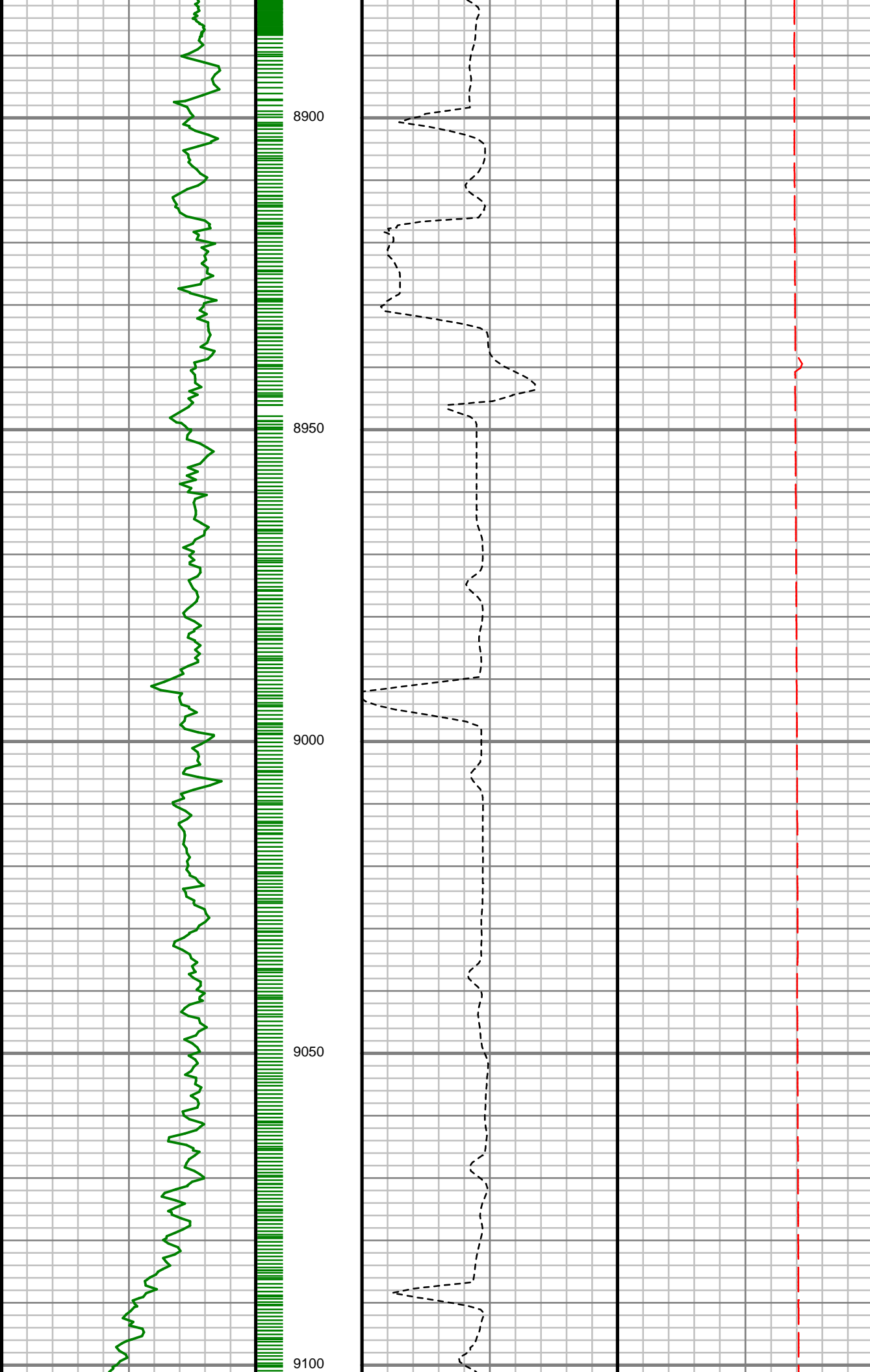
S: 91 MD: 8659.00 ft



Inc: 88.72 deg Az:
177.78 deg TVD:
7262.87 ft

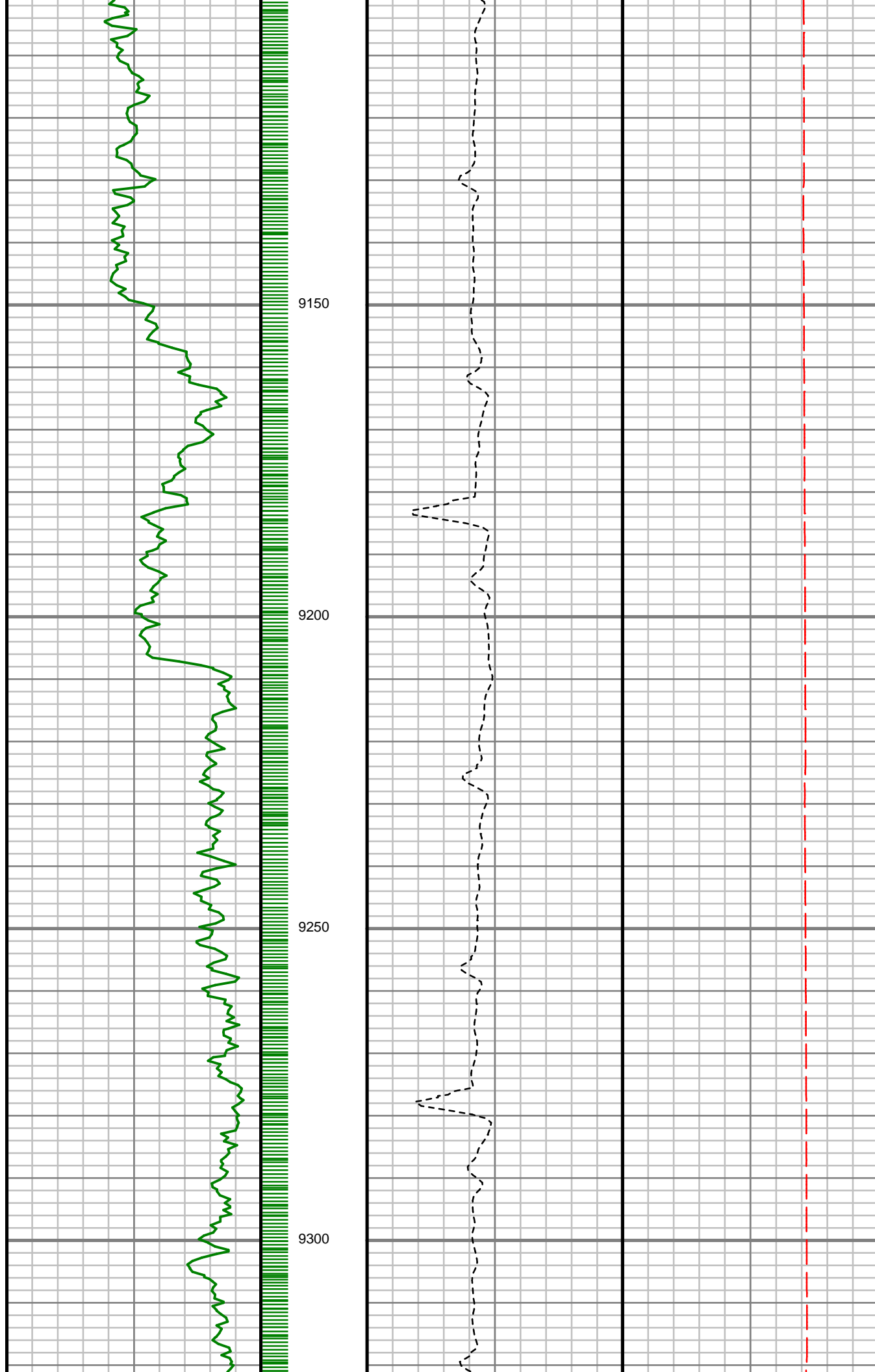
S: 92 MD: 8754.00 ft
Inc: 88.56 deg Az:
177.87 deg TVD:
7265.12 ft

S: 93 MD: 8847.00 ft
Inc: 90.00 deg Az:
177.96 deg TVD:
7266.29 ft



S: 94 MD: 8941.00 ft
Inc: 88.32 deg Az:
179.30 deg TVD:
7267.67 ft

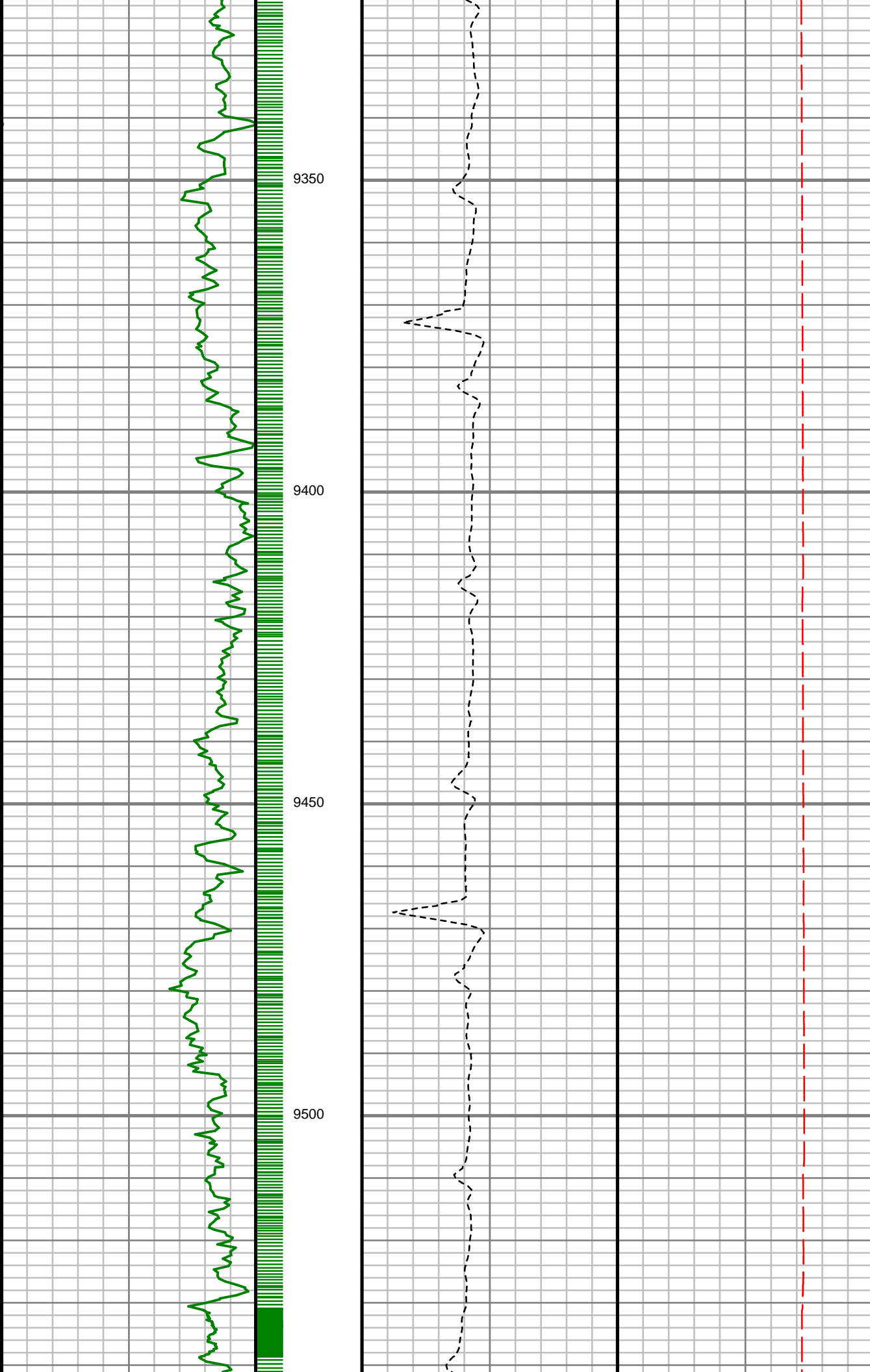
S: 95 MD: 9034.00 ft
Inc: 88.79 deg Az:
180.18 deg TVD:
7270.01 ft



S: 96 MD: 9128.00 ft
Inc: 89.46 deg Az:
180.10 deg TVD:
7271.44 ft

S: 97 MD: 9222.00 ft
Inc: 89.36 deg Az:
180.09 deg TVD:
7272.41 ft

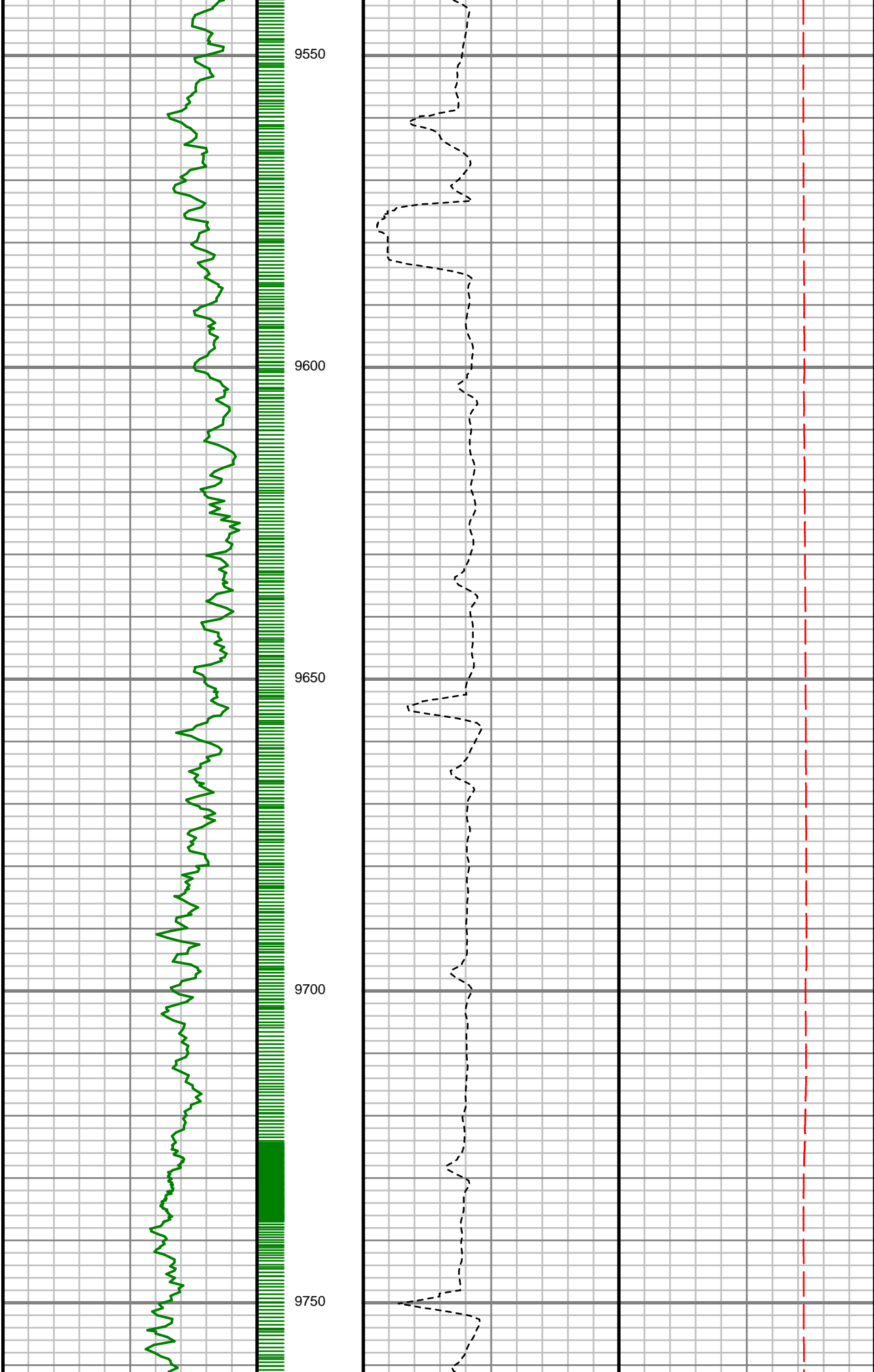
S: 98 MD: 9317.00 ft
Inc: 89.13 deg Az:



S: 98 MD: 9350.00 ft
Inc: 88.70 deg Az:
180.14 deg TVD:
7273.66 ft

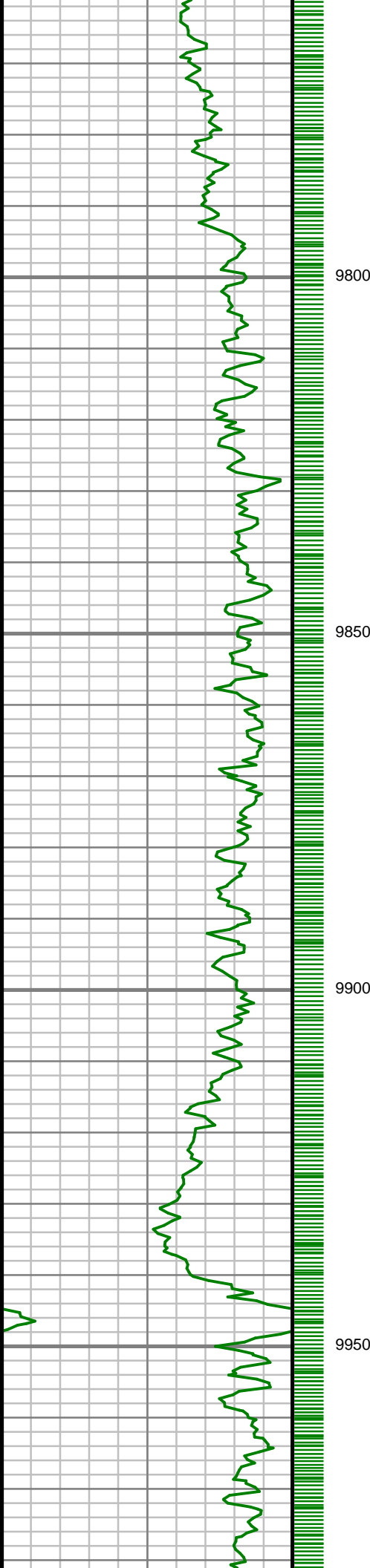
S: 99 MD: 9411.00 ft
Inc: 88.72 deg Az:
180.49 deg TVD:
7275.42 ft

S: 100 MD: 9505.00 ft
Inc: 88.26 deg Az:
180.50 deg TVD:
7277.90 ft



S: 101 MD: 9599.00 ft
Inc: 89.03 deg Az:
180.36 deg TVD:
7280.13 ft

S: 102 MD: 9693.00 ft
Inc: 88.69 deg Az:
180.48 deg TVD:
7282.00 ft

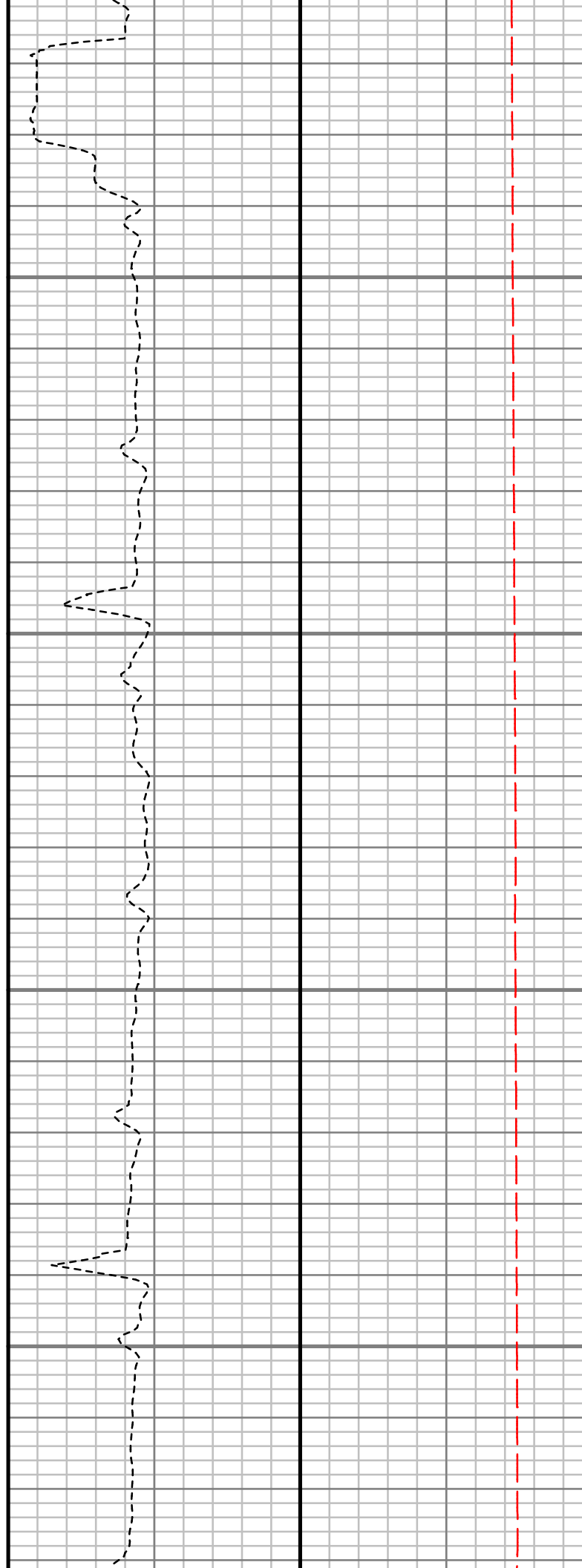


9800

9850

9900

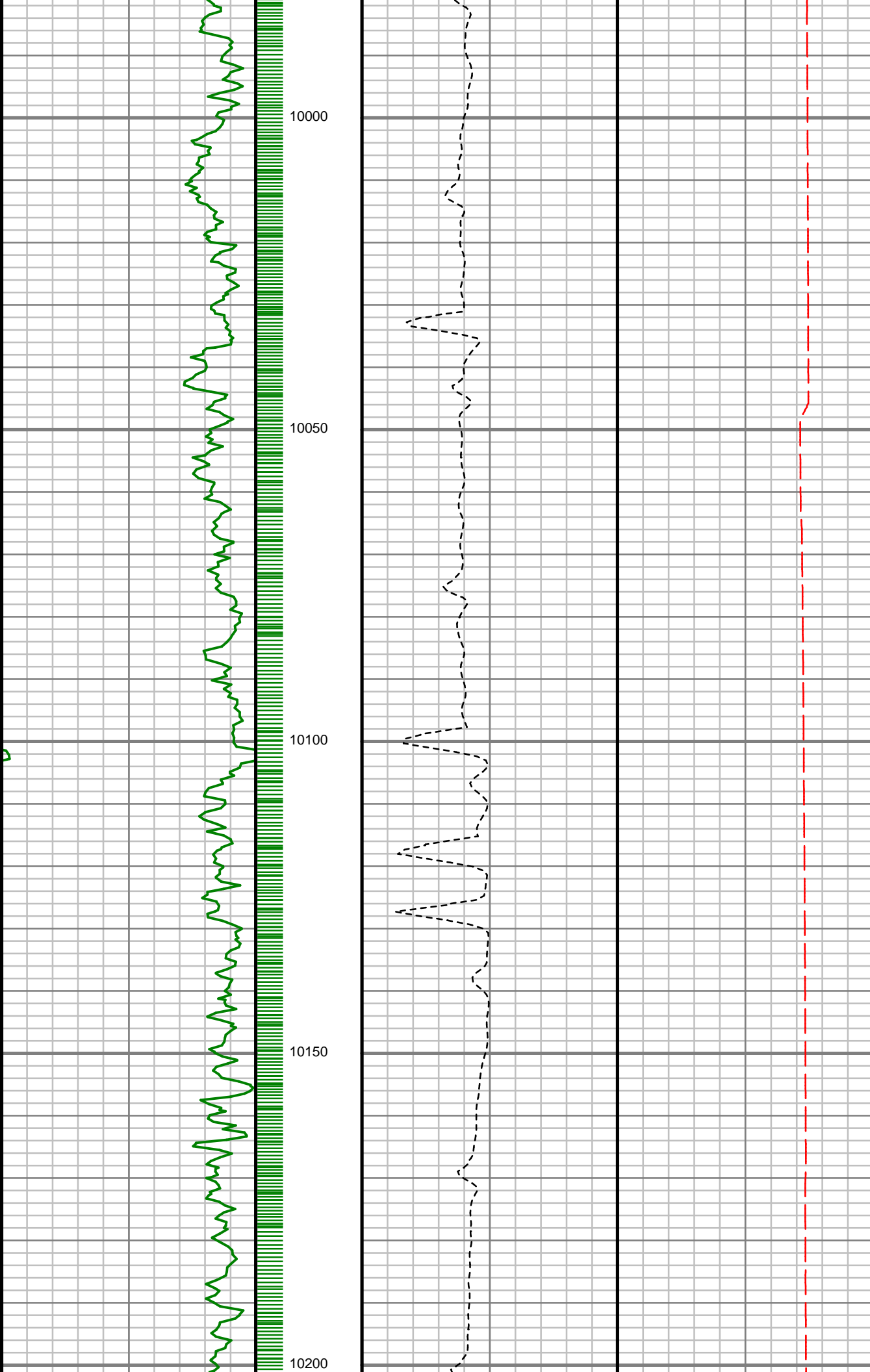
9950



S: 103 MD: 9788.00 ft
Inc: 90.87 deg Az:
179.81 deg TVD:
7282.36 ft

S: 104 MD: 9881.00 ft
Inc: 90.94 deg Az:
179.11 deg TVD:
7280.89 ft

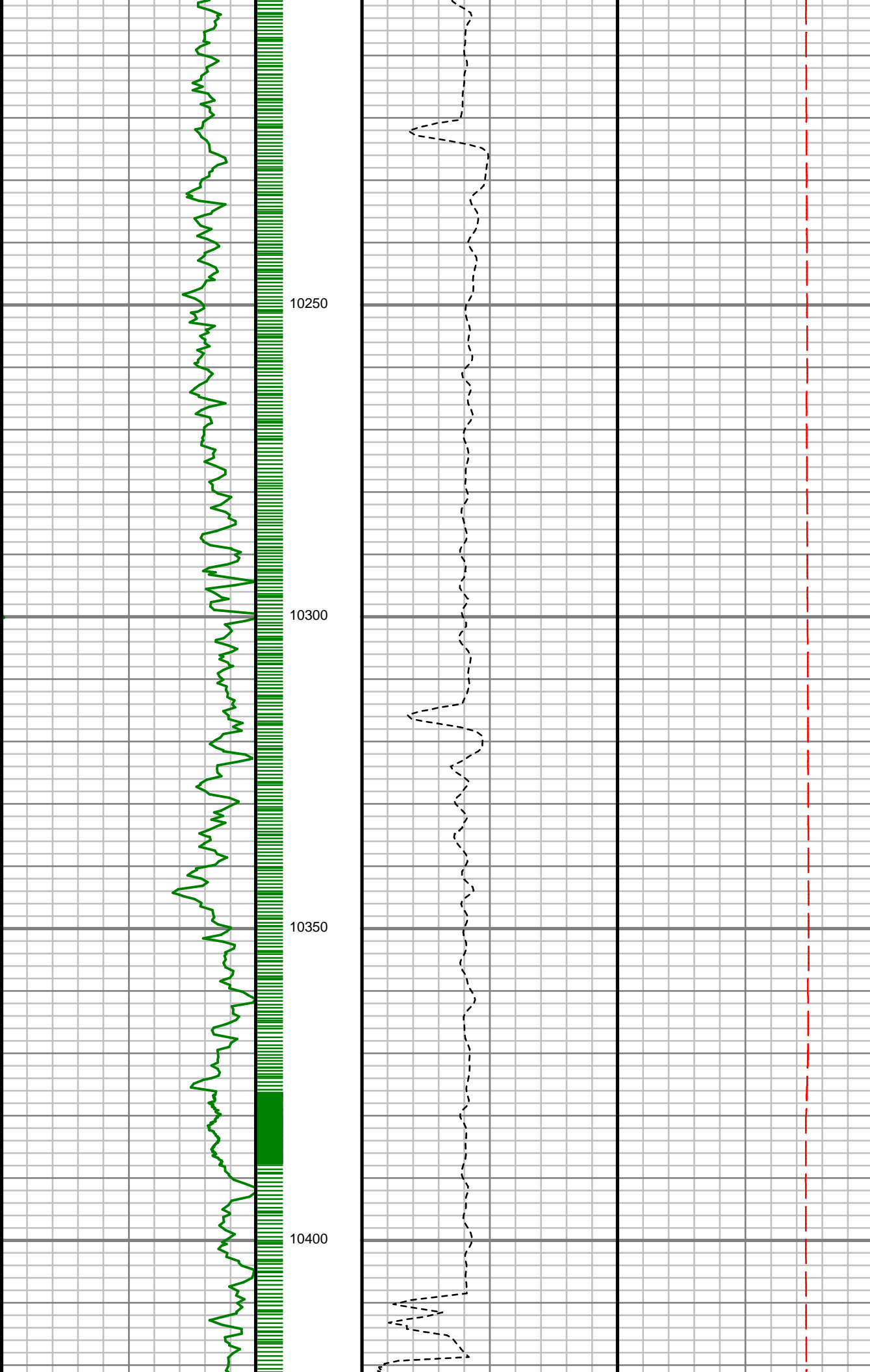
S: 105 MD: 9976.00 ft
Inc: 91.07 deg Az:



179.94 deg TVD:
7279.22 ft

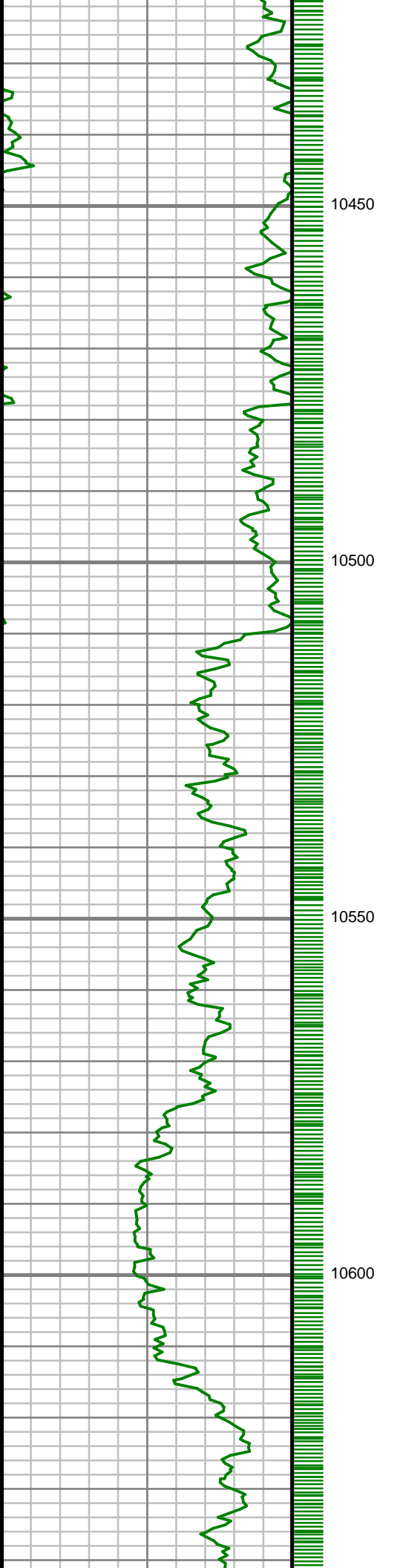
S: 106 MD: 10069.00 ft
Inc: 90.44 deg Az:
180.07 deg TVD:
7277.99 ft

S: 107 MD: 10164.00 ft
Inc: 90.44 deg Az:
180.72 deg TVD:
7277.27 ft



S: 108 MD: 10258.00 ft
Inc: 89.76 deg Az:
179.93 deg TVD:
7277.10 ft

S: 109 MD: 10351.00 ft
Inc: 89.93 deg Az:
180.10 deg TVD:
7277.35 ft



10450

10500

10550

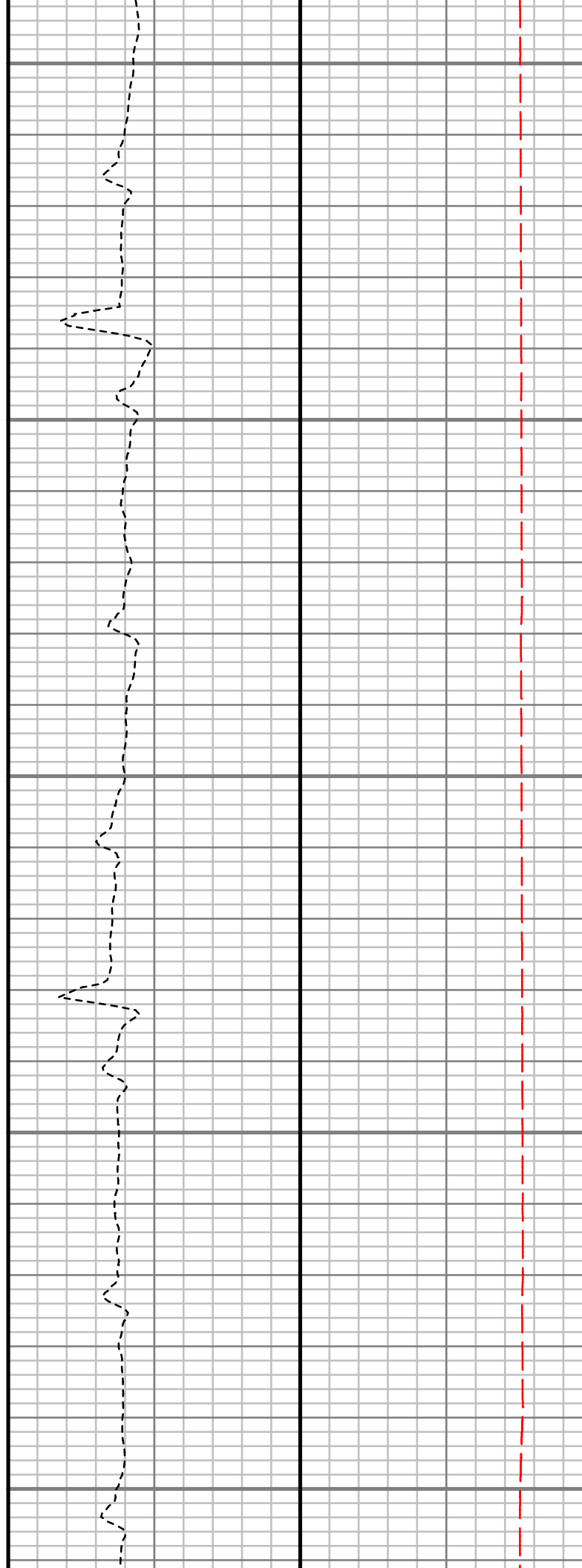
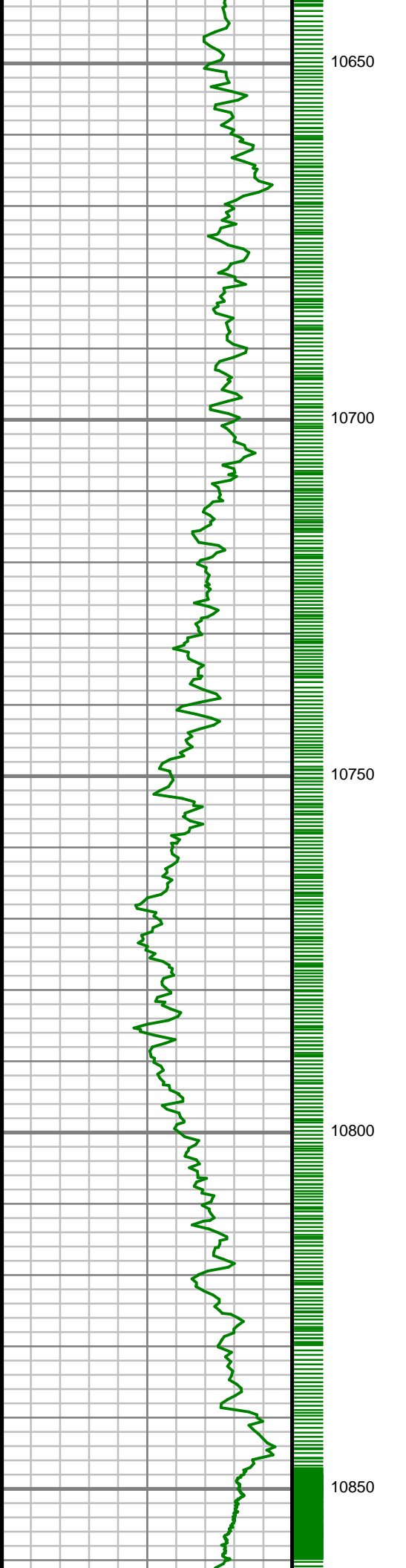
10600



S: 110 MD: 10445.00 ft
Inc: 90.74 deg Az:
178.08 deg TVD:
7276.80 ft

S: 111 MD: 10540.00 ft
Inc: 90.94 deg Az:
177.40 deg TVD:
7275.40 ft

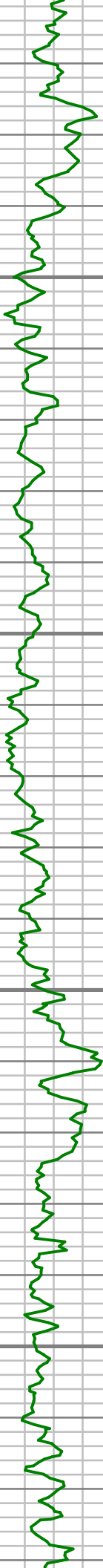
S: 112 MD: 10634.00 ft
Inc: 91.17 deg Az:
177.60 deg TVD:



7273.67 ft

S: 113 MD: 10727.00 ft
Inc: 90.71 deg Az:
177.10 deg TVD:
7272.14 ft

S: 114 MD: 10821.00 ft
Inc: 90.81 deg Az:
176.76 deg TVD:
7270.90 ft

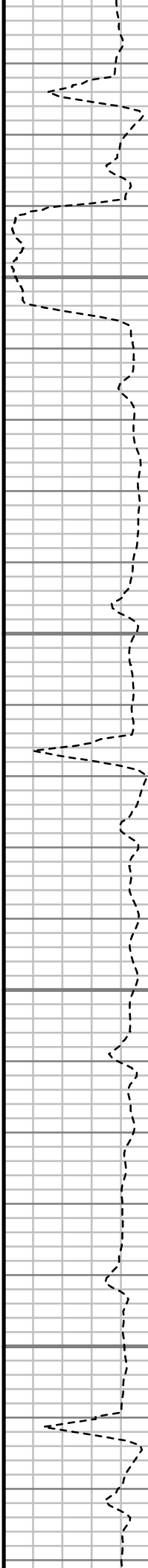


10900

10950

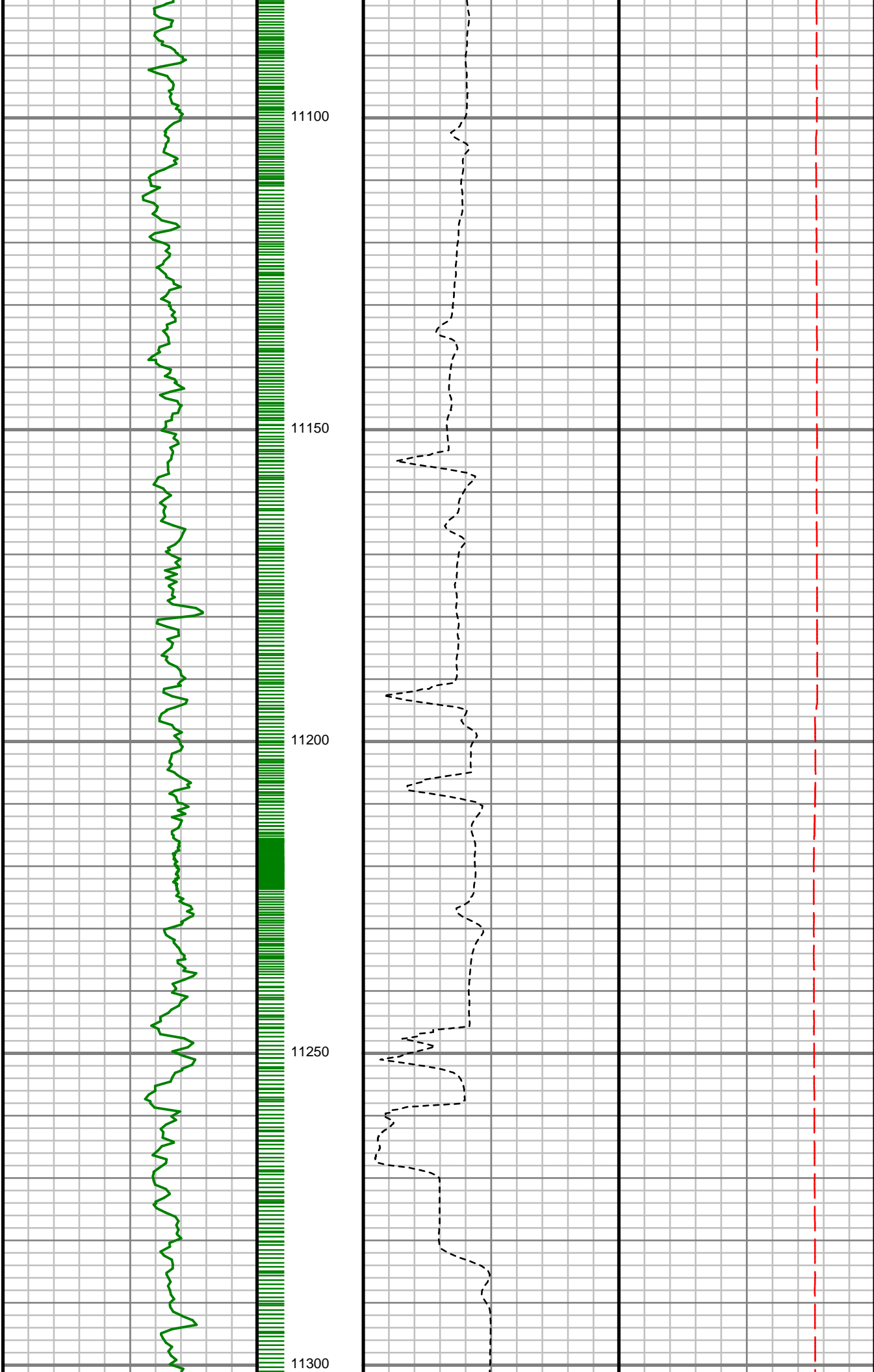
11000

11050



S: 115 MD: 10914.00 ft
Inc: 90.94 deg Az:
178.25 deg TVD:
7269.48 ft

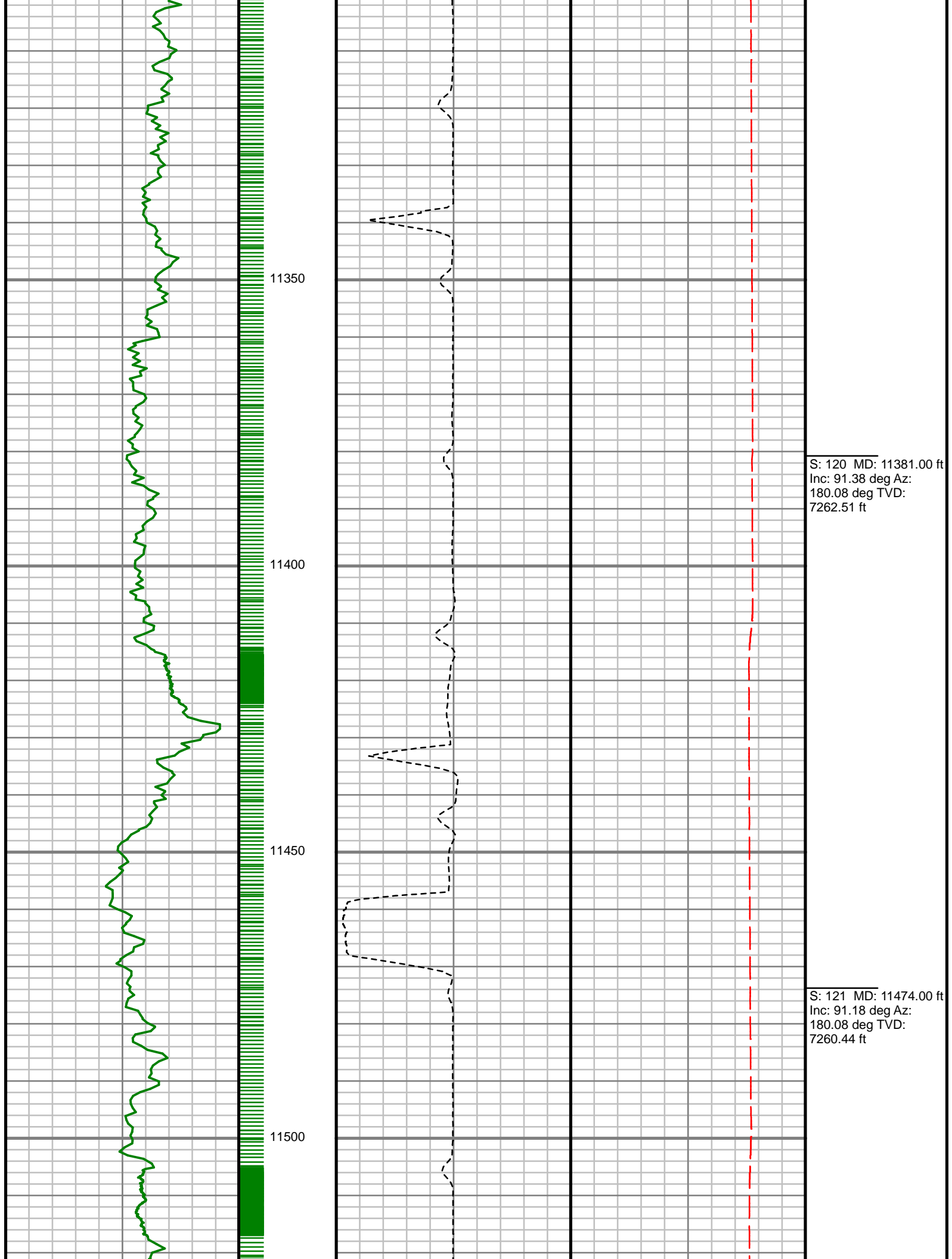
S: 116 MD: 11008.00 ft
Inc: 90.71 deg Az:
178.49 deg TVD:
7268.13 ft

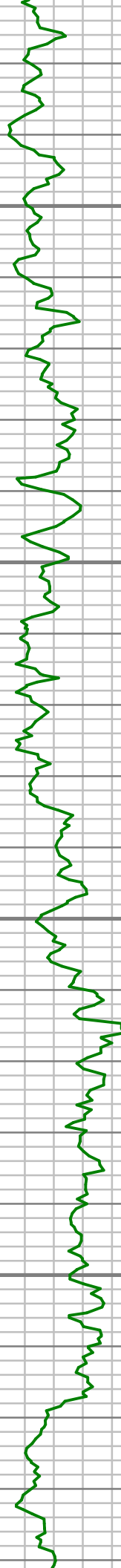


S: 117 MD: 11102.00 ft
Inc: 90.81 deg Az:
178.98 deg TVD:
7266.89 ft

S: 118 MD: 11194.00 ft
Inc: 91.34 deg Az:
179.74 deg TVD:
7265.17 ft

S: 119 MD: 11287.00 ft
Inc: 90.27 deg Az:
179.99 deg TVD:
7263.86 ft



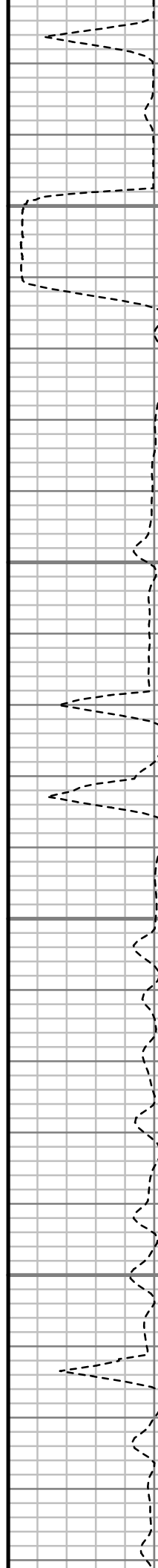


11550

11600

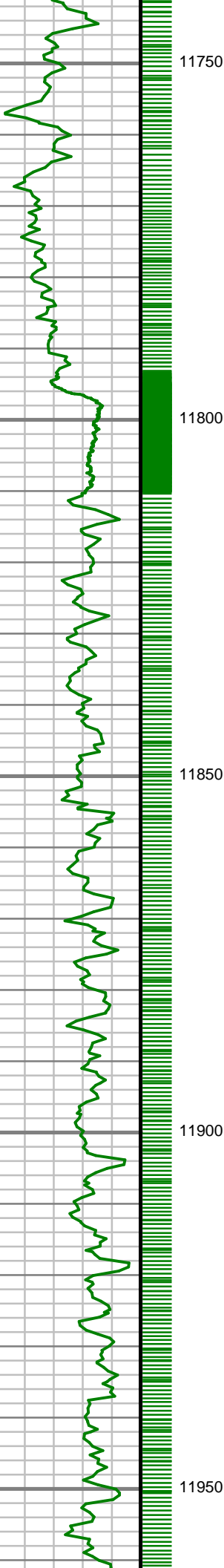
11650

11700



S: 122 MD: 11567.00 ft
Inc: 89.80 deg Az:
179.24 deg TVD:
7259.65 ft

S: 123 MD: 11660.00 ft
Inc: 90.54 deg Az:
179.78 deg TVD:
7259.38 ft



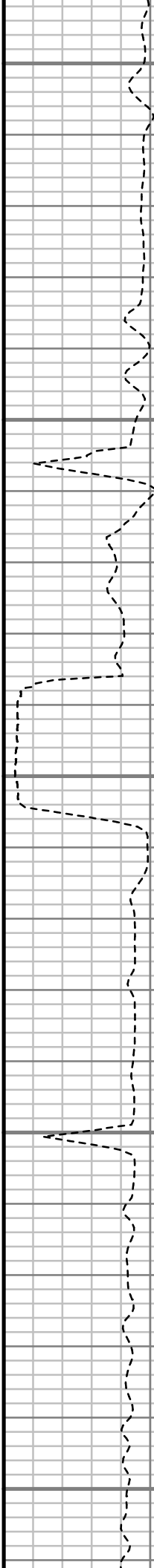
11750

11800

11850

11900

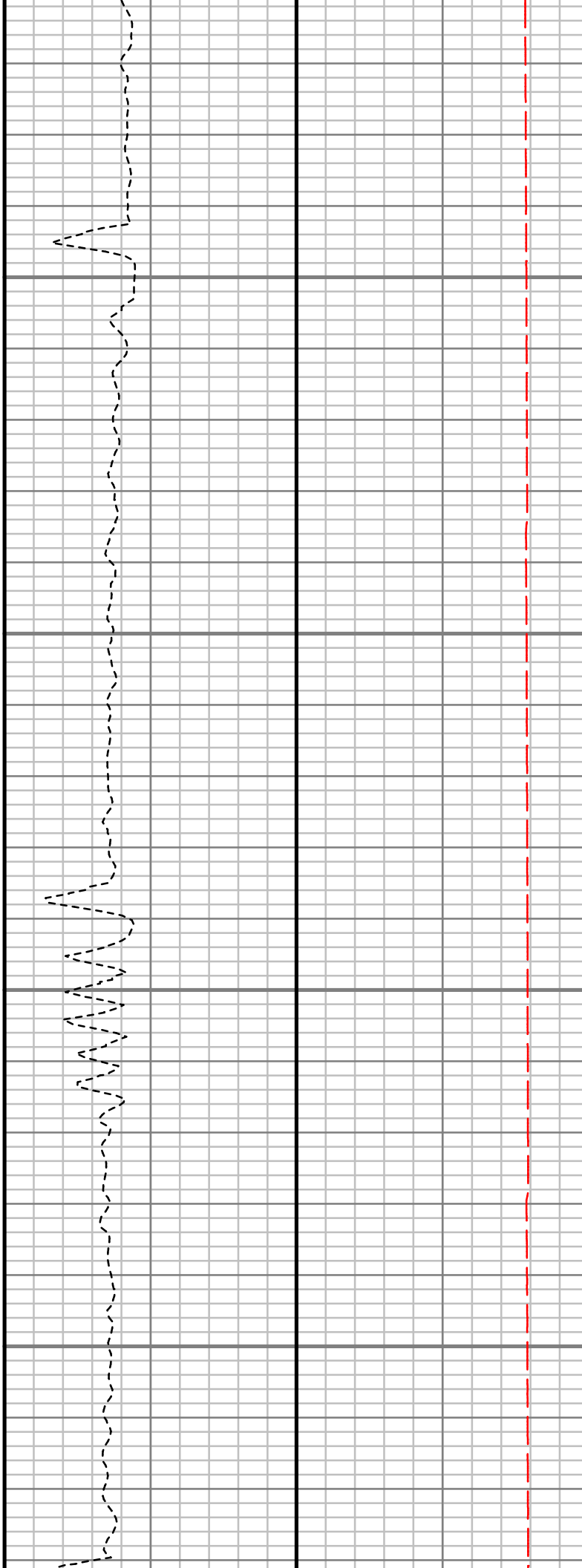
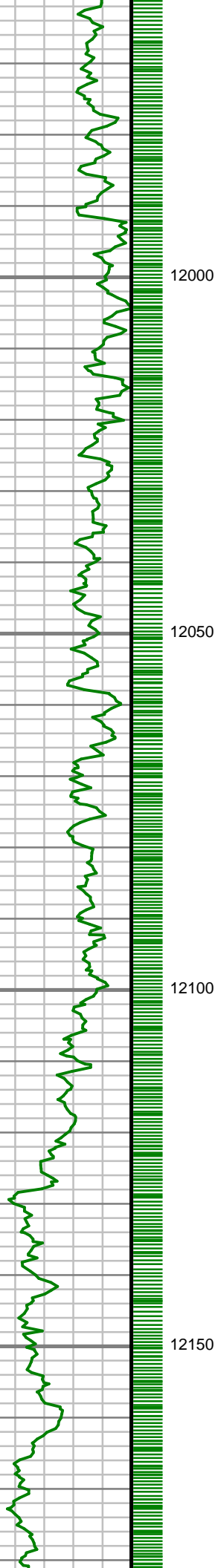
11950



S: 124 MD: 11753.00 ft
Inc: 91.38 deg Az:
179.07 deg TVD:
7257.83 ft

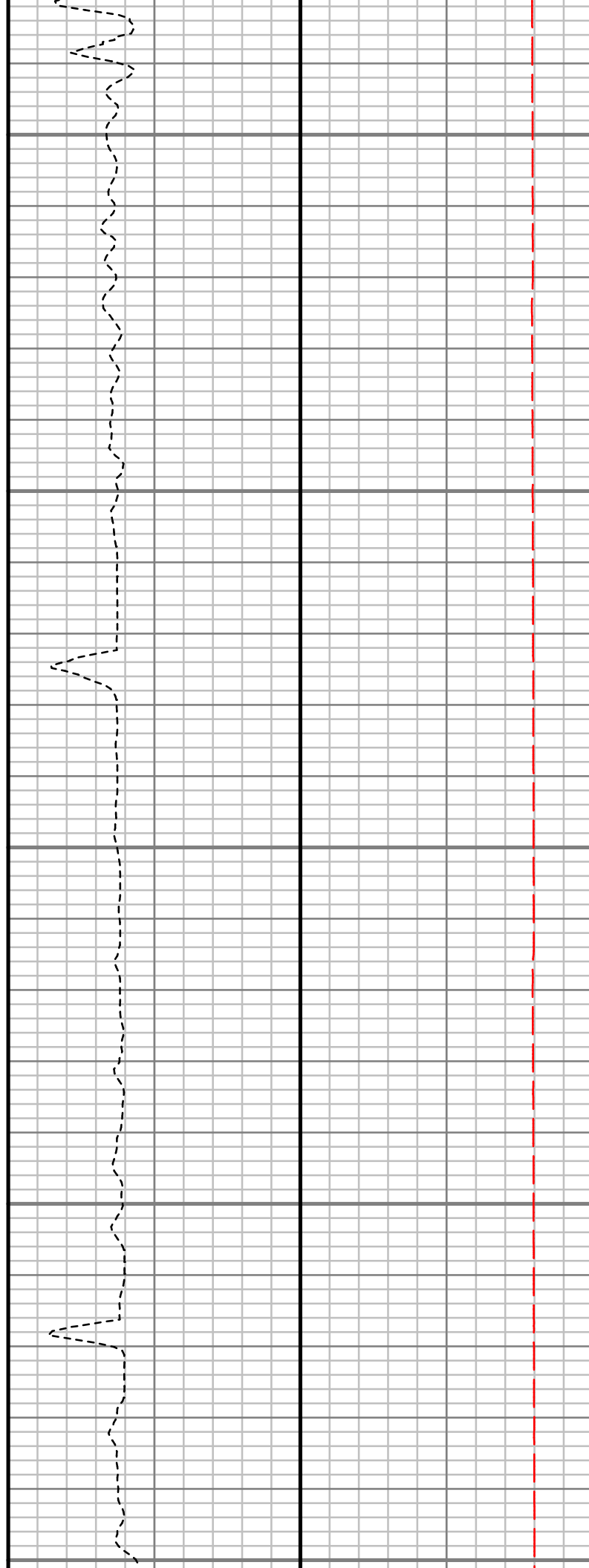
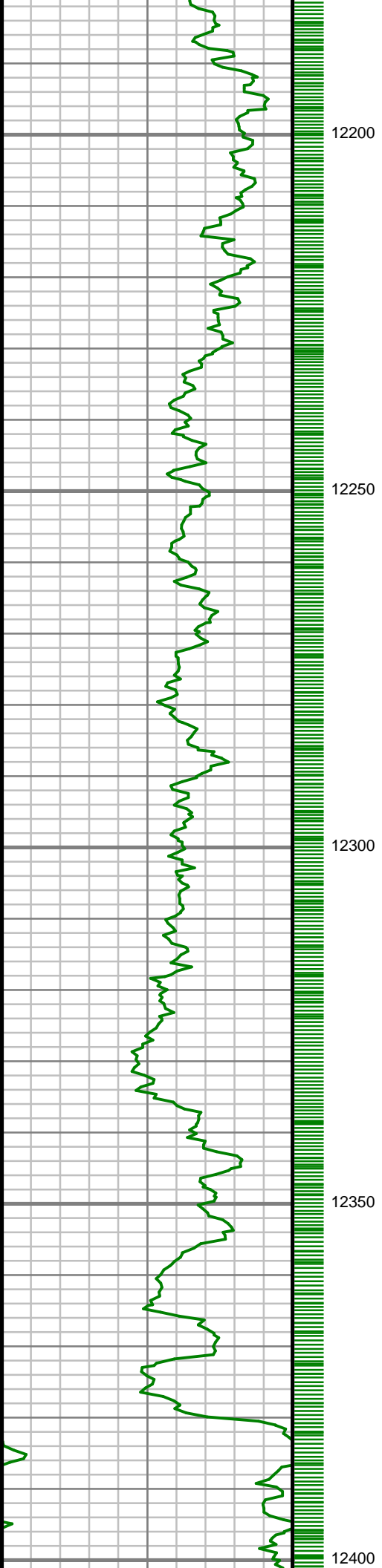
S: 125 MD: 11847.00 ft
Inc: 90.20 deg Az:
178.63 deg TVD:
7256.53 ft

S: 126 MD: 11941.00 ft
Inc: 89.73 deg Az:
178.88 deg TVD:
7256.59 ft



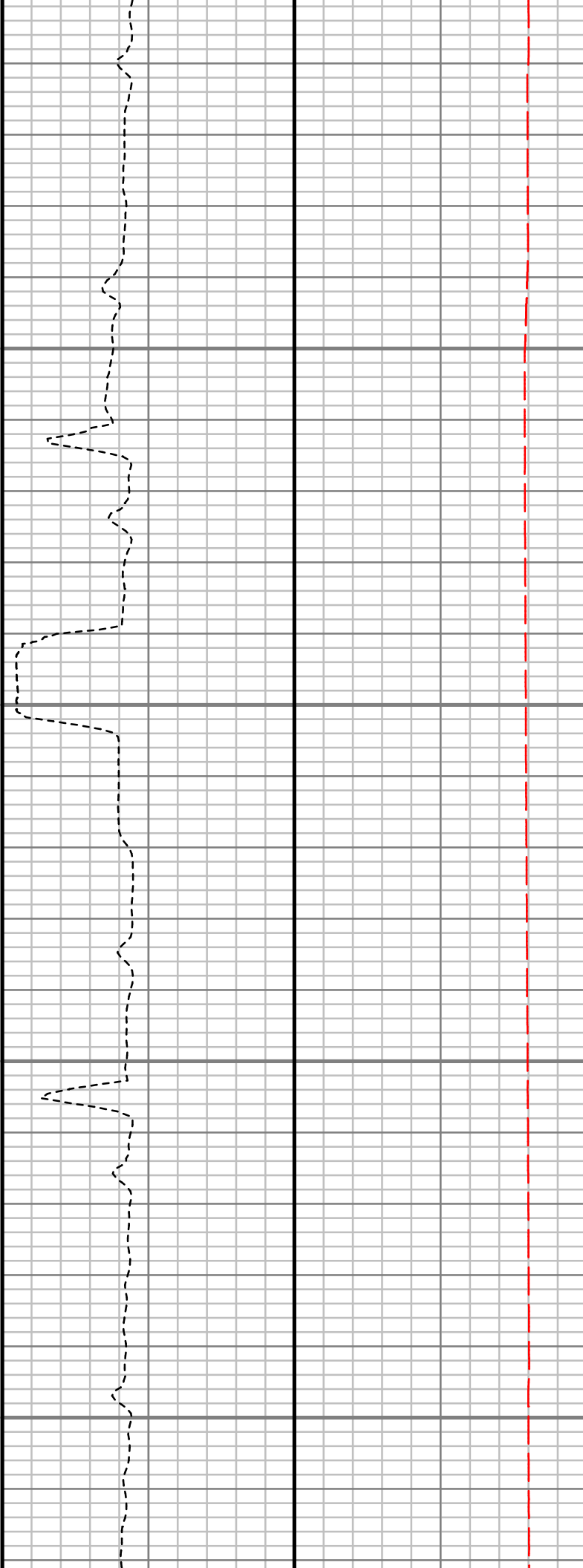
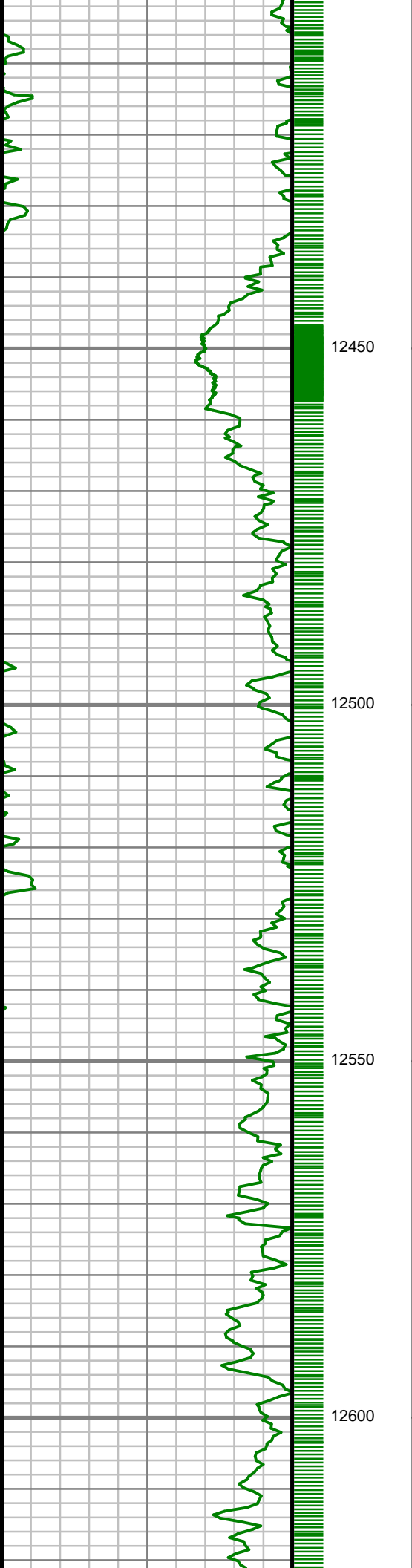
S: 127 MD: 12034.00 ft
Inc: 89.83 deg Az:
178.80 deg TVD:
7256.94 ft

S: 128 MD: 12127.00 ft
Inc: 89.80 deg Az:
178.71 deg TVD:
7257.24 ft



S: 129 MD: 12222.00 ft
Inc: 89.16 deg Az:
178.69 deg TVD:
7258.10 ft

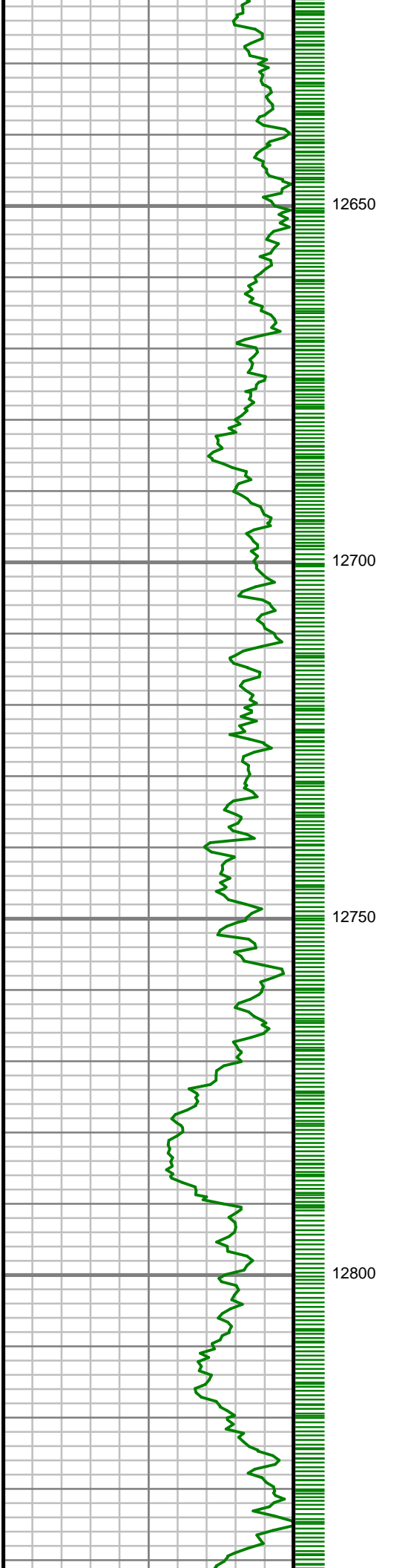
S: 130 MD: 12316.00 ft
Inc: 88.69 deg Az:
178.84 deg TVD:
7259.86 ft



S: 131 MD: 12410.00 ft
Inc: 87.95 deg Az:
179.45 deg TVD:
7262.62 ft

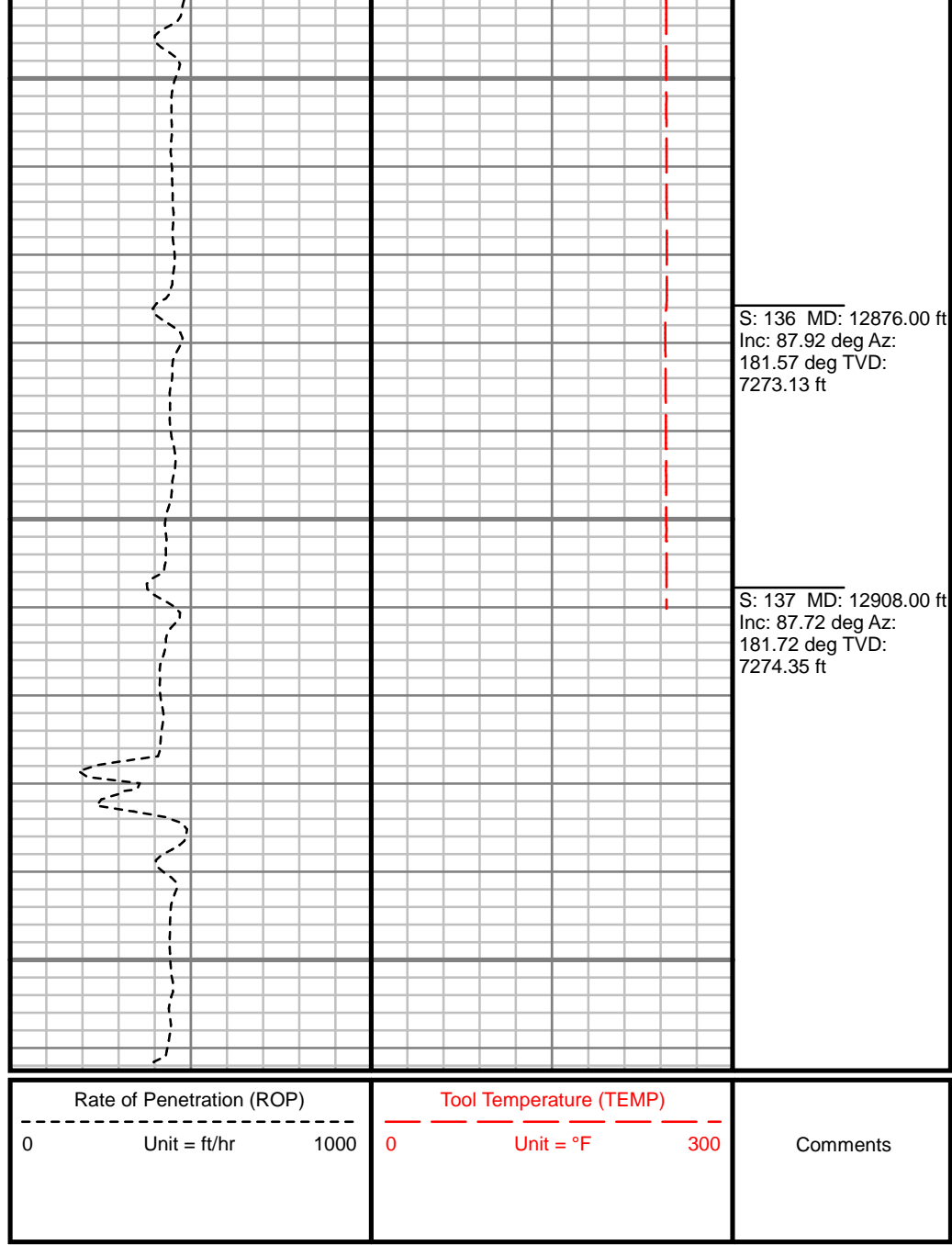
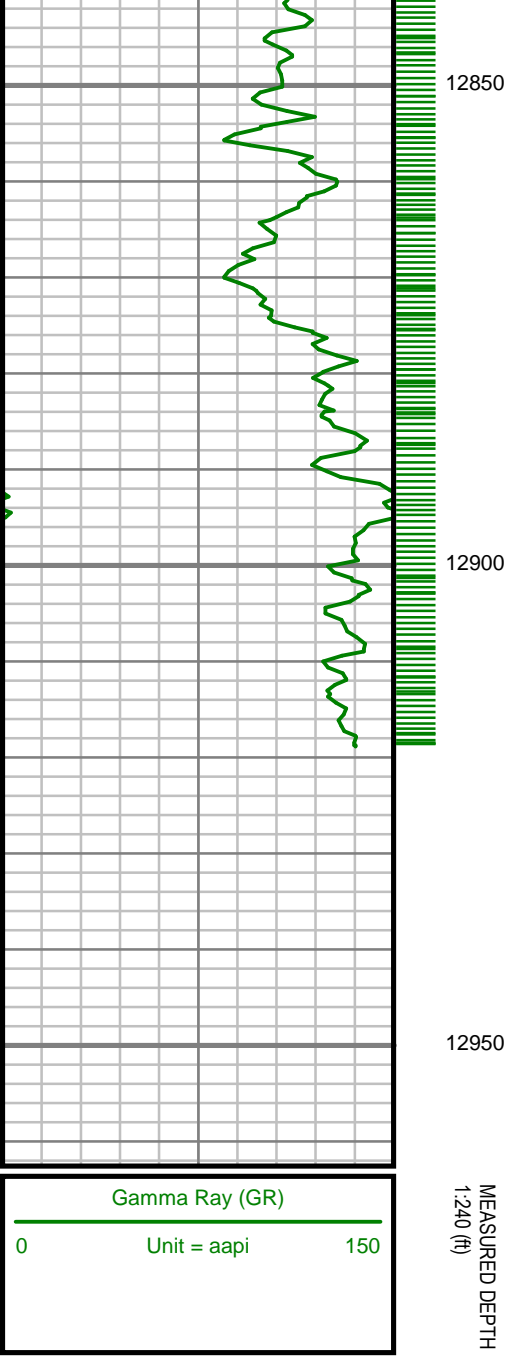
S: 132 MD: 12502.00 ft
Inc: 89.09 deg Az:
180.69 deg TVD:
7264.99 ft

S: 133 MD: 12595.00 ft
Inc: 89.16 deg Az:
180.99 deg TVD:
7266.41 ft



S: 134 MD: 12688.00 ft
Inc: 88.86 deg Az:
181.04 deg TVD:
7268.01 ft

S: 135 MD: 12783.00 ft
Inc: 88.49 deg Az:
181.40 deg TVD:
7270.21 ft



SURVEY REPORT

LAND 37N-32HZ

LAND 37N-32HZ

CUSTOMER ANADARKO E&P ONSHORE LLC
PROJECT LAND
FIELD WATTENBERG

WELL INFORMATION

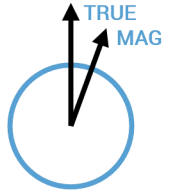
Lat/Long 40° 5' 57.394" N, 104° 47' 51.792" W
Northing 14,562,948.5 ft
Easting 1,696,983.27 ft
UWI 05123423010000

MAP INFORMATION

North Reference True North
Grid Correction
System Universal Transverse Mercator (US Survey Feet)
Datum North American Datum 1983 (GRS 1980)
Map Zone Zone 13N (108 W to 102 W)

VERTICAL SECTION REFERENCE

+N/-S 0 ft
+E/-W 0 ft
Proposal Direction 179.25°
Calculation Method Minimum Curvature



GEOMAGNETIC REFERENCE INFORMATION

Local Gravity: 999.045 mG [computed]

MD	MODEL	DATE	DECLINATION	MAG TO TRUE
0-1503 ft	ANADARKO MAG VAR	18 Jul 2016	8.30°	add 8.3°
1503-4016 ft	ANADARKO MAG VAR	25 Jul 2016	8.31°	add 8.31°
4016-5928 ft	ANADARKO MAG VAR	27 Jul 2016	8.33°	add 8.33°

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
210.00	0.46	48.63	210.00	-0.55	0.55	0.63	0.22
303.00	1.46	14.90	302.98	-1.93	1.95	1.21	1.19
397.00	2.32	14.25	396.93	-4.92	4.94	1.99	0.91
490.00	2.86	12.04	489.84	-9.00	9.04	2.94	0.60
583.00	4.61	5.61	582.64	-14.98	15.03	3.79	1.93
677.00	6.02	4.41	676.23	-23.65	23.71	4.53	1.50
770.00	8.07	3.16	768.52	-35.02	35.09	5.27	2.21
864.00	9.31	4.88	861.44	-49.17	49.26	6.28	1.35
957.00	10.91	3.79	952.99	-65.43	65.53	7.50	1.73
1050.00	11.92	3.06	1044.15	-83.78	83.90	8.60	1.10
1144.00	12.99	1.47	1135.94	-104.02	104.15	9.39	1.19
1239.00	14.45	359.66	1228.23	-126.54	126.68	9.59	1.60
1334.00	15.05	359.90	1320.10	-150.73	150.87	9.50	0.64
1429.00	15.89	1.06	1411.65	-176.07	176.22	9.72	0.94
1503.00	16.47	0.86	1482.72	-196.69	196.83	10.06	0.78
1570.00	16.92	2.39	1546.90	-215.92	216.08	10.61	0.94
1663.00	17.56	2.10	1635.72	-243.45	243.62	11.69	0.69
1758.00	16.96	357.87	1726.44	-271.61	271.79	11.70	1.47
1852.00	16.52	353.32	1816.46	-298.61	298.77	9.63	1.47

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
1946.00	16.83	356.55	1906.51	-325.50	325.63	7.26	1.04
2041.00	15.55	0.02	1997.74	-351.98	352.09	6.43	1.69
2136.00	15.94	1.45	2089.18	-377.75	377.87	6.77	0.58
2231.00	15.79	1.74	2180.56	-403.70	403.83	7.49	0.18
2325.00	16.53	3.17	2270.84	-429.81	429.96	8.62	0.89
2417.00	16.47	358.95	2359.06	-455.91	456.07	9.10	1.31
2511.00	17.09	359.09	2449.06	-483.05	483.21	8.64	0.66
2606.00	16.80	358.76	2539.93	-510.74	510.89	8.12	0.32
2699.00	16.35	4.36	2629.07	-537.22	537.38	8.83	1.78
2793.00	16.43	7.35	2719.25	-563.56	563.75	11.53	0.90
2887.00	16.28	7.18	2809.45	-589.77	590.01	14.88	0.17
2981.00	16.25	5.53	2899.69	-615.89	616.17	17.79	0.49
3075.00	18.38	1.91	2989.43	-643.77	644.08	19.55	2.54
3170.00	16.58	0.16	3080.04	-672.28	672.60	20.09	1.98
3264.00	17.13	357.32	3170.00	-699.53	699.85	19.48	1.06
3358.00	16.41	357.91	3260.00	-726.64	726.94	18.35	0.80
3453.00	17.77	356.90	3350.81	-754.54	754.83	17.08	1.47
3547.00	15.62	354.69	3440.84	-781.49	781.75	15.13	2.38
3642.00	15.47	353.45	3532.37	-806.84	807.07	12.50	0.39
3737.00	12.76	355.28	3624.49	-829.91	830.12	10.20	2.88

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
3832.00	12.77	2.20	3717.15	-850.86	851.06	9.73	1.61
3925.00	16.32	8.54	3807.16	-874.03	874.26	12.07	4.18
4019.00	15.50	4.52	3897.56	-899.57	899.84	15.02	1.46
4114.00	15.44	4.76	3989.12	-924.79	925.09	17.07	0.10
4208.00	14.89	5.11	4079.85	-949.26	949.59	19.19	0.58
4303.00	15.69	359.20	4171.49	-974.25	974.59	20.09	1.84
4398.00	16.37	358.31	4262.80	-1000.48	1000.82	19.52	0.76
4492.00	16.99	357.46	4352.84	-1027.45	1027.78	18.52	0.71
4587.00	17.73	355.65	4443.51	-1055.76	1056.07	16.81	0.96
4681.00	14.75	351.75	4533.76	-1081.91	1082.19	14.01	3.37
4776.00	17.05	354.54	4625.12	-1107.78	1108.02	10.95	2.55
4869.00	18.34	356.84	4713.72	-1135.99	1136.21	8.84	1.58
4987.00	16.49	355.25	4826.30	-1171.25	1171.44	6.44	1.62
5081.00	16.49	2.36	4916.45	-1197.88	1198.06	5.88	2.14
5176.00	14.04	2.61	5008.09	-1222.85	1223.05	6.96	2.58
5271.00	13.90	6.48	5100.28	-1245.68	1245.90	8.77	0.99
5365.00	13.33	6.99	5191.64	-1267.62	1267.87	11.37	0.62
5459.00	15.52	8.14	5282.67	-1290.78	1291.08	14.46	2.35
5553.00	14.18	6.18	5373.53	-1314.64	1314.98	17.49	1.52
5648.00	12.20	2.04	5466.02	-1336.22	1336.59	19.10	2.31

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
5742.00	12.78	1.93	5557.79	-1356.53	1356.91	19.80	0.62
5836.00	14.64	1.10	5649.11	-1378.80	1379.18	20.38	1.99
5931.00	12.94	359.25	5741.37	-1401.44	1401.83	20.47	1.85
6023.00	11.50	1.01	5831.28	-1420.91	1421.30	20.49	1.62
6117.00	9.50	354.42	5923.70	-1438.01	1438.39	19.91	2.47
6210.00	8.08	6.02	6015.62	-1452.15	1452.53	19.84	2.44
6303.00	6.65	6.38	6107.85	-1463.98	1464.38	21.13	1.54
6397.00	5.02	2.28	6201.36	-1473.49	1473.90	21.90	1.78
6492.00	4.29	353.21	6296.04	-1481.18	1481.59	21.64	1.09
6586.00	3.31	49.10	6389.87	-1486.43	1486.86	23.28	3.90
6682.00	2.88	57.67	6485.73	-1489.48	1489.96	27.41	0.66
6777.00	2.19	74.79	6580.63	-1491.18	1491.71	31.18	1.07
6871.00	6.66	160.99	6674.40	-1486.44	1487.02	34.69	7.31
6965.00	12.57	153.06	6767.04	-1472.07	1472.73	41.10	6.43
7059.00	17.87	169.05	6857.75	-1448.67	1449.43	48.49	7.14
7154.00	24.24	177.13	6946.38	-1414.79	1415.59	52.24	7.35
7250.00	32.04	179.63	7030.97	-1369.56	1370.38	53.39	8.21
7345.00	43.52	182.71	7105.93	-1311.52	1312.31	52.00	12.25
7438.00	55.02	181.20	7166.52	-1241.24	1242.00	49.68	12.42
7533.00	67.53	179.79	7212.09	-1158.12	1158.86	49.02	13.24

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
7626.00	77.07	179.77	7240.33	-1069.63	1070.36	49.36	10.26
7720.00	80.31	180.15	7258.76	-977.47	978.20	49.42	3.47
7814.00	89.53	179.87	7267.07	-883.95	884.67	49.41	9.81
7908.00	90.00	179.03	7267.46	-789.95	790.68	50.30	1.02
8003.00	89.97	178.80	7267.49	-694.95	695.69	52.10	0.25
8098.00	89.77	178.95	7267.71	-599.96	600.71	53.96	0.26
8192.00	89.53	178.46	7268.29	-505.96	506.74	56.09	0.58
8285.00	89.43	177.57	7269.13	-412.99	413.80	59.31	0.97
8377.00	90.67	180.13	7269.05	-321.00	321.83	61.16	3.10
8470.00	92.18	180.39	7266.73	-228.05	228.86	60.75	1.65
8565.00	91.88	179.49	7263.37	-133.11	133.92	60.85	0.99
8659.00	88.72	177.78	7262.87	-39.14	39.97	63.09	3.82
8754.00	88.56	177.87	7265.12	55.81	-54.94	66.69	0.20
8847.00	90.00	177.96	7266.29	148.77	-147.87	70.07	1.55
8941.00	88.32	179.30	7267.67	242.75	-241.83	72.33	2.28
9034.00	88.79	180.18	7270.01	335.72	-334.79	72.75	1.08
9128.00	89.46	180.10	7271.44	429.69	-428.78	72.51	0.72
9222.00	89.36	180.09	7272.41	523.68	-522.78	72.36	0.11
9317.00	89.13	180.14	7273.66	618.66	-617.77	72.17	0.25
9411.00	88.72	180.49	7275.42	712.63	-711.75	71.66	0.57

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
9505.00	88.26	180.50	7277.90	806.57	-805.71	70.85	0.50
9599.00	89.03	180.36	7280.13	900.53	-899.68	70.15	0.83
9693.00	88.69	180.48	7282.00	994.49	-993.66	69.47	0.38
9788.00	90.87	179.81	7282.36	1089.47	-1088.66	69.23	2.40
9881.00	90.94	179.11	7280.89	1182.46	-1181.64	70.11	0.75
9976.00	91.07	179.94	7279.22	1277.44	-1276.62	70.90	0.89
10069.00	90.44	180.07	7277.99	1370.42	-1369.61	70.88	0.70
10164.00	90.44	180.72	7277.27	1465.40	-1464.61	70.23	0.68
10258.00	89.76	179.93	7277.10	1559.38	-1558.60	69.70	1.10
10351.00	89.93	180.10	7277.35	1652.37	-1651.60	69.68	0.26
10445.00	90.74	178.08	7276.80	1746.37	-1745.58	71.17	2.31
10540.00	90.94	177.40	7275.40	1841.32	-1840.50	74.91	0.75
10634.00	91.17	177.60	7273.67	1935.26	-1934.39	79.01	0.33
10727.00	90.71	177.10	7272.14	2028.20	-2027.28	83.31	0.74
10821.00	90.81	176.76	7270.90	2122.11	-2121.14	88.34	0.38
10914.00	90.94	178.25	7269.48	2215.06	-2214.04	92.39	1.61
11008.00	90.71	178.49	7268.13	2309.04	-2307.99	95.06	0.36
11102.00	90.81	178.98	7266.89	2403.02	-2401.96	97.13	0.53
11194.00	91.34	179.74	7265.17	2495.01	-2493.93	98.17	1.01
11287.00	90.27	179.99	7263.86	2587.99	-2586.92	98.39	1.19

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
11381.00	91.38	180.08	7262.51	2681.97	-2680.91	98.34	1.18
11474.00	91.18	180.08	7260.44	2774.94	-2773.89	98.21	0.21
11567.00	89.80	179.24	7259.65	2867.93	-2866.88	98.76	1.74
11660.00	90.54	179.78	7259.38	2960.93	-2959.88	99.56	0.98
11753.00	91.38	179.07	7257.83	3053.91	-3052.86	100.49	1.18
11847.00	90.20	178.63	7256.53	3147.90	-3146.83	102.38	1.34
11941.00	89.73	178.88	7256.59	3241.89	-3240.80	104.42	0.57
12034.00	89.83	178.80	7256.94	3334.89	-3333.79	106.31	0.14
12127.00	89.80	178.71	7257.24	3427.89	-3426.76	108.33	0.09
12222.00	89.16	178.69	7258.10	3522.88	-3521.73	110.49	0.67
12316.00	88.69	178.84	7259.86	3616.86	-3615.70	112.51	0.53
12410.00	87.95	179.45	7262.62	3710.82	-3709.64	113.91	1.02
12502.00	89.09	180.69	7264.99	3802.77	-3801.61	113.79	1.83
12595.00	89.16	180.99	7266.41	3895.73	-3894.59	112.42	0.33
12688.00	88.86	181.04	7268.01	3988.67	-3987.56	110.77	0.33
12783.00	88.49	181.40	7270.21	4083.59	-4082.51	108.75	0.54
12876.00	87.92	181.57	7273.13	4176.47	-4175.44	106.34	0.65
12908.00	87.72	181.72	7274.35	4208.42	-4207.40	105.42	0.77

5" = 100' FEET MD