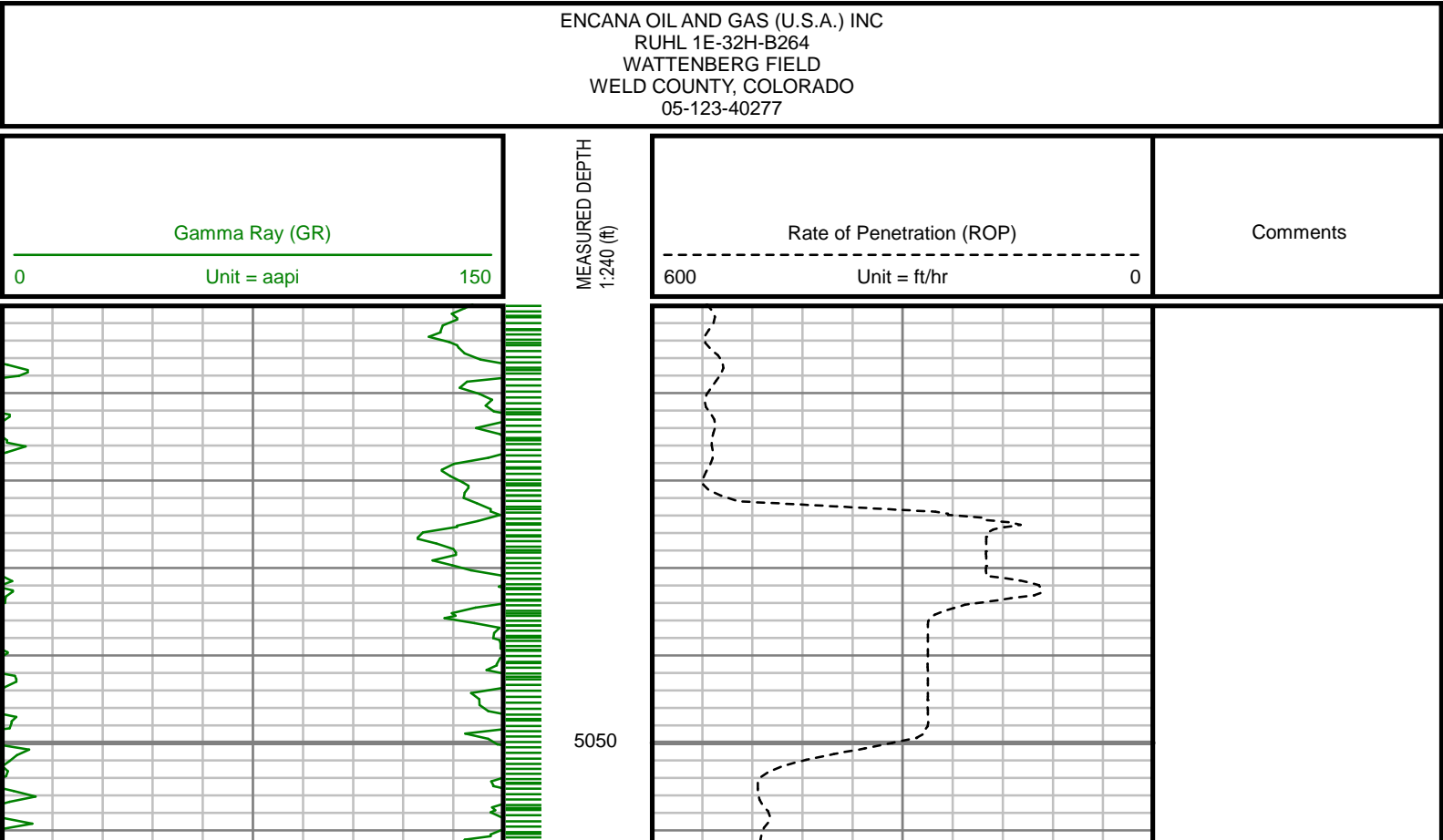
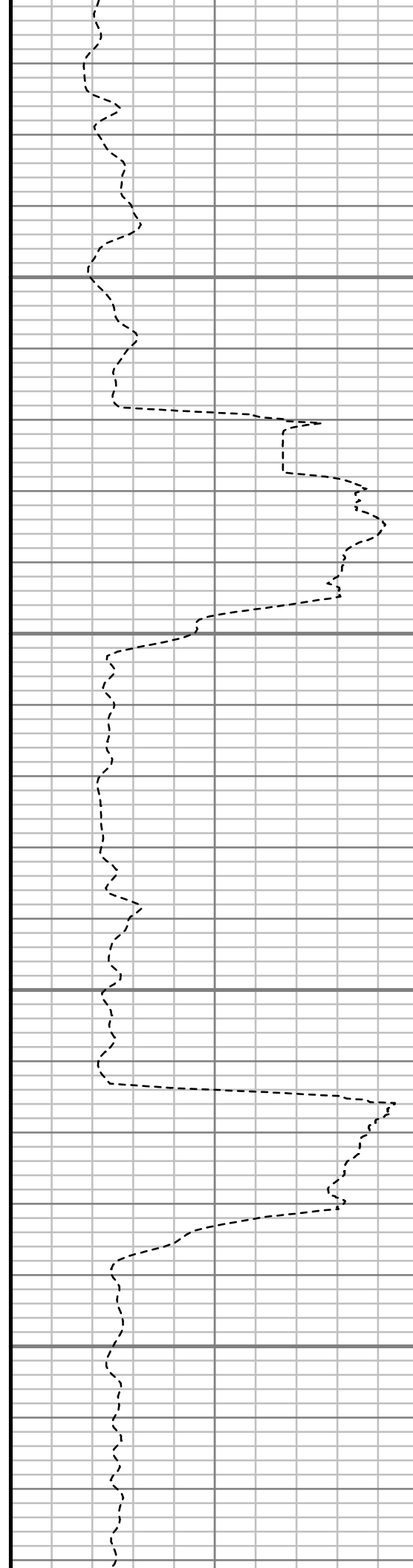
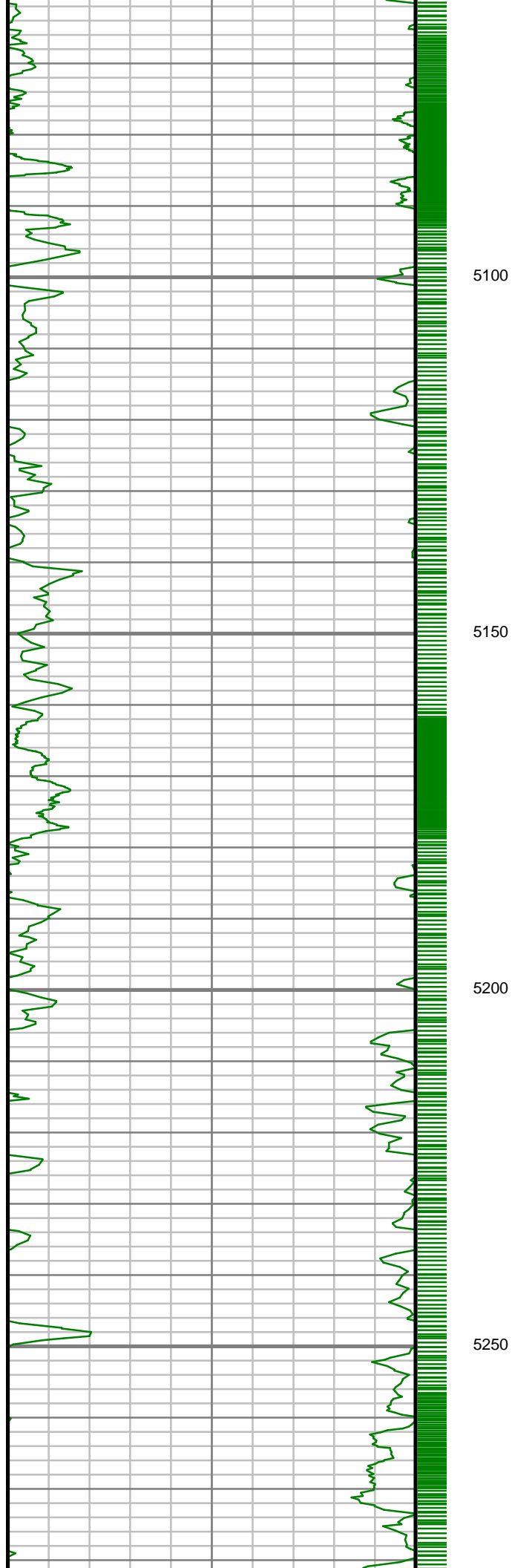


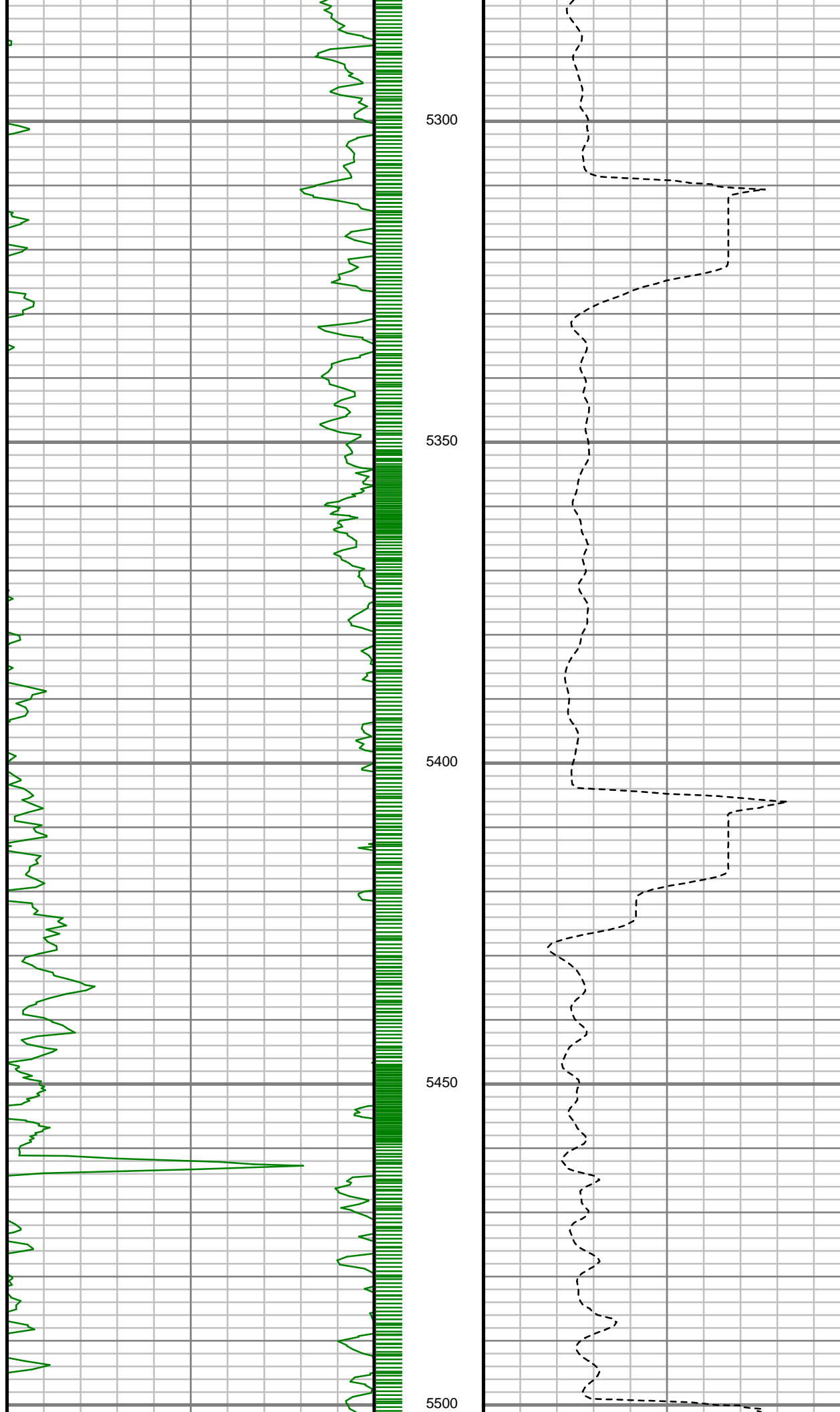
Remarks
ENCANA OIL AND GAS (U.S.A.) INC PRODUCTION AFE# 13179005
SCIENTIFIC DRILLING INTERNATIONAL JOB# 232827, 238972
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN #1: MWD / DIRECTIONAL RUN
SENSORS S/N: EM5 = 1154 / MWD EYE = 0645
BIT TO SENSOR OFFSET: SURVEY = 63.00 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-082 / CONT = 126 / MWD EYE = 0522 / GAMMA RAY = 1076
BIT TO SENSOR OFFSETS: SURVEY = 61.22 FT. / GAMMA RAY = 52.57 FT.
RUN #3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-095 / CONT = 858 / MWD EYE = 0645 / GAMMA RAY = 1271
BIT TO SENSOR OFFSETS: SURVEY = 62.18 FT. / GAMMA RAY = 53.53 FT.
REMARK #1: GAMMA RAY FROM 7291 FT. - 7328 FT. WAS LOGGED BEHIND CASING.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION

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.

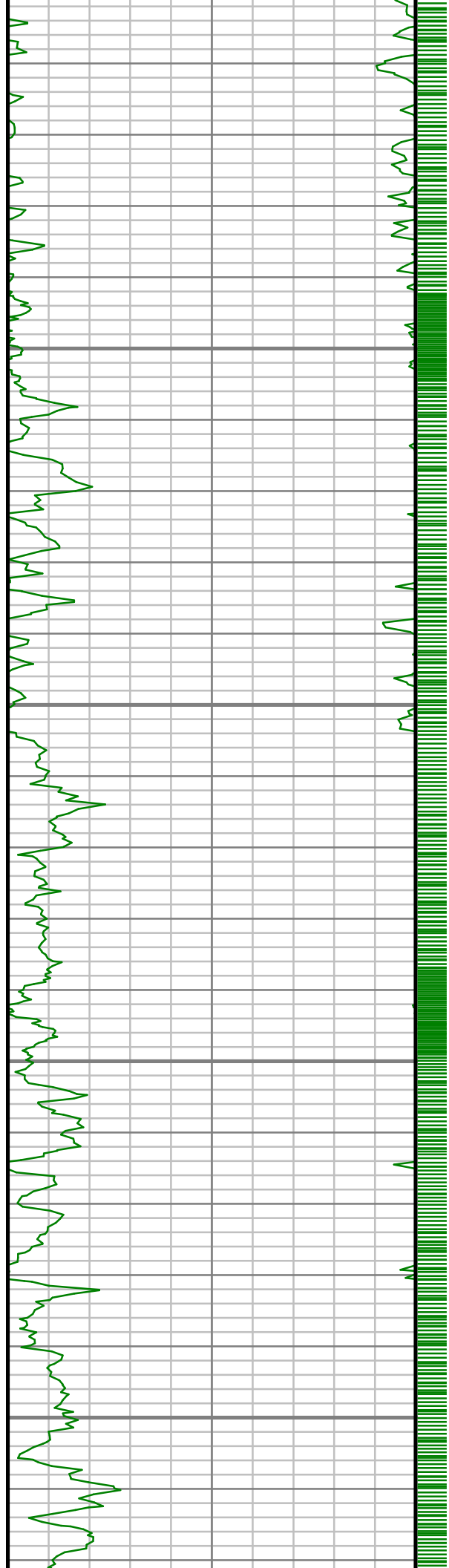




S: 33 MD: 5151.00 ft Inc: 0.89
deg Az: 265.82 deg TVD:
5091.60 ft



S: 34 MD: 5341.00 ft Inc: 1.13
deg Az: 192.28 deg TVD:
5281.58 ft

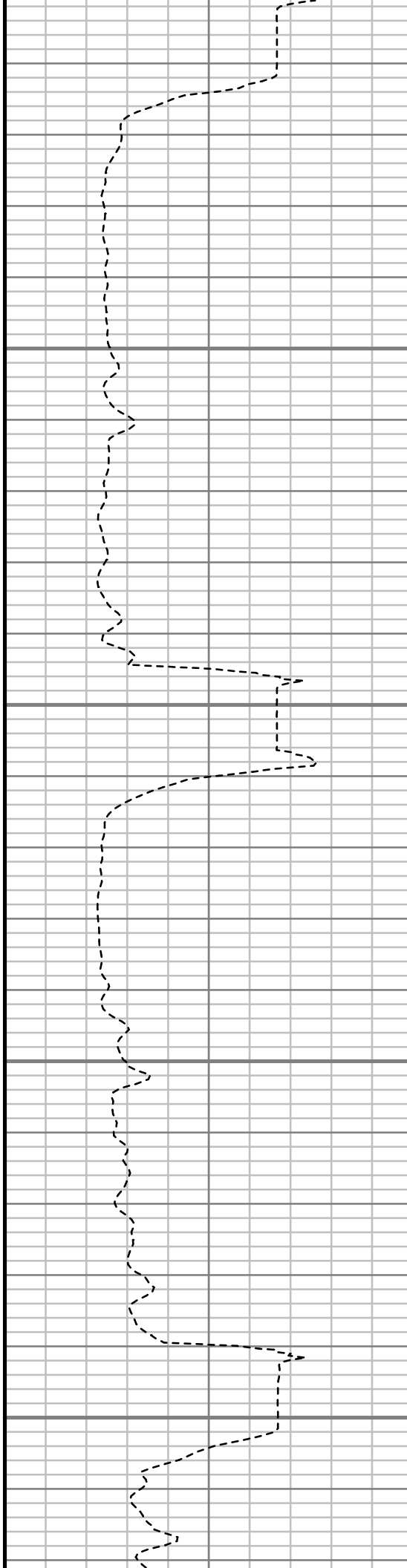


5550

5600

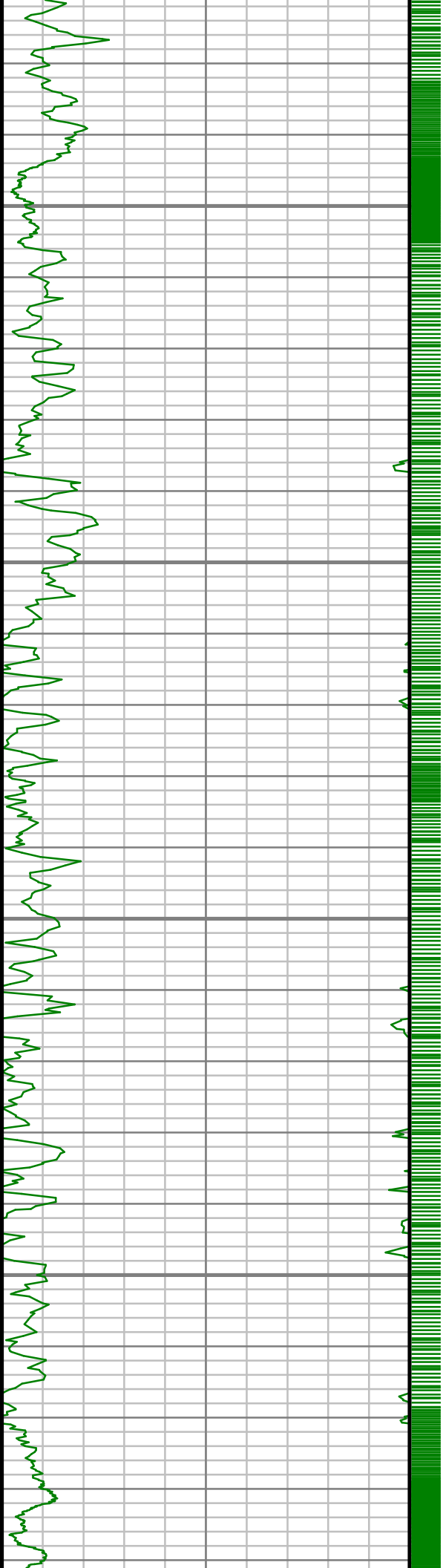
5650

5700



S: 35 MD: 5530.00 ft Inc: 0.27
deg Az: 273.95 deg TVD:
5470.56 ft

S: 26 MD: 5720.00 ft Inc: 1.02

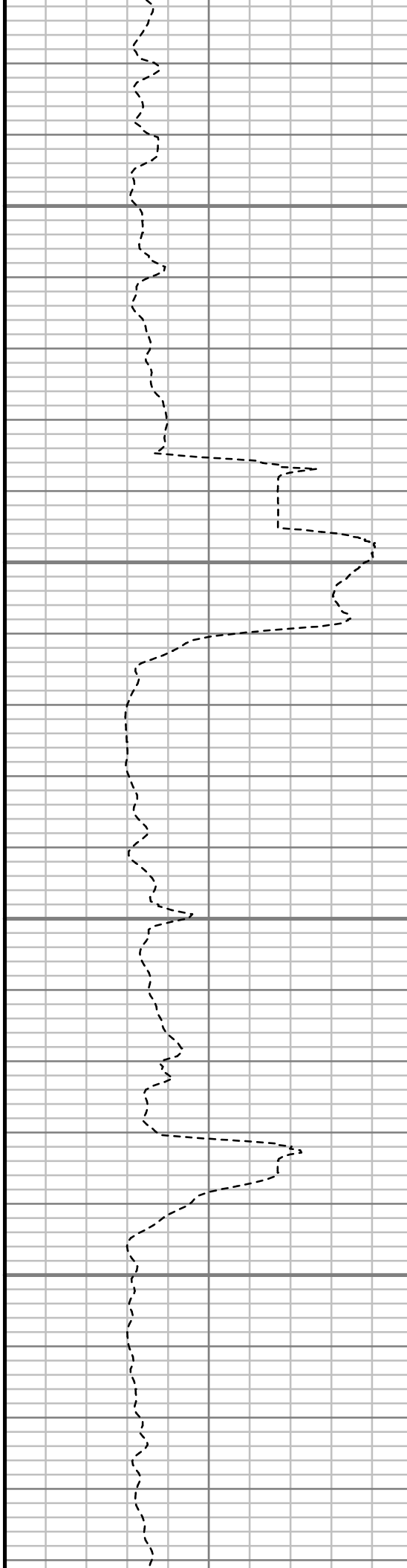


5750

5800

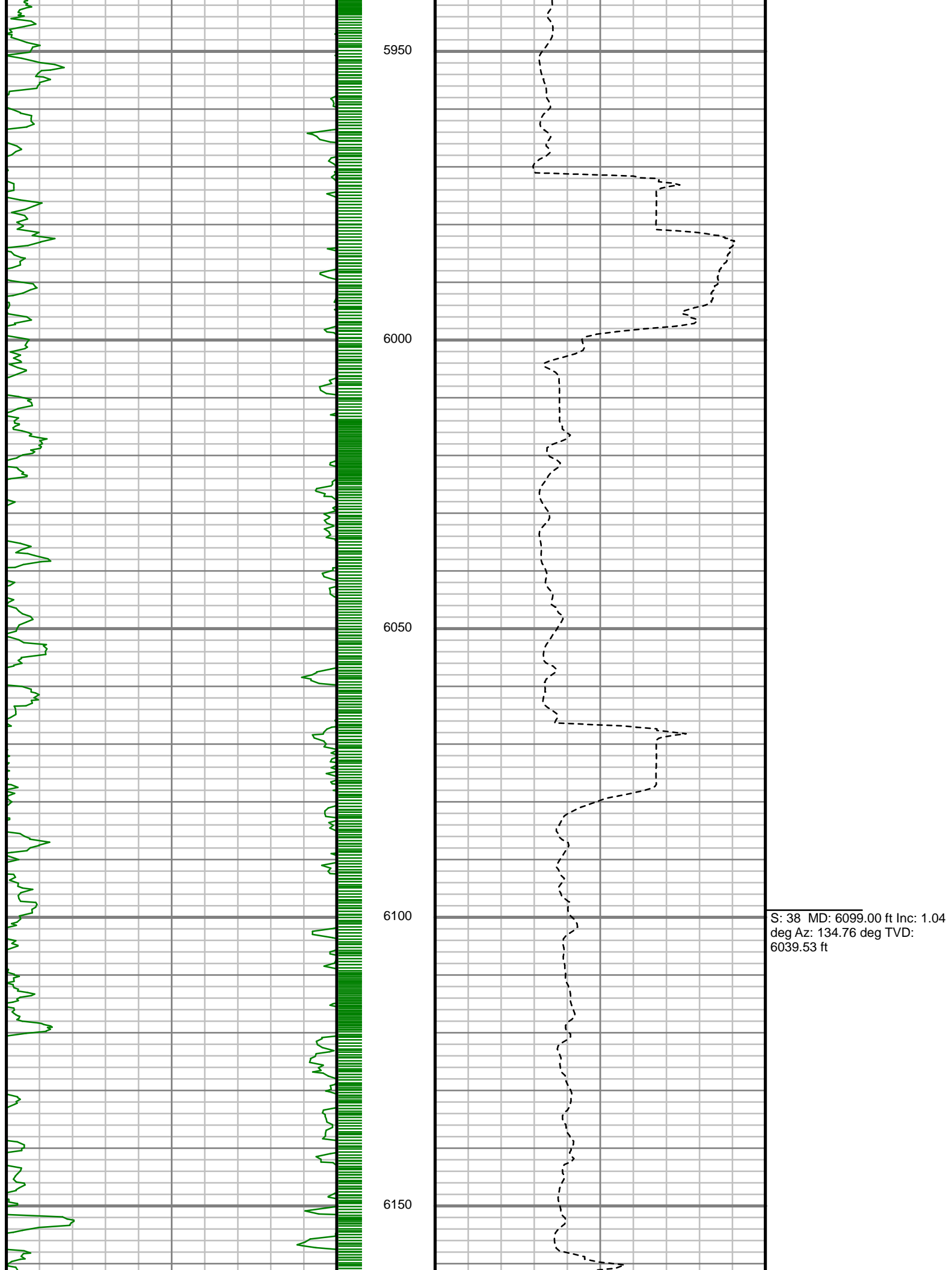
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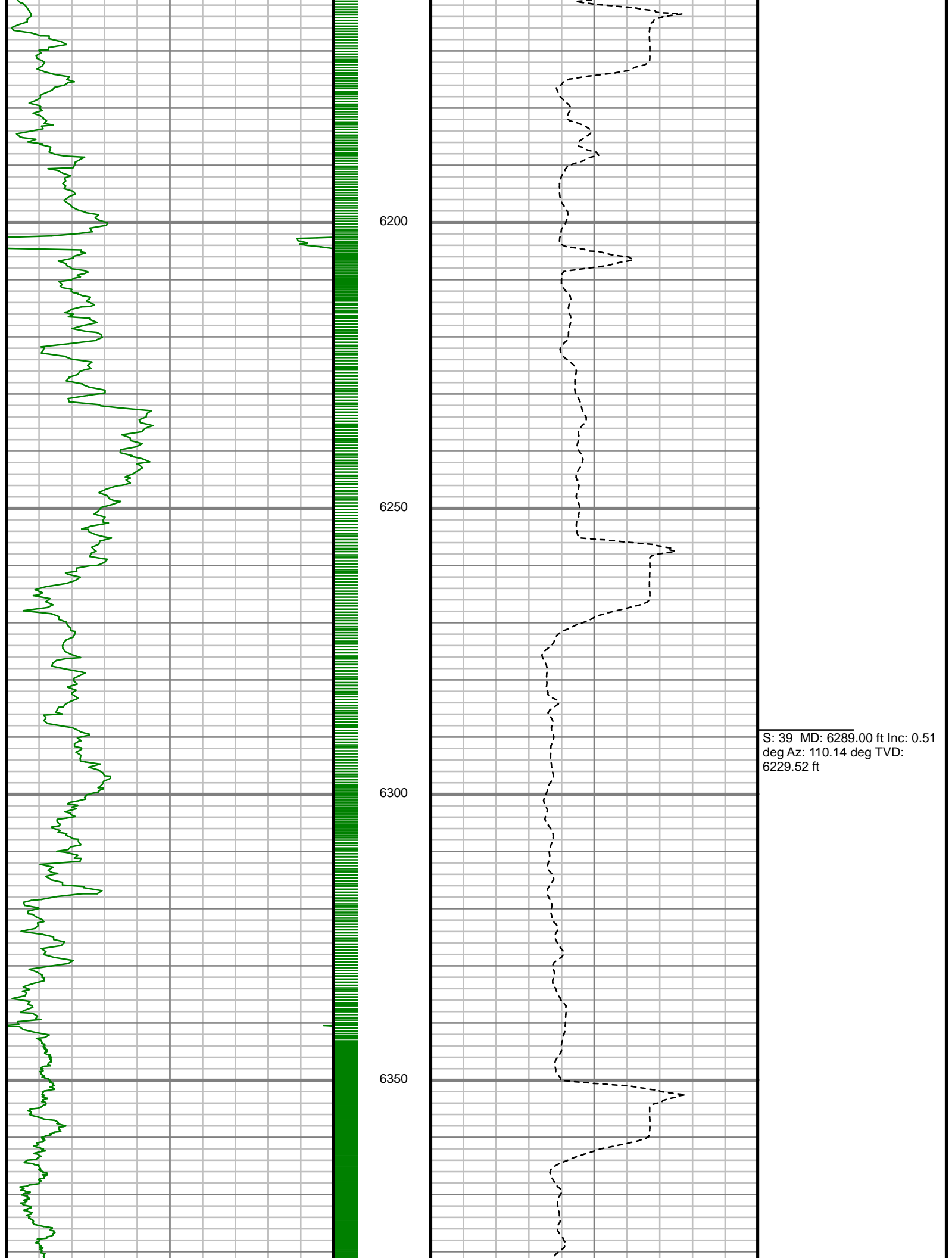
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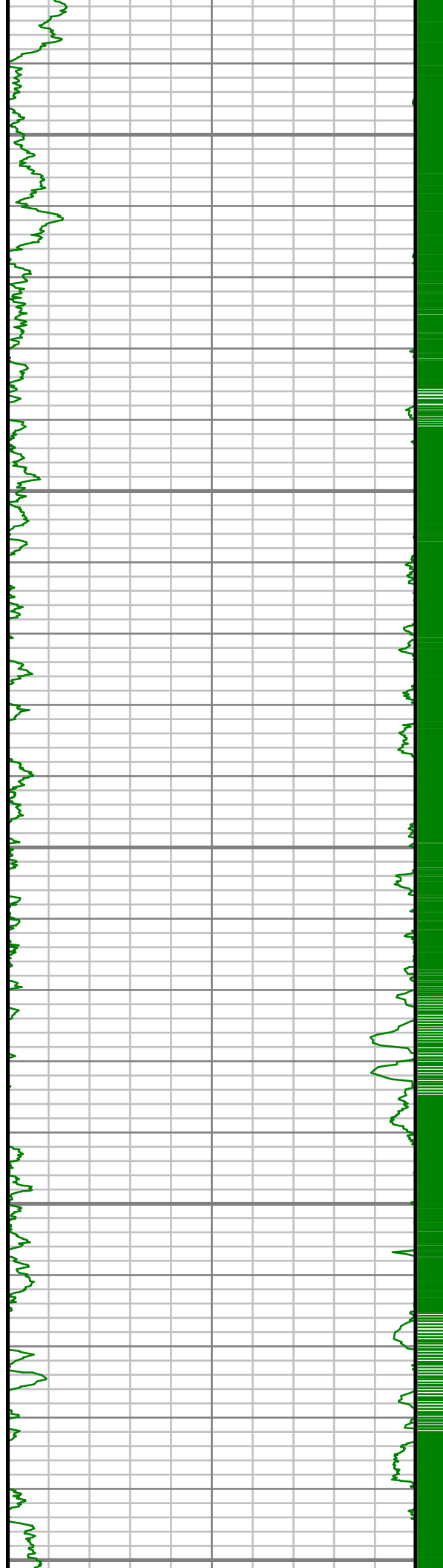


S: 36 MD: 5720.00 ft Inc: 1.02
deg Az: 12.97 deg TVD:
5660.55 ft

S: 37 MD: 5910.00 ft Inc: 0.45
deg Az: 244.86 deg TVD:
5850.54 ft







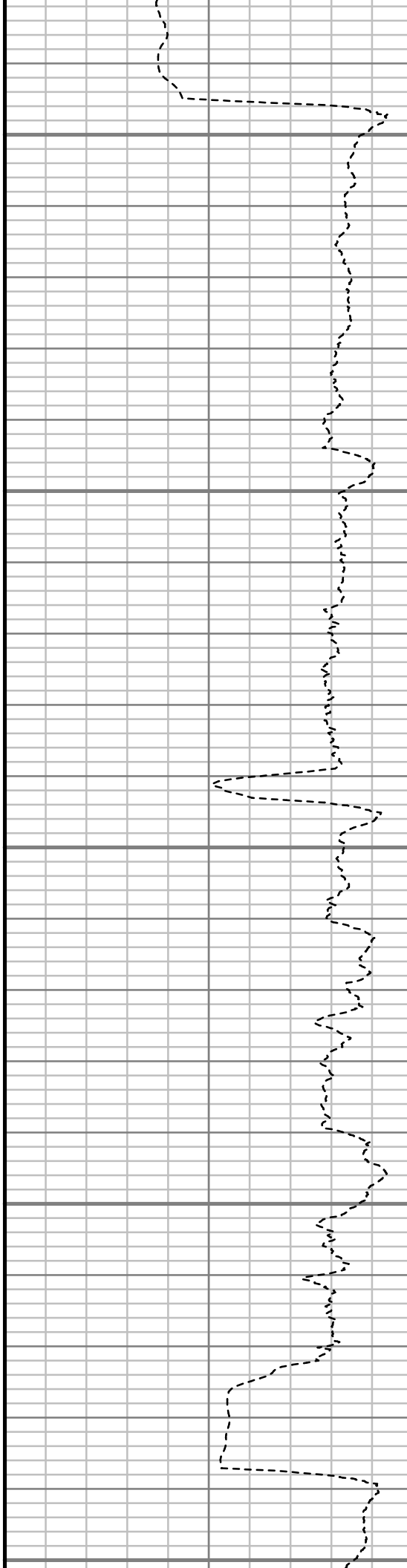
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6450

6500

6550

6600



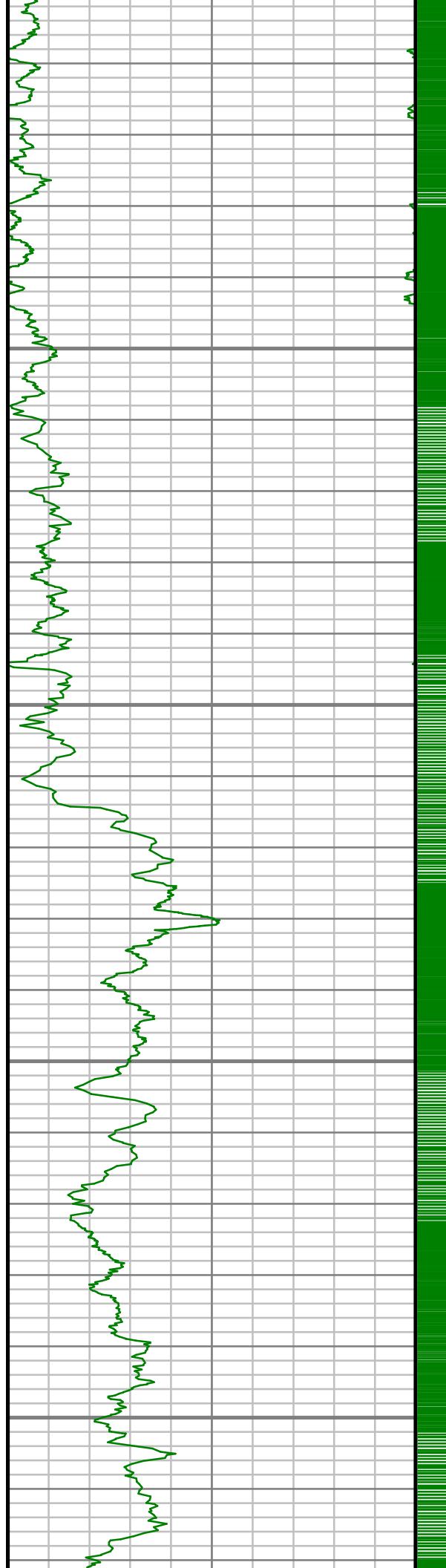
S: 40 MD: 6384.00 ft Inc: 0.67
deg Az: 52.27 deg TVD:
6324.51 ft

S: 41 MD: 6431.00 ft Inc: 5.70
deg Az: 180.75 deg TVD:
6371.44 ft

S: 42 MD: 6478.00 ft Inc: 12.73
deg Az: 182.09 deg TVD:
6417.80 ft

S: 43 MD: 6525.00 ft Inc: 13.75
deg Az: 183.17 deg TVD:
6463.55 ft

S: 44 MD: 6573.00 ft Inc: 17.89
deg Az: 183.07 deg TVD:
6509.73 ft

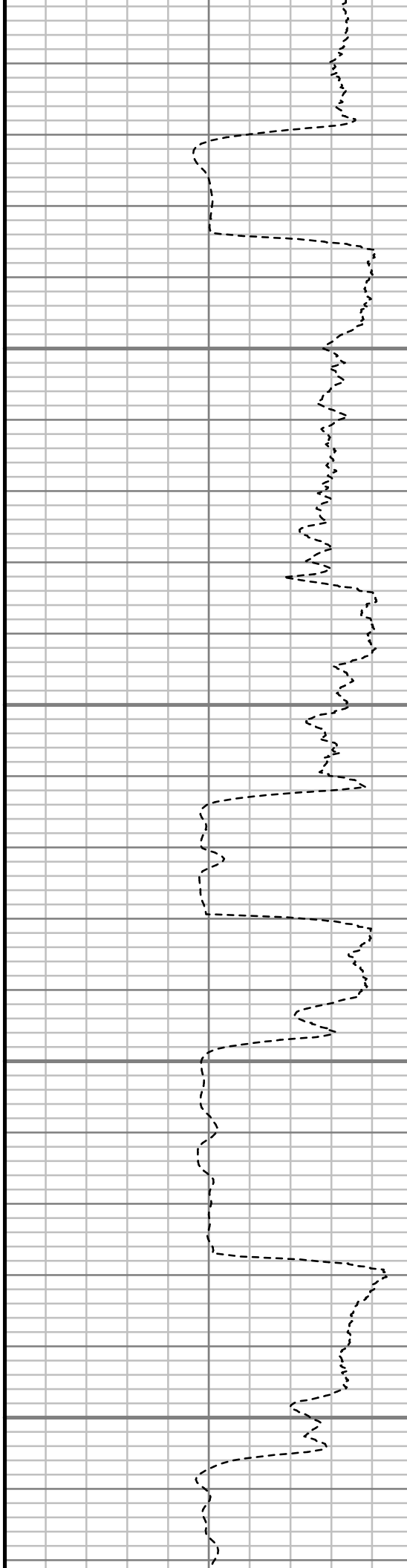


6650

6700

6750

6800



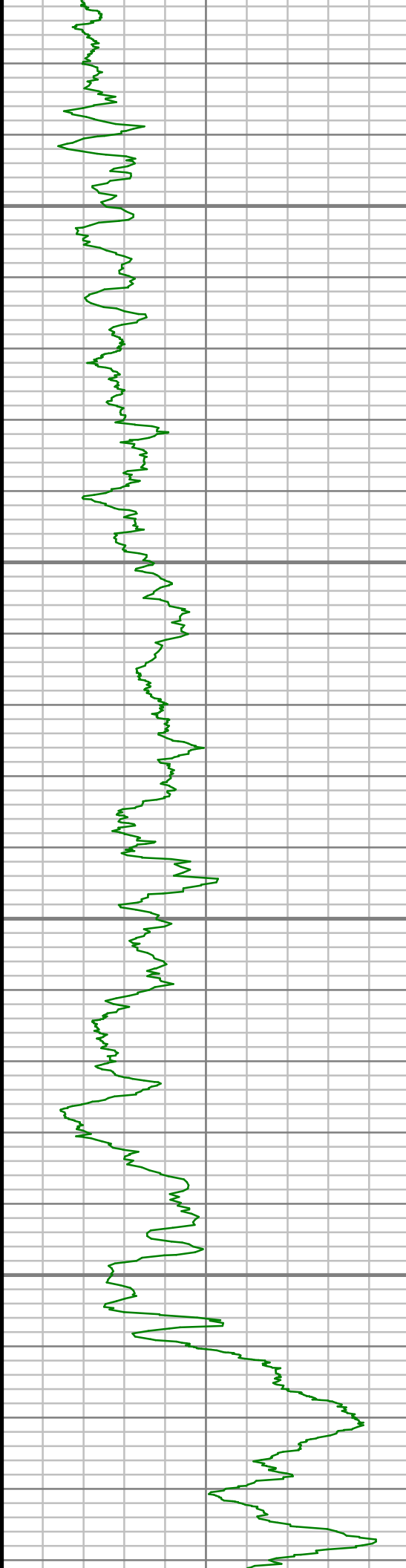
S: 45 MD: 6620.00 ft Inc: 22.64
deg Az: 180.55 deg TVD:
6553.81 ft

S: 46 MD: 6668.00 ft Inc: 28.77
deg Az: 180.07 deg TVD:
6597.04 ft

S: 47 MD: 6715.00 ft Inc: 34.02
deg Az: 181.50 deg TVD:
6637.14 ft

S: 48 MD: 6763.00 ft Inc: 35.64
deg Az: 181.28 deg TVD:
6676.54 ft

S: 49 MD: 6810.00 ft Inc: 39.97
deg Az: 181.97 deg TVD:
6713.67 ft

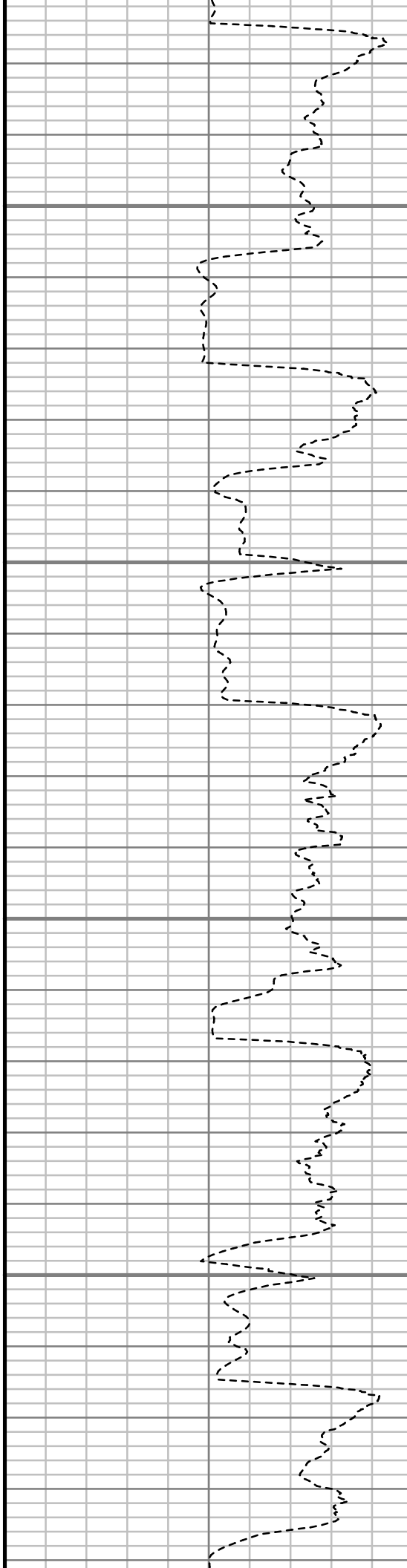
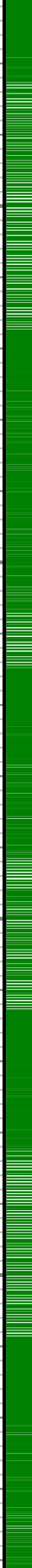


6850

6900

6950

7000

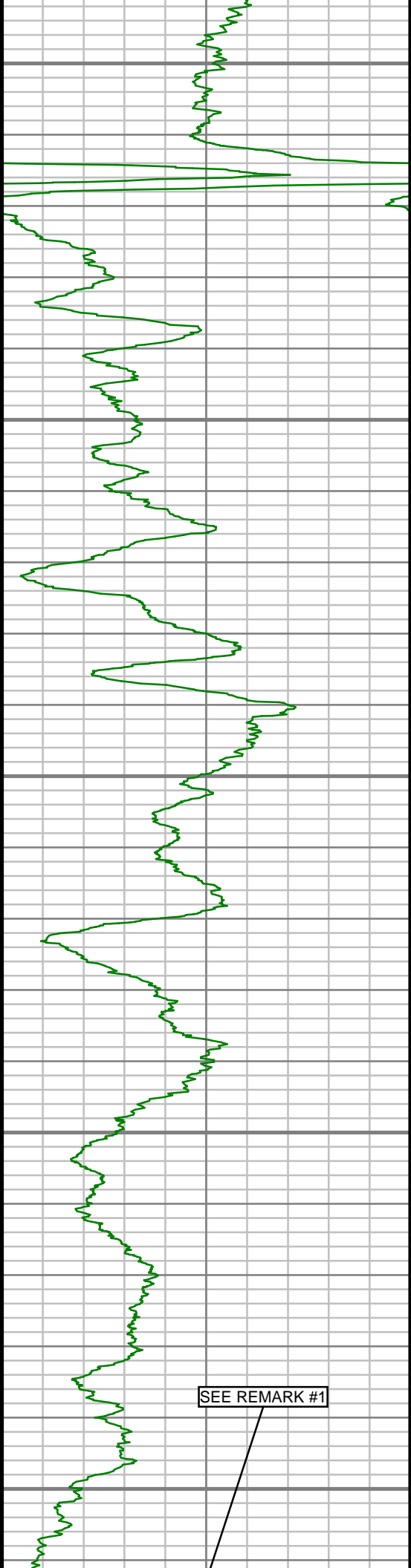


S: 50 MD: 6858.00 ft Inc: 44.74
deg Az: 180.87 deg TVD:
6749.13 ft

S: 51 MD: 6905.00 ft Inc: 46.47
deg Az: 179.16 deg TVD:
6782.01 ft

S: 52 MD: 6952.00 ft Inc: 53.20
deg Az: 178.81 deg TVD:
6812.31 ft

S: 53 MD: 6999.00 ft Inc: 58.53
deg Az: 179.68 deg TVD:
6838.67 ft



7050

7100

7150

7200

7250

SEE REMARK #1

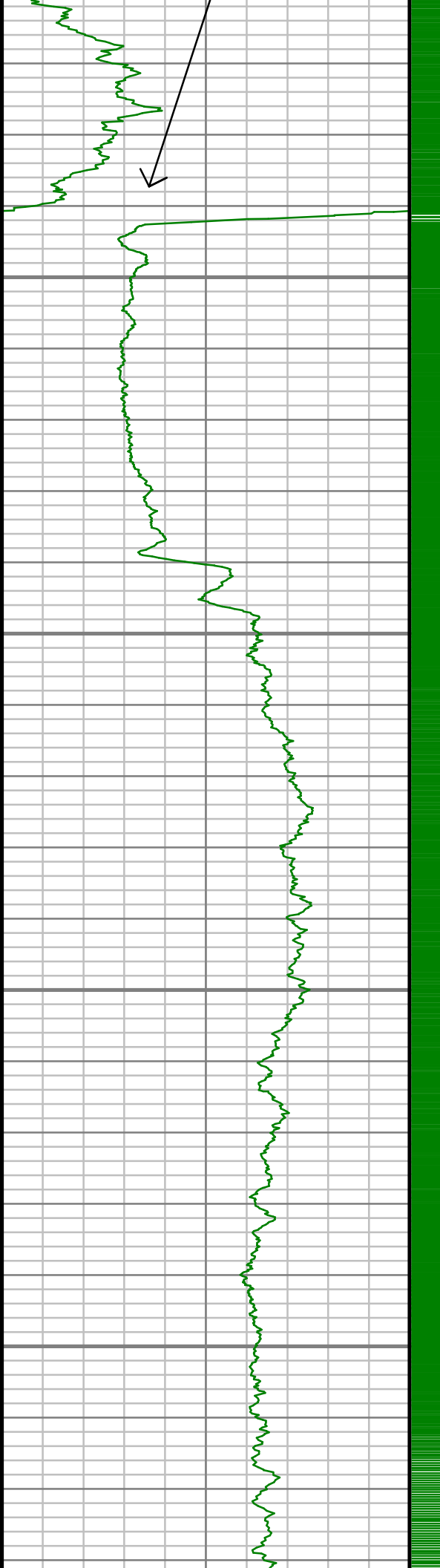
S: 54 MD: 7047.00 ft Inc: 61.94
deg Az: 181.73 deg TVD:
6862.50 ft

S: 55 MD: 7094.00 ft Inc: 66.03
deg Az: 182.10 deg TVD:
6883.11 ft

S: 56 MD: 7142.00 ft Inc: 70.84
deg Az: 181.10 deg TVD:
6900.75 ft

S: 57 MD: 7189.00 ft Inc: 75.75
deg Az: 180.44 deg TVD:
6914.25 ft

S: 58 MD: 7237.00 ft Inc: 81.71
deg Az: 179.89 deg TVD:
6923.63 ft



7300

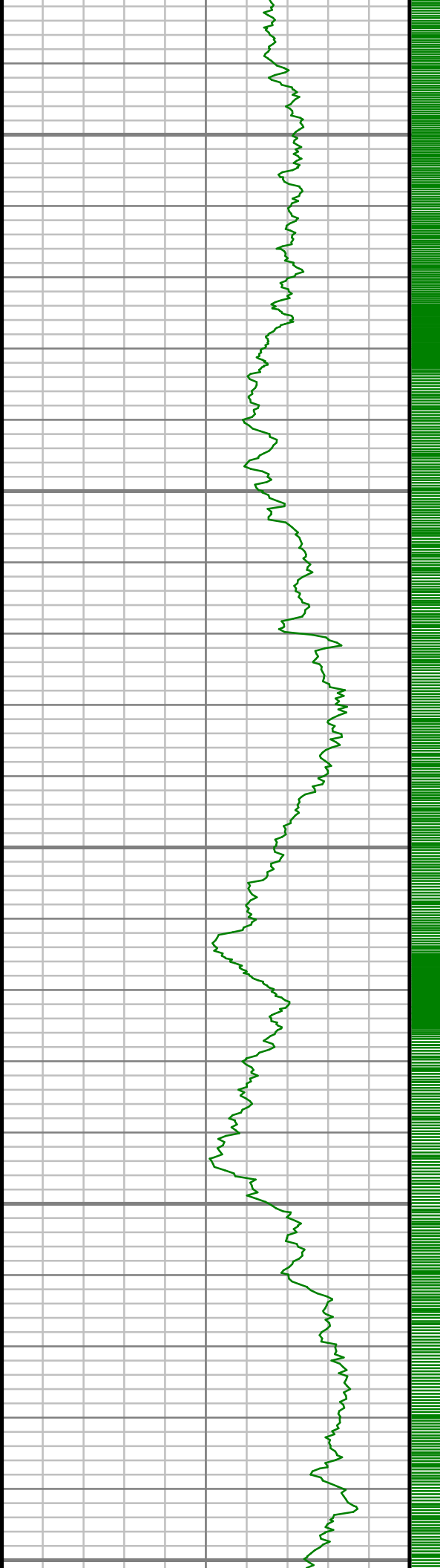
7350

7400

7450

S: 59 MD: 7281.00 ft Inc: 87.98
deg Az: 179.61 deg TVD:
6927.59 ft

S: 60 MD: 7424.00 ft Inc: 90.74
deg Az: 178.98 deg TVD:
6929.18 ft



7500

7550

7600

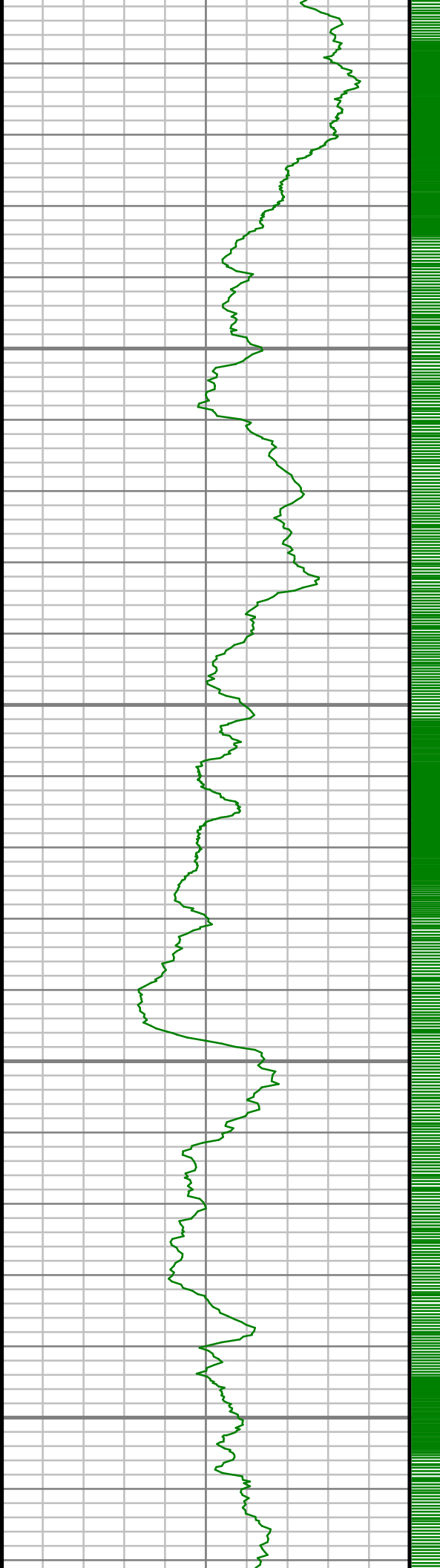
7650

7700

S: 61 MD: 7514.00 ft Inc: 88.89
deg Az: 177.47 deg TVD:
6929.47 ft

S: 62 MD: 7605.00 ft Inc: 88.06
deg Az: 177.15 deg TVD:
6931.89 ft

S: 63 MD: 7696.00 ft Inc: 87.11
deg Az: 176.46 deg TVD:

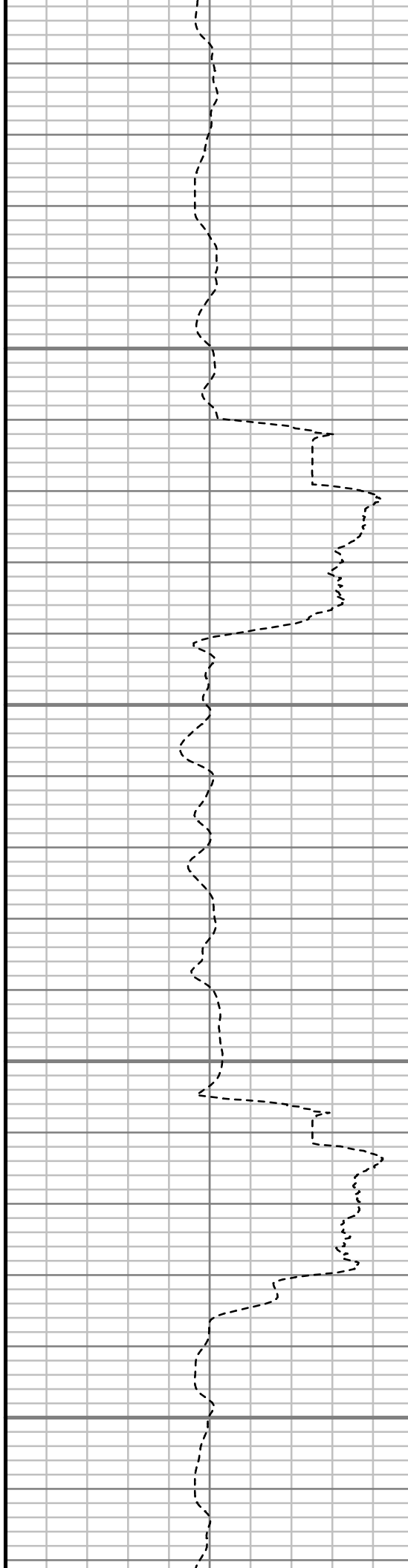


7750

7800

7850

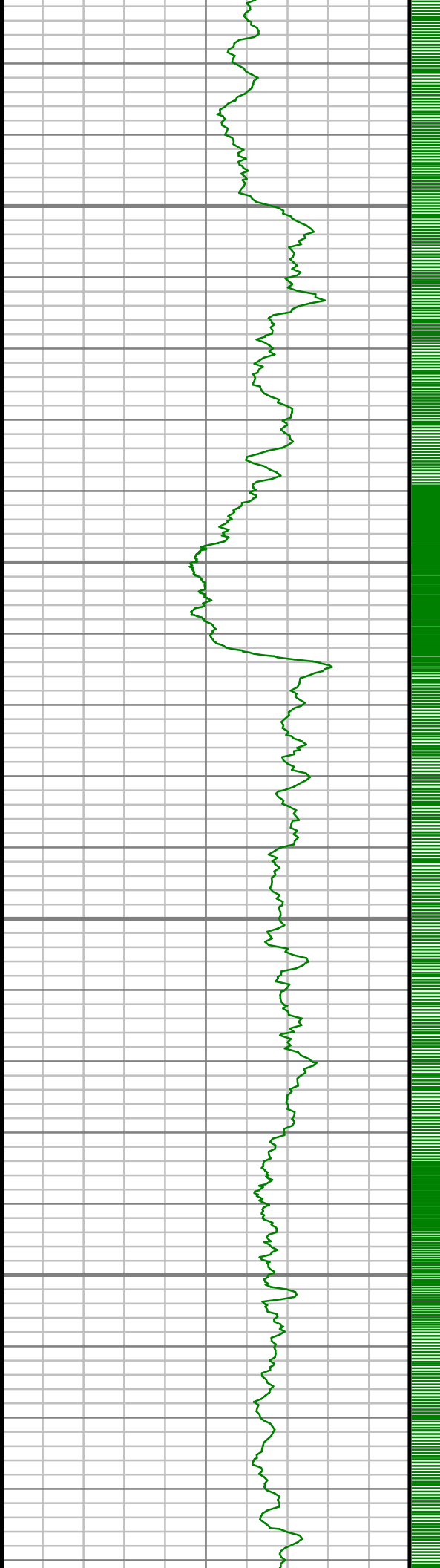
7900



6935.72 ft

S: 64 MD: 7791.00 ft Inc: 87.38
deg Az: 177.86 deg TVD:
6940.28 ft

S: 65 MD: 7886.00 ft Inc: 88.49
deg Az: 180.02 deg TVD:
6943.70 ft



7950

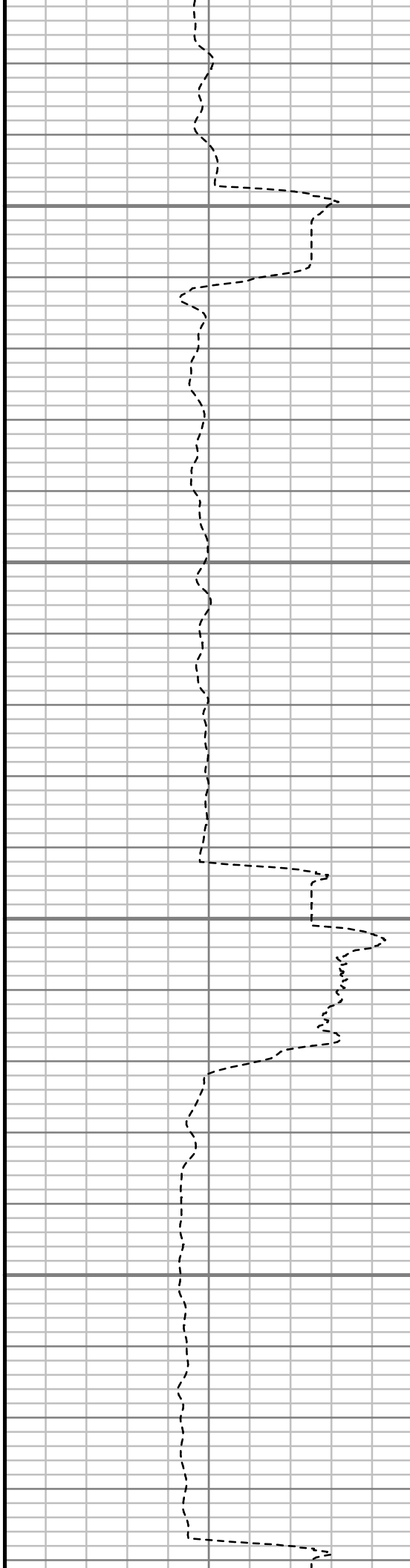
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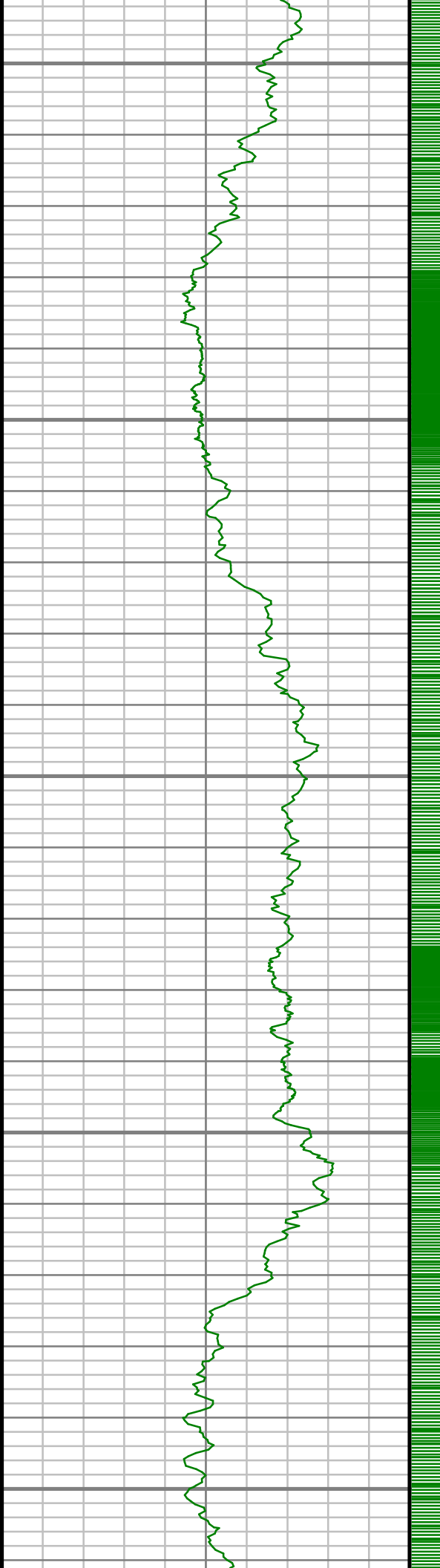
8050

8100

S: 66 MD: 7980.00 ft Inc: 87.75
deg Az: 180.02 deg TVD:
6946.78 ft

S: 67 MD: 8075.00 ft Inc: 89.40
deg Az: 179.42 deg TVD:
6949.15 ft





8150

8200

8250

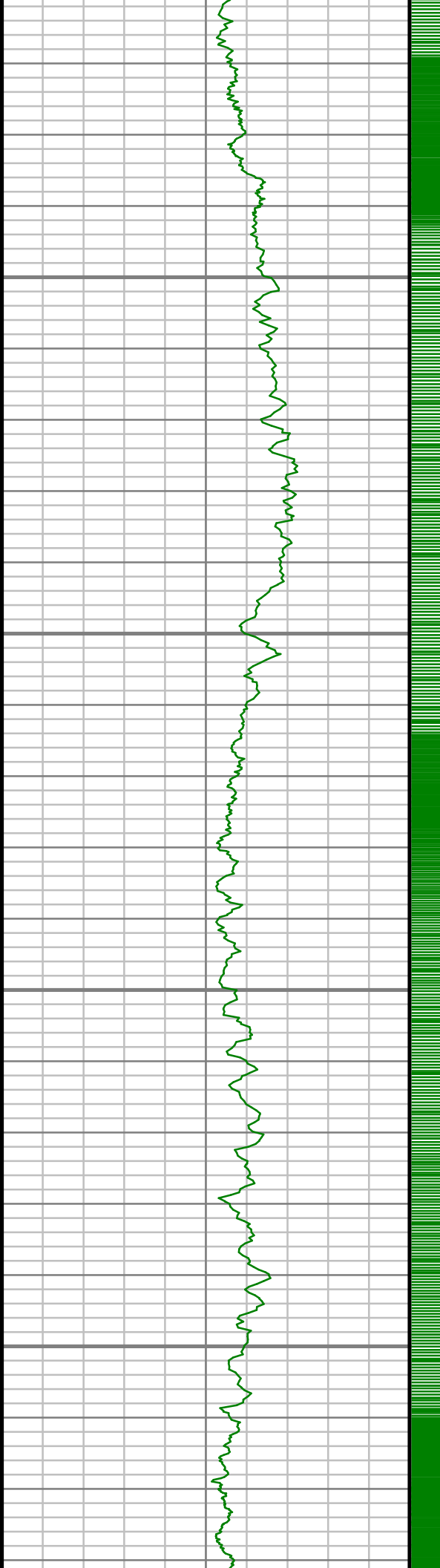
8300

8350

S: 68 MD: 8170.00 ft Inc: 88.66
deg Az: 179.73 deg TVD:
6950.76 ft

S: 69 MD: 8264.00 ft Inc: 90.34
deg Az: 180.01 deg TVD:
6951.59 ft

S: 70 MD: 8260.00 ft Inc: 90.37

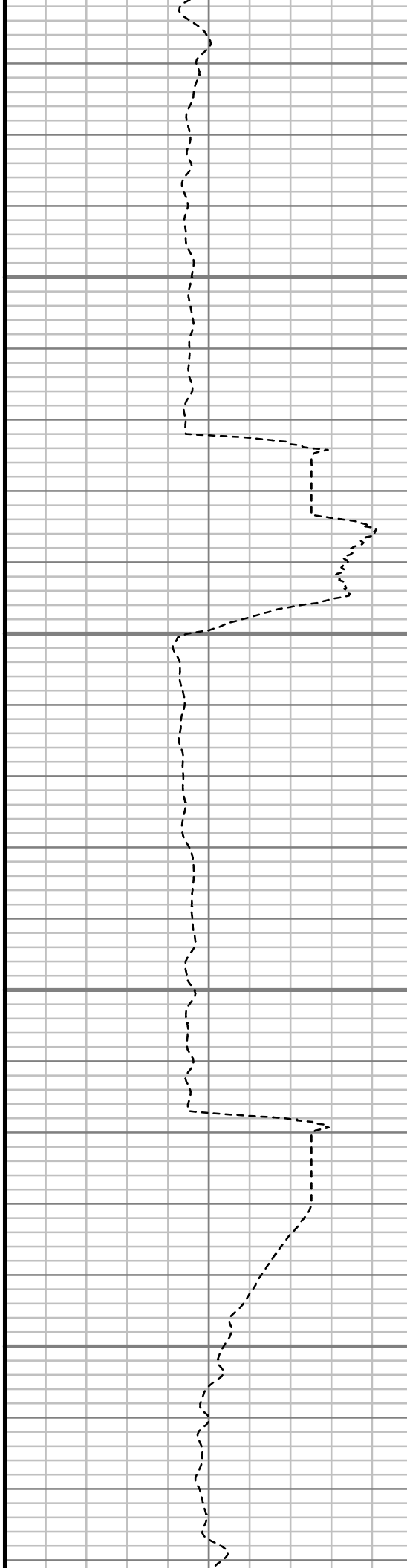


8400

8450

8500

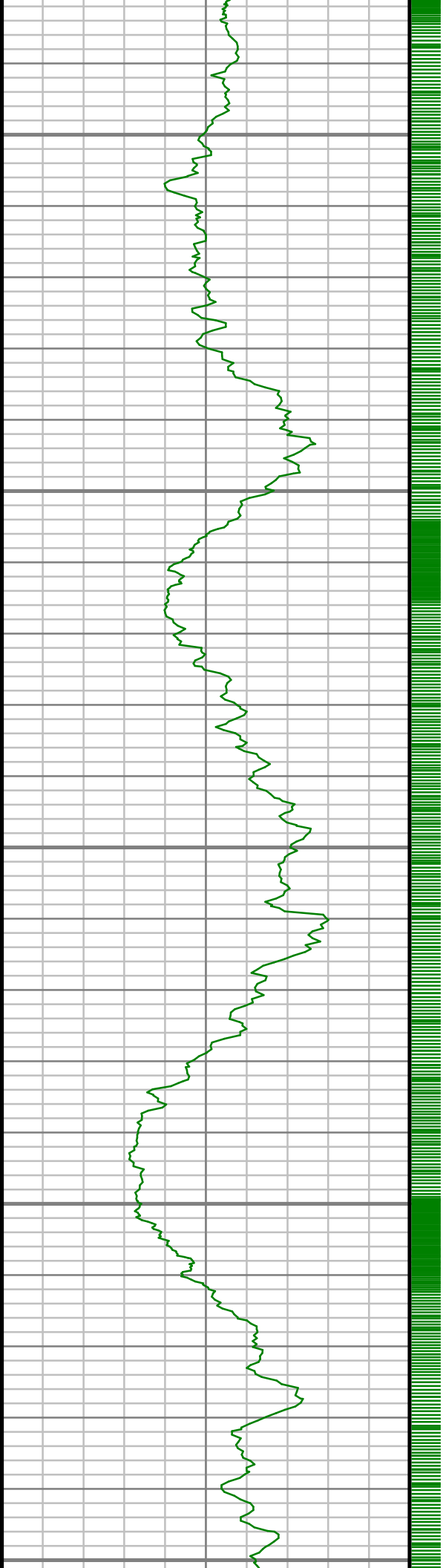
8550



S: 70 MD: 8380.00 ft Inc: 90.27
deg Az: 180.36 deg TVD:
6951.08 ft

S: 71 MD: 8454.00 ft Inc: 89.66
deg Az: 181.57 deg TVD:
6951.14 ft

S: 72 MD: 8549.00 ft Inc: 91.11
deg Az: 182.87 deg TVD:
6950.50 ft



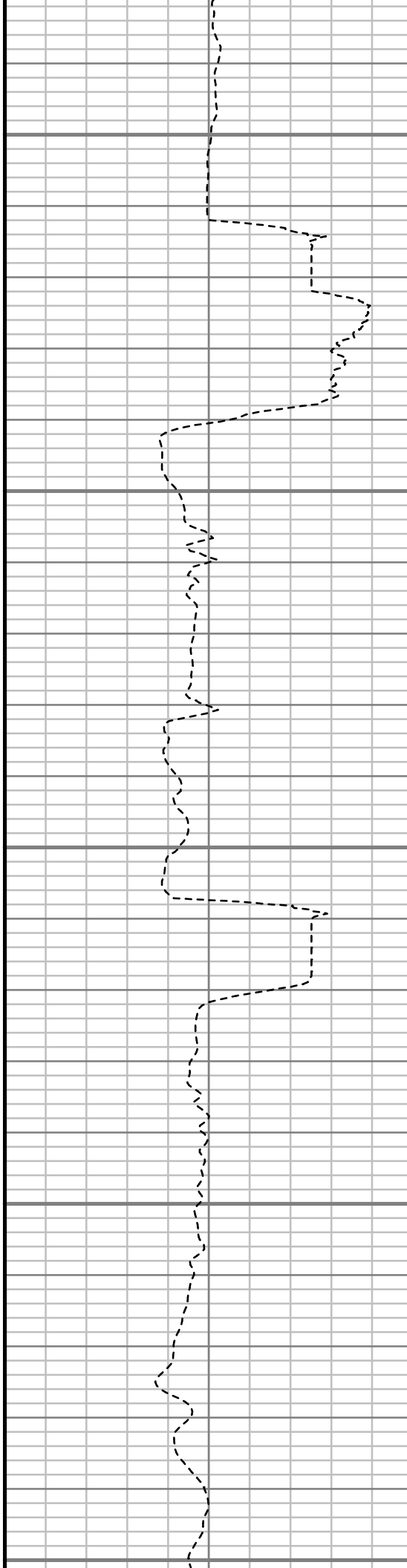
8600

8650

8700

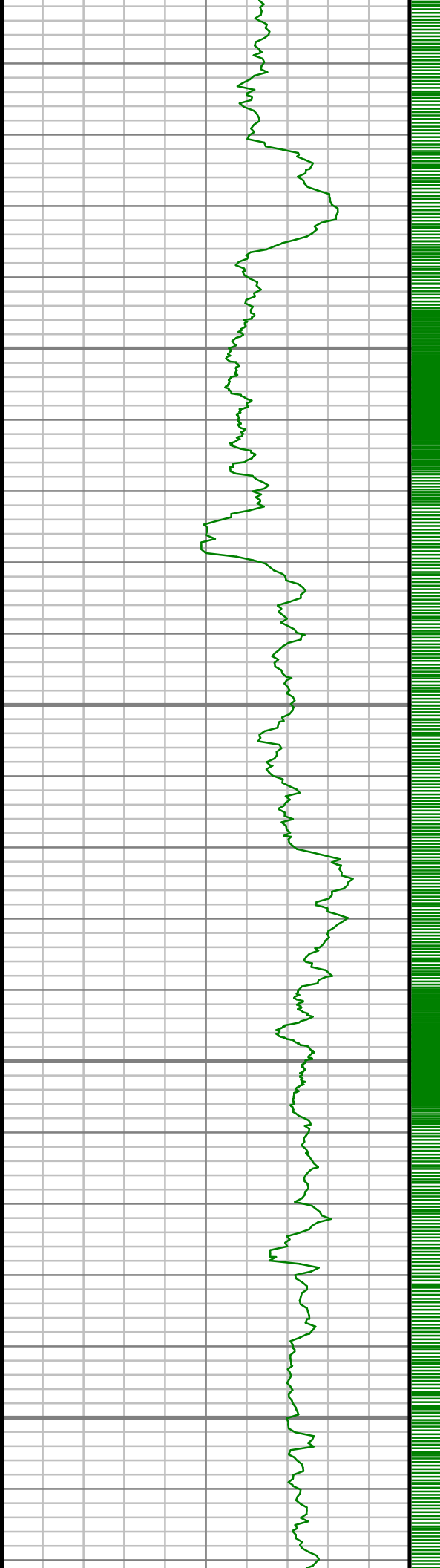
8750

8800



S: 73 MD: 8643.00 ft Inc: 89.46
deg Az: 182.16 deg TVD:
6950.03 ft

S: 74 MD: 8737.00 ft Inc: 88.89
deg Az: 182.02 deg TVD:
6951.38 ft

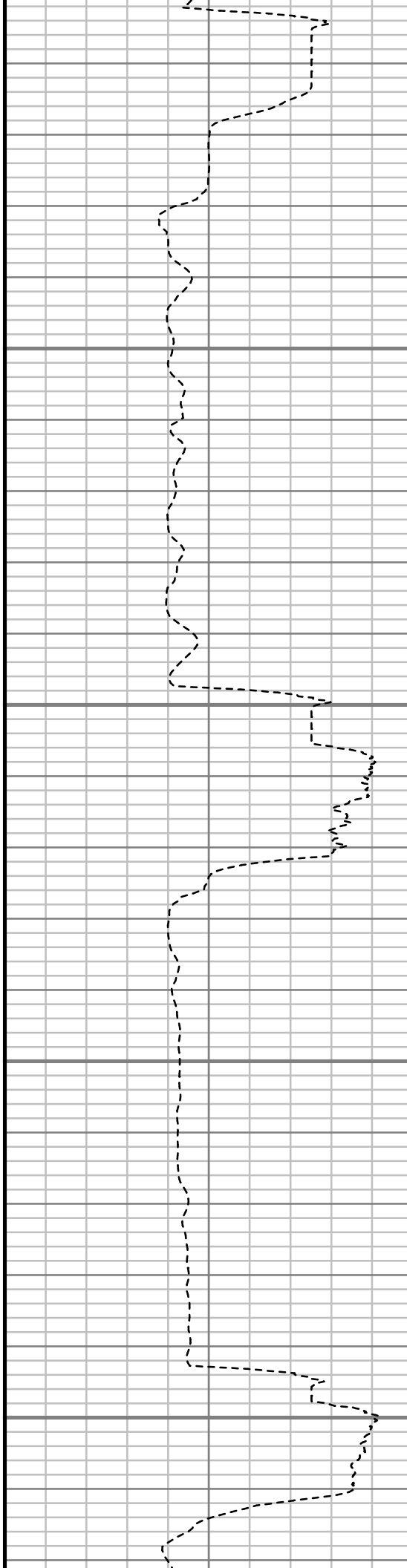


8850

8900

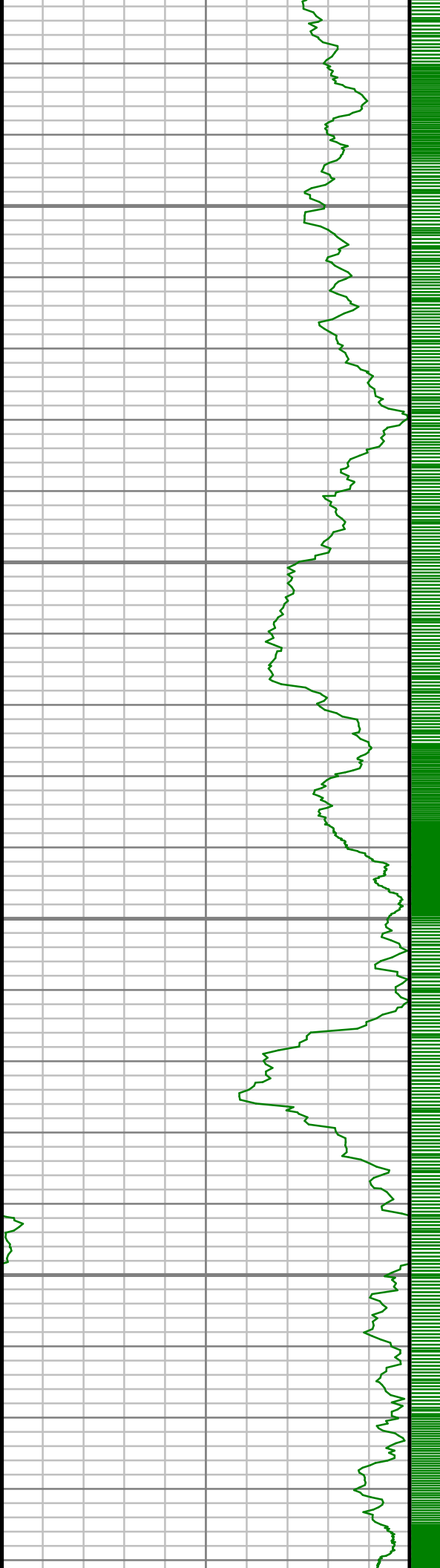
8950

9000



S: 75 MD: 8832.00 ft Inc: 87.92
deg Az: 182.22 deg TVD:
6954.02 ft

S: 76 MD: 8927.00 ft Inc: 89.09
deg Az: 183.64 deg TVD:
6956.50 ft

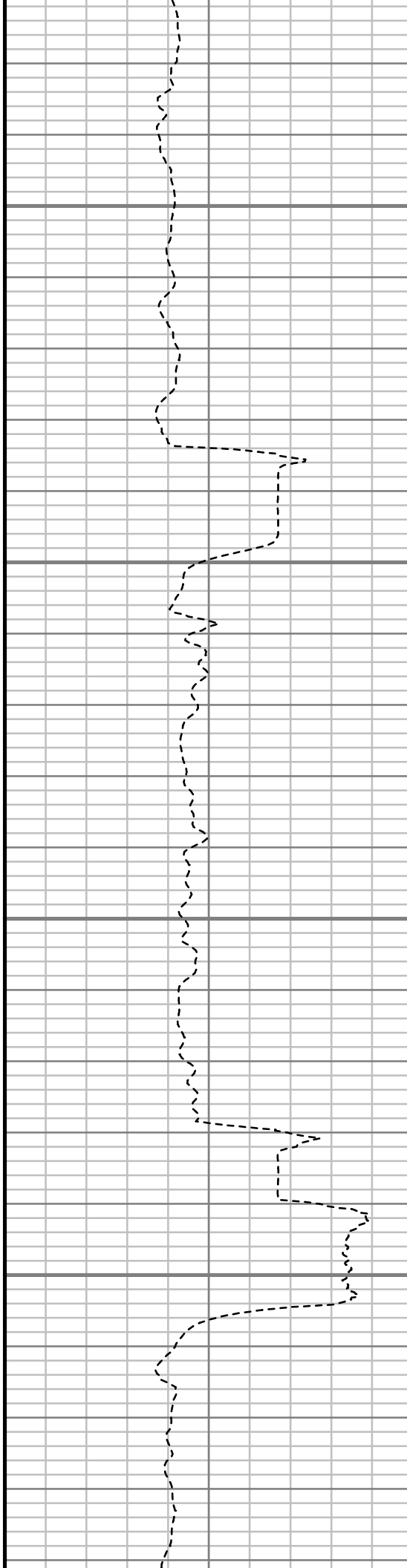


9050

9100

9150

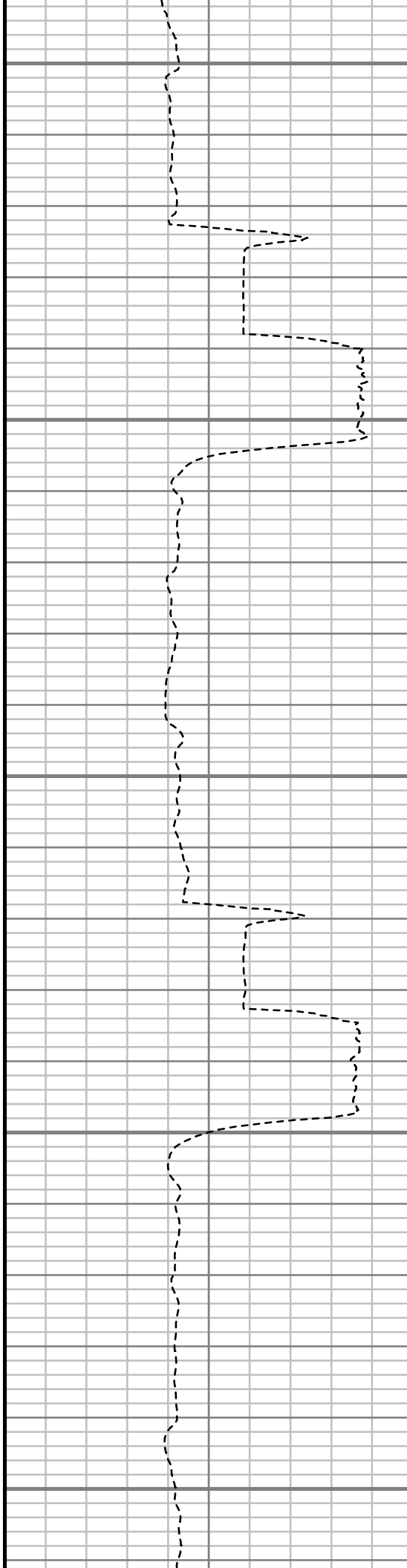
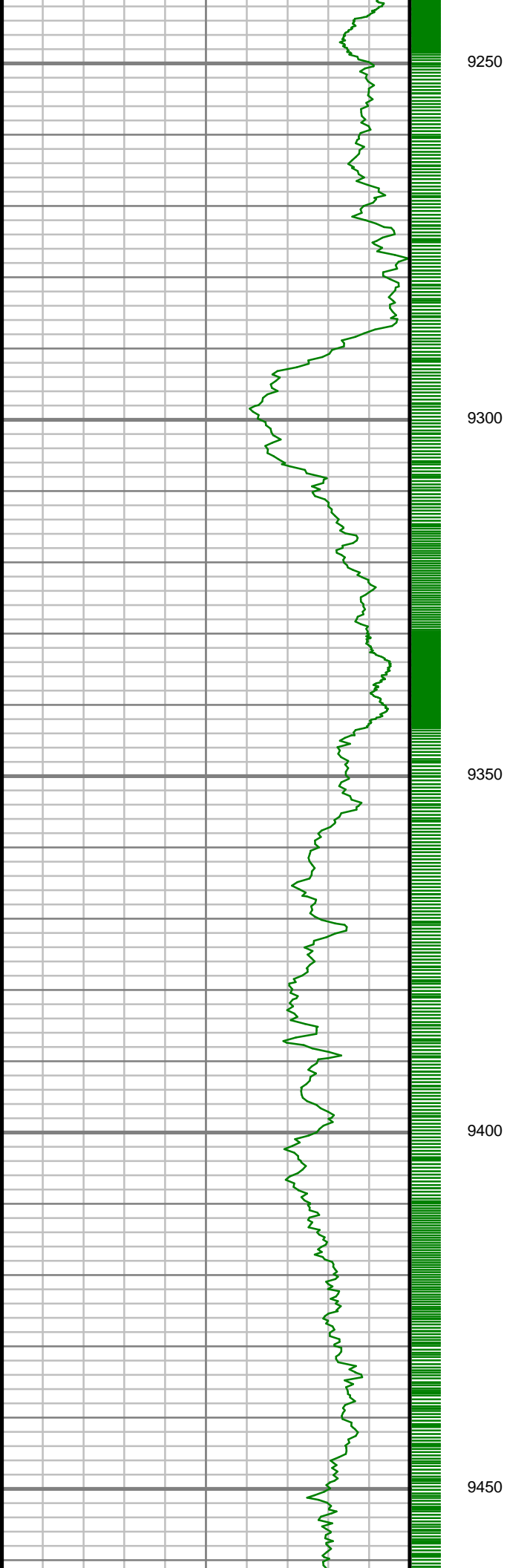
9200



S: 77 MD: 9021.00 ft Inc: 89.77
deg Az: 181.11 deg TVD:
6957.43 ft

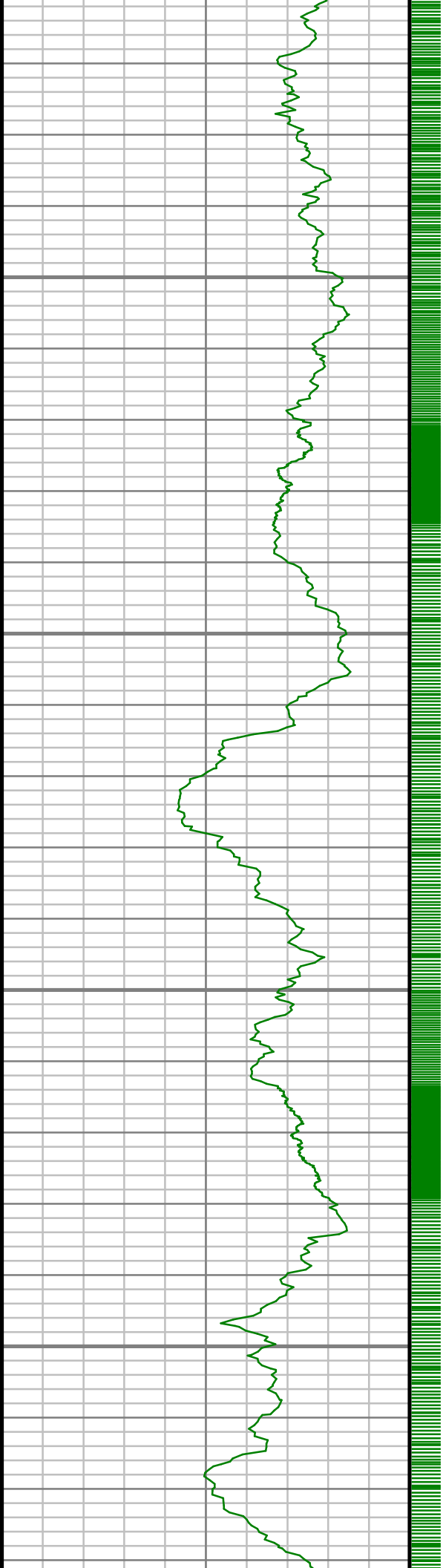
S: 78 MD: 9116.00 ft Inc: 88.86
deg Az: 181.63 deg TVD:
6958.58 ft

S: 79 MD: 9211.00 ft Inc: 89.19
deg Az: 180.79 deg TVD:
6960.19 ft



S: 80 MD: 9305.00 ft Inc: 89.53
deg Az: 180.80 deg TVD:
6961.24 ft

S: 81 MD: 9400.00 ft Inc: 90.03
deg Az: 180.66 deg TVD:
6961.60 ft

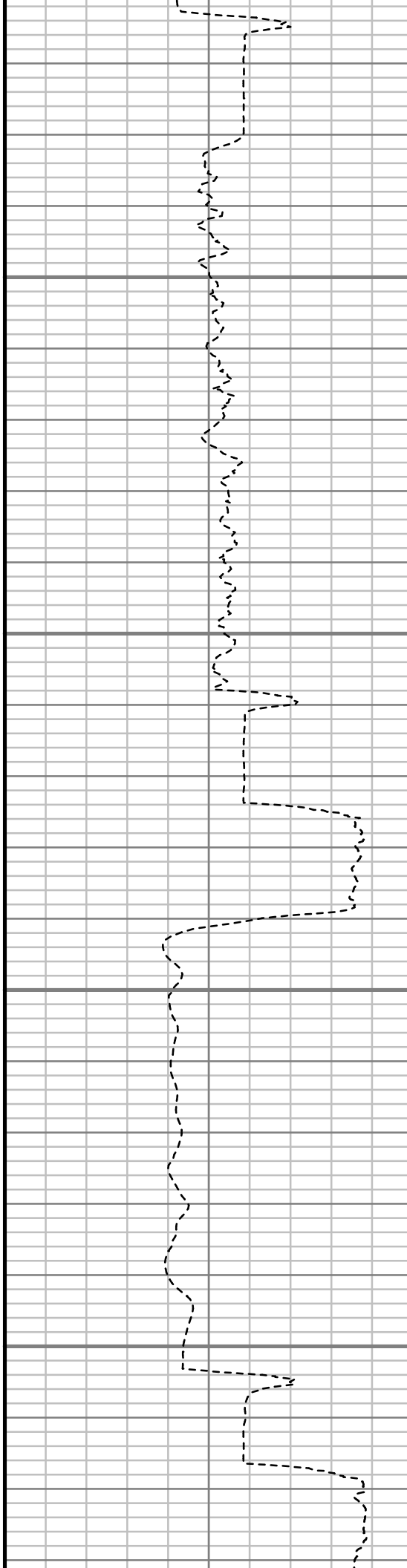


9500

9550

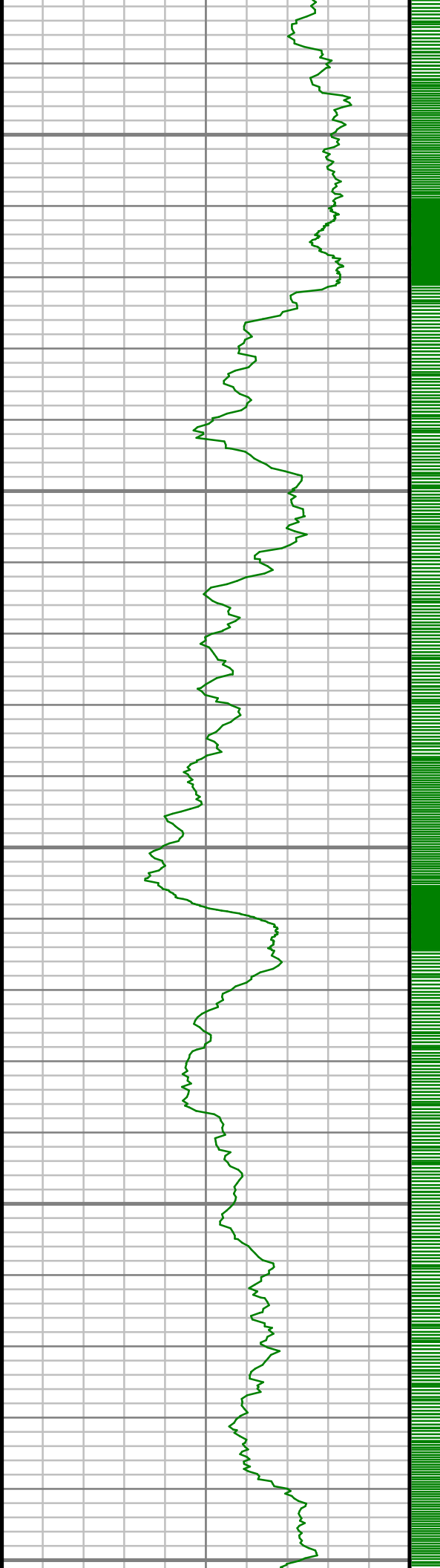
9600

9650



S: 82 MD: 9495.00 ft Inc: 88.86
deg Az: 181.10 deg TVD:
6962.52 ft

S: 83 MD: 9590.00 ft Inc: 88.79
deg Az: 179.73 deg TVD:
6964.46 ft



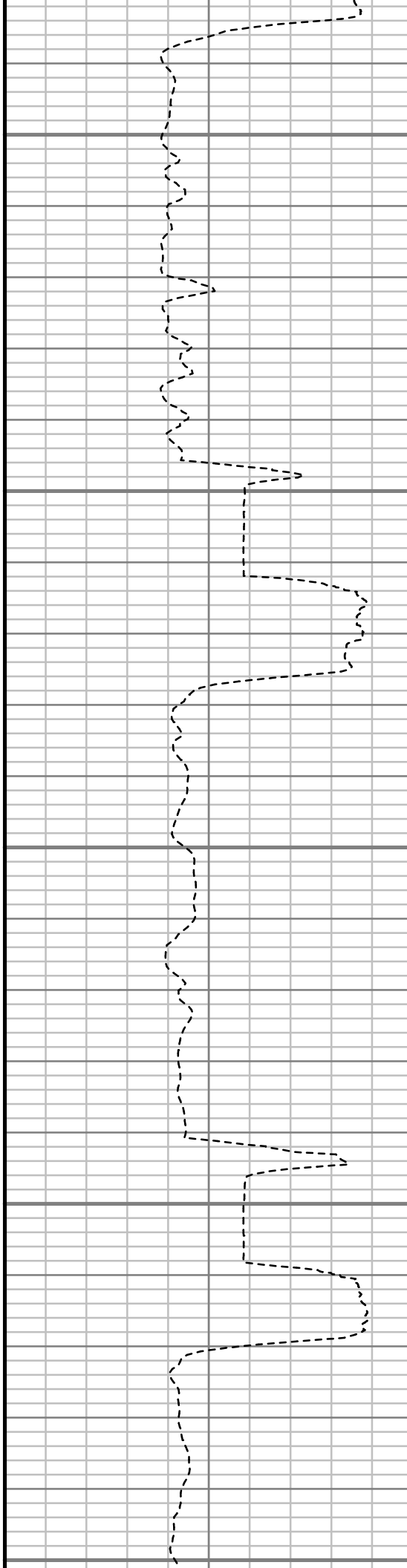
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9750

9800

9850

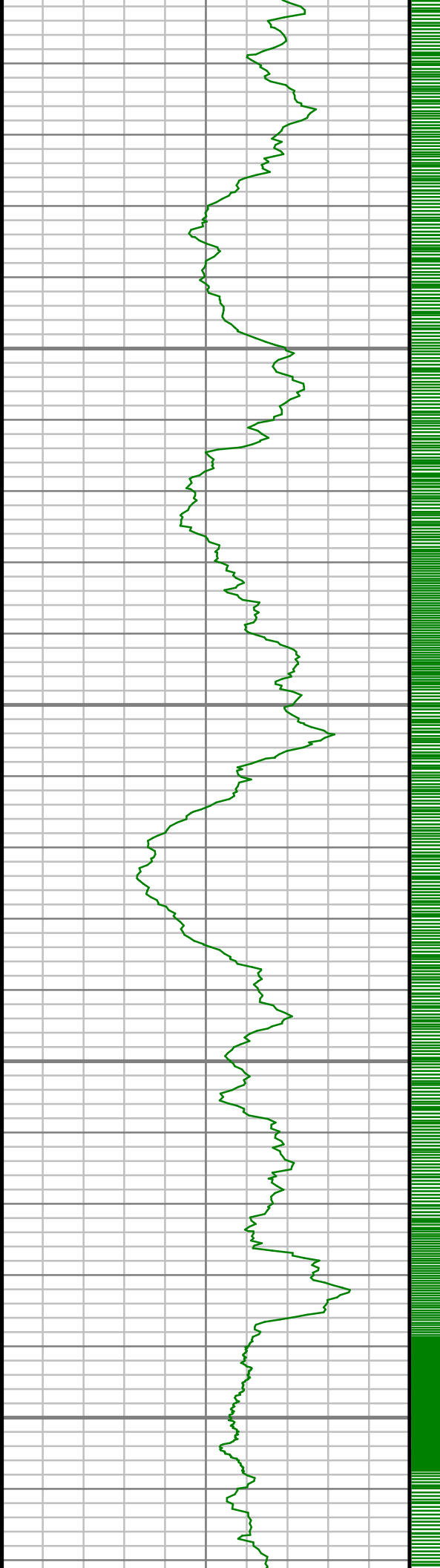
9900



S: 84 MD: 9685.00 ft Inc: 90.03
deg Az: 179.85 deg TVD:
6965.43 ft

S: 85 MD: 9779.00 ft Inc: 90.13
deg Az: 179.54 deg TVD:
6965.30 ft

S: 86 MD: 9874.00 ft Inc: 90.57
deg Az: 178.54 deg TVD:
6964.71 ft



9950

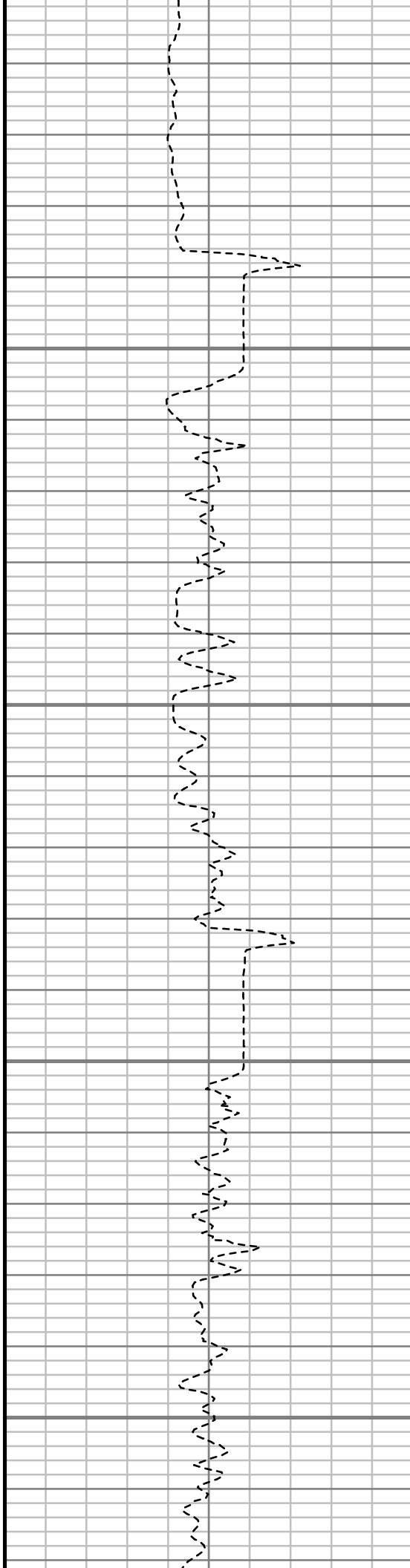
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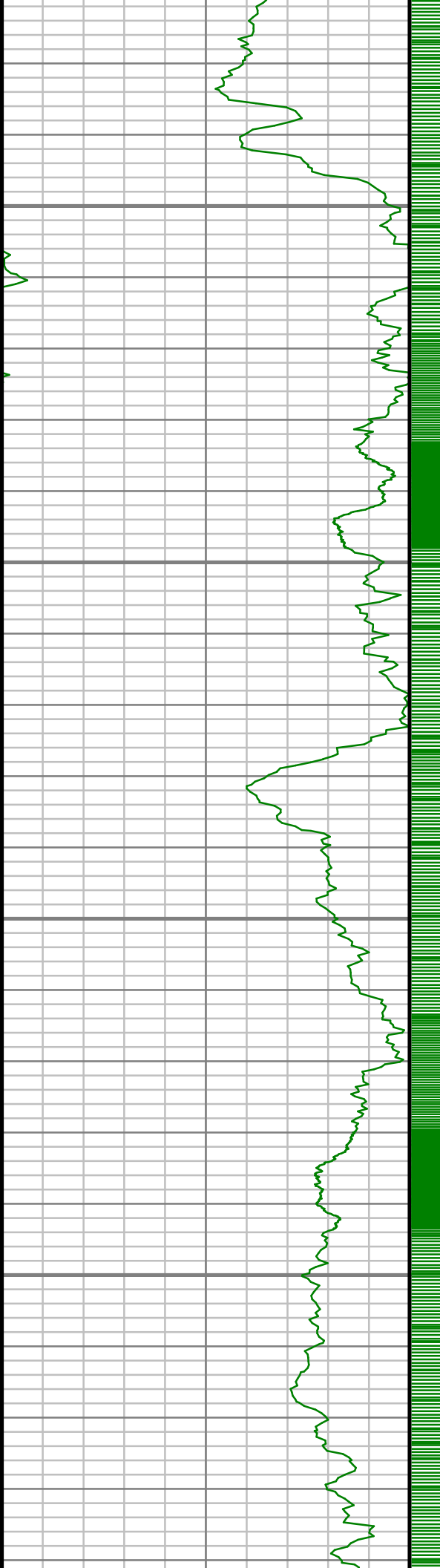
10050

10100

S: 87 MD: 9969.00 ft Inc: 89.46
deg Az: 178.52 deg TVD:
6964.69 ft

S: 88 MD: 10064.00 ft Inc:
88.22 deg Az: 178.55 deg TVD:
6966.61 ft





10150

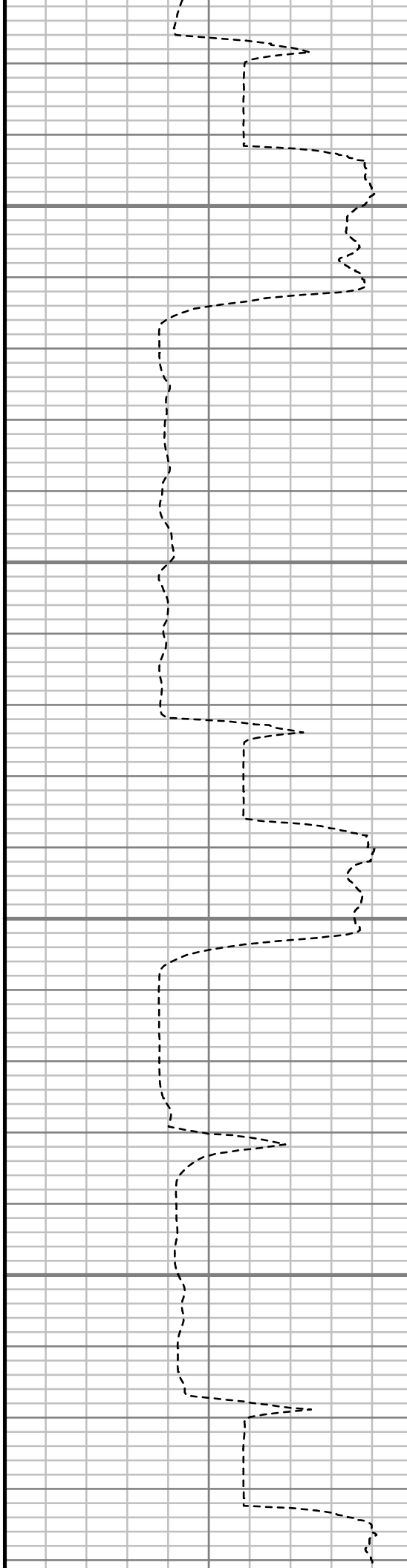
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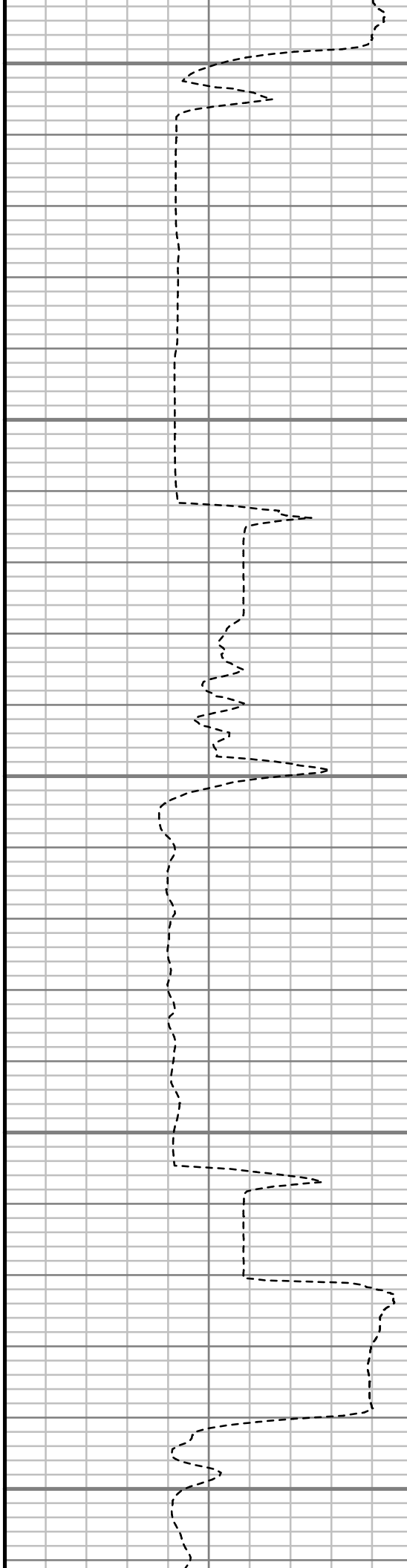
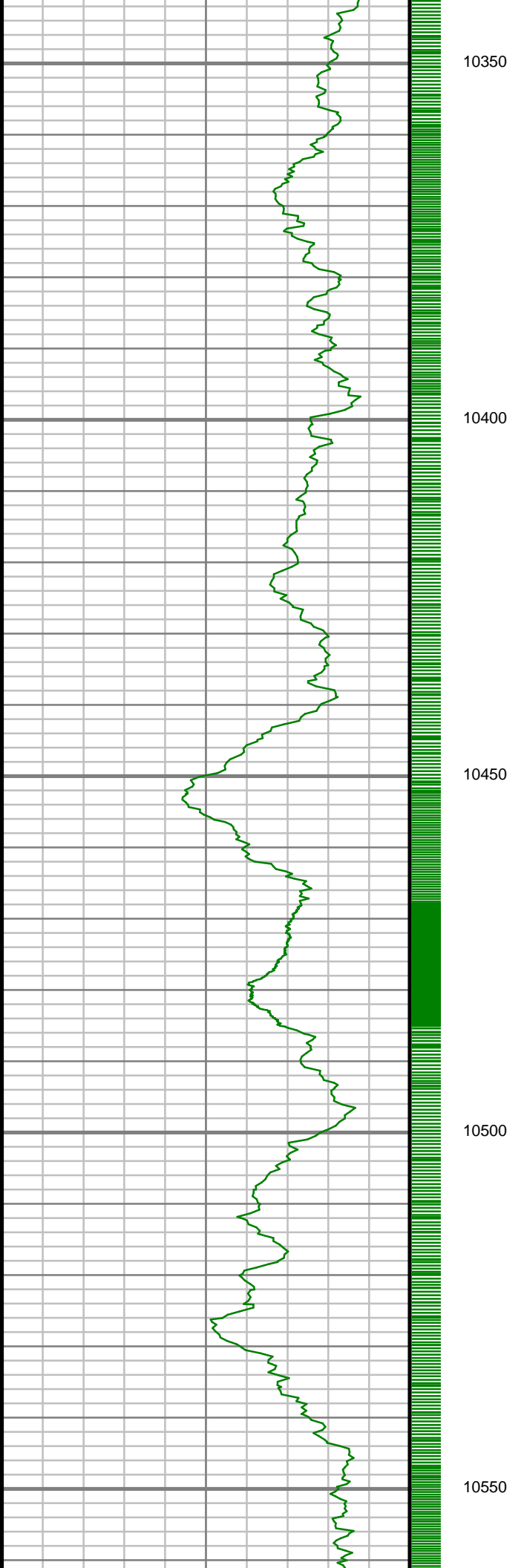
10250

10300

S: 89 MD: 10158.00 ft Inc:
89.16 deg Az: 179.31 deg TVD:
6968.76 ft

S: 90 MD: 10253.00 ft Inc:
89.90 deg Az: 179.98 deg TVD:
6969.54 ft

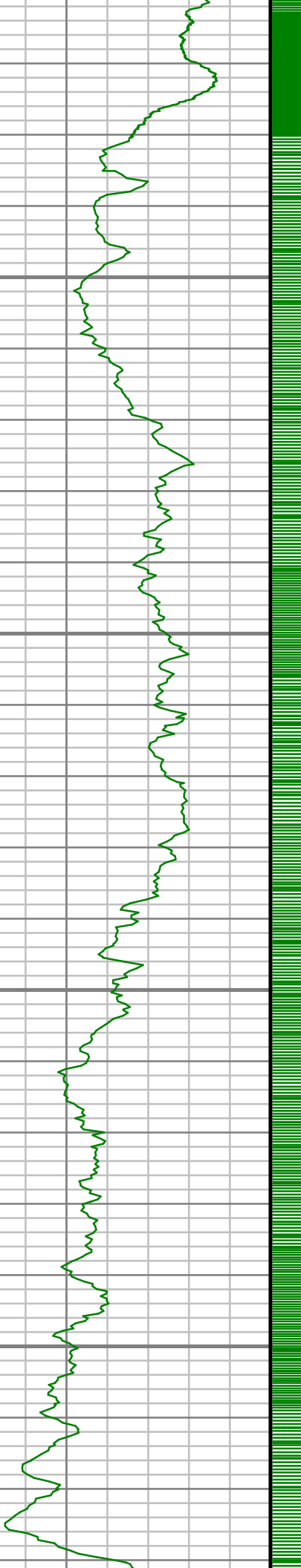




S: 91 MD: 10348.00 ft Inc:
90.27 deg Az: 179.89 deg TVD:
6969.40 ft

S: 92 MD: 10442.00 ft Inc:
89.03 deg Az: 179.49 deg TVD:
6969.98 ft

S: 93 MD: 10537.00 ft Inc:
89.63 deg Az: 180.21 deg TVD:
6971.09 ft

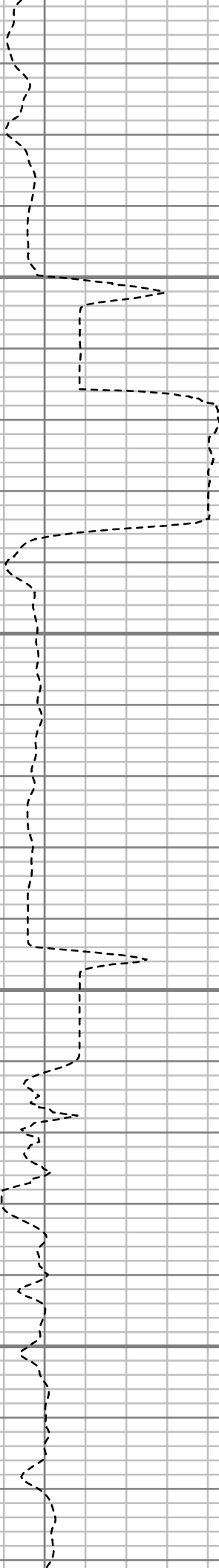


10600

10650

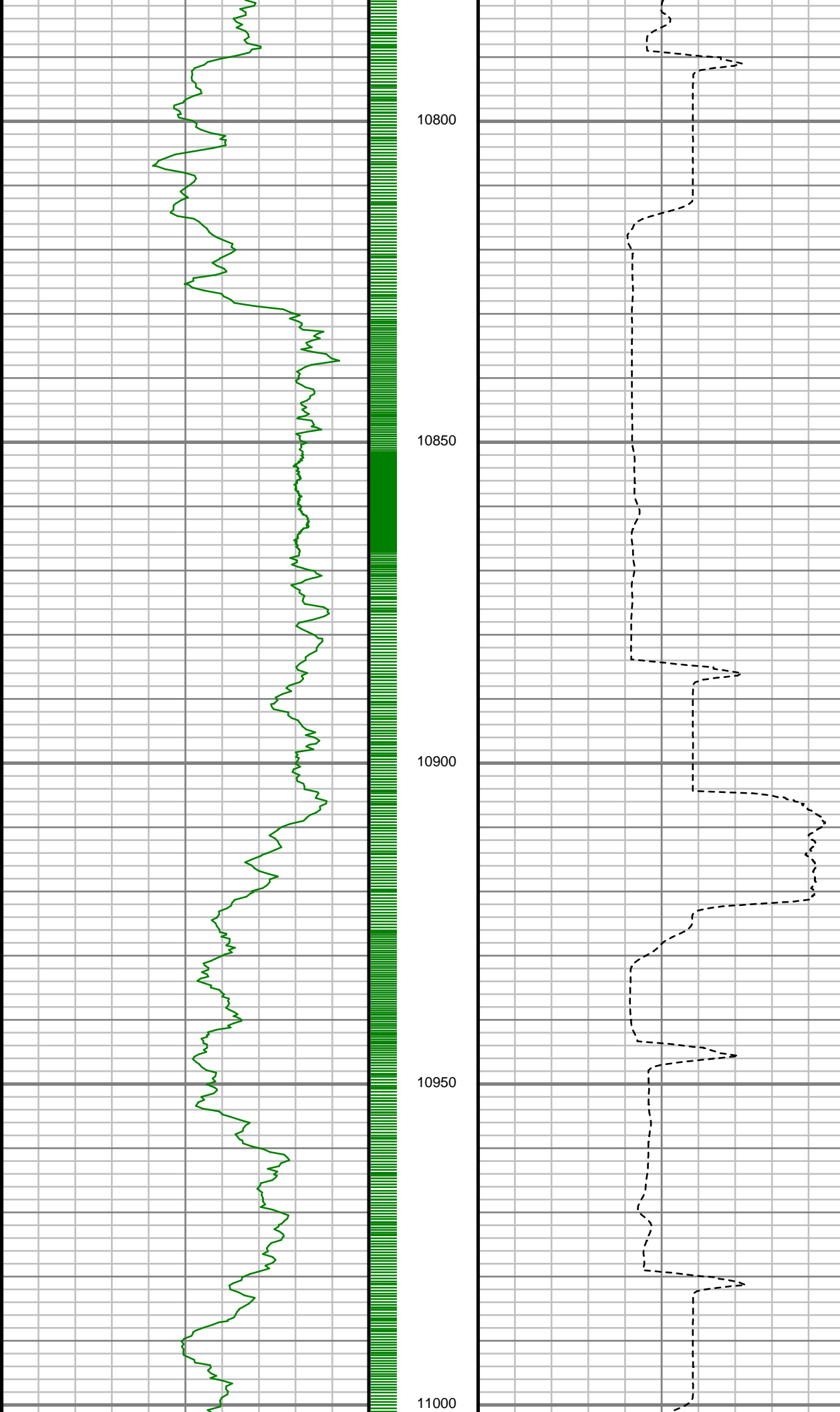
10700

10750



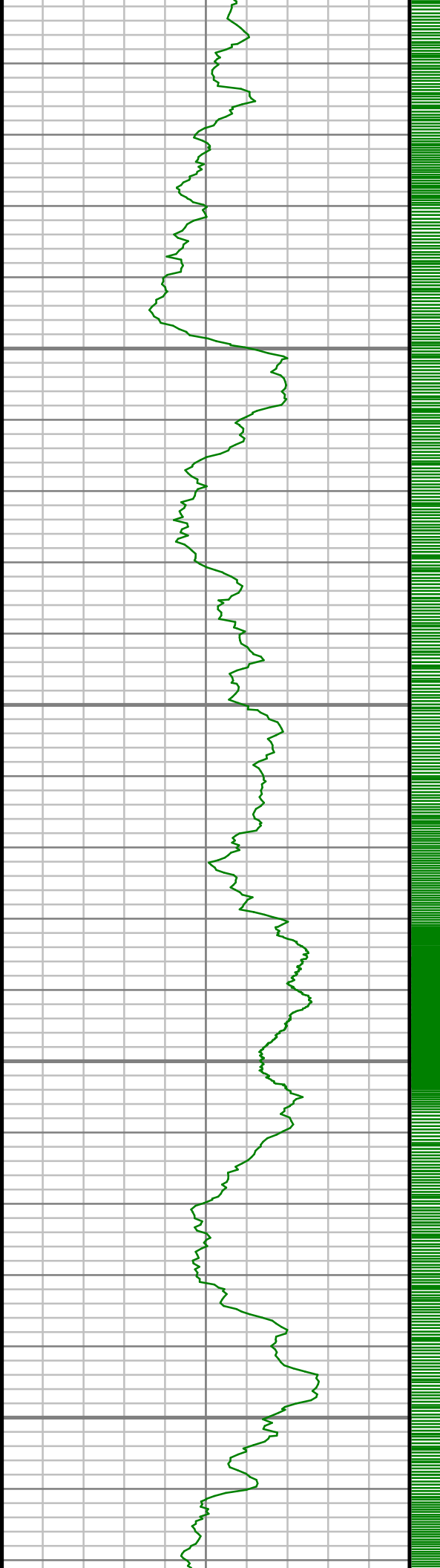
S: 94 MD: 10632.00 ft Inc:
90.91 deg Az: 179.78 deg TVD:
6970.65 ft

S: 95 MD: 10727.00 ft Inc:
90.64 deg Az: 179.58 deg TVD:
6969.36 ft



S: 96 MD: 10822.00 ft Inc:
91.21 deg Az: 179.16 deg TVD:
6967.83 ft

S: 97 MD: 10917.00 ft Inc:
89.70 deg Az: 179.10 deg TVD:
6967.08 ft

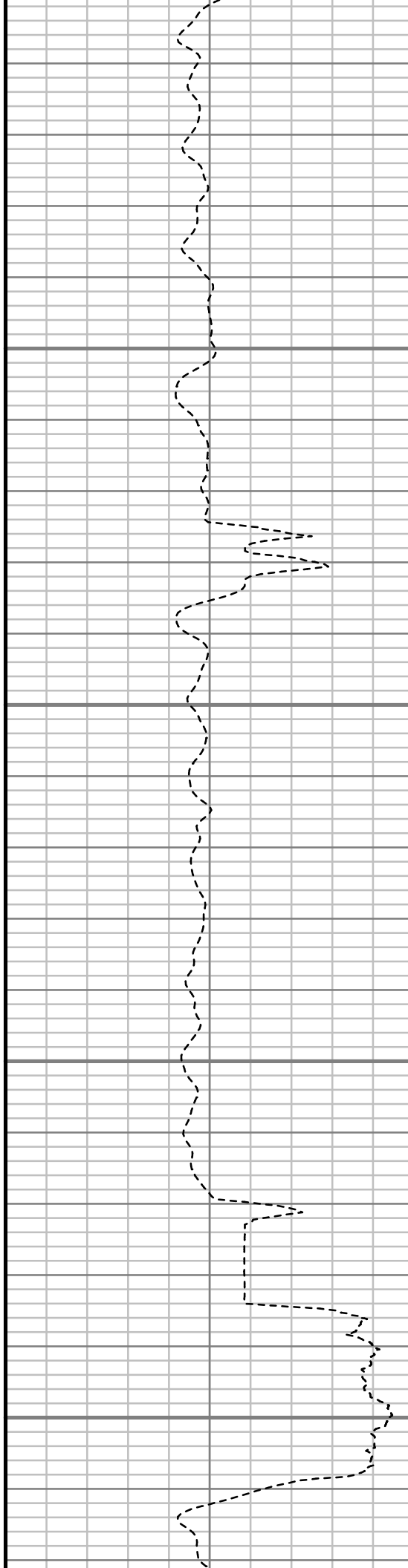


11050

11100

11150

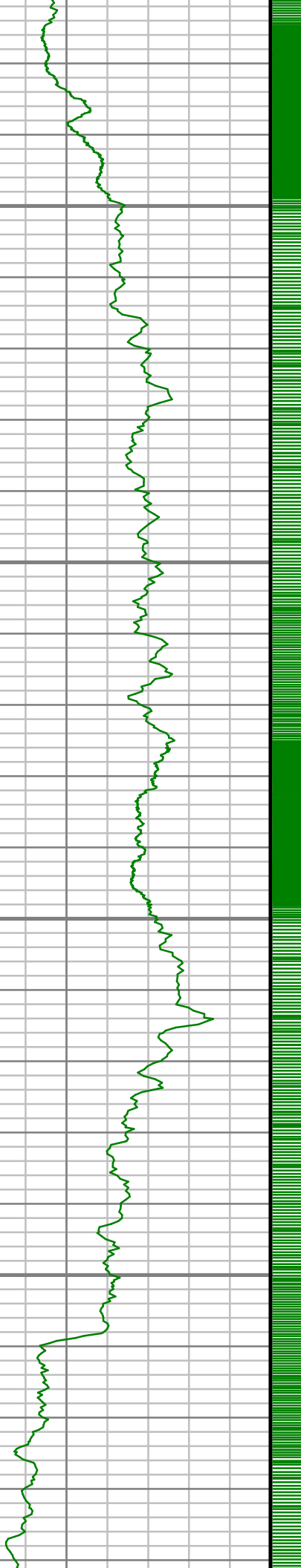
11200



S: 98 MD: 11012.00 ft Inc:
88.59 deg Az: 178.64 deg TVD:
6968.50 ft

S: 99 MD: 11106.00 ft Inc:
87.72 deg Az: 178.11 deg TVD:
6971.53 ft

S: 100 MD: 11201.00 ft Inc:
88.26 deg Az: 178.75 deg TVD:
6974.86 ft

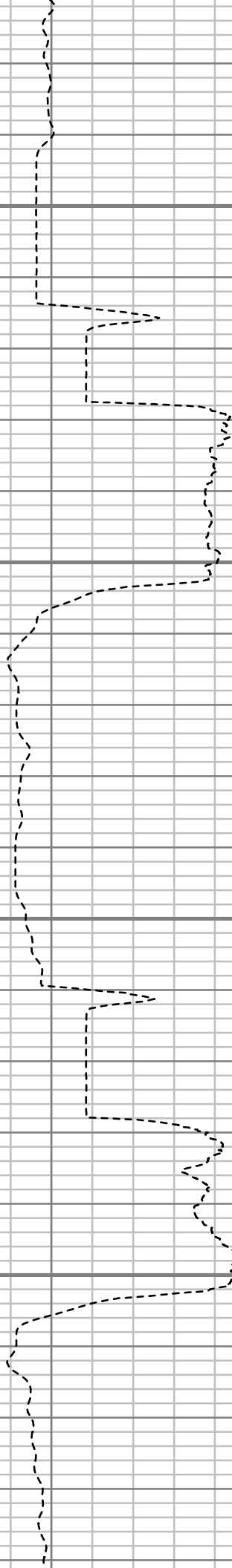


11250

11300

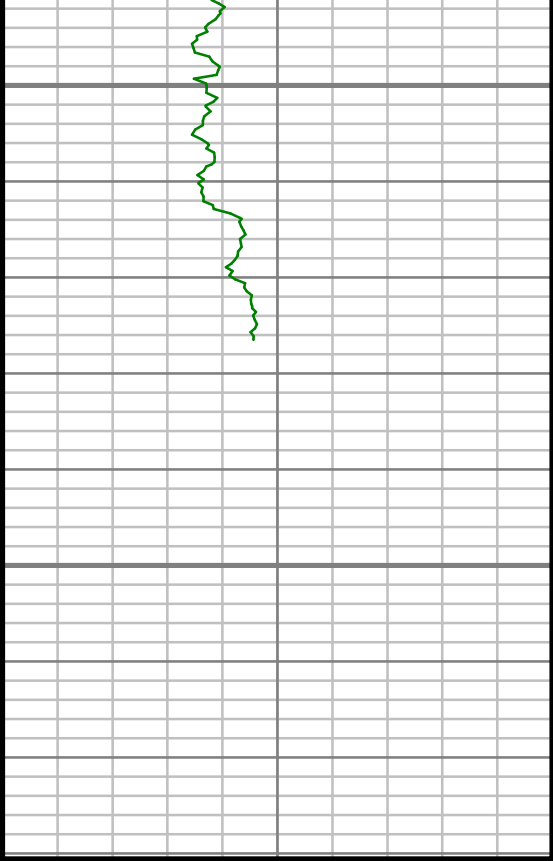
11350

11400



S: 101 MD: 11295.00 ft Inc:
89.36 deg Az: 178.18 deg TVD:
6976.81 ft

S: 102 MD: 11390.00 ft Inc:
89.16 deg Az: 175.65 deg TVD:
6978.04 ft

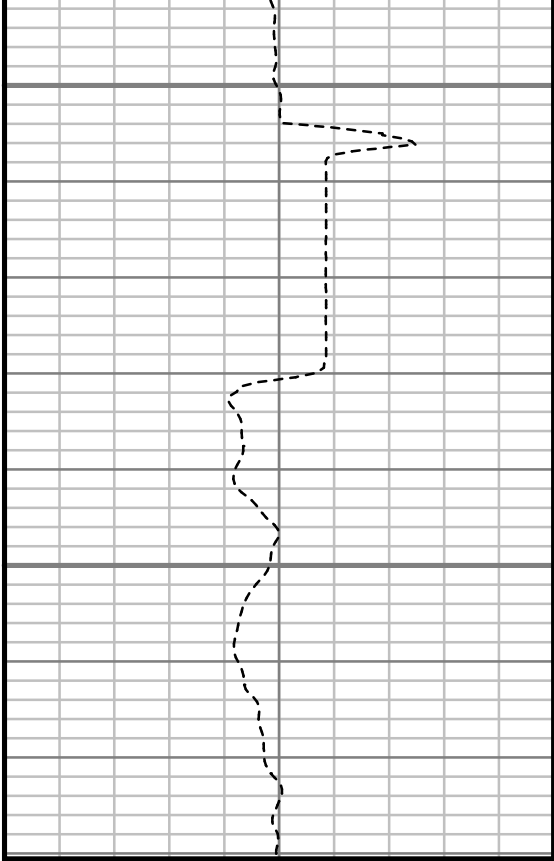


Gamma Ray (GR)		
0	Unit = aapi	150

11450

11500

MEASURED DEPTH
1,240 (ft)



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

S: 103 MD: 11466.00 ft Inc:
90.44 deg Az: 177.15 deg TVD:
6978.31 ft

Comments



MWD Survey Report

Well Location	RUHL
Well Name	RUHL 1E-32H-B264
Survey Date	12/12/2014
Latitude	40°6'5.177"N
Longitude	104°34'24.953"W
Btotal	52506, 52514 nT
Dip	66.71 deg
Magnetic Declination	8.36, 8.37 deg
North Reference	True North
Grid Correction	None
Depth Reference	RKB (25.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 180.00Azim (deg)
Operator(s)	C. WILSON, D. PADULA, S. WAXLER, T. LE

Well Notes

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	"/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
245.00	3.39	44.53	244.86	-5.17	5.17	5.09	7.25	44.53	1.39
336.00	4.71	48.80	335.63	-9.55	9.55	9.79	13.68	45.70	1.48
427.00	5.96	58.30	426.23	-14.49	14.49	16.62	22.05	48.90	1.68
519.00	7.27	65.92	517.62	-19.38	19.38	25.99	32.42	53.30	1.72
608.00	7.80	73.68	605.85	-23.37	23.37	36.93	43.71	57.67	1.29
698.00	9.22	77.55	694.86	-26.64	26.64	49.83	56.51	61.87	1.70
789.00	10.92	78.70	784.46	-29.91	29.91	65.40	71.92	65.43	1.88
879.00	11.48	74.01	872.75	-34.04	34.04	82.37	89.13	67.55	1.19
970.00	11.30	68.16	961.96	-39.85	39.85	99.35	107.04	68.14	1.28
1060.00	11.37	64.41	1050.20	-46.97	46.97	115.54	124.72	67.88	0.82
1152.00	10.93	66.12	1140.47	-54.41	54.41	131.69	142.49	67.55	0.60
1277.00	10.19	63.44	1263.35	-64.16	64.16	152.42	165.37	67.17	0.71
1459.00	11.85	66.74	1441.99	-78.73	78.73	183.99	200.13	66.83	0.98
1641.00	12.70	62.82	1619.83	-95.25	95.25	218.96	238.78	66.49	0.65
1822.00	10.90	64.05	1797.00	-111.83	111.83	252.04	275.73	66.07	1.01
2003.00	9.85	65.01	1975.04	-125.86	125.86	281.46	308.31	65.91	0.59
2183.00	8.05	72.10	2152.84	-136.24	136.24	307.41	336.25	66.10	1.17
2366.00	9.04	67.15	2333.81	-145.76	145.76	332.86	363.38	66.35	0.67

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
2549.00	9.43	68.45	2514.44	-156.85	156.85	360.06	392.74	66.46	0.24
2731.00	10.13	69.63	2693.79	-167.90	167.90	388.93	423.63	66.65	0.40
2912.00	10.45	70.75	2871.88	-178.86	178.86	419.36	455.91	66.90	0.21
3092.00	9.96	66.97	3049.03	-190.33	190.33	449.10	487.77	67.03	0.46
3275.00	8.65	63.99	3229.62	-202.56	202.56	476.05	517.35	66.95	0.76
3457.00	9.29	72.03	3409.40	-213.10	213.10	502.32	545.66	67.01	0.77
3637.00	10.37	58.78	3586.78	-225.99	225.99	530.01	576.17	66.91	1.39
3824.00	8.82	60.94	3771.15	-241.68	241.68	556.94	607.12	66.54	0.85
4013.00	9.22	67.31	3957.82	-254.56	254.56	583.59	636.69	66.43	0.57
4203.00	7.12	71.25	4145.88	-264.22	264.22	608.79	663.66	66.54	1.14
4392.00	6.80	66.79	4333.49	-272.40	272.40	630.17	686.53	66.62	0.33
4581.00	3.24	66.45	4521.73	-278.95	278.95	645.37	703.07	66.62	1.88
4771.00	0.72	2.94	4711.61	-282.28	282.28	650.36	708.98	66.54	1.57
4961.00	0.12	296.77	4901.61	-283.56	283.56	650.24	709.38	66.44	0.36
5151.00	0.89	265.82	5091.60	-283.55	283.55	648.59	707.86	66.39	0.41
5341.00	1.13	192.28	5281.58	-281.61	281.61	646.73	705.38	66.47	0.64
5530.00	0.27	273.95	5470.56	-279.82	279.82	645.89	703.90	66.58	0.59
5720.00	1.02	12.97	5660.55	-281.50	281.50	645.82	704.51	66.45	0.58

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
5910.00	0.45	244.86	5850.54	-282.84	282.84	645.53	704.77	66.34	0.71
6099.00	1.04	134.76	6039.53	-281.31	281.31	646.08	704.66	66.47	0.67
6289.00	0.51	110.14	6229.52	-279.81	279.81	648.09	705.92	66.65	0.33
6384.00	0.67	52.27	6324.51	-280.00	280.00	648.93	706.76	66.66	0.62
6431.00	5.70	180.75	6371.44	-277.83	277.83	649.12	706.08	66.83	13.08
6478.00	12.73	182.09	6417.80	-270.32	270.32	648.90	702.95	67.38	14.94
6525.00	13.75	183.17	6463.55	-259.57	259.57	648.40	698.43	68.18	2.24
6573.00	17.89	183.07	6509.73	-246.50	246.50	647.69	693.02	69.16	8.62
6620.00	22.64	180.55	6553.81	-230.24	230.24	647.22	686.95	70.42	10.27
6668.00	28.77	180.07	6597.04	-209.44	209.44	647.12	680.17	72.07	12.78
6715.00	34.02	181.50	6637.14	-184.97	184.97	646.76	672.69	74.04	11.28
6763.00	35.64	181.28	6676.54	-157.56	157.56	646.10	665.03	76.30	3.40
6810.00	39.97	181.97	6713.67	-128.77	128.77	645.27	658.00	78.71	9.24
6858.00	44.74	180.87	6749.13	-96.45	96.45	644.48	651.66	81.49	10.07
6905.00	46.47	179.16	6782.01	-62.87	62.87	644.48	647.54	84.43	4.51
6952.00	53.20	178.81	6812.31	-26.98	26.98	645.12	645.69	87.61	14.33
6999.00	58.53	179.68	6838.67	11.91	-11.91	645.63	645.74	91.06	11.45
7047.00	61.94	181.73	6862.50	53.56	-53.56	645.10	647.32	94.75	8.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
7094.00	66.03	182.10	6883.11	95.76	-95.76	643.69	650.77	98.46	8.74
7142.00	70.84	181.10	6900.75	140.37	-140.37	642.45	657.60	102.33	10.20
7189.00	75.75	180.44	6914.25	185.37	-185.37	641.84	668.08	106.11	10.53
7237.00	81.71	179.89	6923.63	232.42	-232.42	641.71	682.50	109.91	12.47
7281.00	87.98	179.61	6927.59	276.22	-276.22	641.90	698.81	113.28	14.29
7424.00	90.74	178.98	6929.18	419.19	-419.19	643.66	768.13	123.07	1.98
7514.00	88.89	177.47	6929.47	509.14	-509.14	646.44	822.87	128.22	2.65
7605.00	88.06	177.15	6931.89	600.01	-600.01	650.71	885.12	132.68	0.98
7696.00	87.11	176.46	6935.72	690.78	-690.78	655.78	952.48	136.49	1.29
7791.00	87.38	177.86	6940.28	785.55	-785.55	660.48	1026.32	139.94	1.50
7886.00	88.49	180.02	6943.70	880.47	-880.47	662.23	1101.72	143.05	2.56
7980.00	87.75	180.02	6946.78	974.42	-974.42	662.19	1178.13	145.80	0.79
8075.00	89.40	179.42	6949.15	1069.38	-1069.38	662.66	1258.05	148.21	1.85
8170.00	88.66	179.73	6950.76	1164.37	-1164.37	663.37	1340.08	150.33	0.85
8264.00	90.34	180.01	6951.59	1258.36	-1258.36	663.58	1422.60	152.20	1.81
8360.00	90.27	180.36	6951.08	1354.36	-1354.36	663.26	1508.05	153.91	0.37
8454.00	89.66	181.57	6951.14	1448.34	-1448.34	661.68	1592.33	155.45	1.43
8549.00	91.11	182.87	6950.50	1543.26	-1543.26	658.00	1677.68	156.91	2.05

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft
8643.00	89.46	182.16	6950.03	1637.17	-1637.17	653.87	1762.91	158.23	1.91
8737.00	88.89	182.02	6951.38	1731.09	-1731.09	650.44	1849.26	159.41	0.62
8832.00	87.92	182.22	6954.02	1825.99	-1825.99	646.92	1937.20	160.49	1.05
8927.00	89.09	183.64	6956.50	1920.83	-1920.83	642.07	2025.30	161.52	1.94
9021.00	89.77	181.11	6957.43	2014.74	-2014.74	638.18	2113.40	162.42	2.78
9116.00	88.86	181.63	6958.58	2109.70	-2109.70	635.90	2203.46	163.23	1.10
9211.00	89.19	180.79	6960.19	2204.67	-2204.67	633.90	2293.99	163.96	0.95
9305.00	89.53	180.80	6961.24	2298.65	-2298.65	632.59	2384.11	164.61	0.36
9400.00	90.03	180.66	6961.60	2393.64	-2393.64	631.39	2475.51	165.22	0.55
9495.00	88.86	181.10	6962.52	2488.63	-2488.63	629.93	2567.11	165.80	1.32
9590.00	88.79	179.73	6964.46	2583.60	-2583.60	629.24	2659.12	166.31	1.45
9685.00	90.03	179.85	6965.43	2678.59	-2678.59	629.59	2751.59	166.77	1.31
9779.00	90.13	179.54	6965.30	2772.59	-2772.59	630.10	2843.29	167.20	0.34
9874.00	90.57	178.54	6964.71	2867.57	-2867.57	631.69	2936.33	167.58	1.15
9969.00	89.46	178.52	6964.69	2962.54	-2962.54	634.13	3029.65	167.92	1.17
10064.00	88.22	178.55	6966.61	3057.49	-3057.49	636.55	3123.05	168.24	1.31
10158.00	89.16	179.31	6968.76	3151.45	-3151.45	638.31	3215.44	168.55	1.29
10253.00	89.90	179.98	6969.54	3246.44	-3246.44	638.90	3308.71	168.87	1.05

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	"/100ft
10348.00	90.27	179.89	6969.40	3341.44	-3341.44	639.01	3401.99	169.17	0.40
10442.00	89.03	179.49	6969.98	3435.44	-3435.44	639.52	3494.45	169.45	1.39
10537.00	89.63	180.21	6971.09	3530.43	-3530.43	639.78	3587.93	169.73	0.99
10632.00	90.91	179.78	6970.65	3625.42	-3625.42	639.79	3681.44	169.99	1.42
10727.00	90.64	179.58	6969.36	3720.41	-3720.41	640.32	3775.11	170.23	0.35
10822.00	91.21	179.16	6967.83	3815.40	-3815.40	641.36	3868.93	170.46	0.74
10917.00	89.70	179.10	6967.08	3910.38	-3910.38	642.80	3962.86	170.66	1.59
11012.00	88.59	178.64	6968.50	4005.35	-4005.35	644.68	4056.90	170.86	1.26
11106.00	87.72	178.11	6971.53	4099.26	-4099.26	647.35	4150.06	171.03	1.08
11201.00	88.26	178.75	6974.86	4194.17	-4194.17	649.95	4244.23	171.19	0.88
11295.00	89.36	178.18	6976.81	4288.11	-4288.11	652.46	4337.46	171.35	1.32
11390.00	89.16	175.65	6978.04	4382.96	-4382.96	657.57	4432.01	171.47	2.67
11466.00	90.44	177.15	6978.31	4458.80	-4458.80	662.34	4507.73	171.55	2.59

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Distance	Closure Direction	DLS
ft	deg	deg	ft	ft	ft	ft	ft	deg	°/100ft

5" = 100' FEET MD