

Remarks

ANADARKO PETROLEUM CORP. PRODUCTION AFE# 2085769

SCIENTIFIC DRILLING INTERNATIONAL JOB# 145599

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

FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO TOOL TEMPERATURE CURVE

RUN # 1: MWD / GAMMA RAY LOGGING RUN

SENSORS S/N: PULSER = 128-211 / CONT = 819 / MWD EYE =386 / GAMMA RAY =1031

BIT TO SENSOR OFFSETS: SURVEY = 52.30 FT. / GAMMA RAY = 43.05 FT.

RUN # 2: MWD / GAMMA RAY LOGGING RUN

SENSORS S/N: PULSER = 78-076 / CONT = 603 / MWD EYE =185 / GAMMA RAY =1076

BIT TO SENSOR OFFSETS: SURVEY = 59.08 FT. / GAMMA RAY = 49.83 FT.

SURVEY WELL NOTES:

SURVEYS FROM 0.0 FT. TO 1249 FT. WERE ACQUIRED BY MS GYRO MWD.

SURVEYS FROM 1249 FT. TO 12717 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

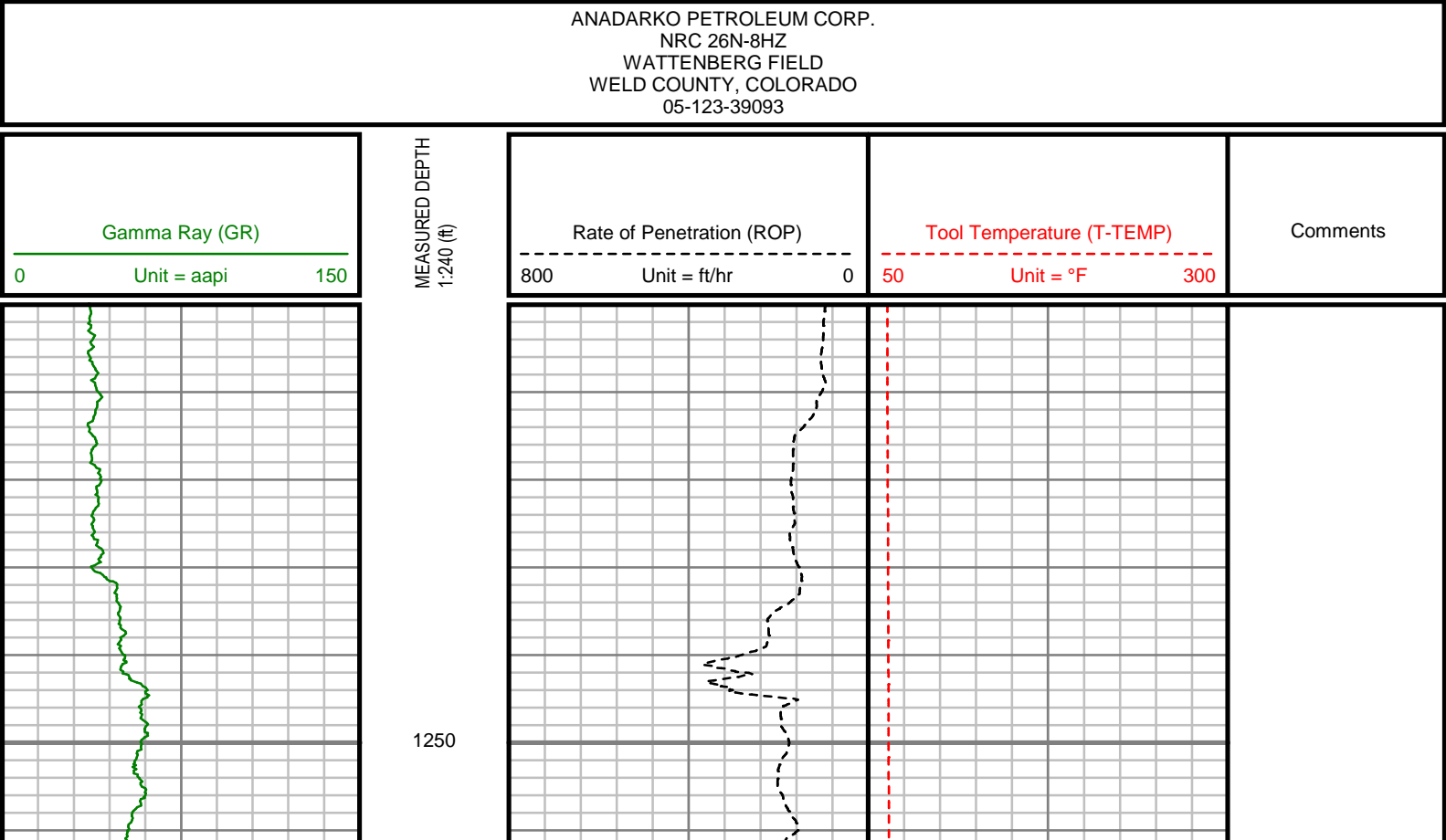
MNEMONICS LIST:

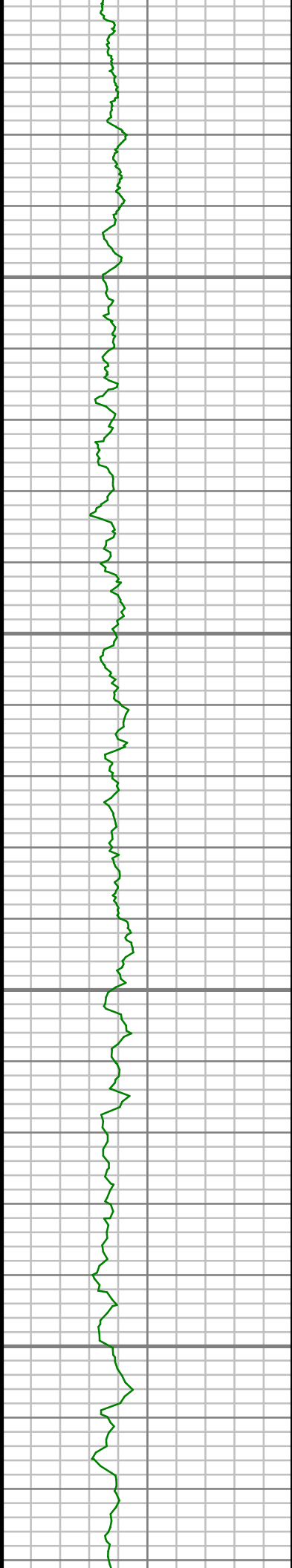
GR = GAMMA RAY

ROP = RATE OF PENETRATION

T-TEMP = TOOL TEMPERATURE

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.



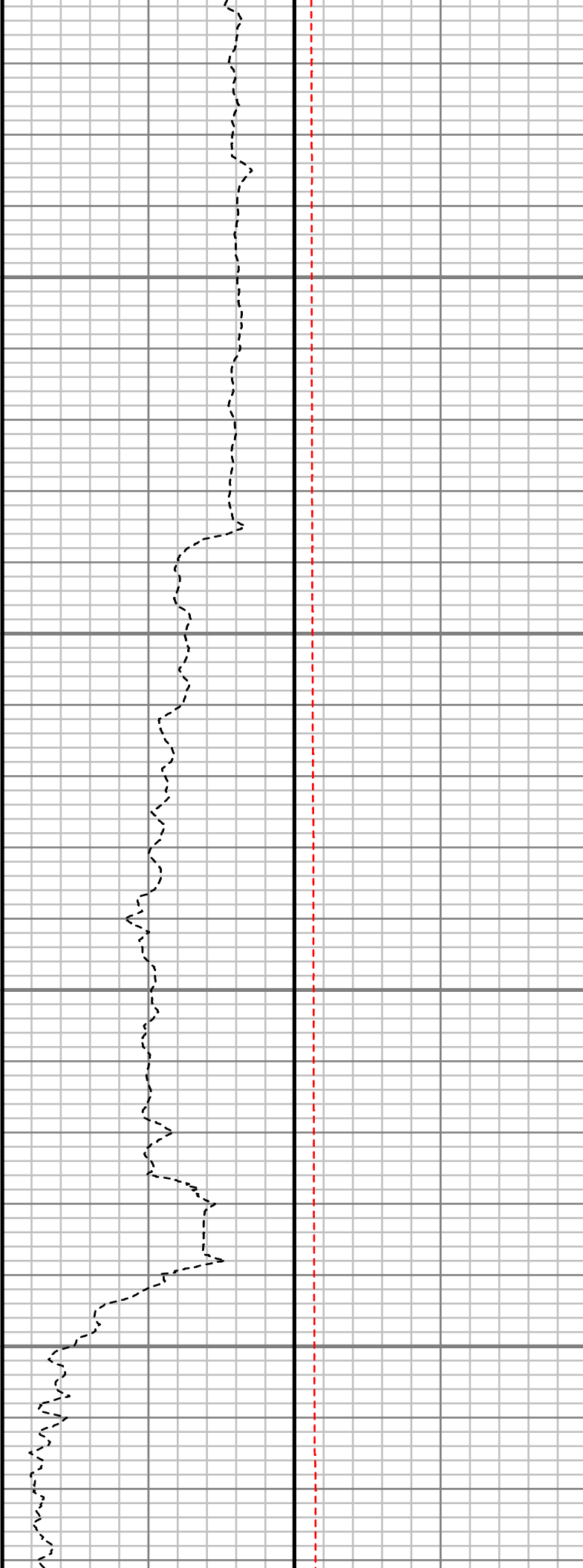


1300

1350

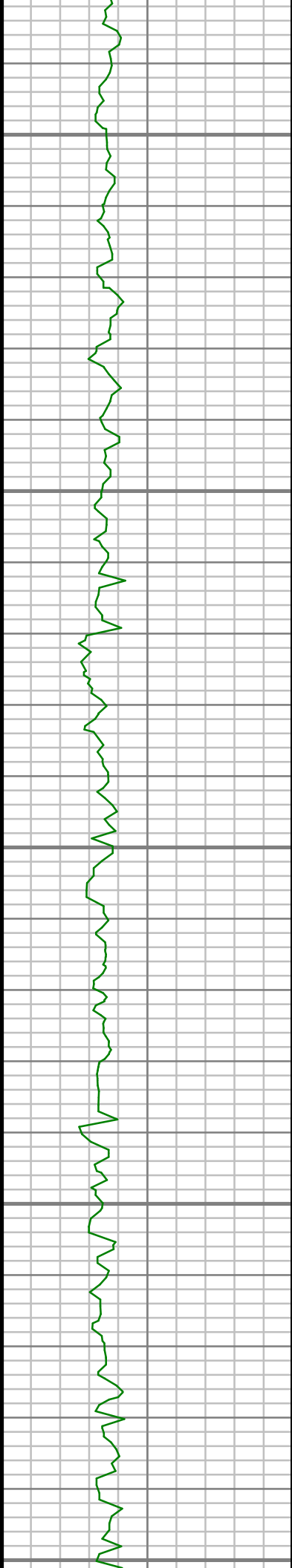
1400

1450



S: 14 MD: 1372.00 ft
Inc: 0.53 deg Az:
236.85 deg TVD:
1371.89 ft

S: 15 MD: 1464.00 ft
Inc: 2.41 deg Az:
142.20 deg TVD:
1463.86 ft



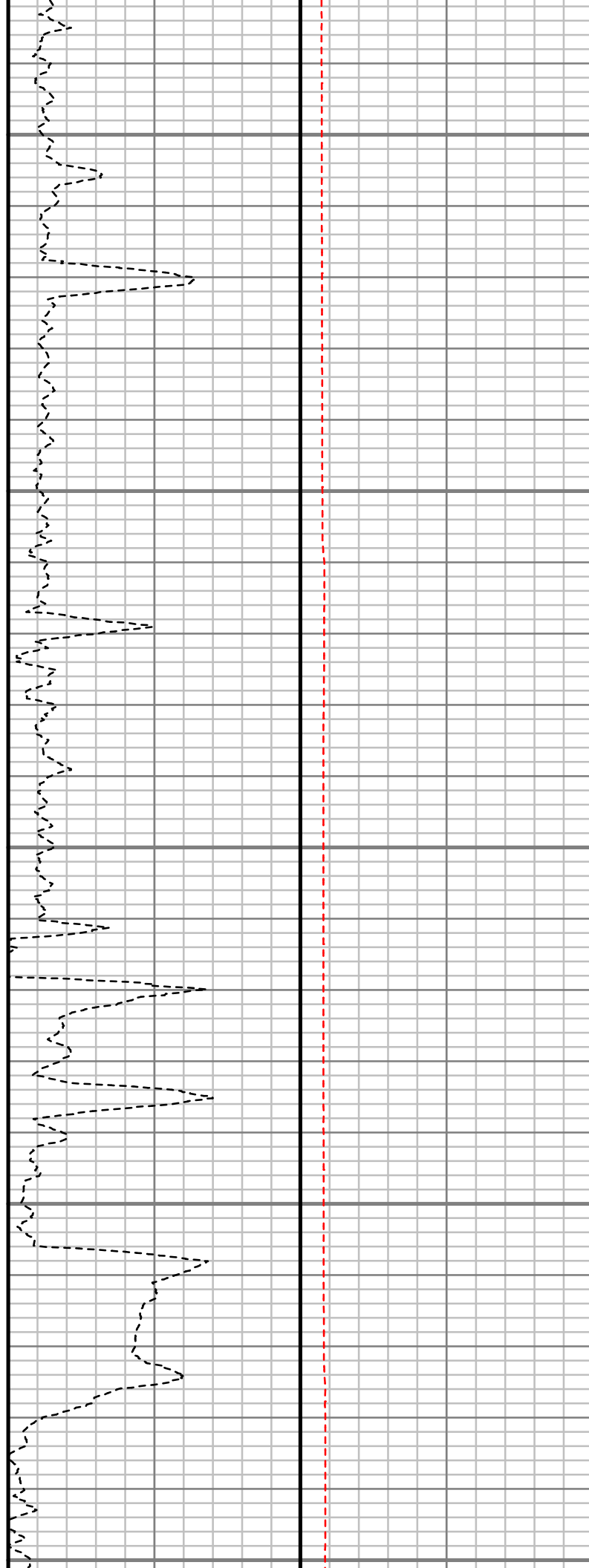
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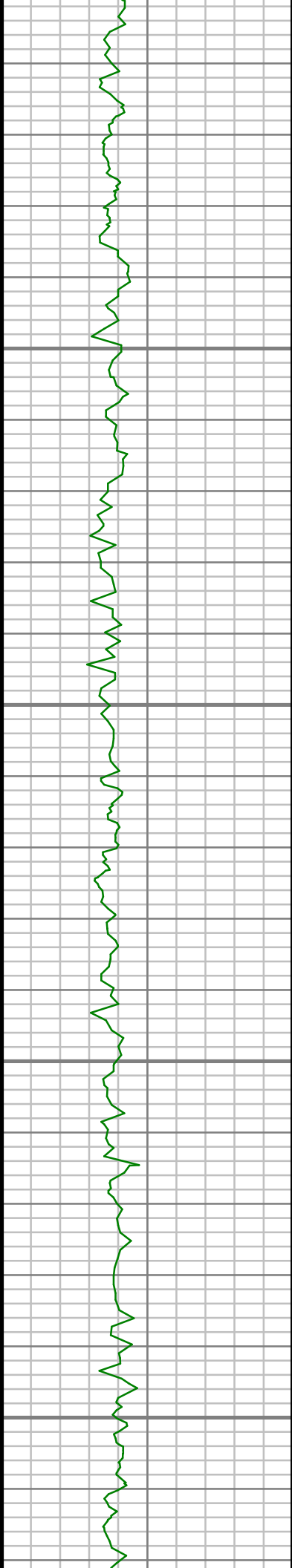
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1600

1650

1700



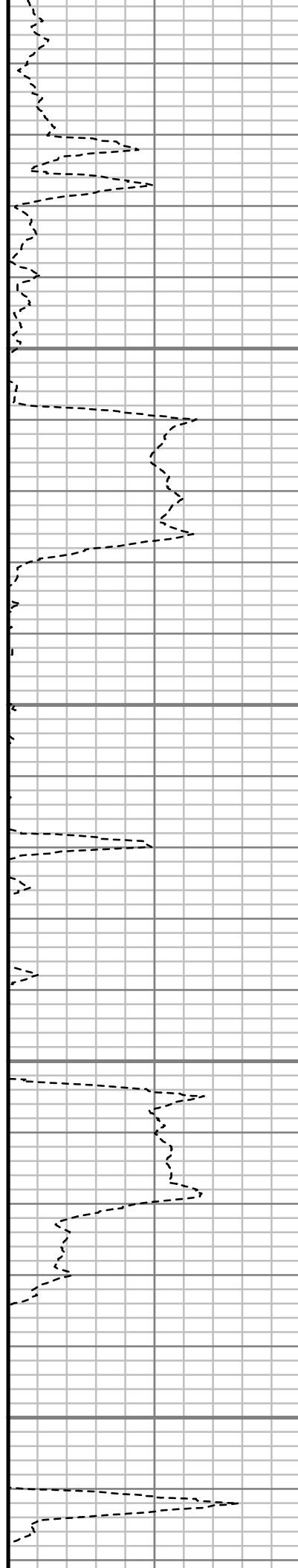


1750

1800

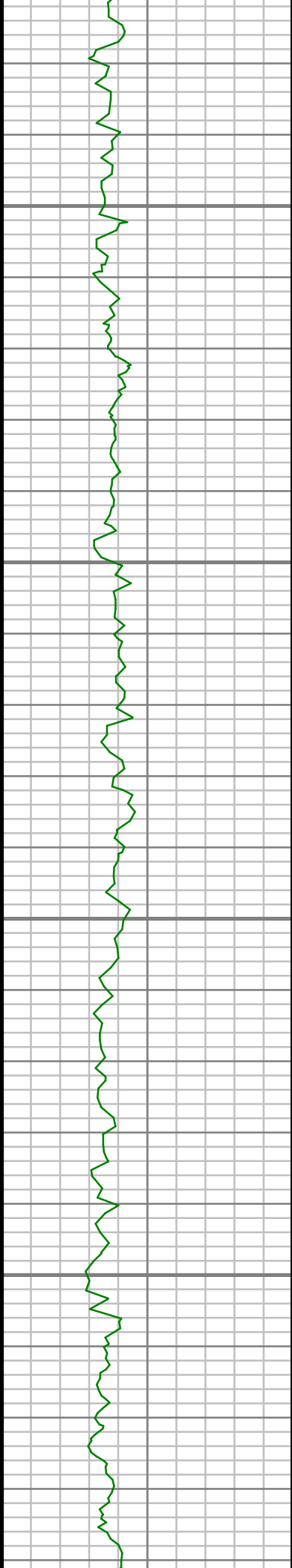
1850

1900



S: 16 MD: 1700.00 ft
Inc: 4.28 deg Az:
168.60 deg TVD:
1699.46 ft

S: 17 MD: 1755.00 ft
Inc: 5.57 deg Az:
153.87 deg TVD:
1754.26 ft

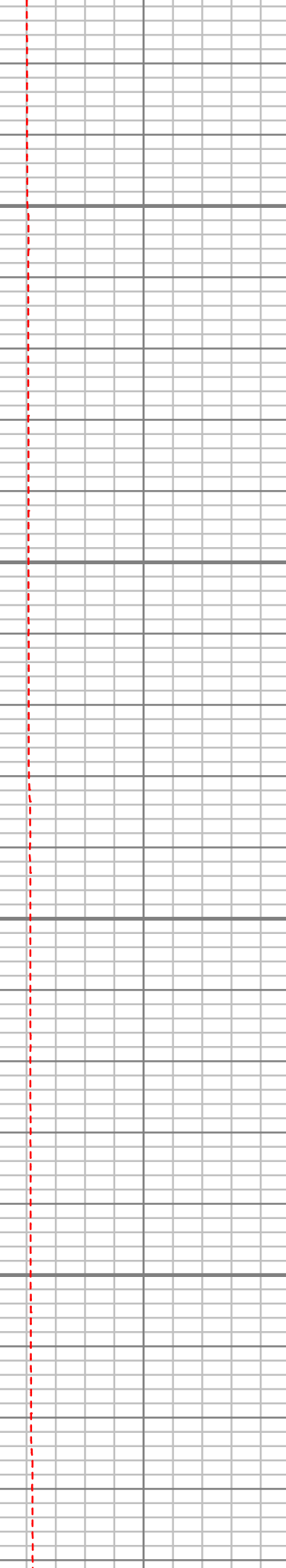
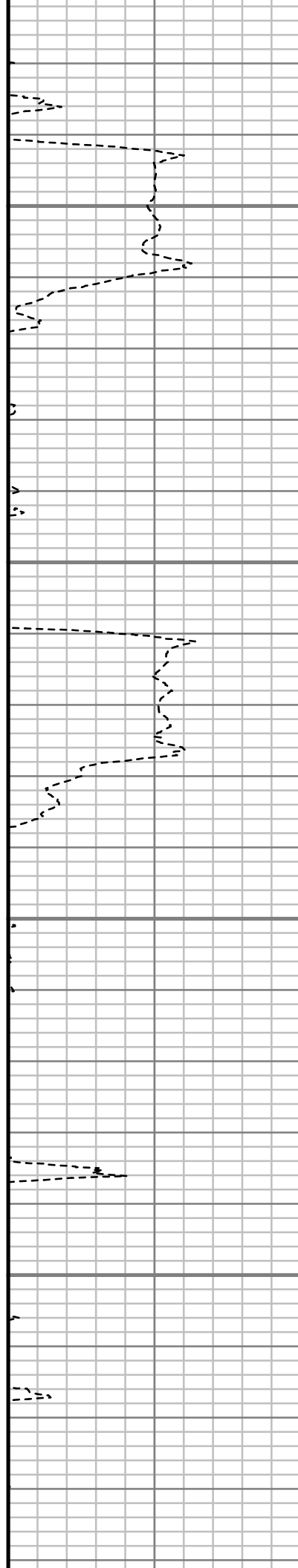


1950

2000

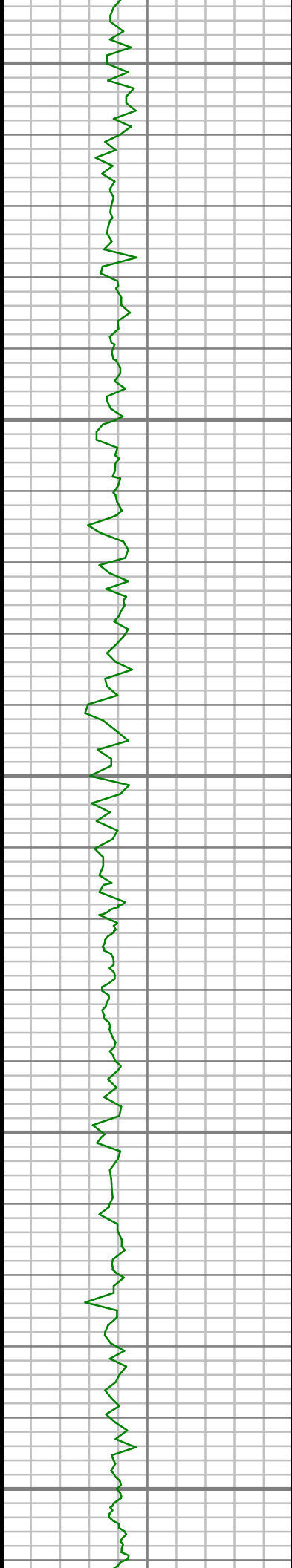
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2100

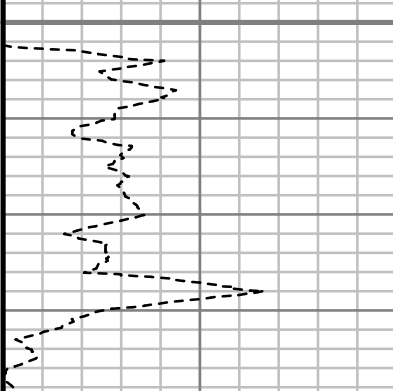


S: 18 MD: 1938.00 ft
Inc: 8.90 deg Az:
148.83 deg TVD:
1935.78 ft

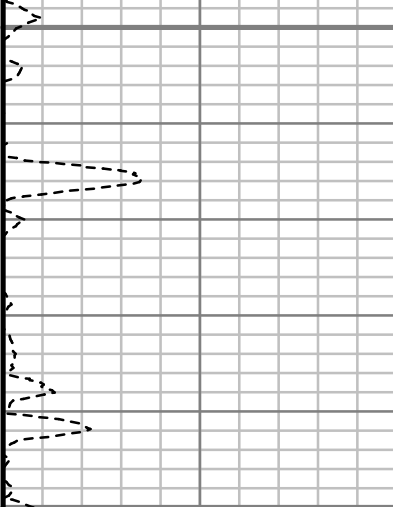
S: 19 MD: 2029.00 ft
Inc: 10.82 deg Az:
153.08 deg TVD:
2025.43 ft



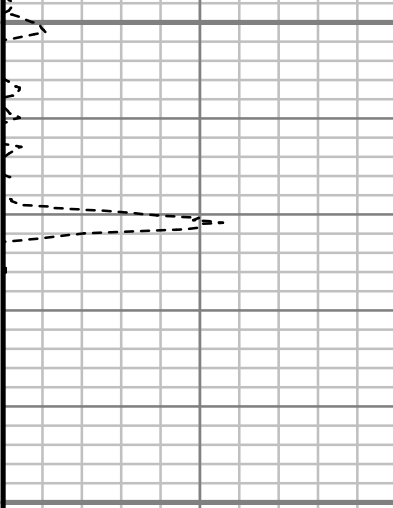
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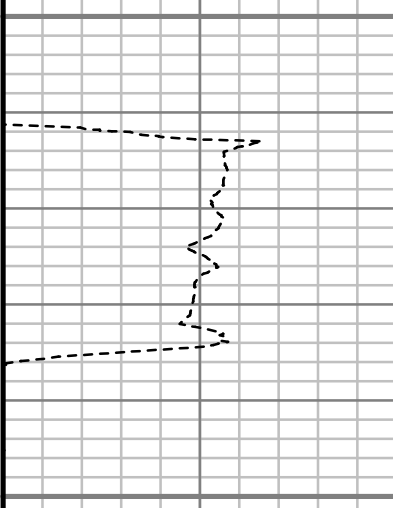
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2250

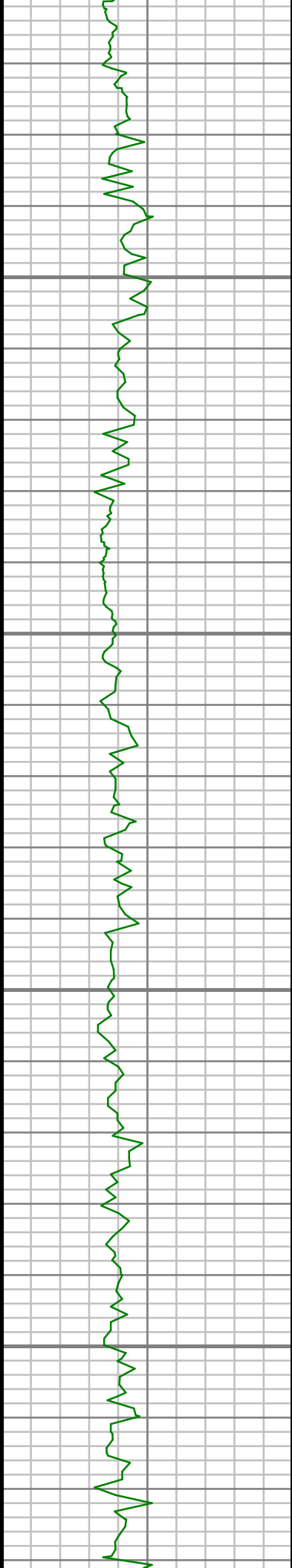


2300



2350

S: 20 MD: 2212.00 ft
Inc: 8.50 deg Az:
145.99 deg TVD:
2205.83 ft

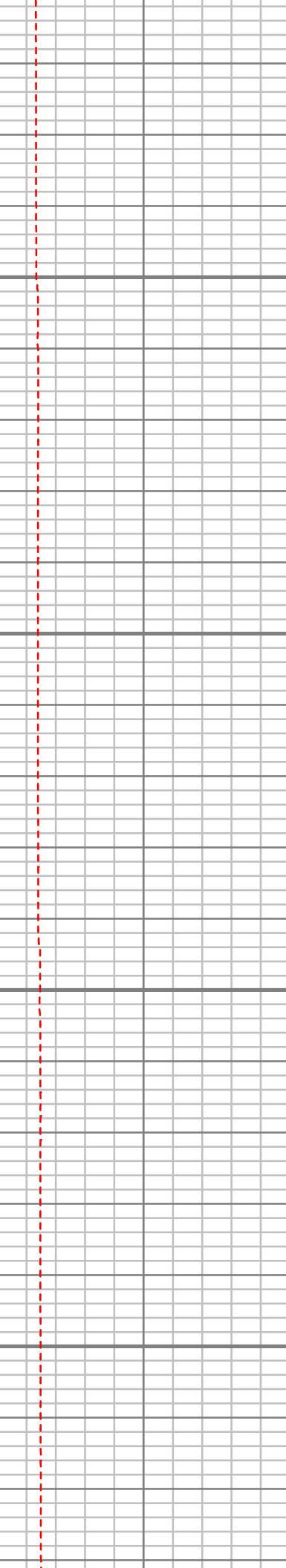
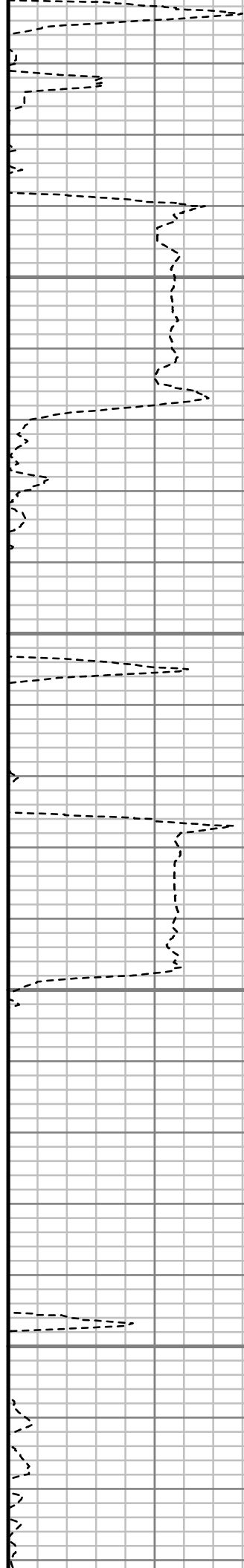


2400

2450

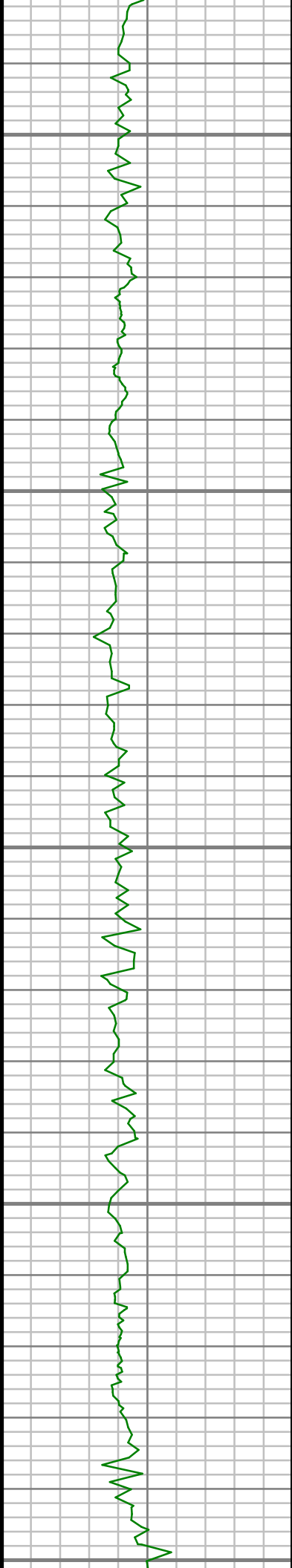
2500

2550



S: 21 MD: 2395.00 ft
Inc: 10.67 deg Az:
146.93 deg TVD:
2386.26 ft

S: 22 MD: 2577.00 ft
Inc: 12.32 deg Az:



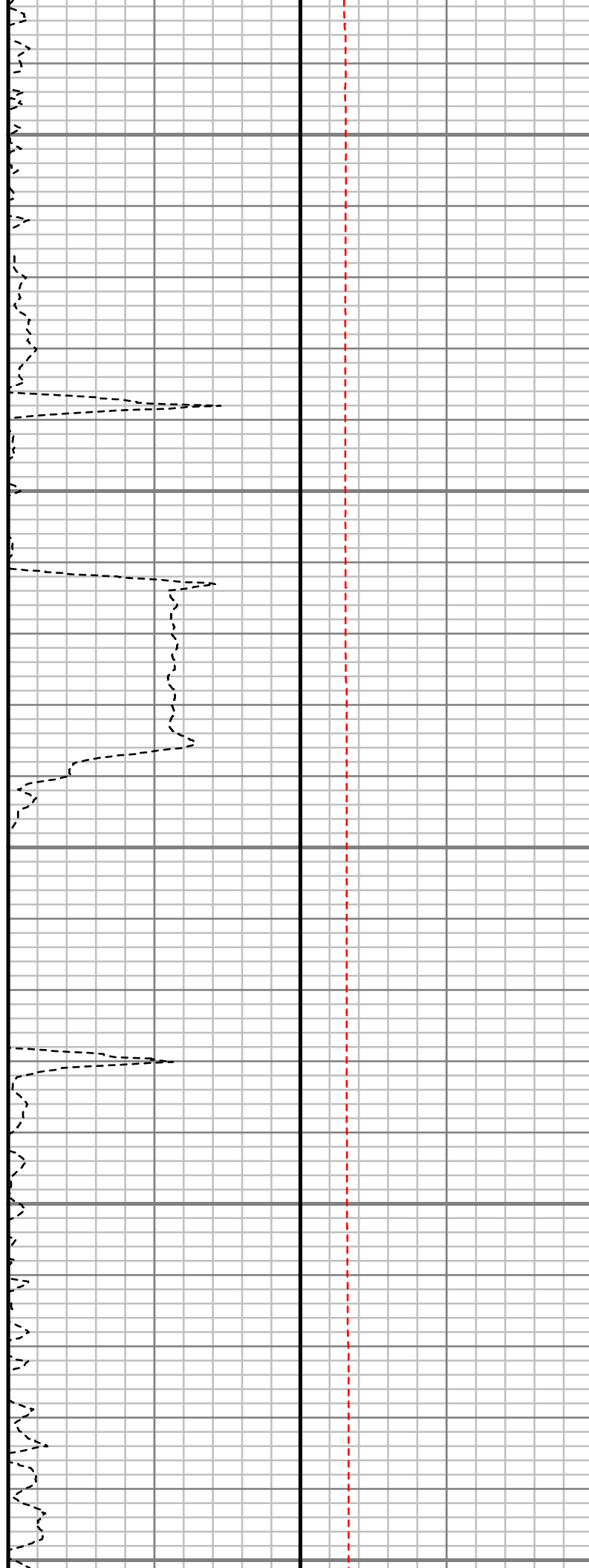
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2650

2700

2750

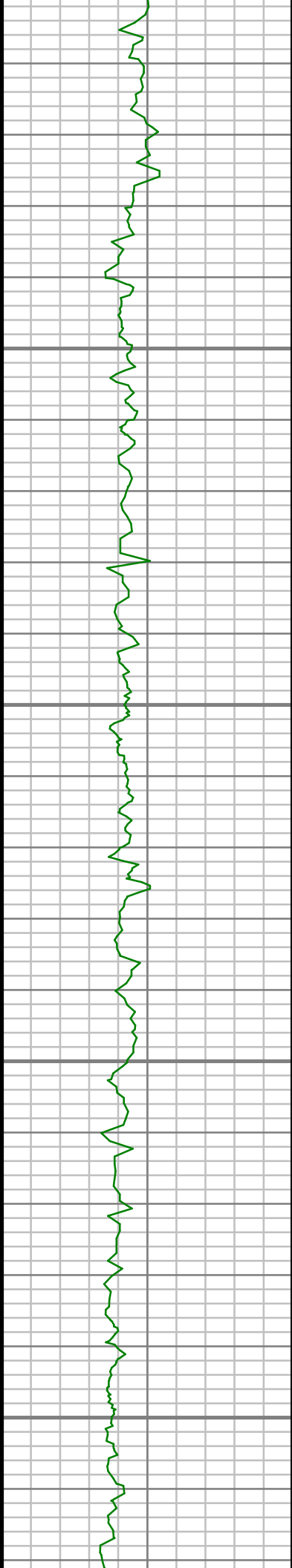
2800



152.19 deg Az:
2564.61 ft

S: 23 MD: 2669.00 ft
Inc: 12.88 deg Az:
145.27 deg TVD:
2654.40 ft

S: 24 MD: 2761.00 ft
Inc: 10.94 deg Az:
142.42 deg TVD:
2744.41 ft

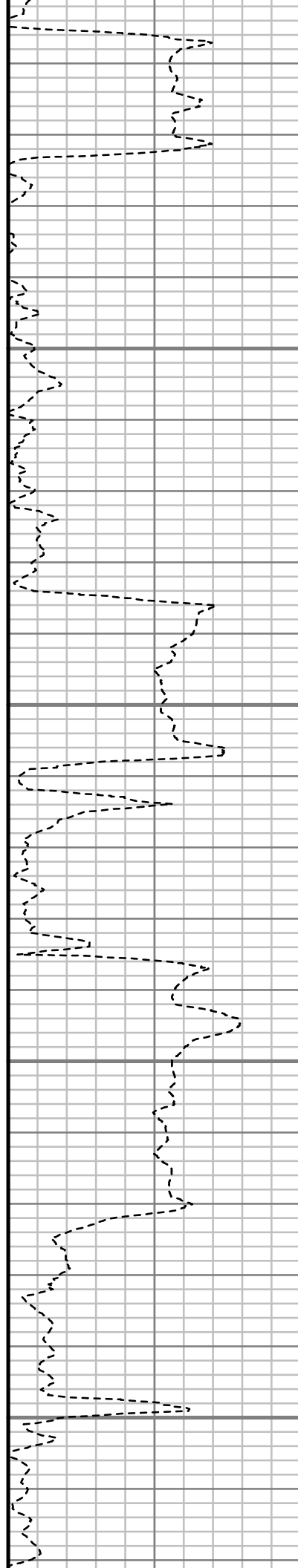


2850

2900

2950

3000

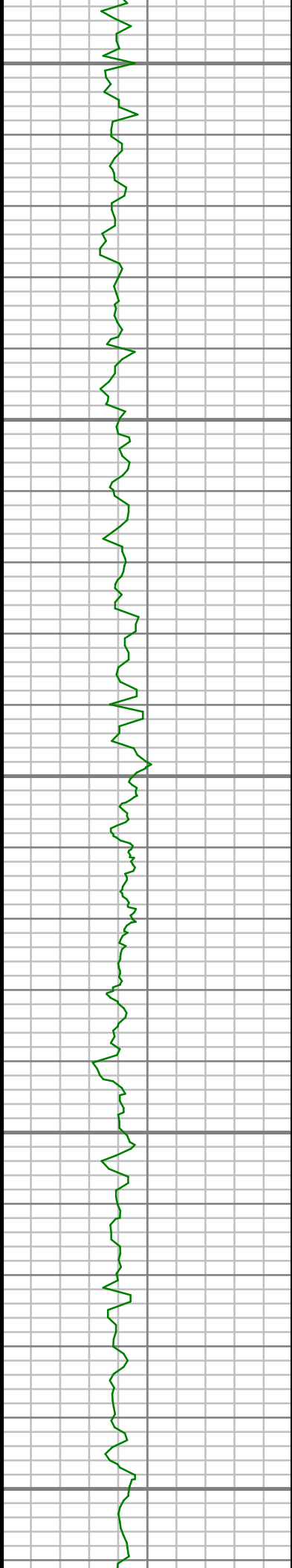


S: 25 MD: 2944.00 ft
Inc: 13.38 deg Az:
146.72 deg TVD:
2923.30 ft

S: 26 MD: 3035.00 ft
Inc: 16.42 deg Az:
146.43 deg TVD:
3011.23 ft

S: 27 MD: 3127.00 ft
Inc: 14.52 deg Az:
143.99 deg TVD:
3099.89 ft

S: 28 MD: 3219.00 ft
Inc: 13.65 deg Az:
147.88 deg TVD:
3189.13 ft



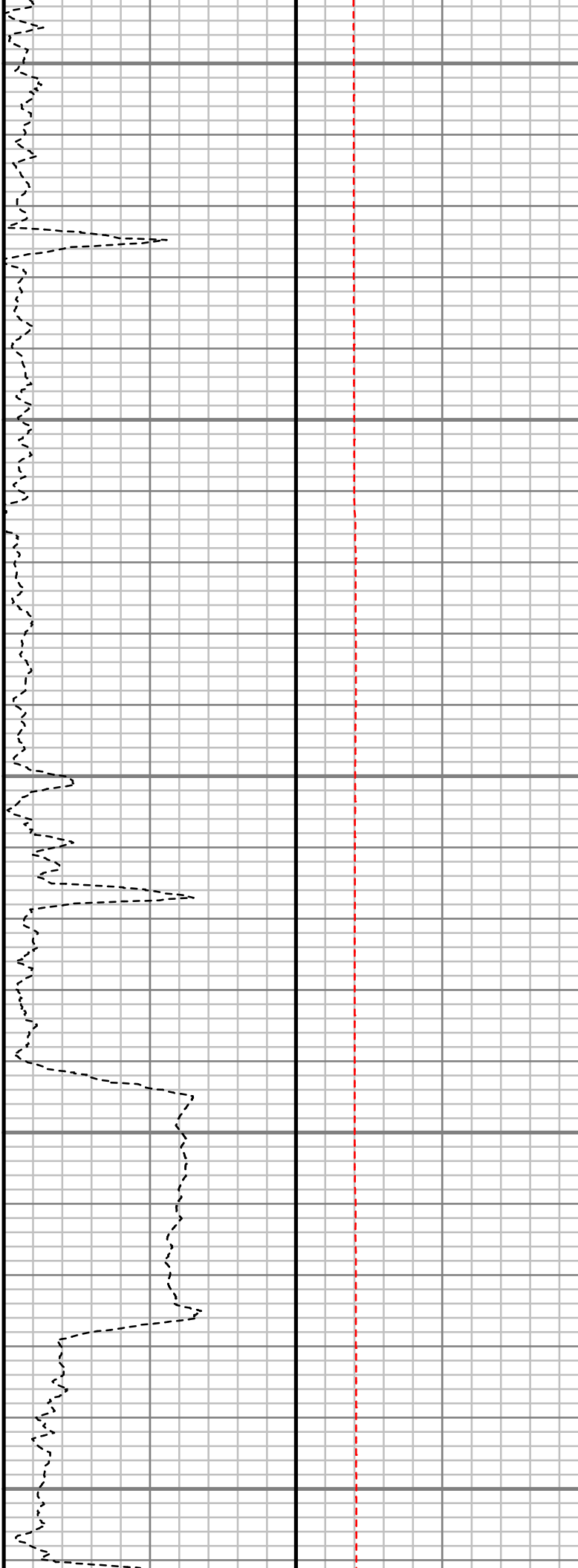
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3300

3350

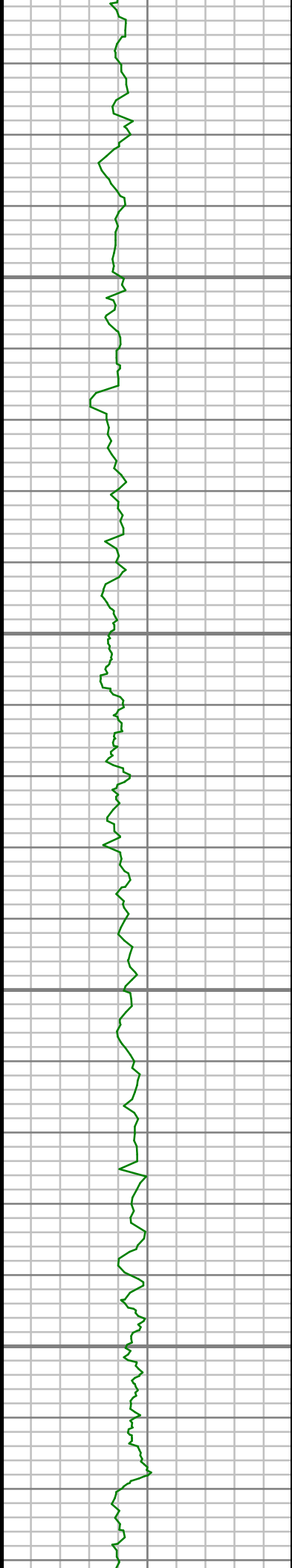
3400

3450



S: 29 MD: 3310.00 ft
Inc: 12.52 deg Az:
154.98 deg TVD:
3277.77 ft

S: 30 MD: 3404.00 ft
Inc: 12.71 deg Az:
149.98 deg TVD:
3369.50 ft

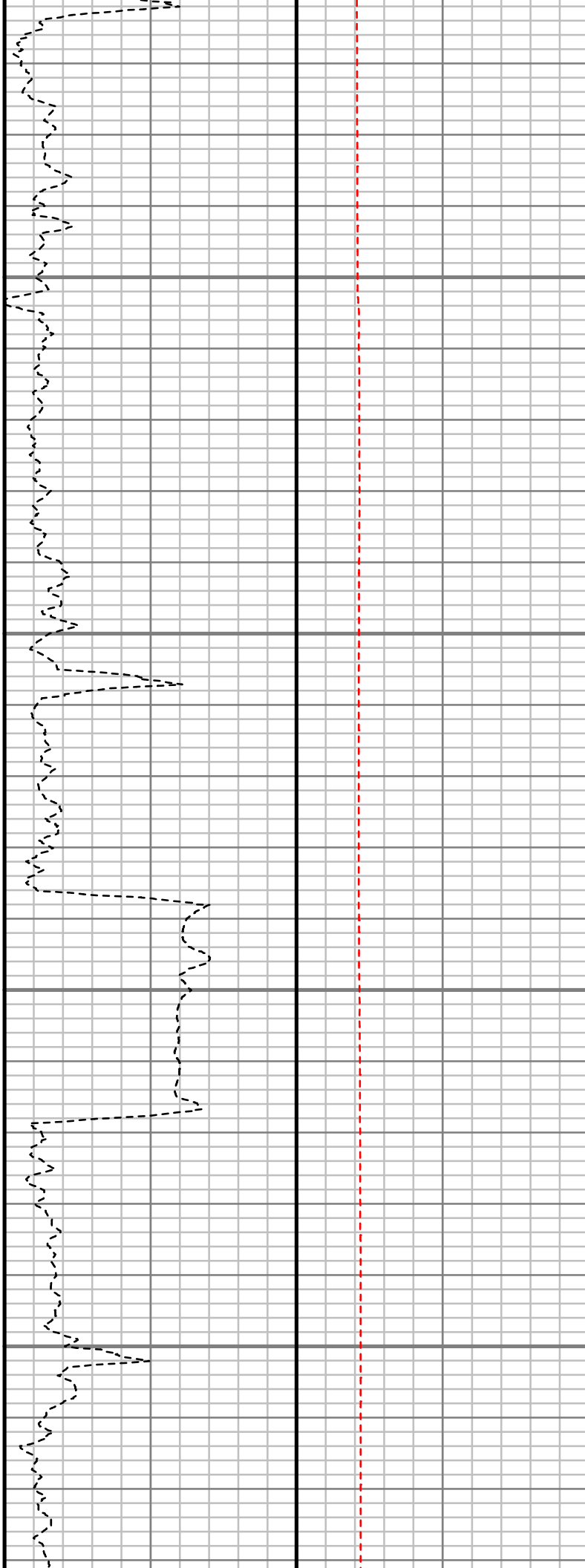


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3550

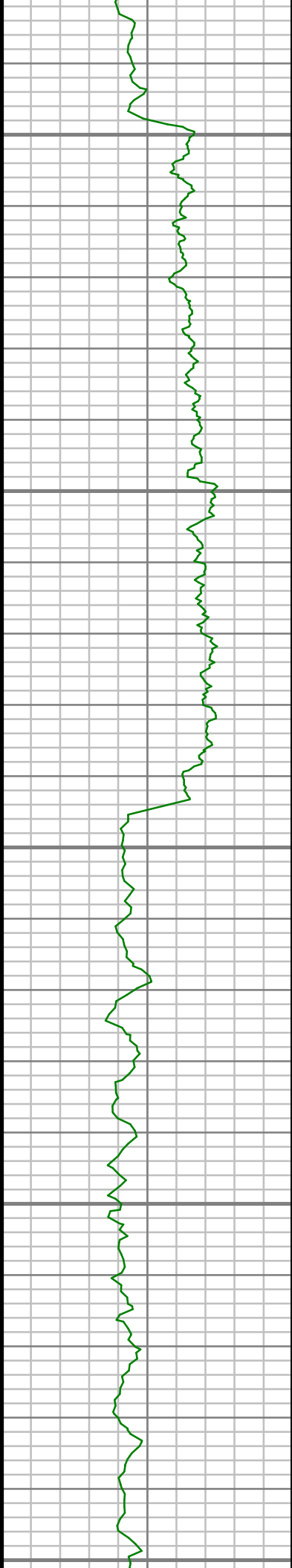
3600

3650



S: 31 MD: 3499.00 ft
Inc: 12.47 deg Az:
147.38 deg TVD:
3462.22 ft

S: 32 MD: 3593.00 ft
Inc: 11.18 deg Az:
144.60 deg TVD:
3554.23 ft



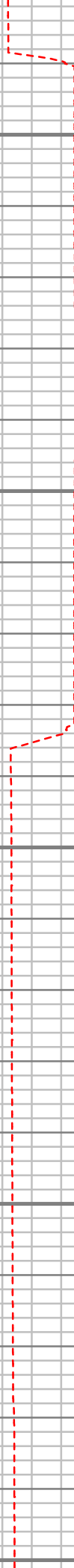
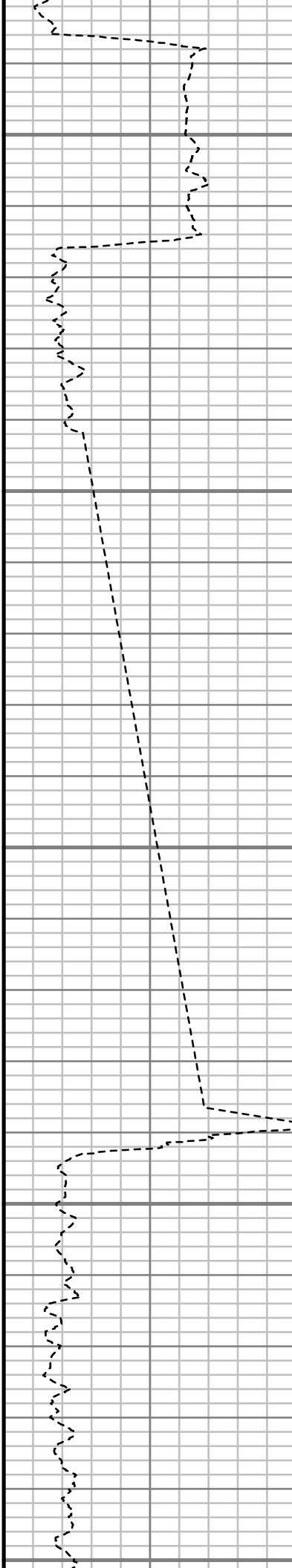
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3750

3800

3850

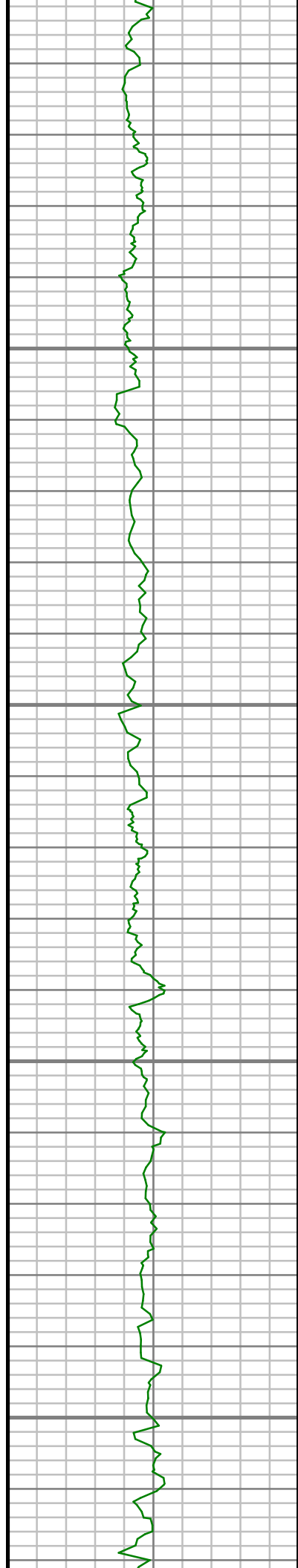
3900



S: 33 MD: 3688.00 ft
Inc: 11.98 deg Az:
146.75 deg TVD:
3647.29 ft

S: 34 MD: 3782.00 ft
Inc: 14.21 deg Az:
151.83 deg TVD:
3738.84 ft

S: 35 MD: 3876.00 ft
Inc: 13.26 deg Az:
153.92 deg TVD:
3830.15 ft

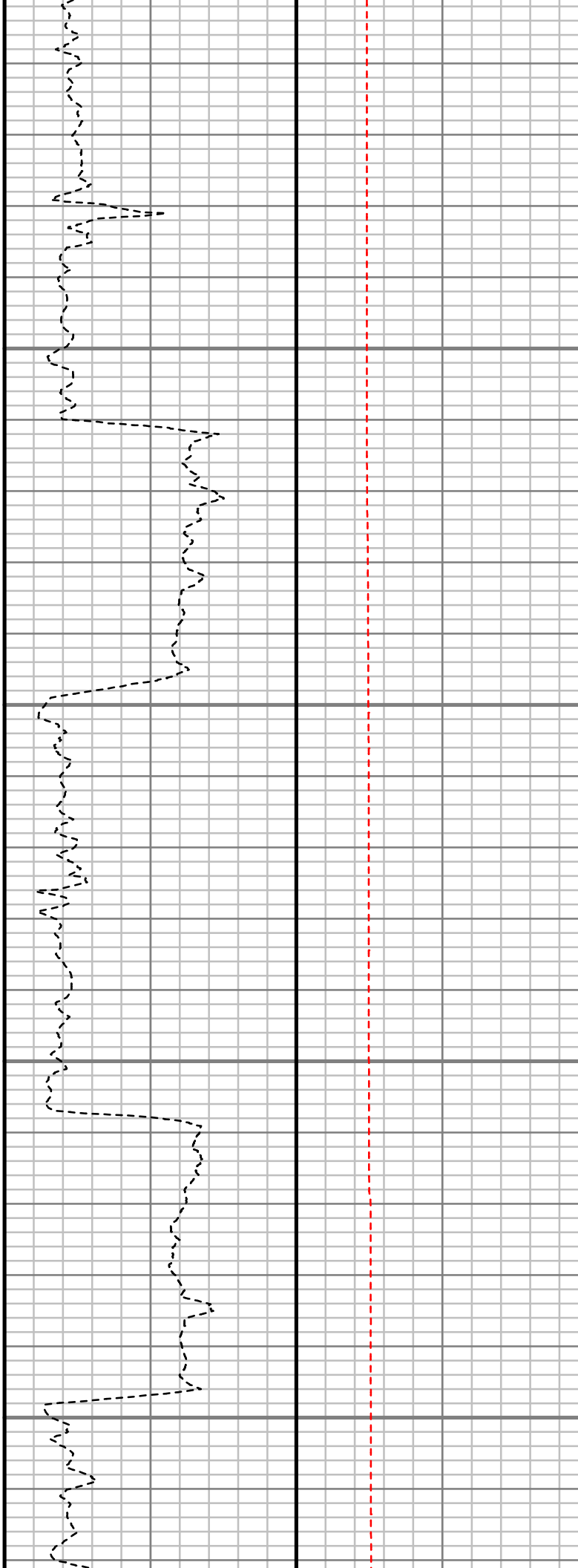


3950

4000

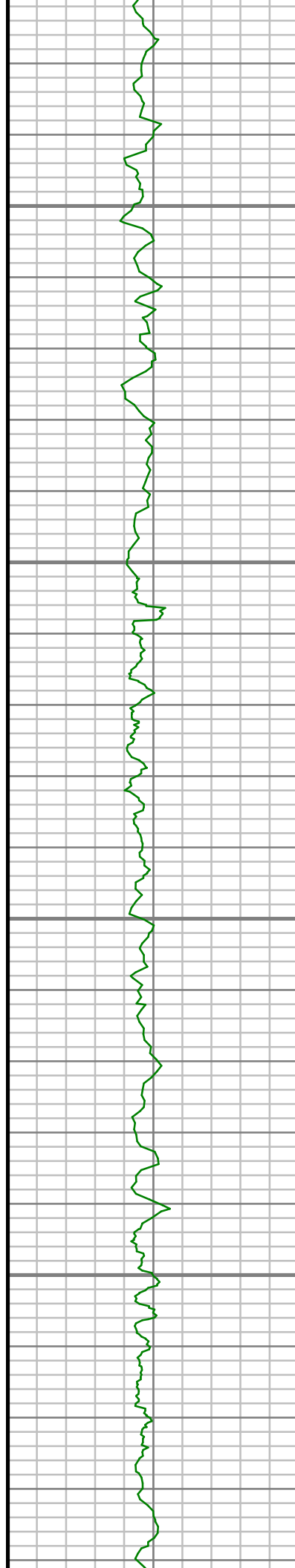
4050

4100



S: 36 MD: 3971.00 ft
Inc: 12.22 deg Az:
150.20 deg TVD:
3922.81 ft

S: 37 MD: 4065.00 ft
Inc: 14.11 deg Az:
154.67 deg TVD:
4014.34 ft

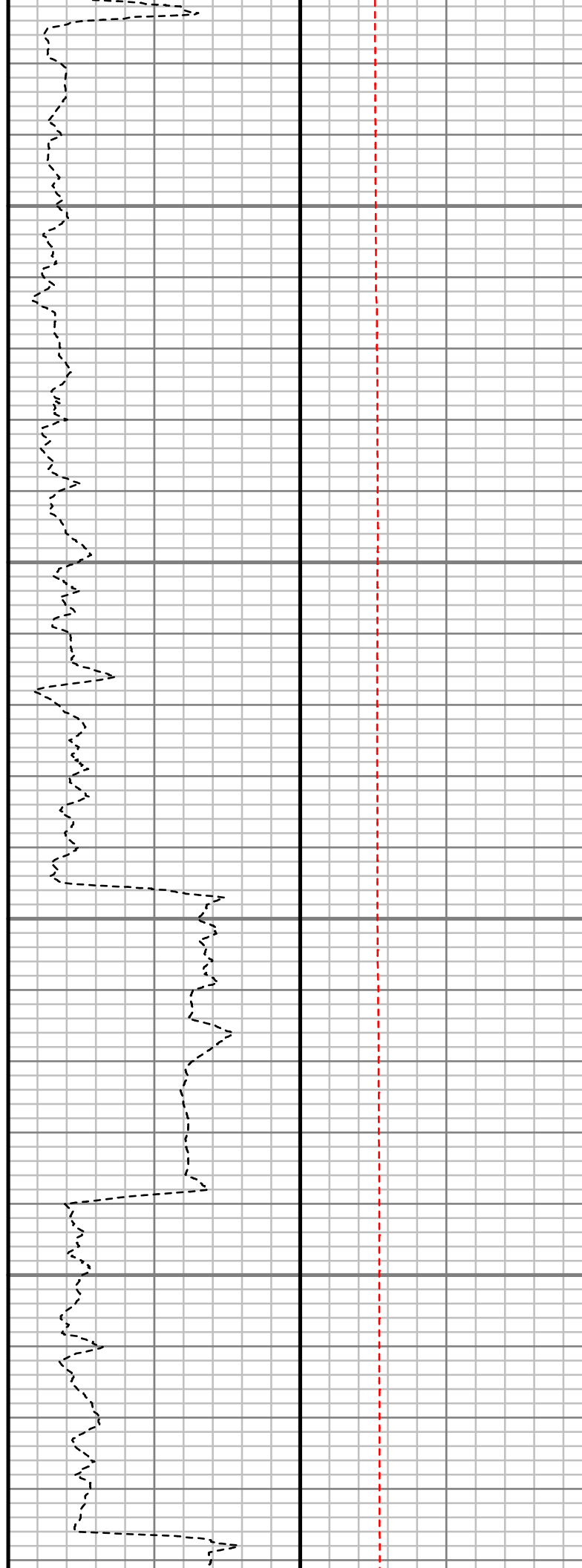


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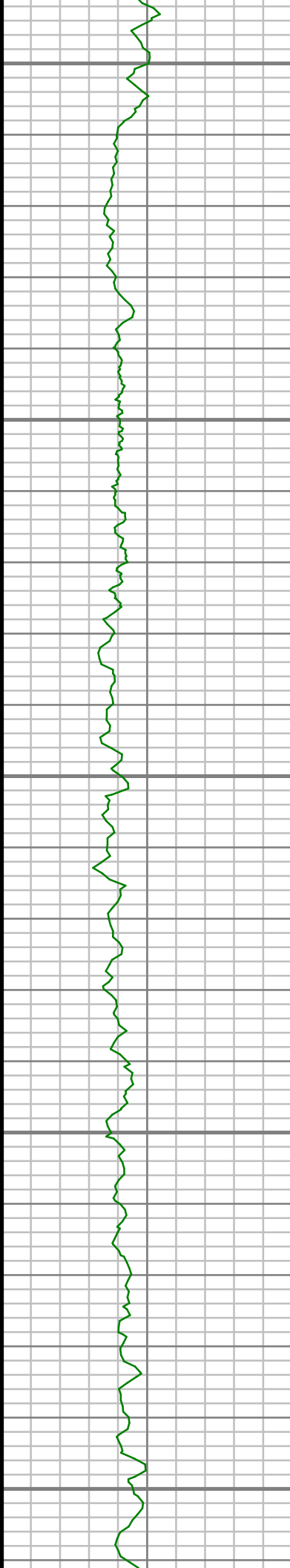
4200

4250

4300



S: 38 MD: 4160.00 ft
Inc: 13.75 deg Az:
149.00 deg TVD:
4106.55 ft



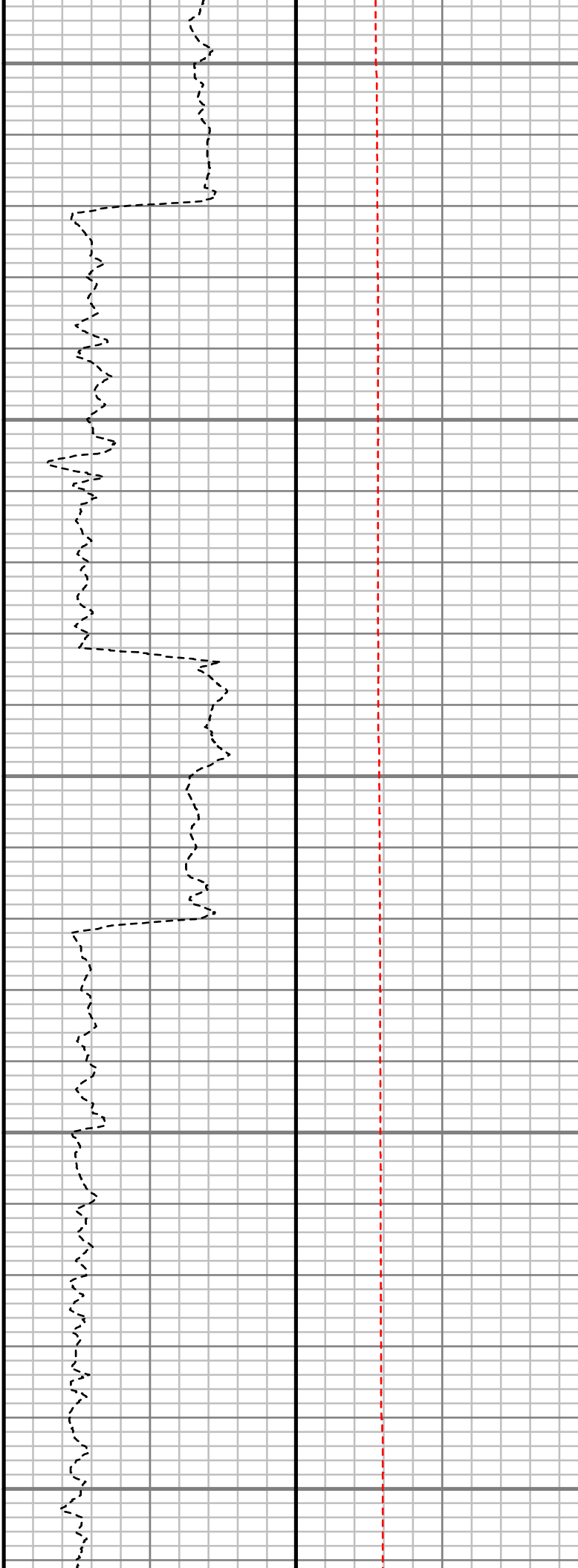
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4400

4450

4500

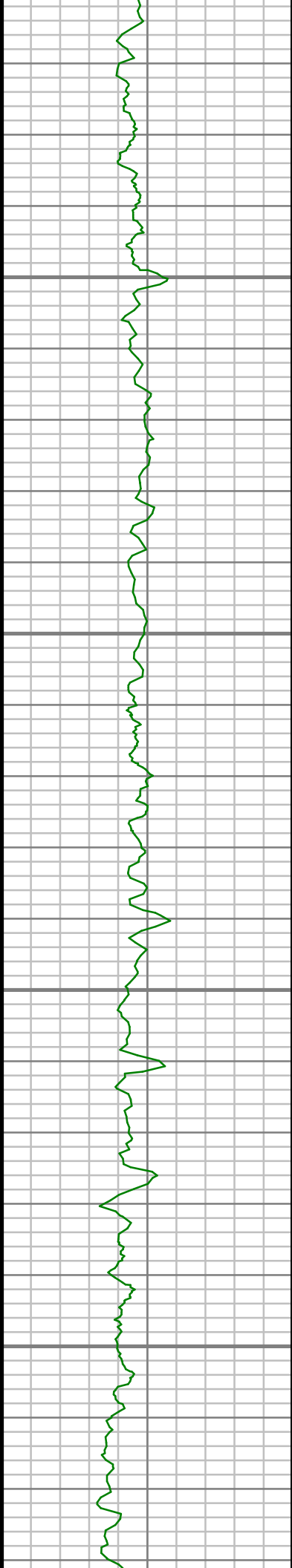
4550



S: 39 MD: 4348.00 ft
Inc: 14.87 deg Az:
142.71 deg TVD:
4288.73 ft

S: 40 MD: 4442.00 ft
Inc: 16.52 deg Az:
142.03 deg TVD:
4379.22 ft

S: 41 MD: 4536.00 ft
Inc: 16.83 deg Az:
144.66 deg TVD:
4469.27 ft

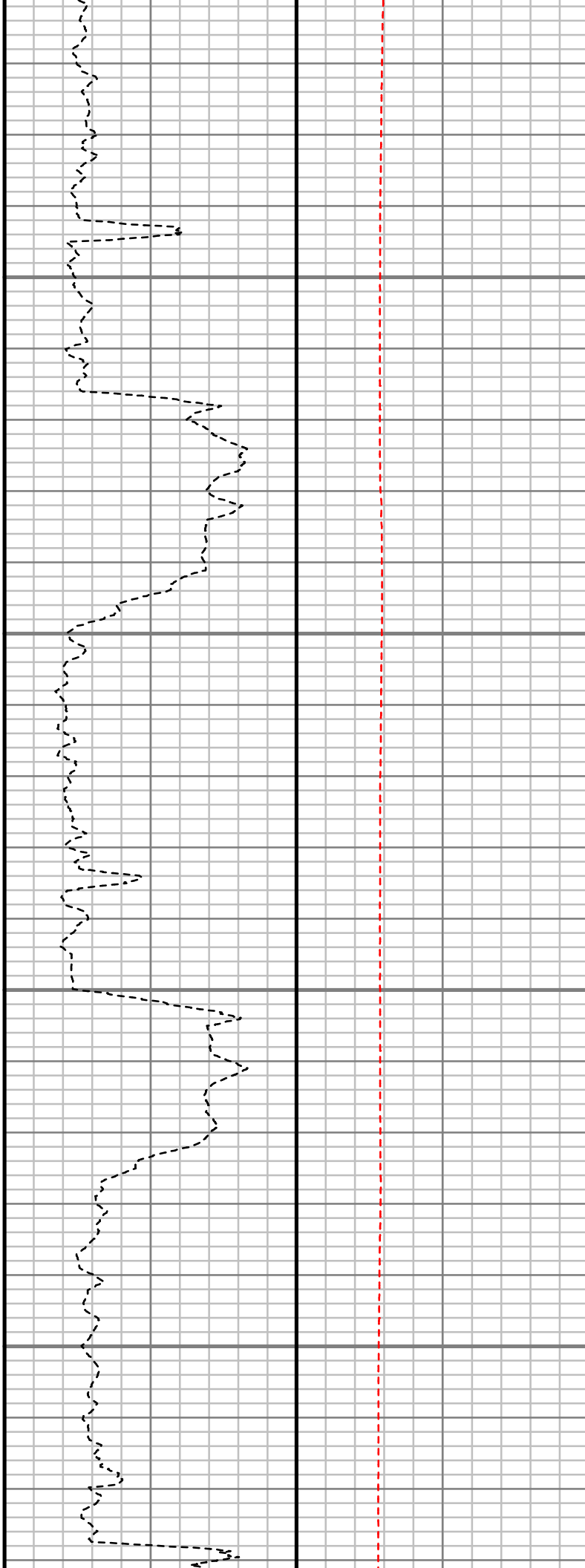


4600

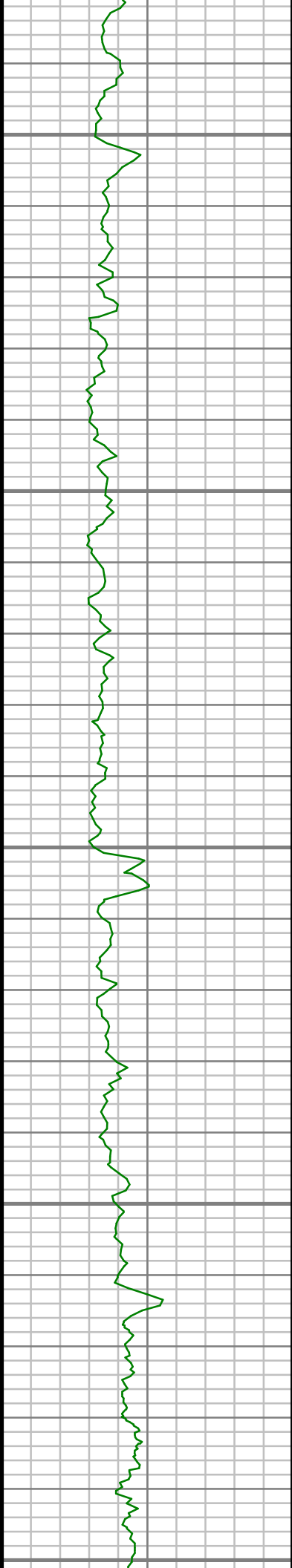
4650

4700

4750



S: 42 MD: 4725.00 ft
Inc: 14.89 deg Az:
150.32 deg TVD:
4651.08 ft



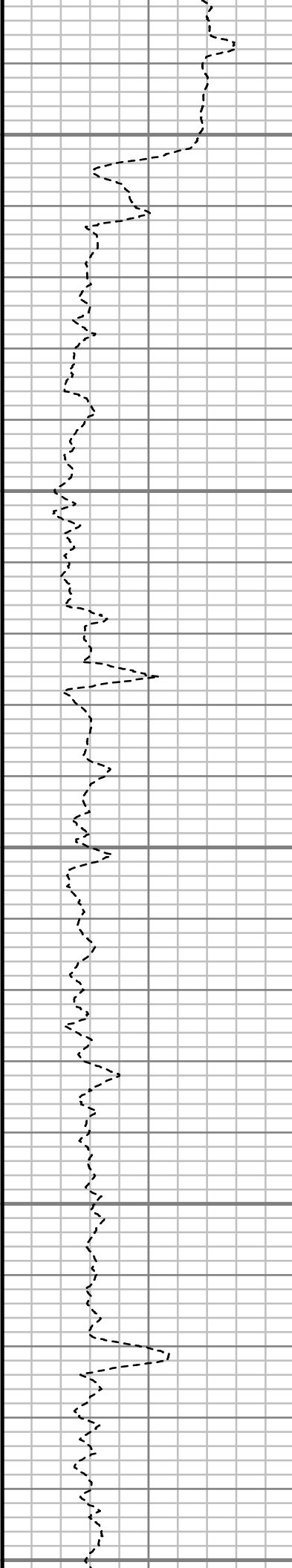
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4850

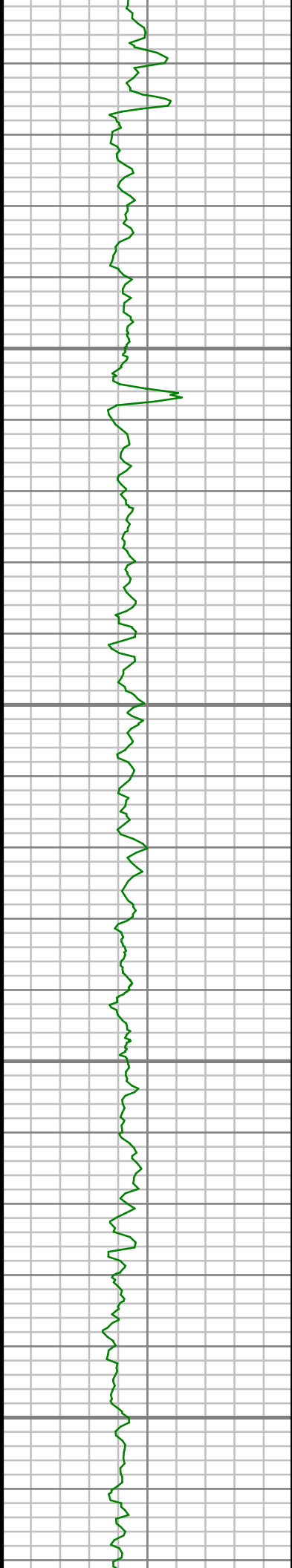
4900

4950

5000



S: 43 MD: 4914.00 ft
Inc: 15.46 deg Az:
151.57 deg TVD:
4833.49 ft

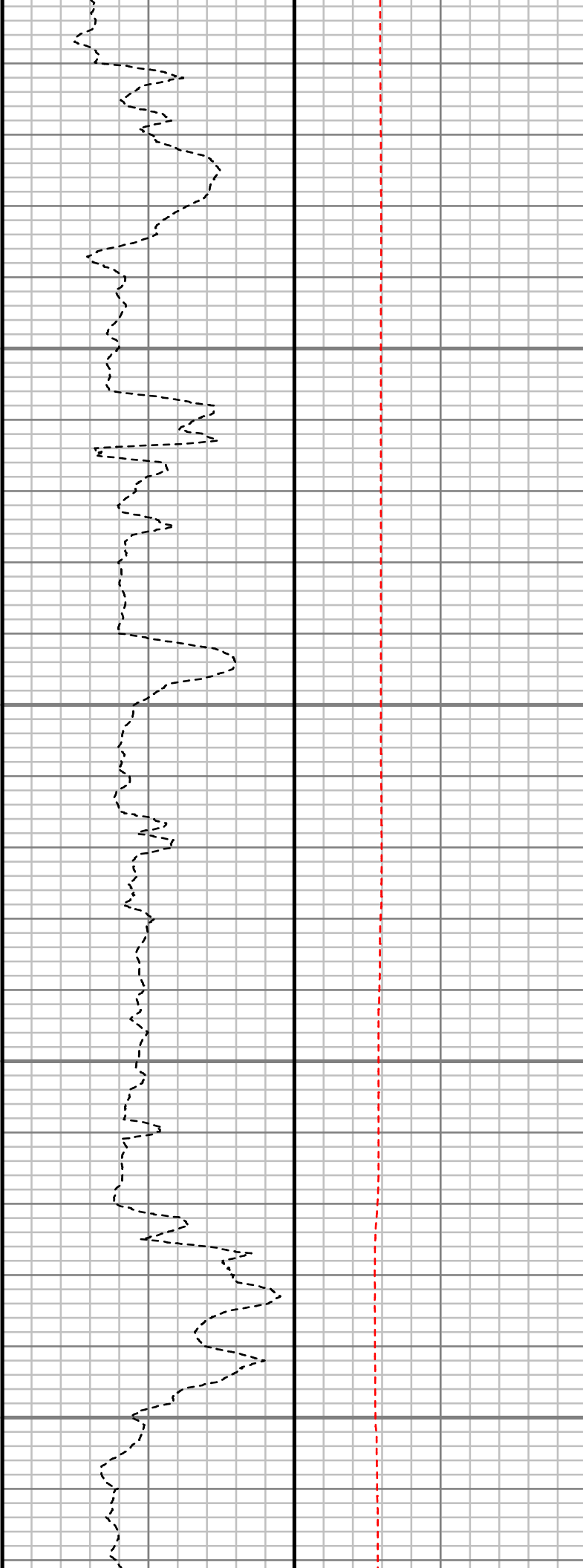


5050

5100

5150

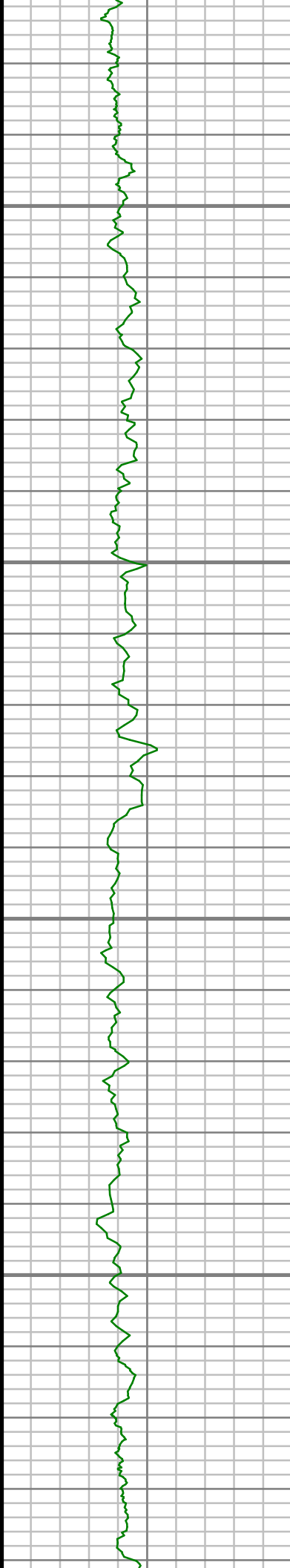
5200



S: 44 MD: 5009.00 ft
Inc: 14.09 deg Az:
151.29 deg TVD:
4925.34 ft

S: 45 MD: 5103.00 ft
Inc: 12.77 deg Az:
149.91 deg TVD:
5016.77 ft

S: 46 MD: 5197.00 ft
Inc: 11.21 deg Az:
153.13 deg TVD:
5108.72 ft

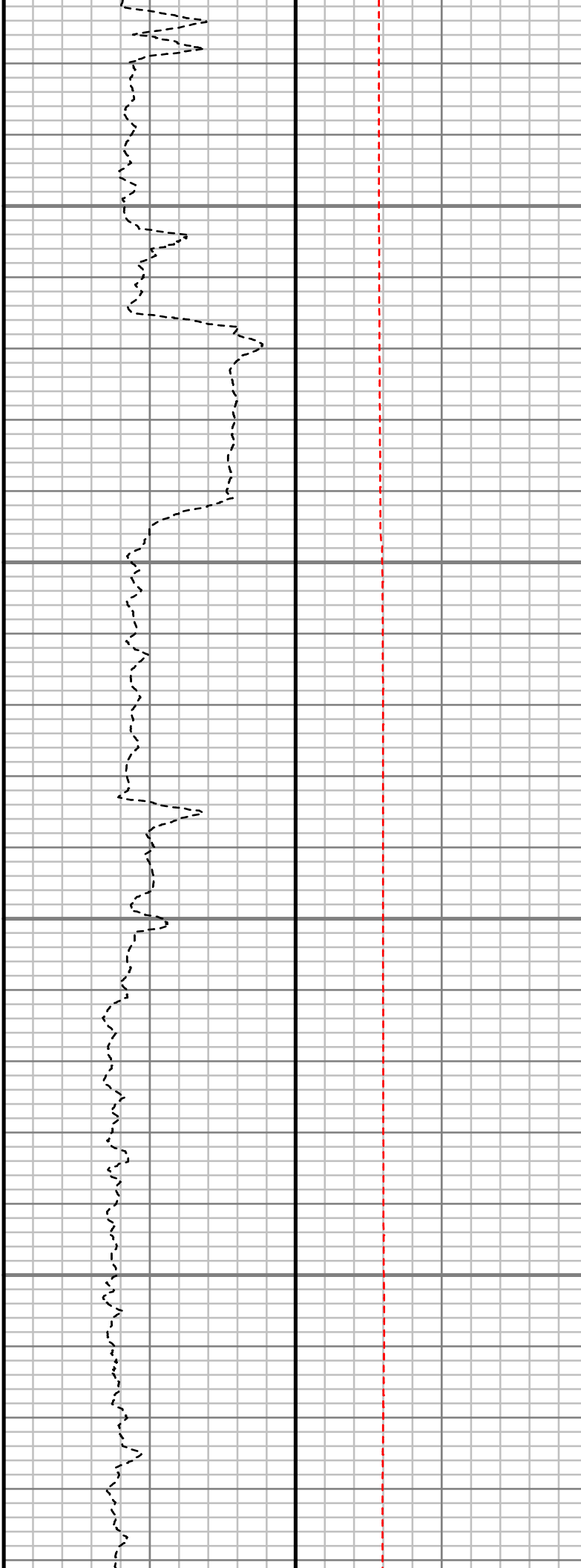


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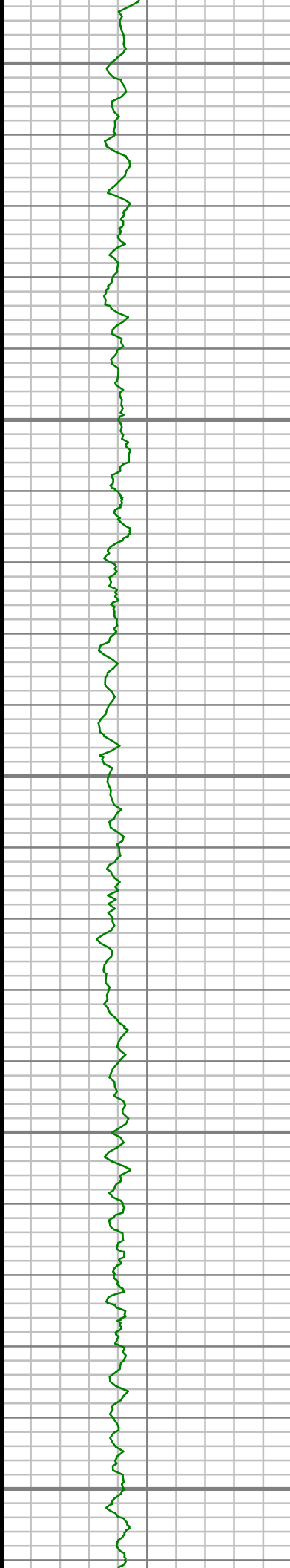
5300

5350

5400



S: 47 MD: 5386.00 ft
Inc: 13.43 deg Az:
161.72 deg TVD:
5293.37 ft



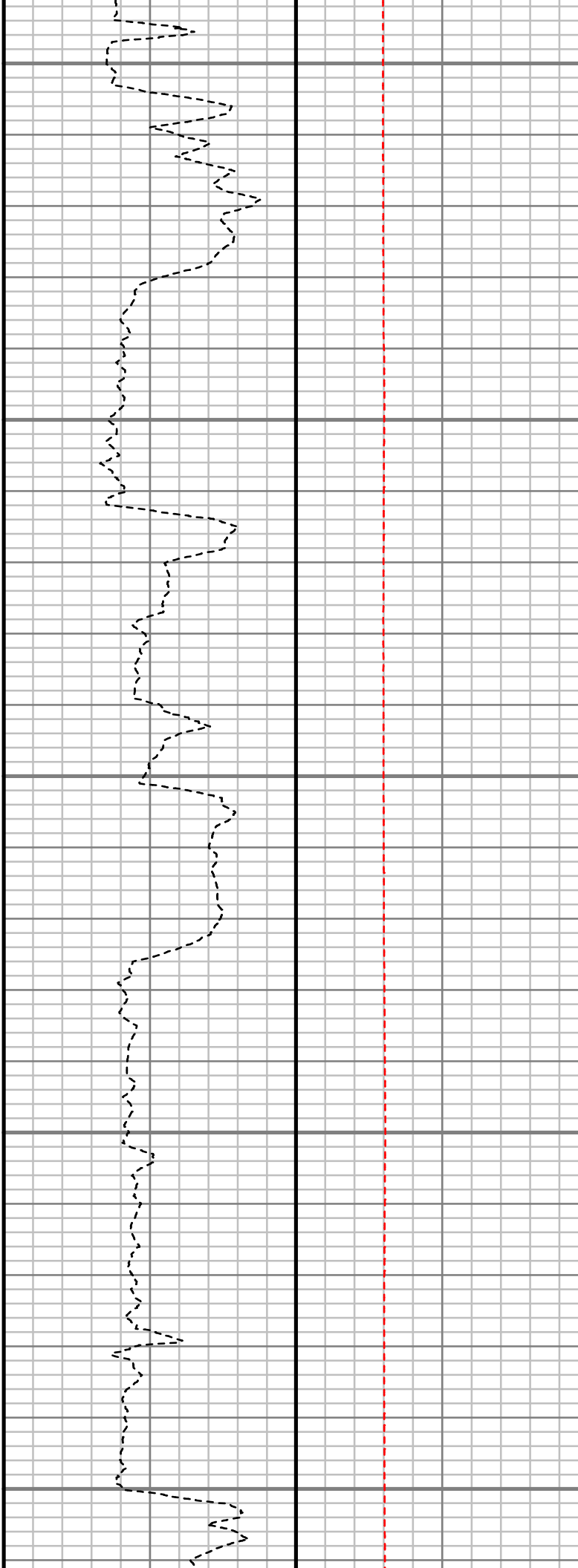
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5500

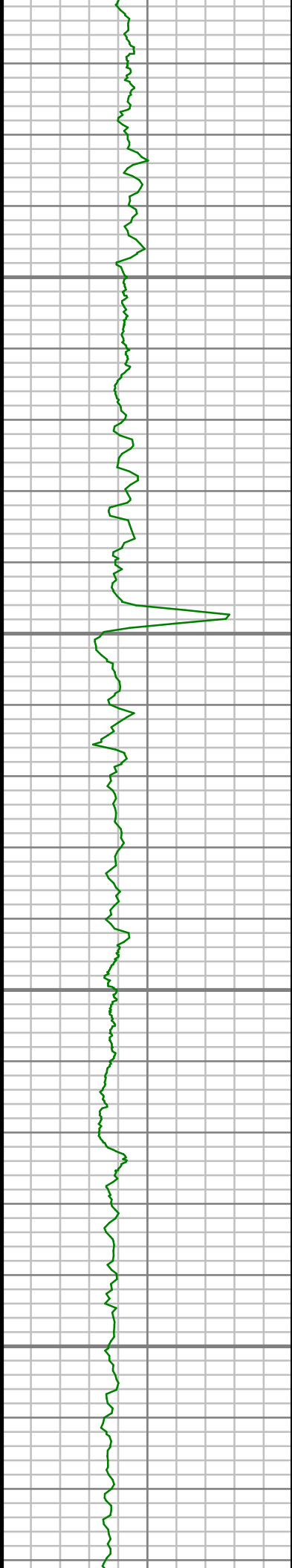
5550

5600

5650



S: 48 MD: 5574.00 ft
Inc: 14.32 deg Az:
160.57 deg TVD:
5475.89 ft

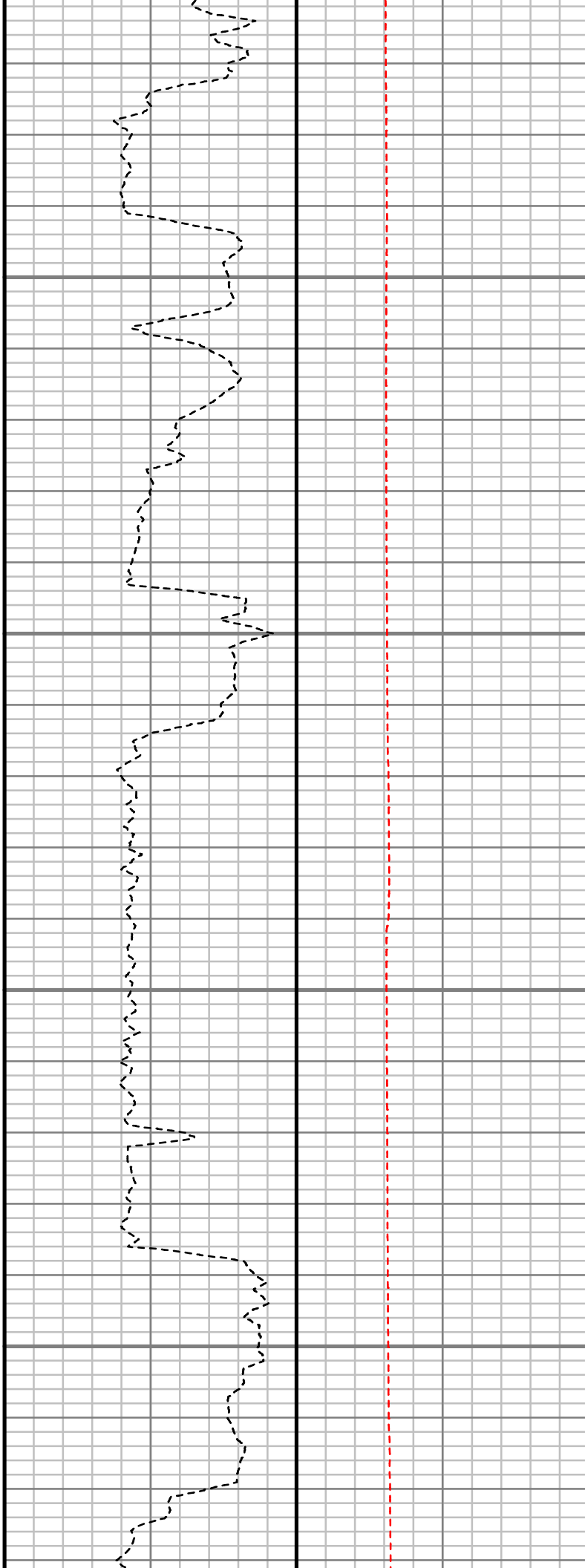


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5750

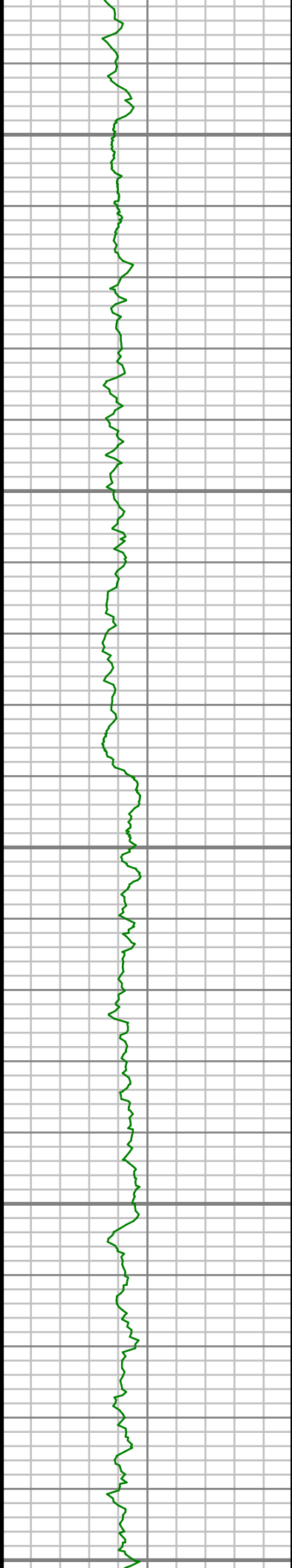
5800

5850



S: 49 MD: 5763.00 ft
Inc: 12.69 deg Az:
149.82 deg TVD:
5659.68 ft

S: 50 MD: 5858.00 ft
Inc: 13.77 deg Az:
145.75 deg TVD:
5752.16 ft



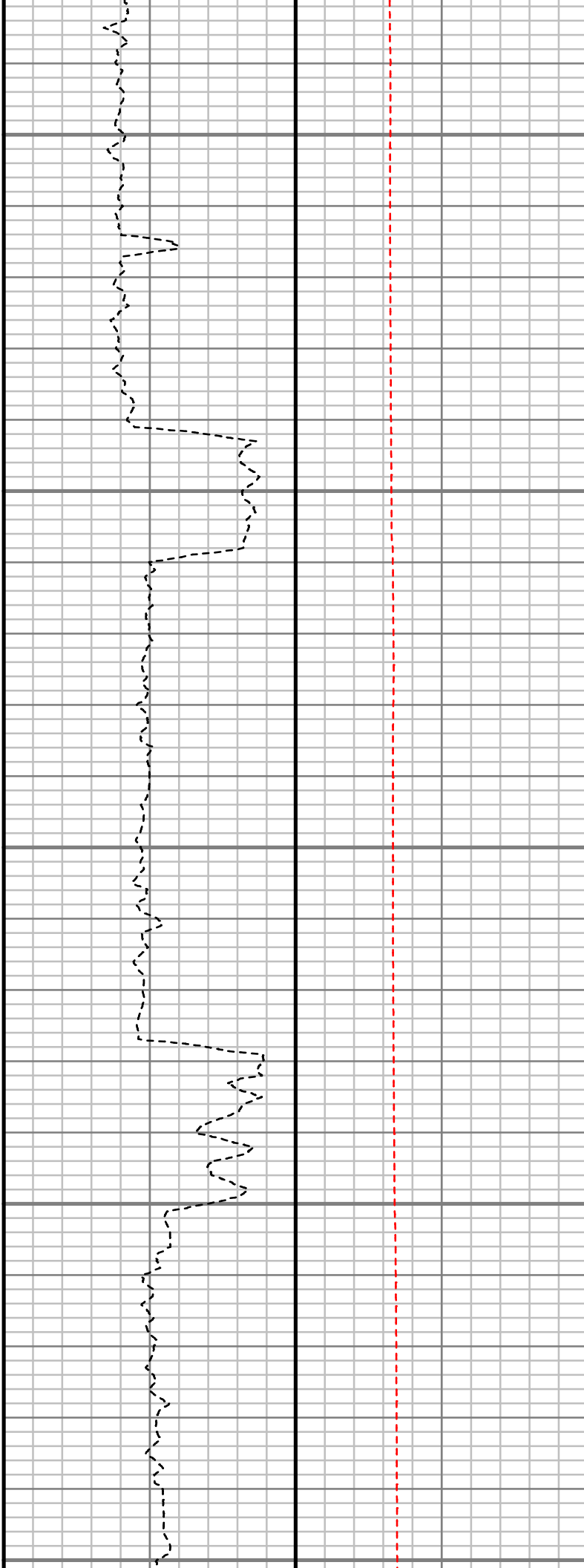
5900

5950

6000

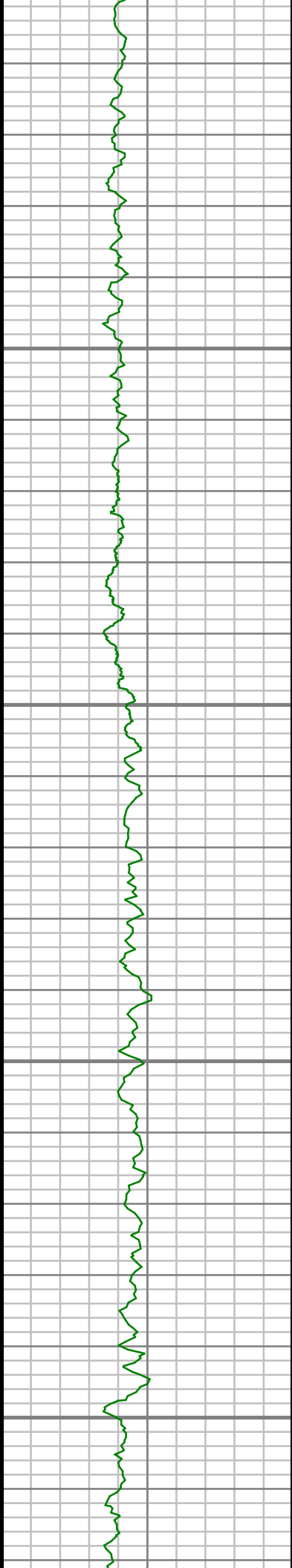
6050

6100



S: 51 MD: 5952.00 ft
Inc: 13.96 deg Az:
141.66 deg TVD:
5843.43 ft

S: 52 MD: 6047.00 ft
Inc: 13.27 deg Az:
144.28 deg TVD:
5935.76 ft

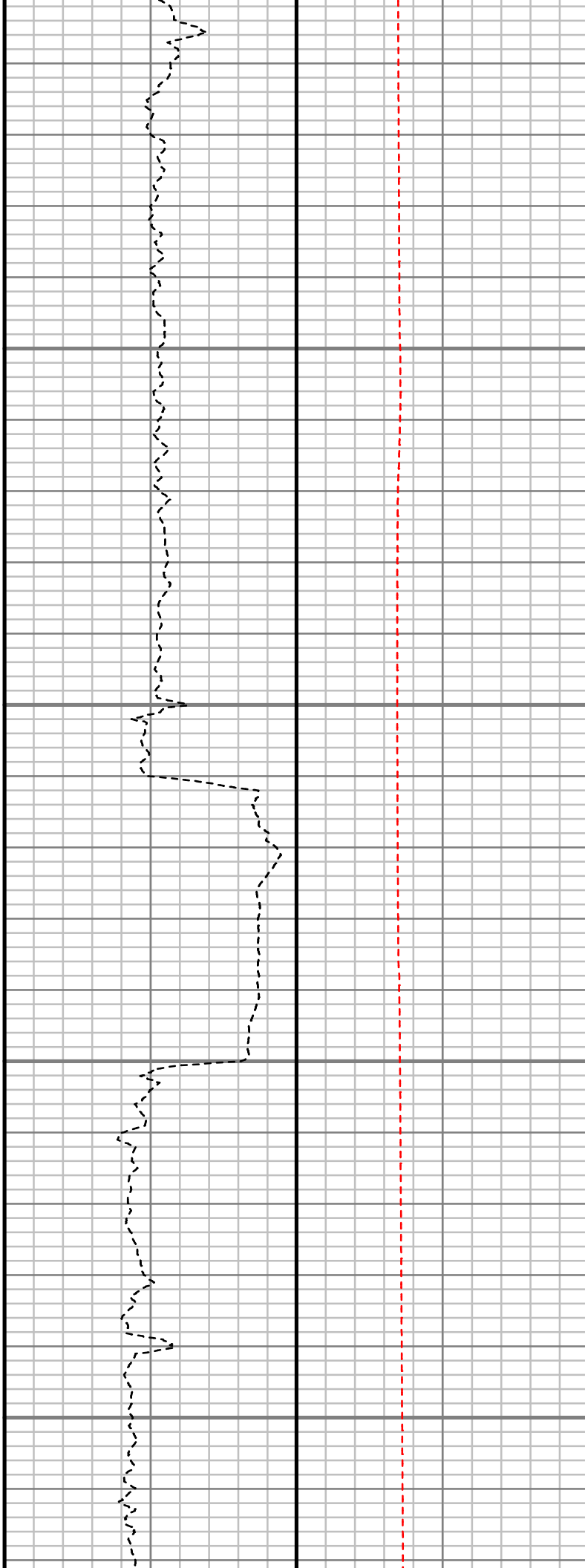


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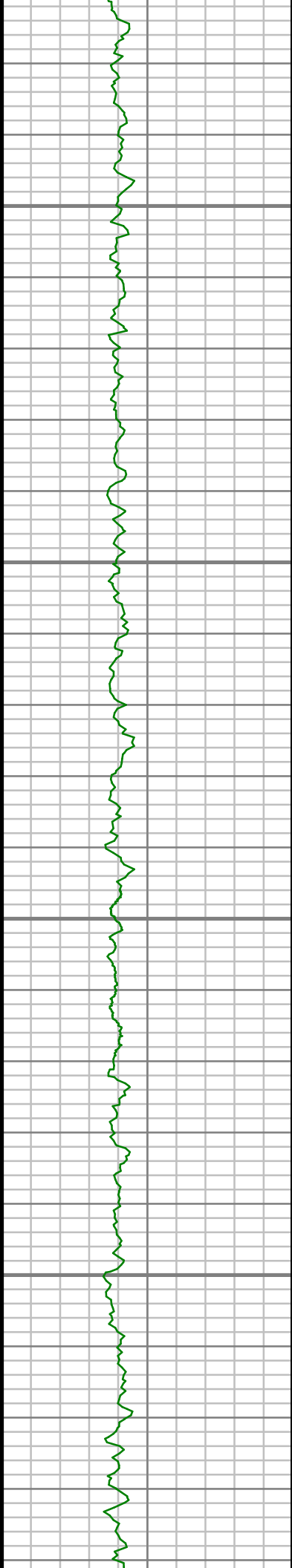
6200

6250

6300



S: 53 MD: 6236.00 ft
Inc: 11.89 deg Az:
146.01 deg TVD:
6120.22 ft

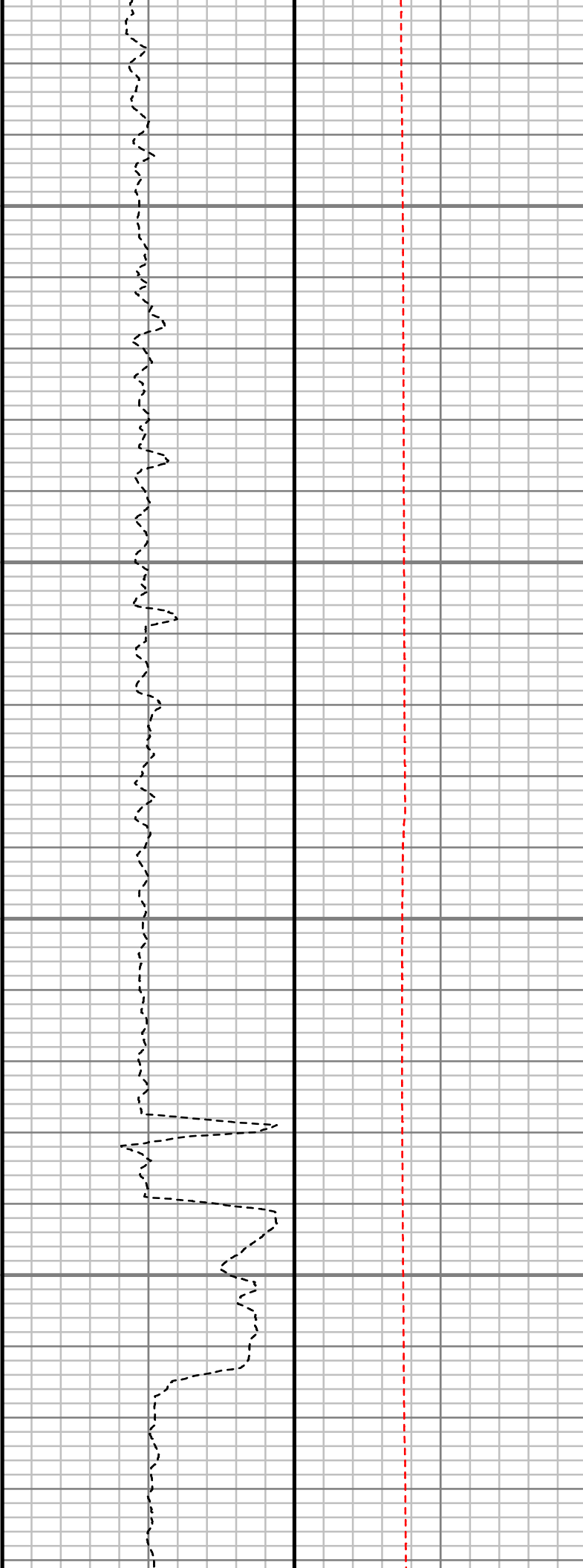


6350

6400

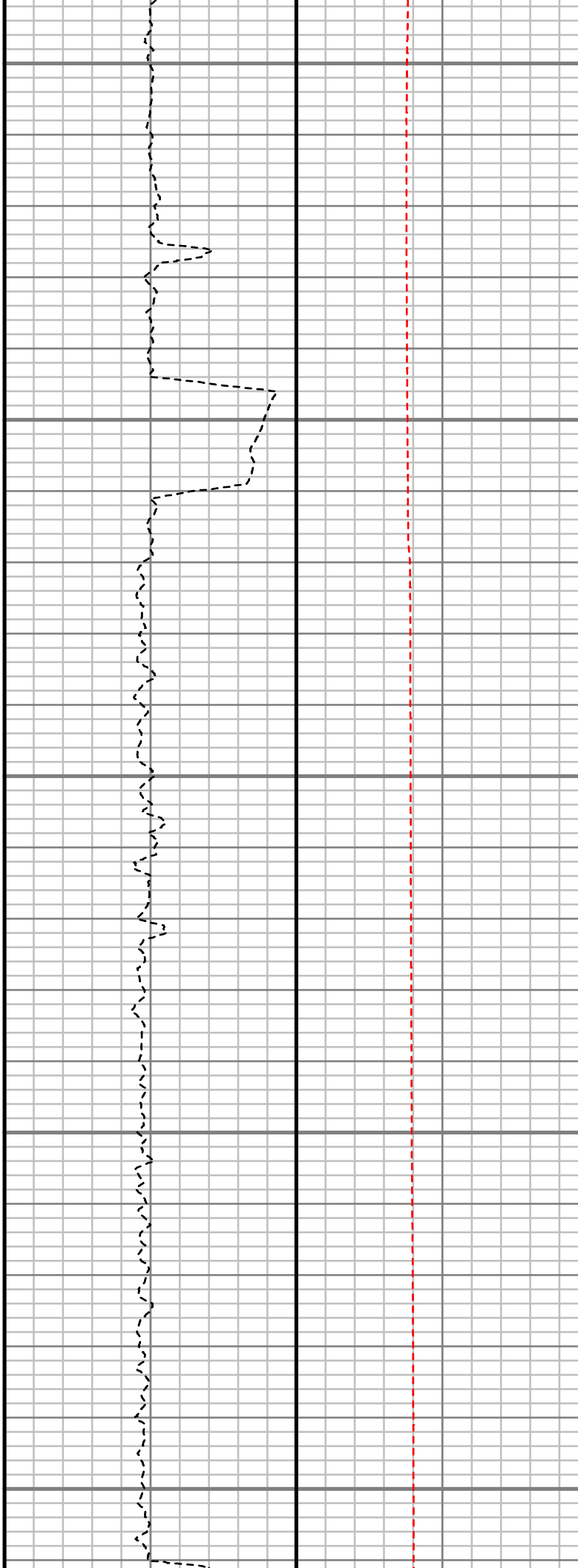
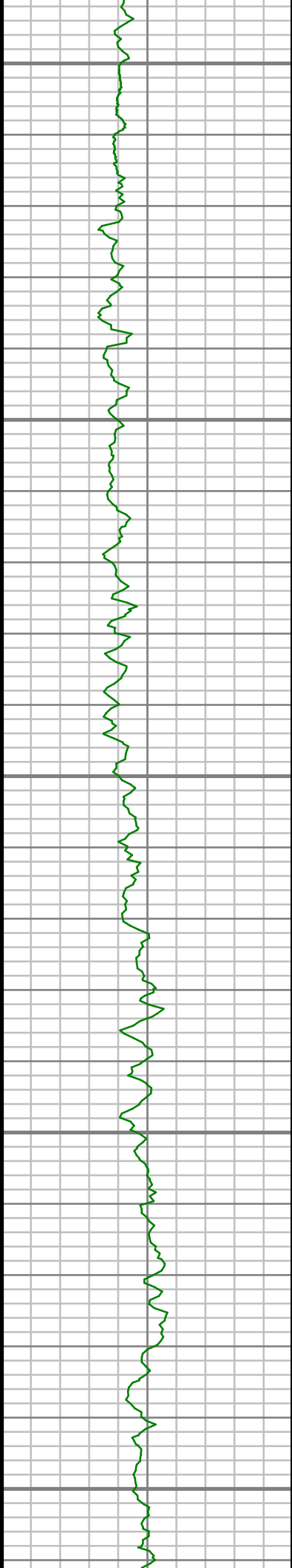
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6500

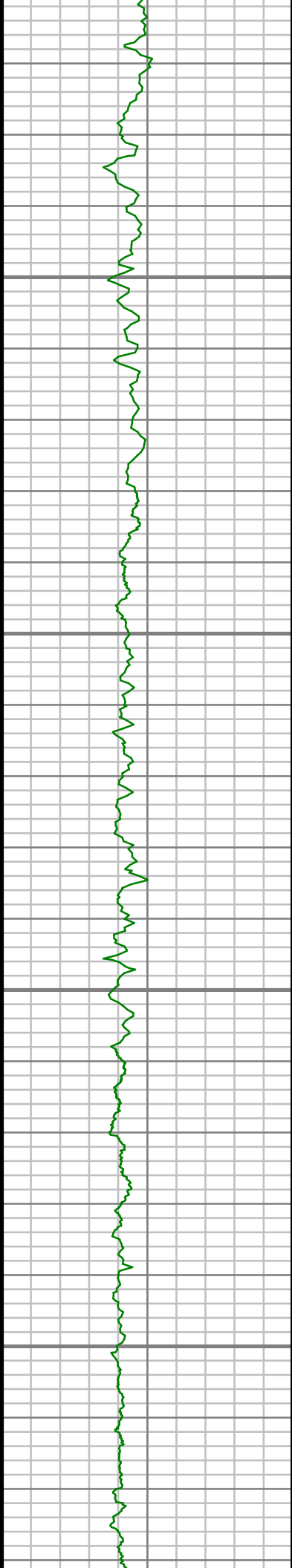


S: 54 MD: 6330.00 ft
Inc: 10.24 deg Az:
144.28 deg TVD:
6212.47 ft

S: 55 MD: 6519.00 ft
Inc: 6.96 deg Az:
146.65 deg TVD:
6399.32 ft



S: 56 MD: 6707.00 ft
Inc: 4.41 deg Az:
167.45 deg TVD:
6586.40 ft

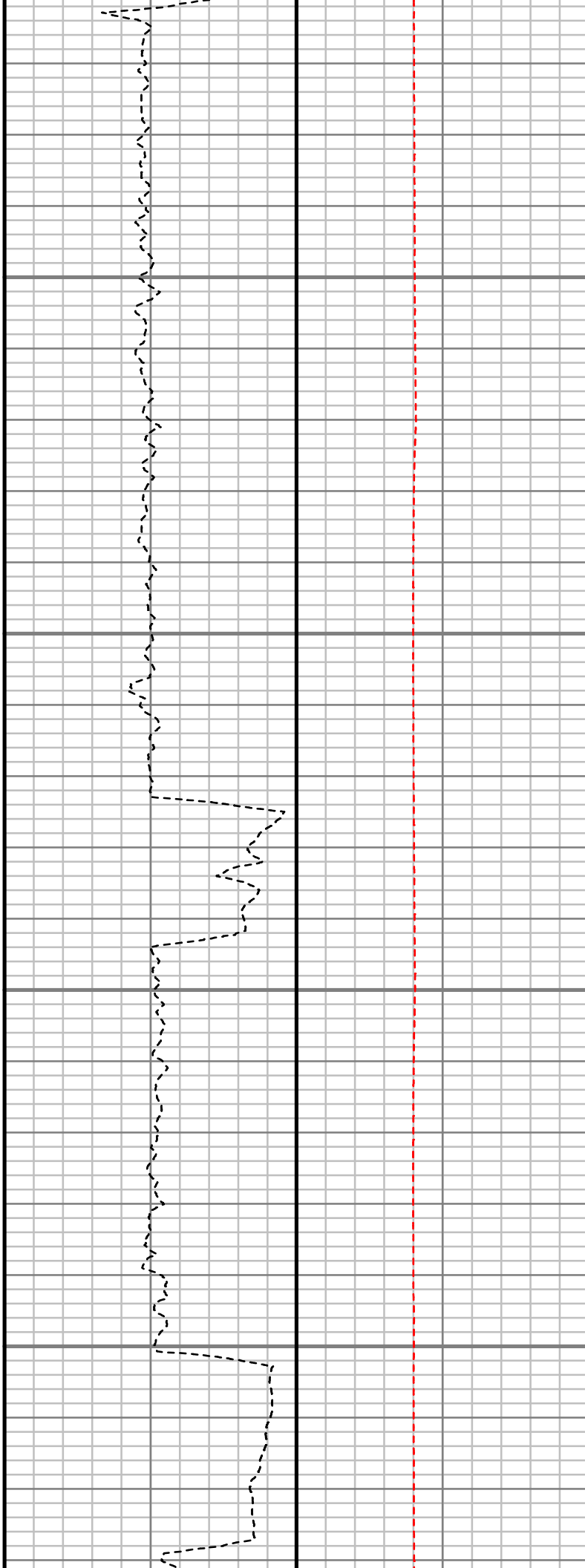


6800

6850

6900

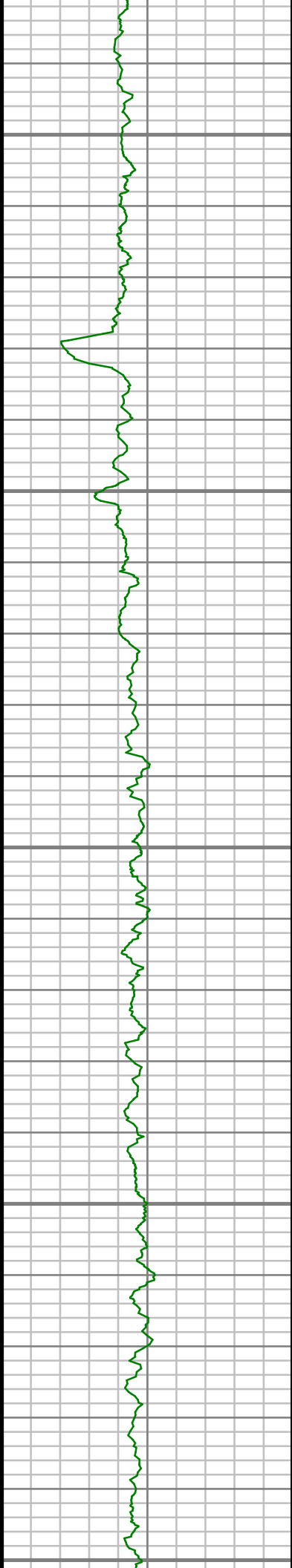
6950



S: 57 MD: 6802.00 ft
Inc: 2.54 deg Az:
162.54 deg TVD:
6681.22 ft

S: 58 MD: 6896.00 ft
Inc: 0.96 deg Az:
114.79 deg TVD:
6775.17 ft

S: 59 MD: 6943.00 ft
Inc: 1.02 deg Az: 45.74
deg TVD: 6822.17 ft



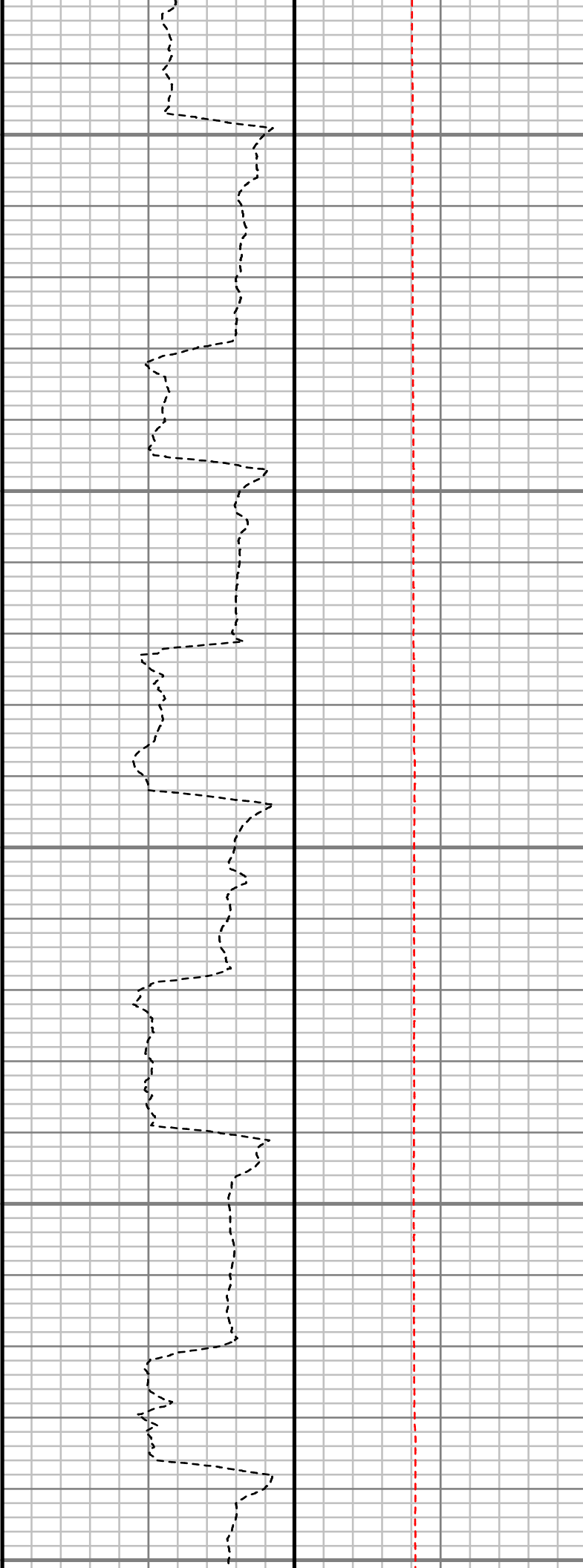
7000

7050

7100

7150

7200



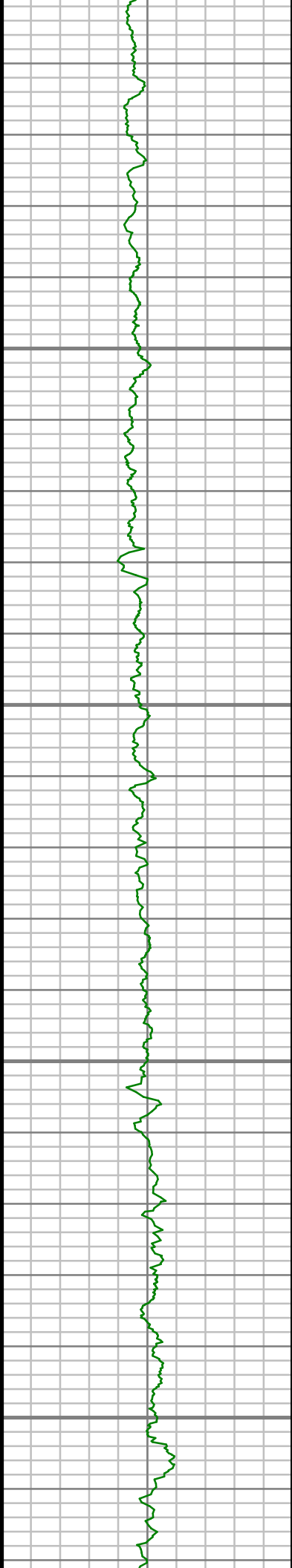
S: 60 MD: 6991.00 ft
Inc: 5.61 deg Az: 5.37
deg TVD: 6870.08 ft

S: 61 MD: 7038.00 ft
Inc: 10.53 deg Az: 4.09
deg TVD: 6916.60 ft

S: 62 MD: 7085.00 ft
Inc: 14.04 deg Az: 2.31
deg TVD: 6962.52 ft

S: 63 MD: 7132.00 ft
Inc: 17.36 deg Az: 4.80
deg TVD: 7007.76 ft

S: 64 MD: 7179.00 ft
Inc: 21.58 deg Az: 5.14
deg TVD: 7052.06 ft

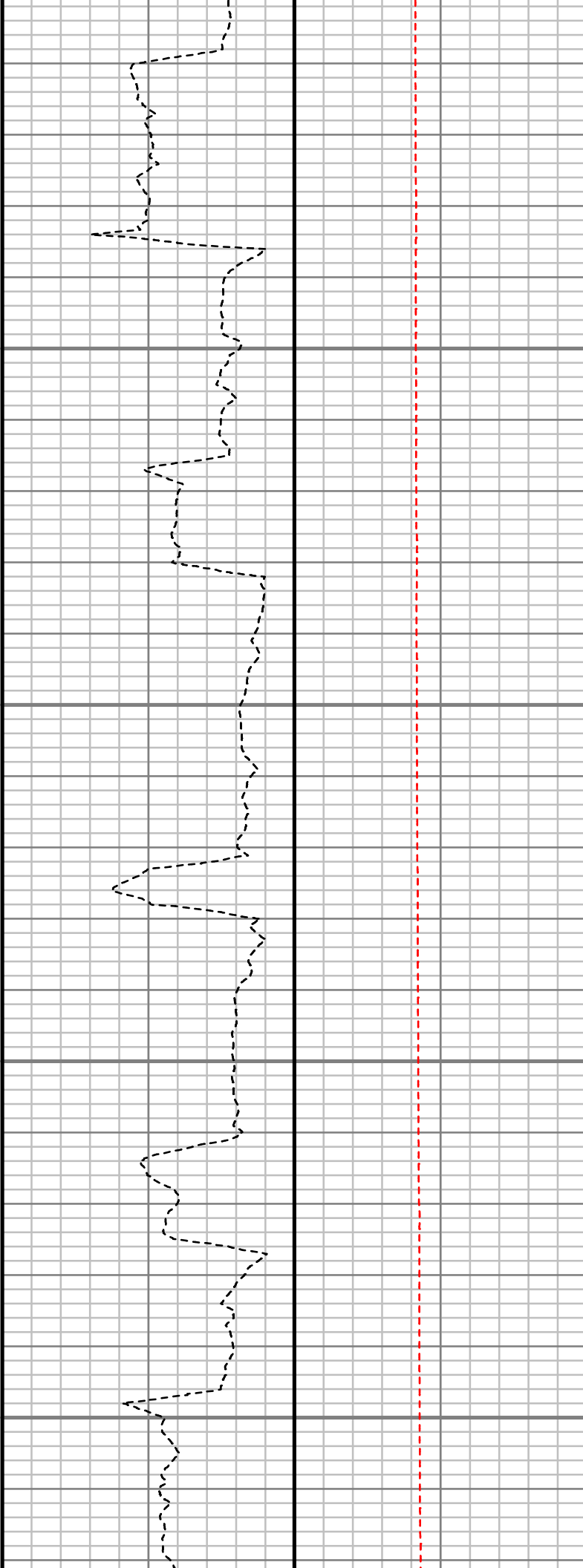


7250

7300

7350

7400



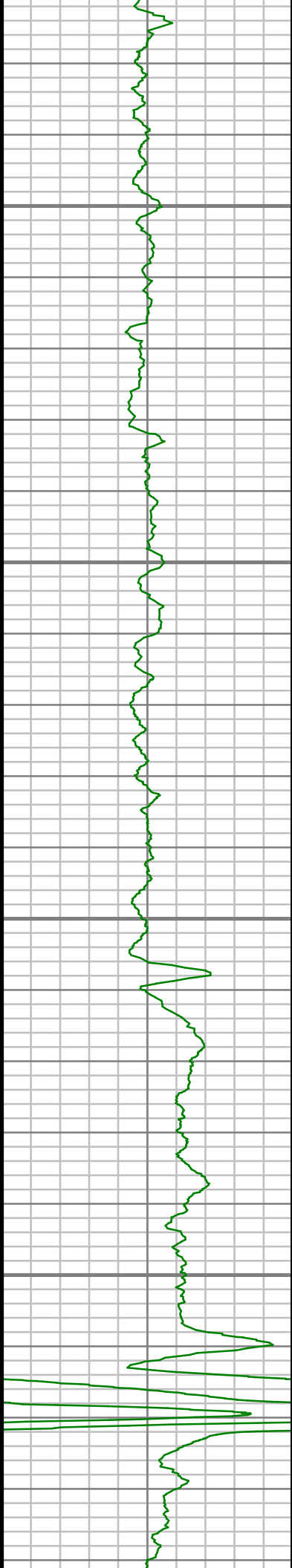
S: 65 MD: 7226.00 ft
Inc: 23.38 deg Az: 6.29
deg TVD: 7095.49 ft

S: 66 MD: 7274.00 ft
Inc: 25.84 deg Az: 6.08
deg TVD: 7139.12 ft

S: 67 MD: 7321.00 ft
Inc: 31.29 deg Az: 1.75
deg TVD: 7180.39 ft

S: 68 MD: 7368.00 ft
Inc: 36.54 deg Az: 0.82
deg TVD: 7219.38 ft

S: 69 MD: 7415.00 ft
Inc: 39.57 deg Az: 0.88
deg TVD: 7256.38 ft

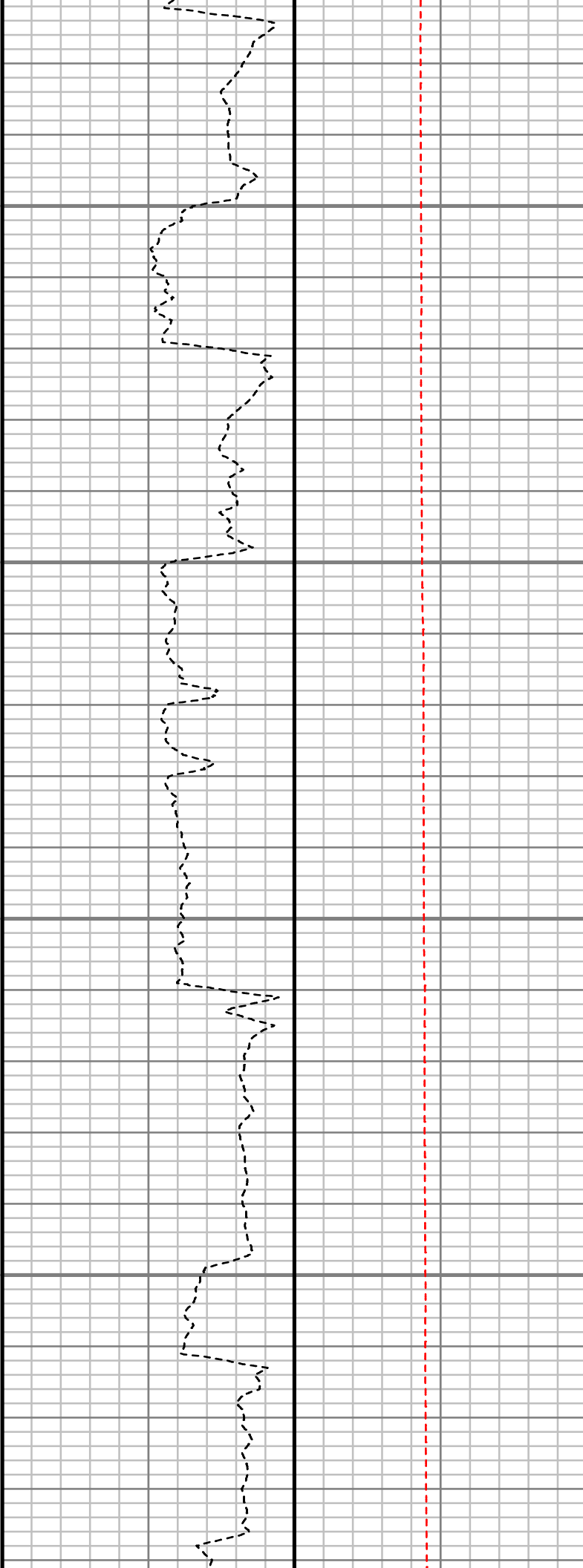


7450

7500

7550

7600

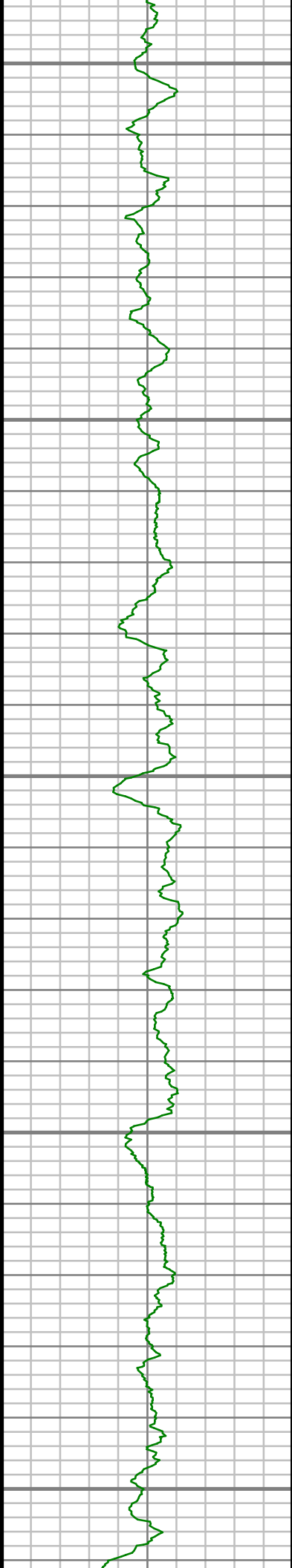


S: 70 MD: 7462.00 ft
Inc: 43.95 deg Az: 1.25
deg TVD: 7291.43 ft

S: 71 MD: 7509.00 ft
Inc: 47.71 deg Az: 2.02
deg TVD: 7324.17 ft

S: 72 MD: 7556.00 ft
Inc: 48.26 deg Az: 1.63
deg TVD: 7355.63 ft

S: 73 MD: 7603.00 ft
Inc: 53.23 deg Az: 0.66
deg TVD: 7385.36 ft



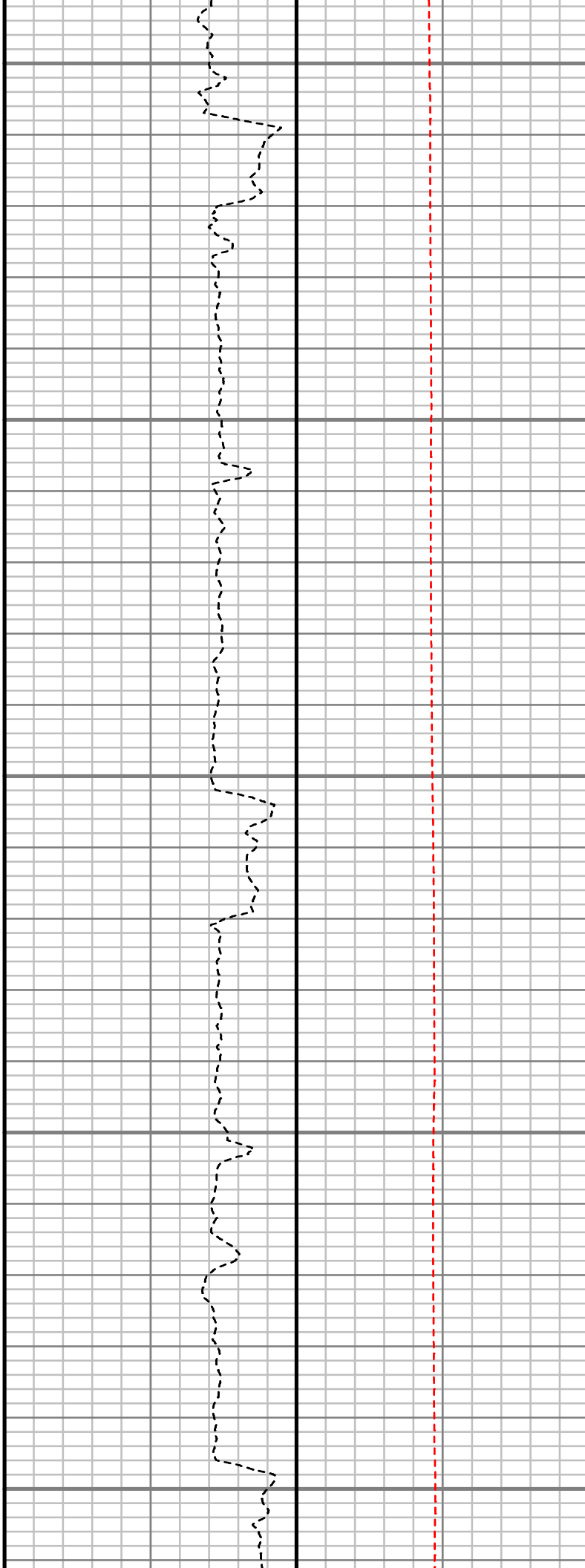
7650

7700

7750

7800

7850



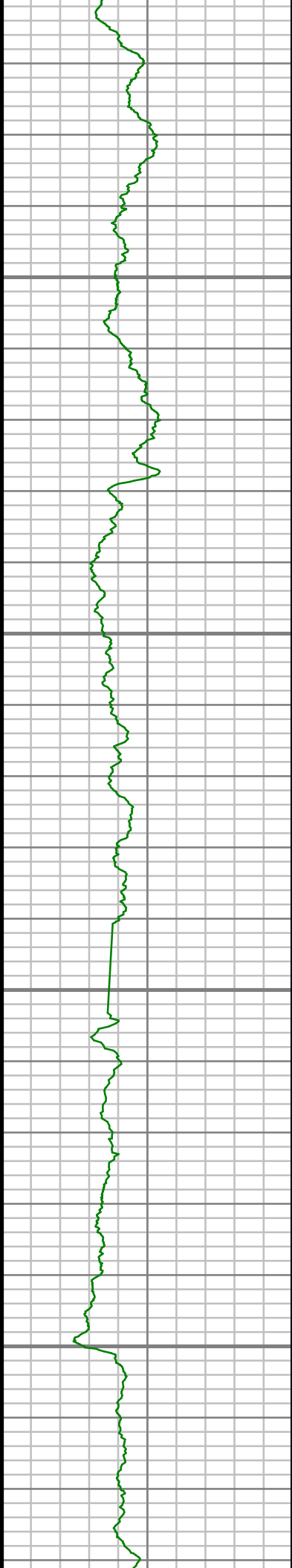
S: 74 MD: 7651.00 ft
Inc: 60.06 deg Az: 0.25
deg TVD: 7411.74 ft

S: 75 MD: 7698.00 ft
Inc: 62.63 deg Az: 0.01
deg TVD: 7434.27 ft

S: 76 MD: 7745.00 ft
Inc: 64.88 deg Az:
359.36 deg TVD:
7455.06 ft

S: 77 MD: 7792.00 ft
Inc: 67.82 deg Az: 0.31
deg TVD: 7473.91 ft

S: 78 MD: 7840.00 ft
Inc: 70.31 deg Az: 0.95
deg TVD: 7491.05 ft

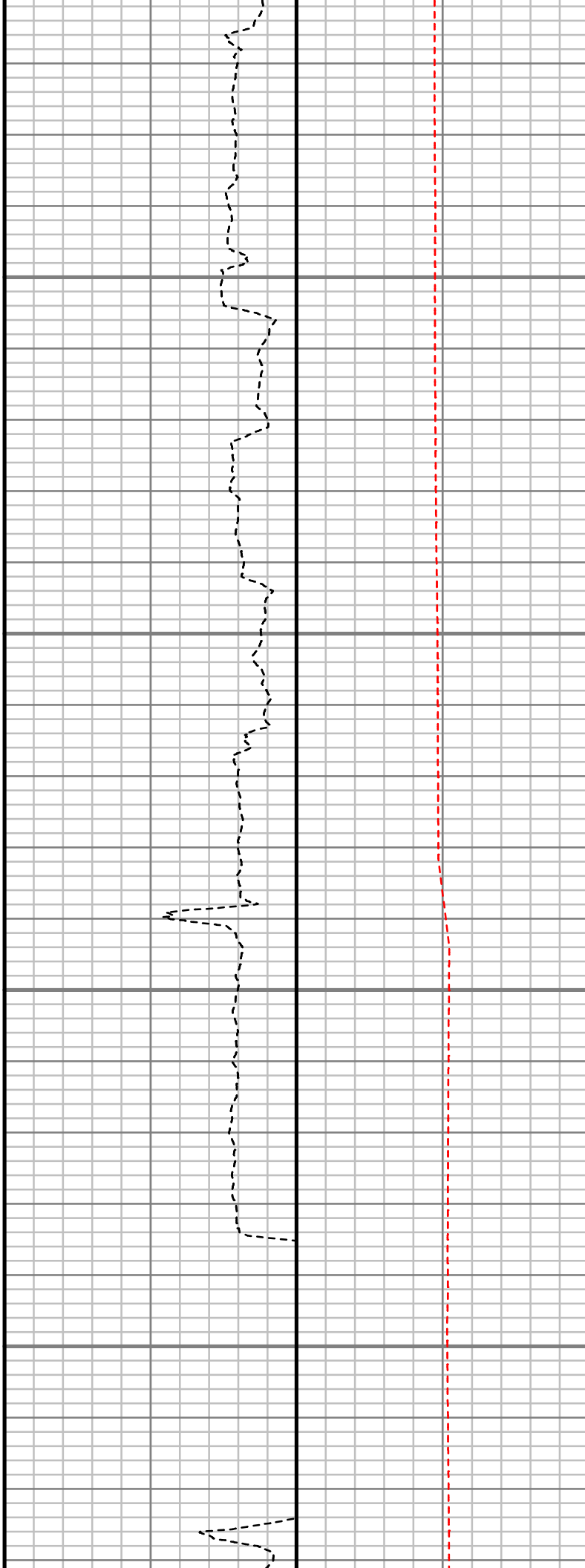


7900

7950

8000

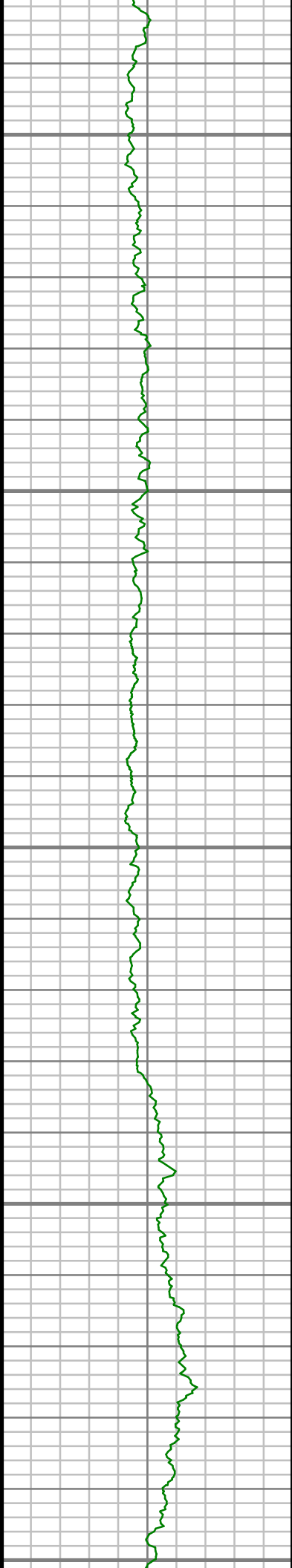
8050



S: 79 MD: 7887.00 ft
Inc: 73.85 deg Az: 0.93
deg TVD: 7505.51 ft

S: 80 MD: 7934.00 ft
Inc: 78.17 deg Az: 1.39
deg TVD: 7516.87 ft

S: 81 MD: 7981.00 ft
Inc: 81.89 deg Az: 2.37
deg TVD: 7525.01 ft



8100

8150

8200

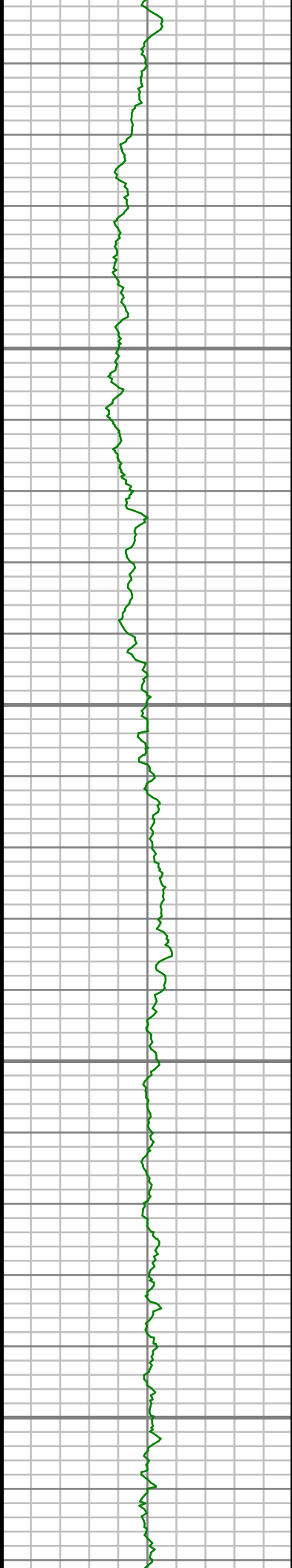
8250

8300



S: 82 MD: 8090.00 ft
Inc: 88.05 deg Az: 3.47
deg TVD: 7534.56 ft

S: 83 MD: 8232.00 ft
Inc: 88.89 deg Az: 1.59
deg TVD: 7538.36 ft

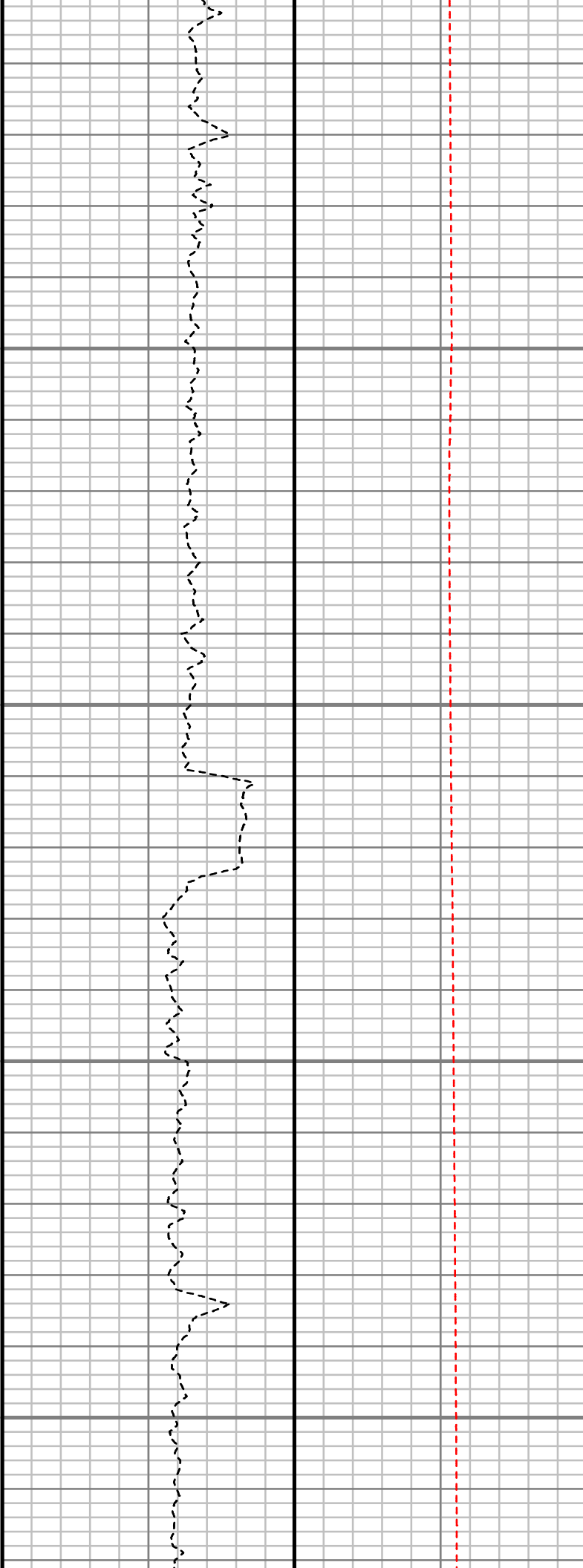


8350

8400

8450

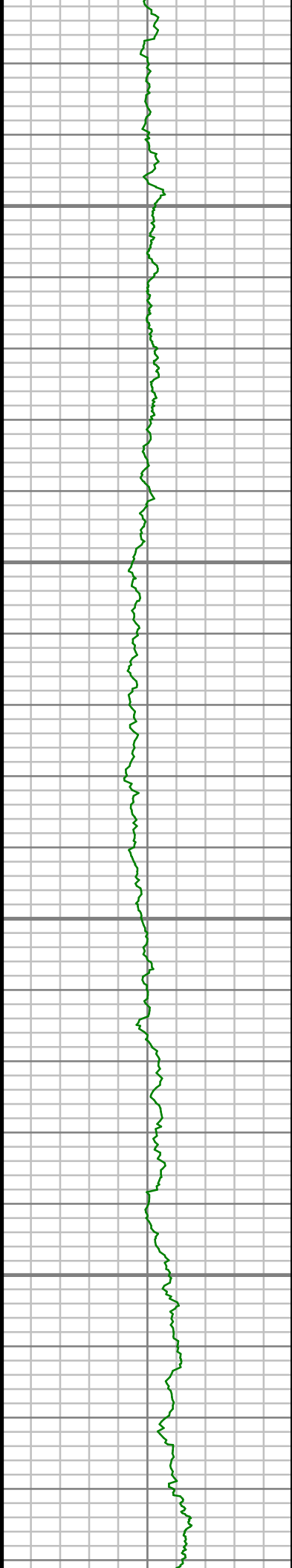
8500



S: 84 MD: 8421.00 ft
Inc: 89.33 deg Az: 0.73
deg TVD: 7541.29 ft

S: 85 MD: 8515.00 ft
Inc: 90.57 deg Az: 1.93
deg TVD: 7541.29 ft

deg TVD: 7541.36 ft

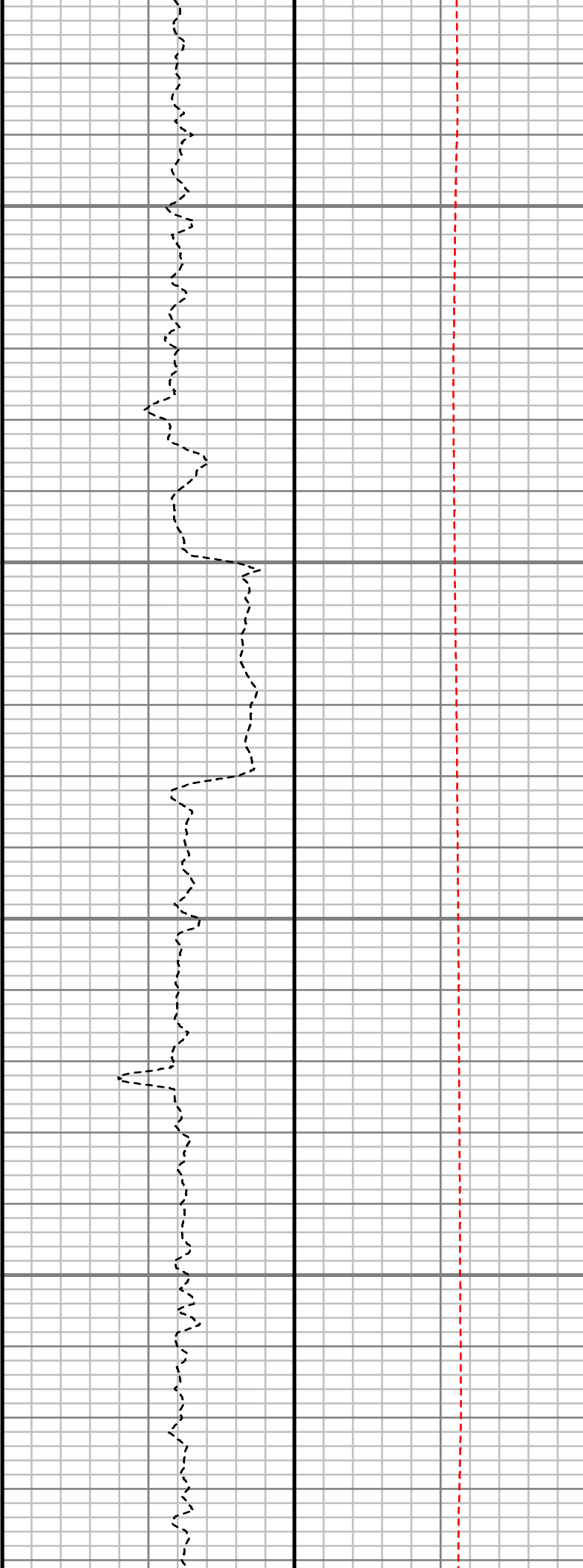


8550

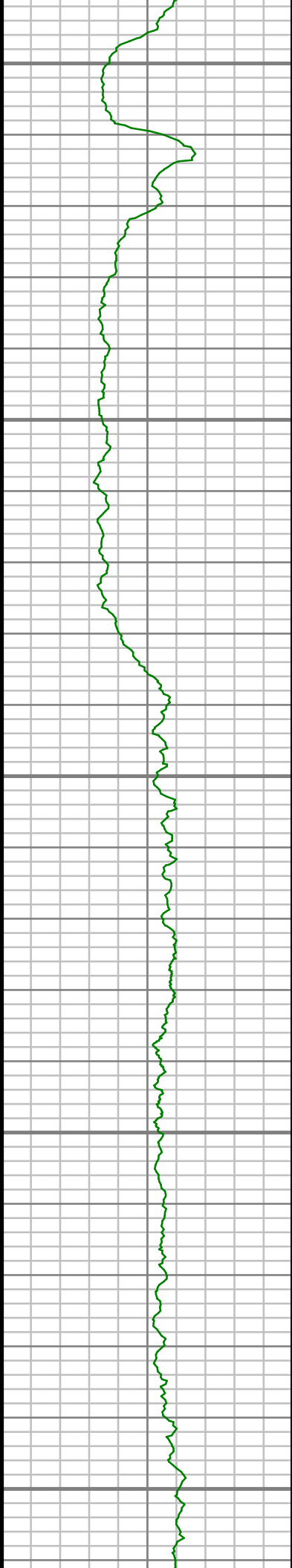
8600

8650

8700



S: 86 MD: 8609.00 ft
Inc: 90.47 deg Az: 3.05
deg TVD: 7540.52 ft



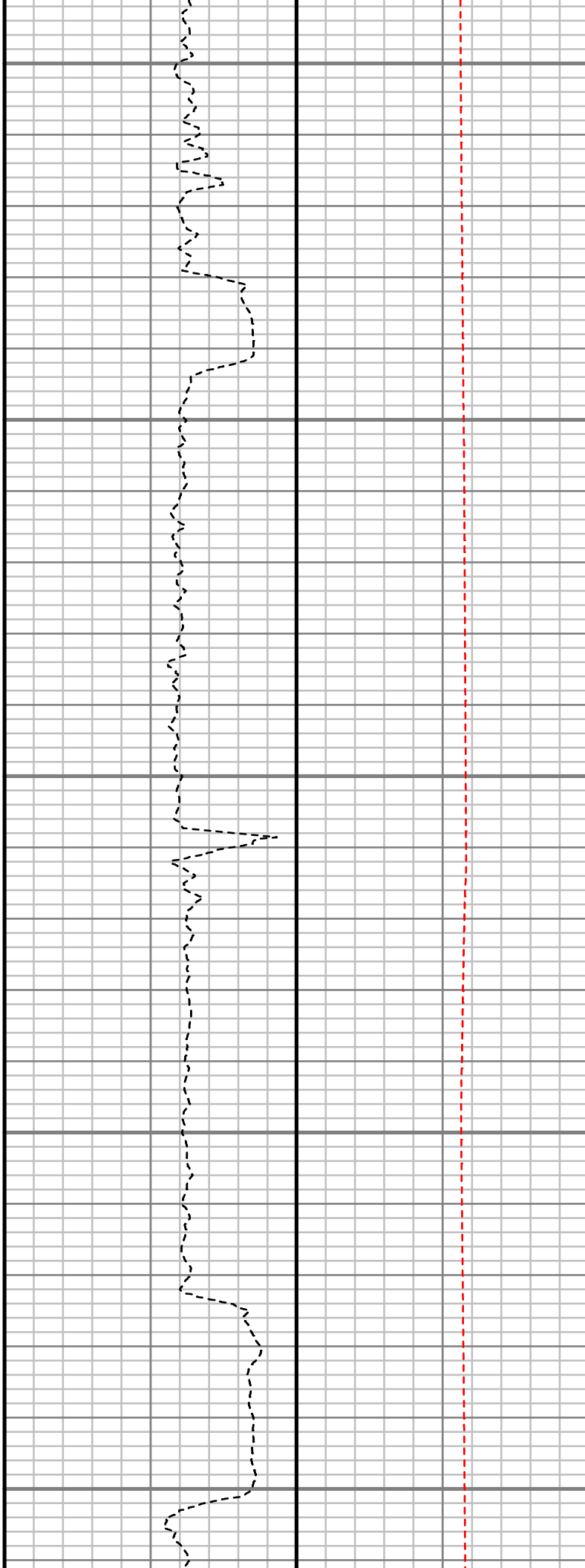
8750

8800

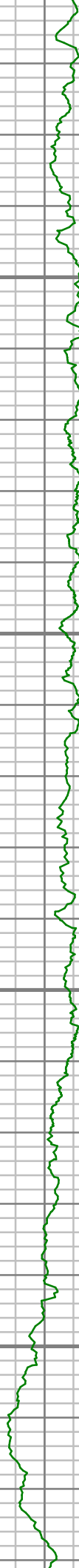
8850

8900

8950



S: 87 MD: 8798.00 ft
Inc: 89.03 deg Az: 2.09
deg TVD: 7541.35 ft



9000

9050

9100

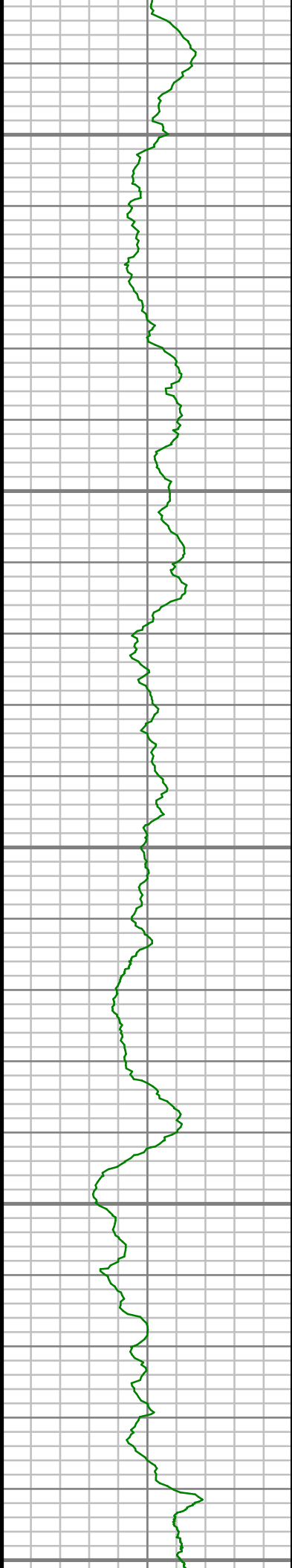
9150



S: 88 MD: 8986.00 ft
Inc: 89.60 deg Az:
358.20 deg TVD:
7543.61 ft

S: 89 MD: 9080.00 ft
Inc: 89.36 deg Az:
359.04 deg TVD:
7544.46 ft

S: 90 MD: 9175.00 ft
Inc: 91.91 deg Az:
358.91 deg TVD:



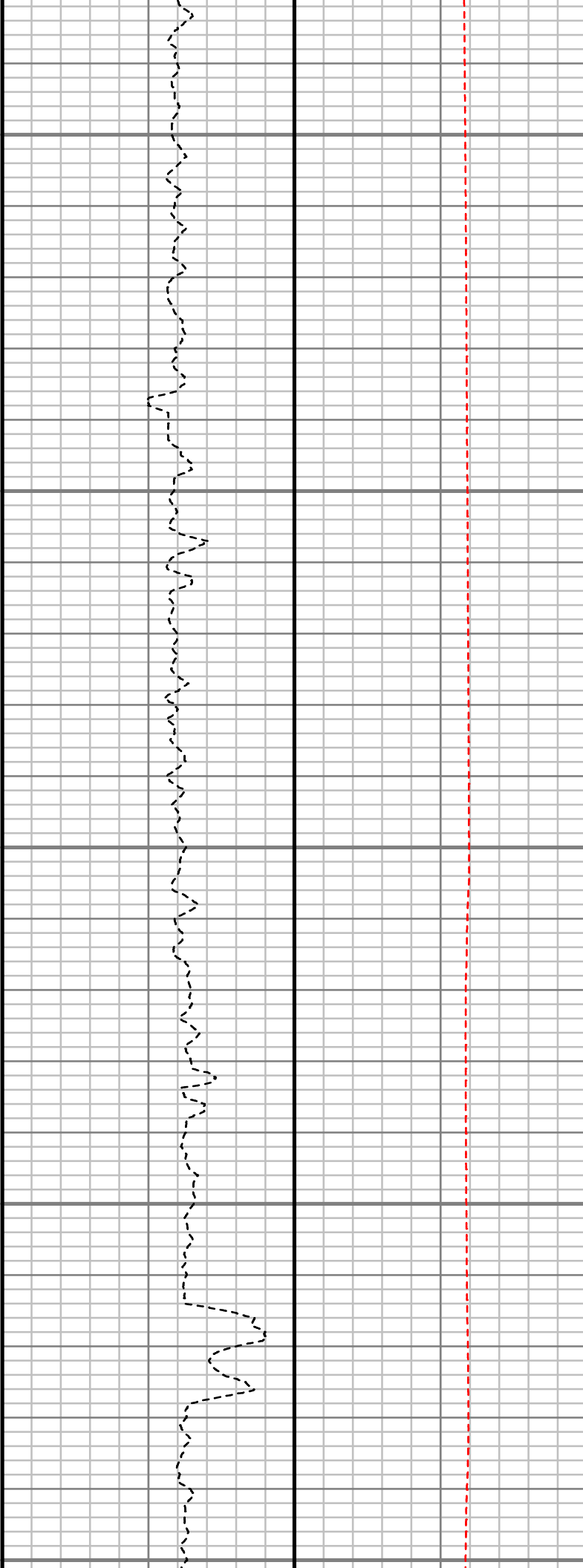
9200

9250

9300

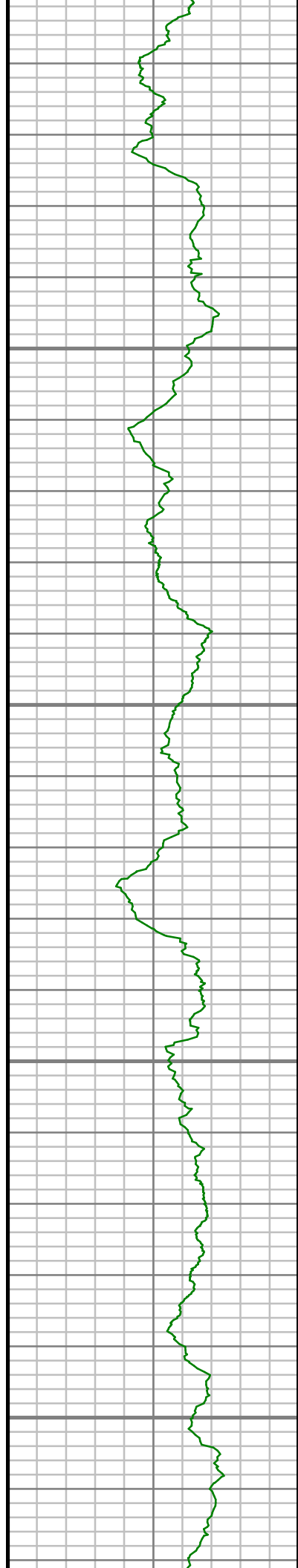
9350

9400



358.04 deg TVD:
7543.41 ft

S: 91 MD: 9269.00 ft
Inc: 92.42 deg Az:
358.33 deg TVD:
7539.85 ft

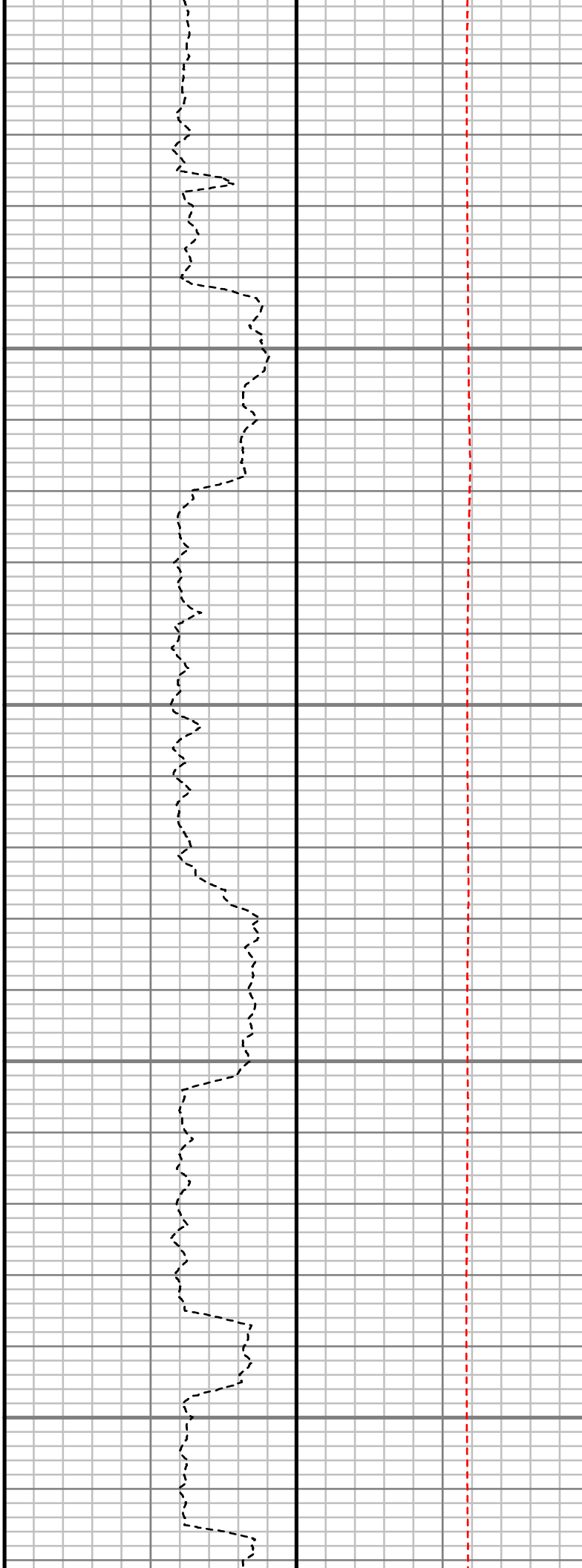


9450

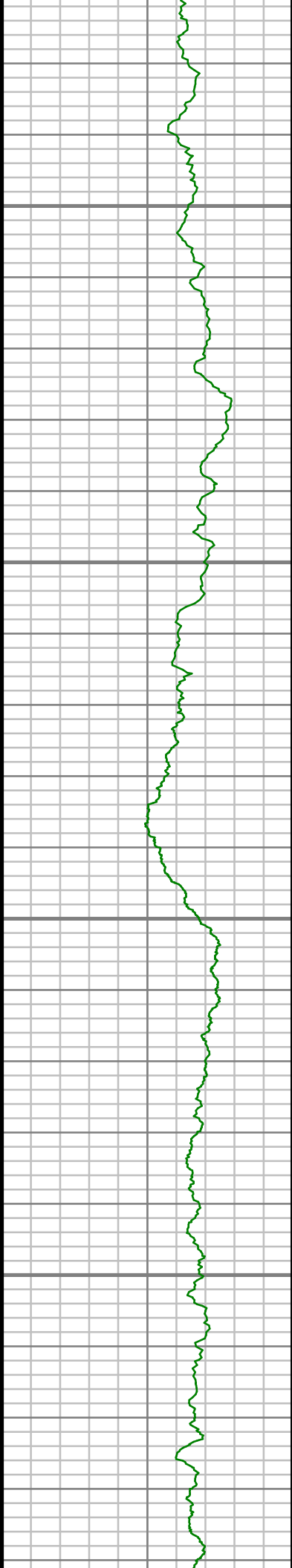
9500

9550

9600



S: 92 MD: 9458.00 ft
Inc: 92.35 deg Az:
357.78 deg TVD:
7531.98 ft

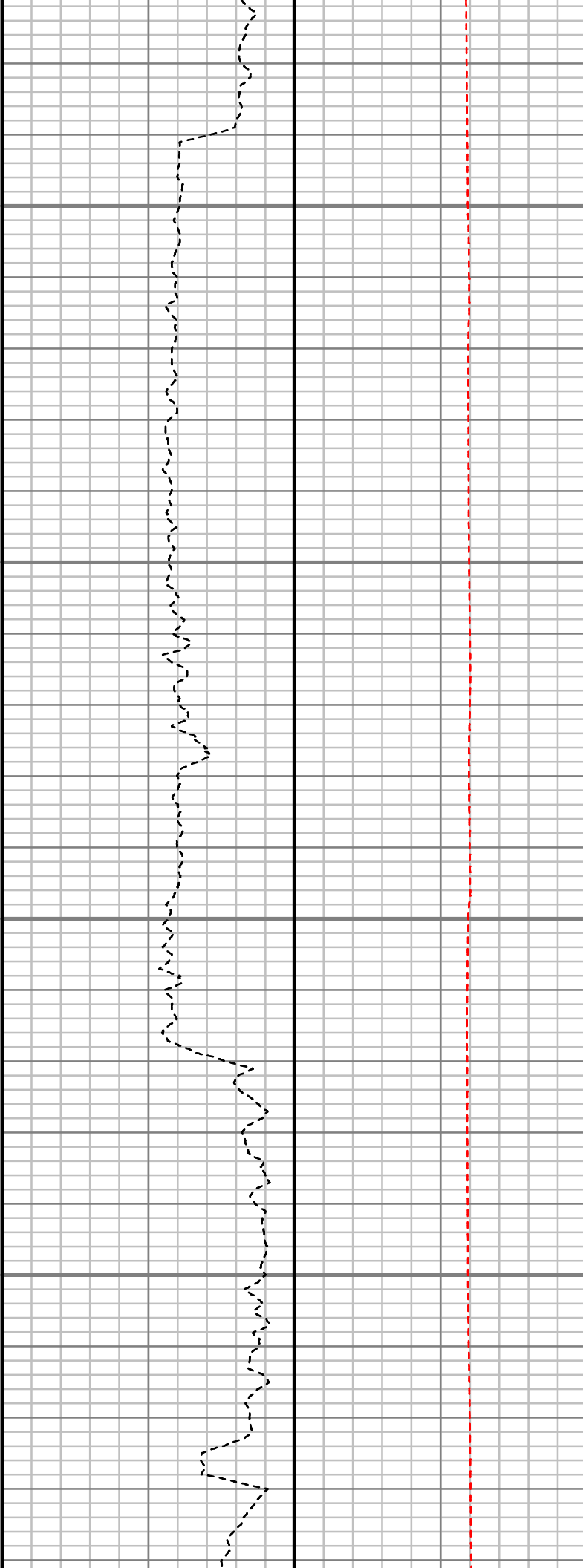


9650

9700

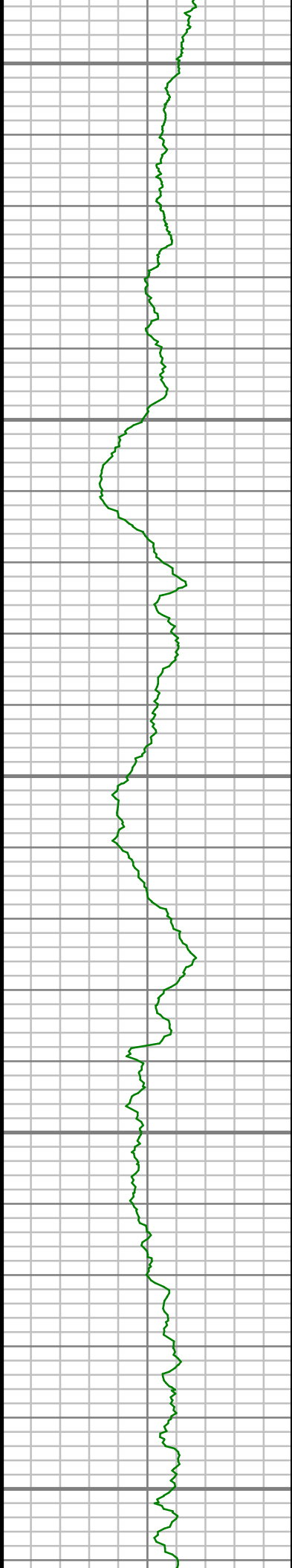
9750

9800



S: 93 MD: 9740.00 ft
Inc: 88.42 deg Az:
359.90 deg TVD:
7530.07 ft

S: 94 MD: 9835.00 ft
Inc: 89.40 deg Az:
359.92 deg TVD:



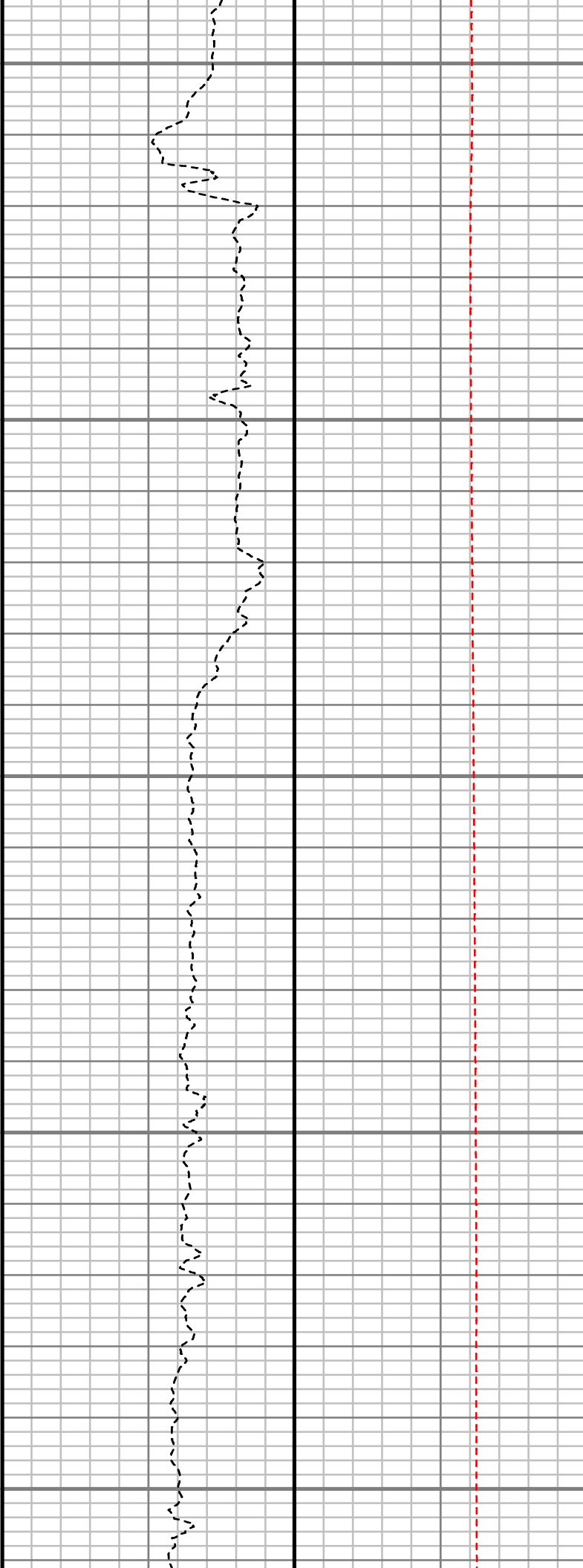
9850

9900

9950

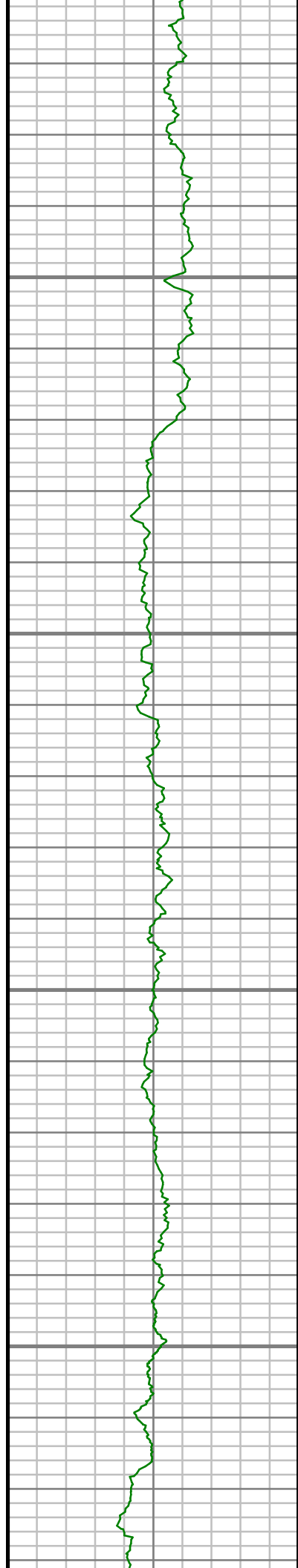
10000

10050



359.93 deg TVD:
7531.88 ft

S: 95 MD: 10023.00 ft
Inc: 89.83 deg Az:
359.44 deg TVD:
7533.15 ft

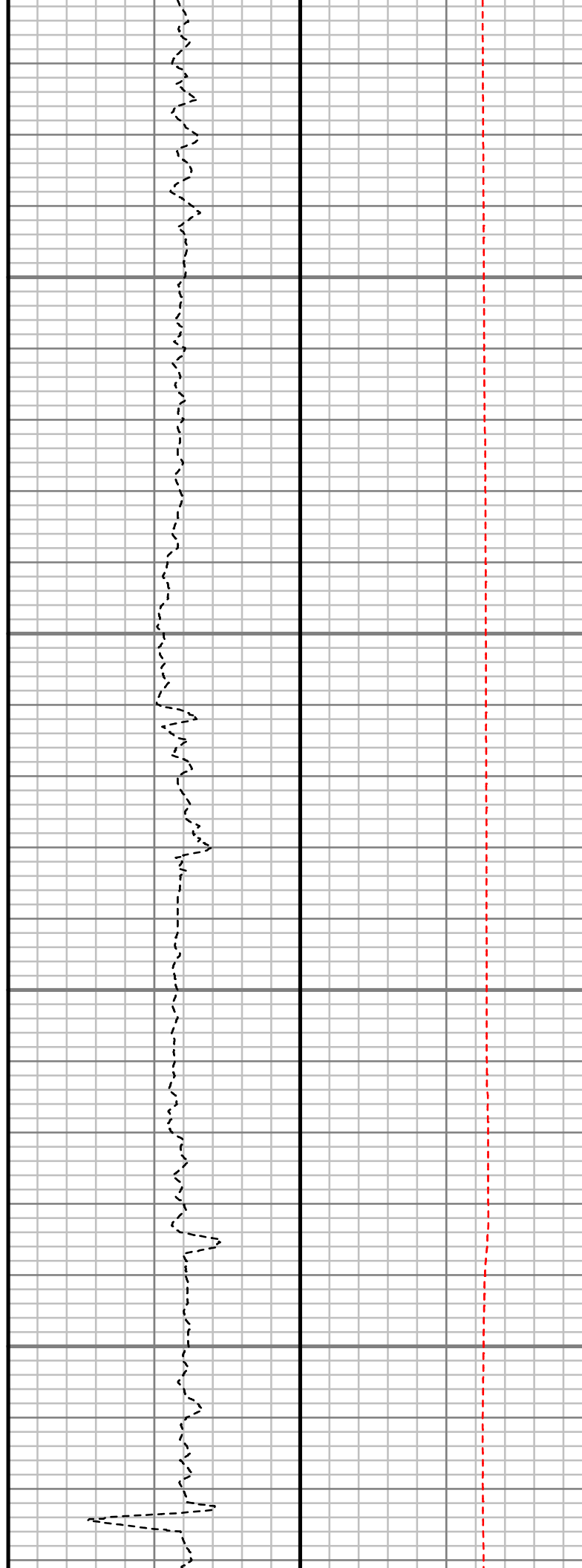


10100

10150

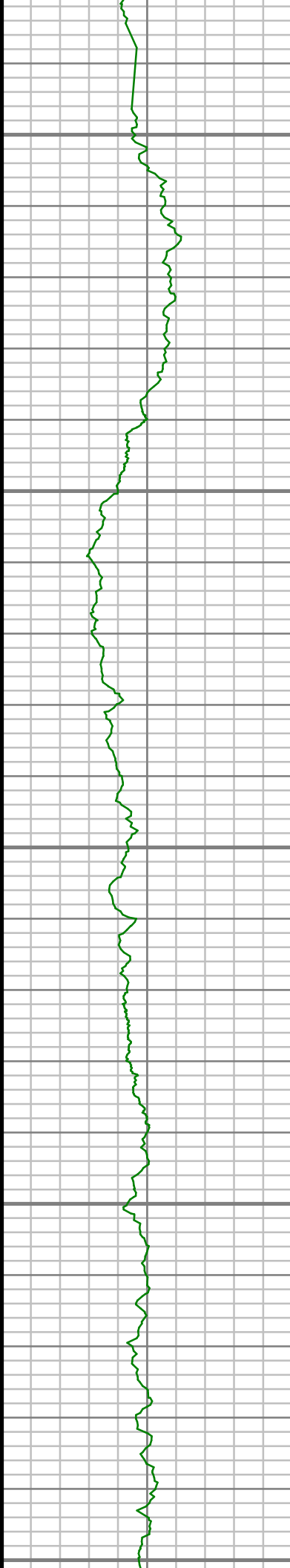
10200

10250



S: 96 MD: 10118.00 ft
Inc: 89.93 deg Az:
359.15 deg TVD:
7533.34 ft

S: 97 MD: 10212.00 ft
Inc: 90.67 deg Az:
359.24 deg TVD:
7532.85 ft



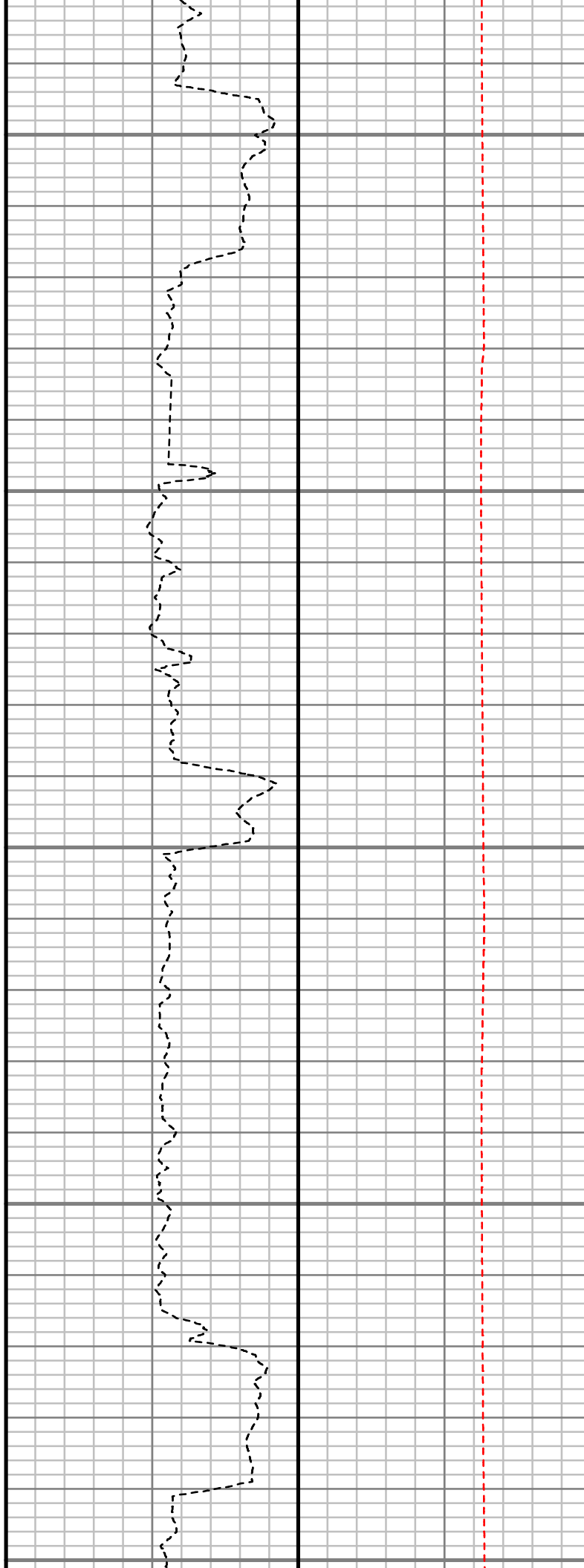
10300

10350

10400

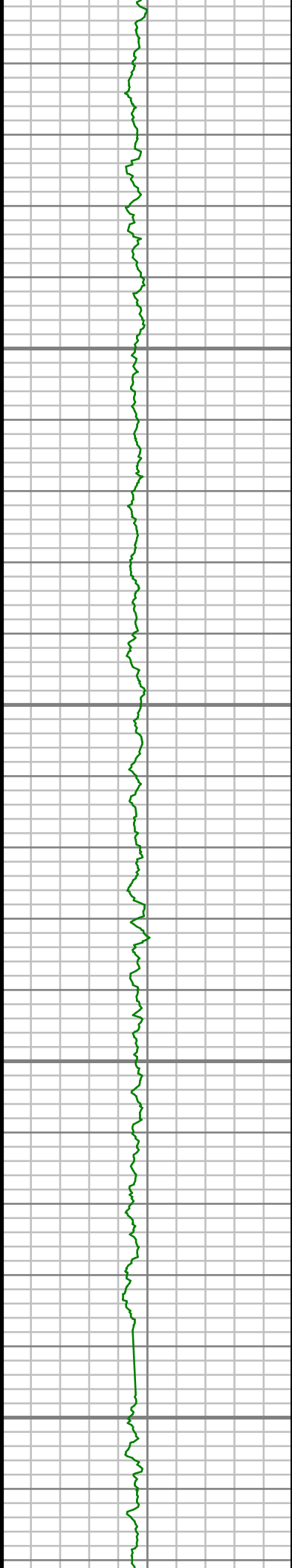
10450

10500



S: 98 MD: 10306.00 ft
Inc: 90.81 deg Az: 0.49
deg TVD: 7531.64 ft

S: 99 MD: 10495.00 ft
Inc: 88.66 deg Az:
250.34 deg TVD:

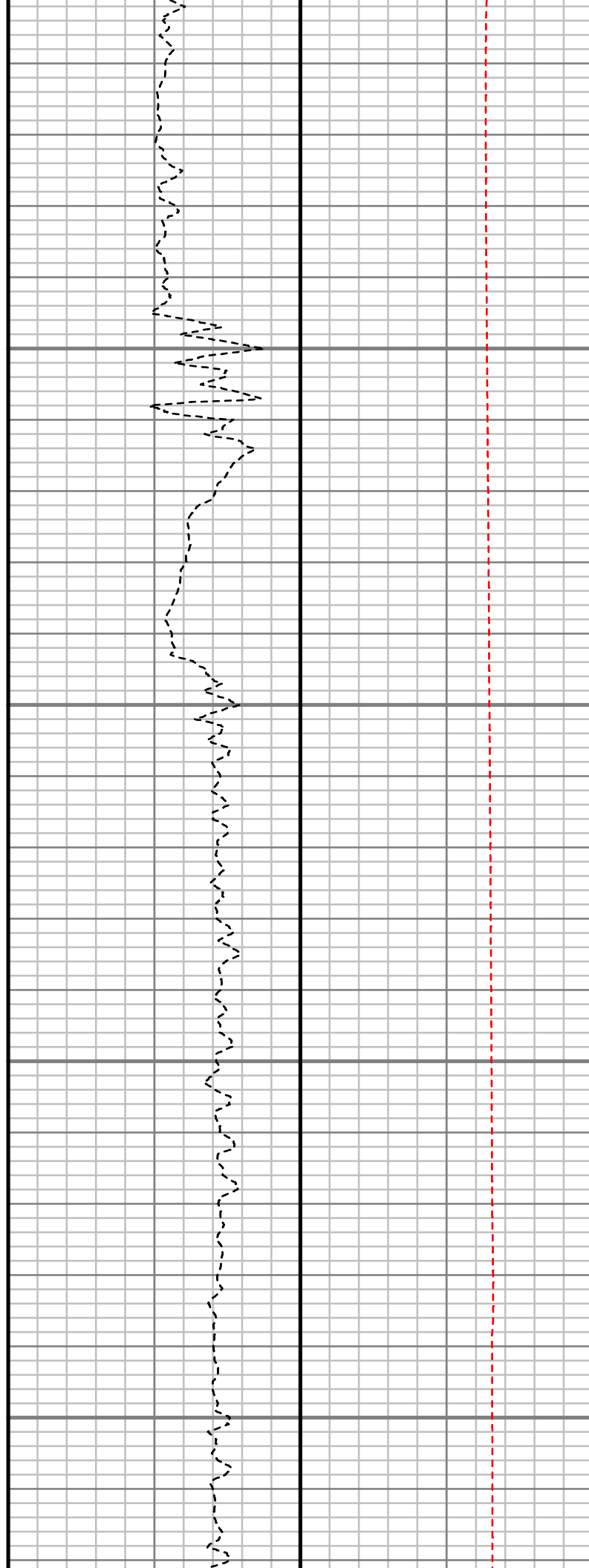


10550

10600

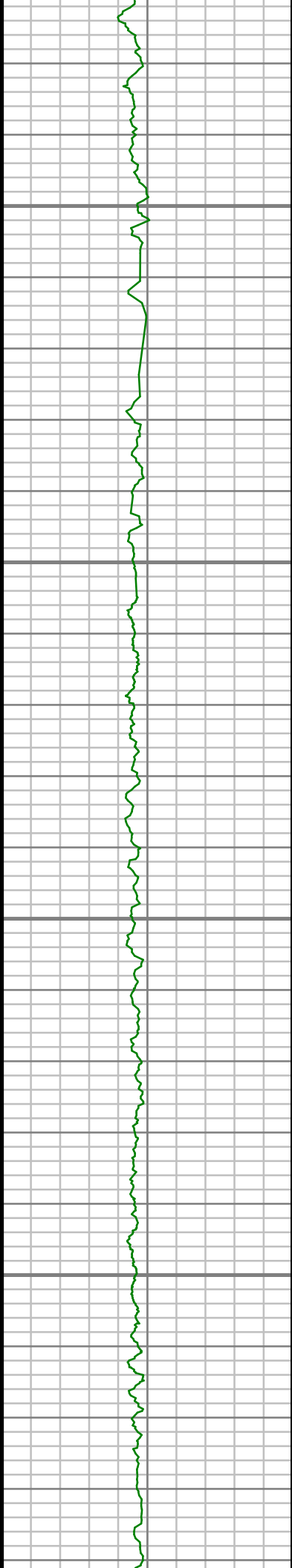
10650

10700



339.34 deg TVD:
7532.53 ft

S: 100 MD: 10589.00 ft
Inc: 89.56 deg Az:
358.96 deg TVD:
7533.99 ft

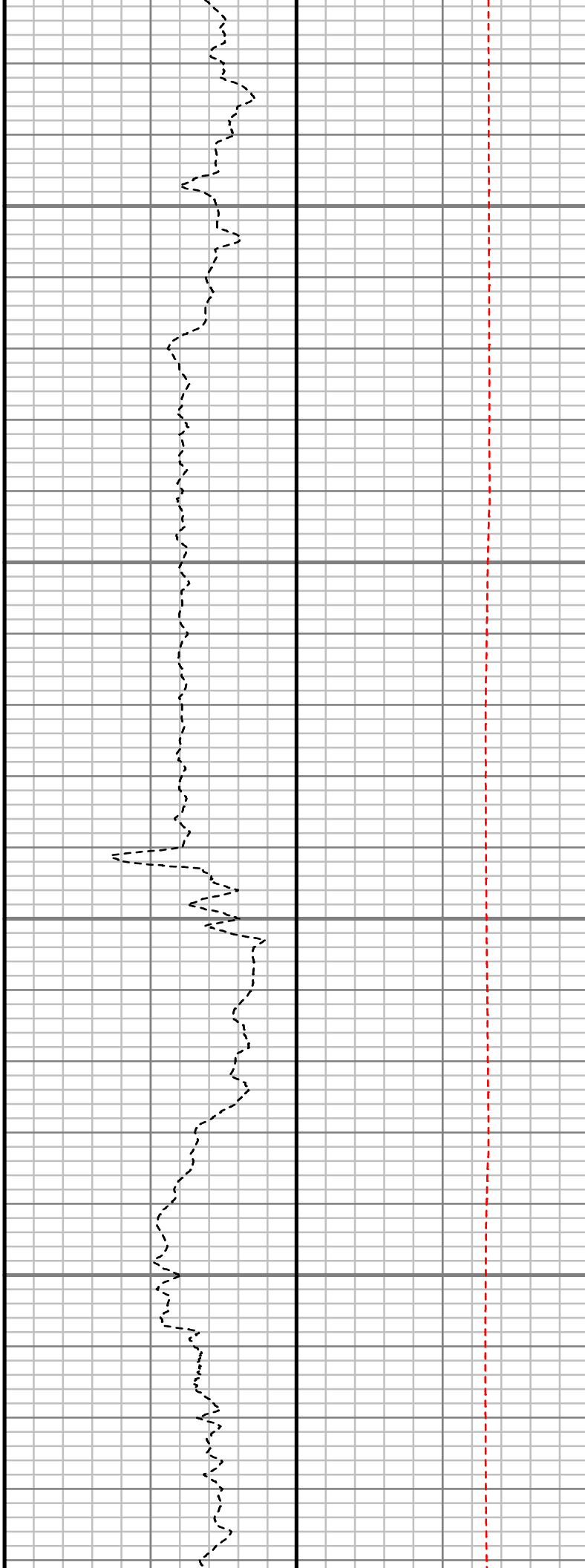


10750

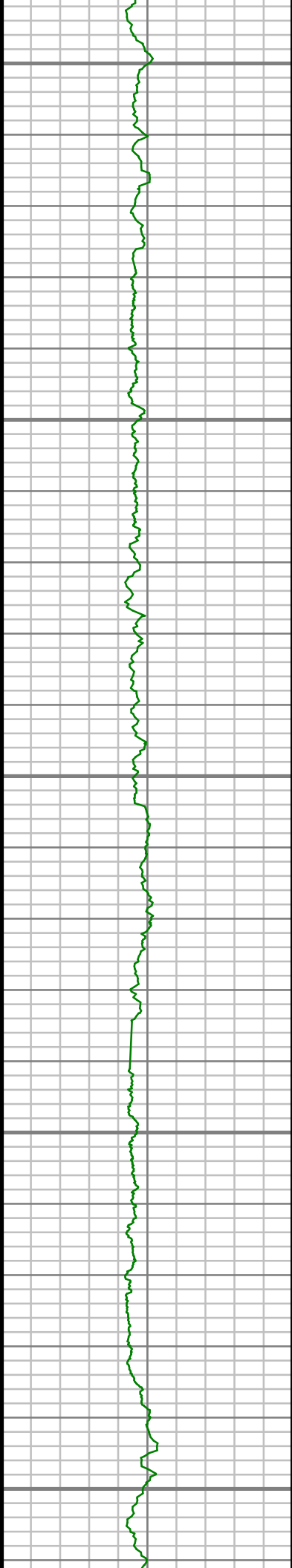
10800

10850

10900



S: 101 MD: 10778.00 ft
Inc: 89.73 deg Az:
356.13 deg TVD:
7535.15 ft



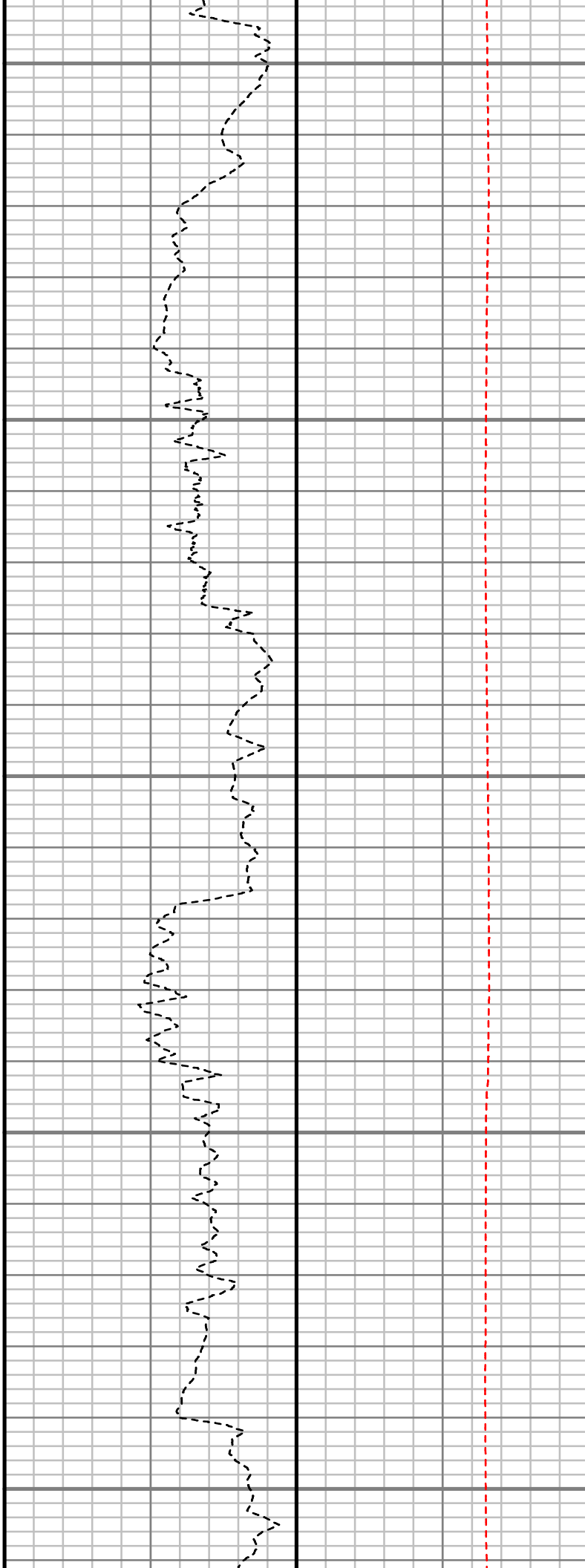
10950

11000

11050

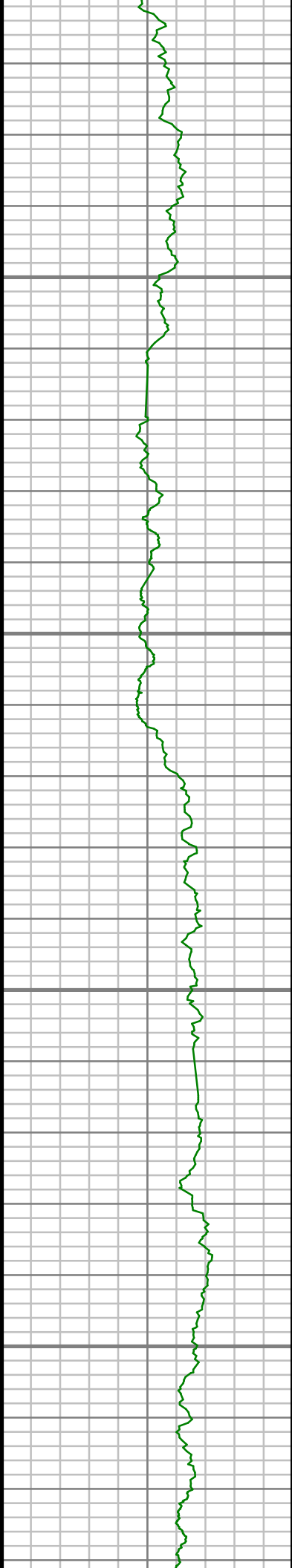
11100

11150



S: 102 MD: 10967.00 ft
Inc: 89.77 deg Az:
355.67 deg TVD:
7535.98 ft

S: 103 MD: 11061.00 ft
Inc: 91.07 deg Az:
356.51 deg TVD:
7535.29 ft

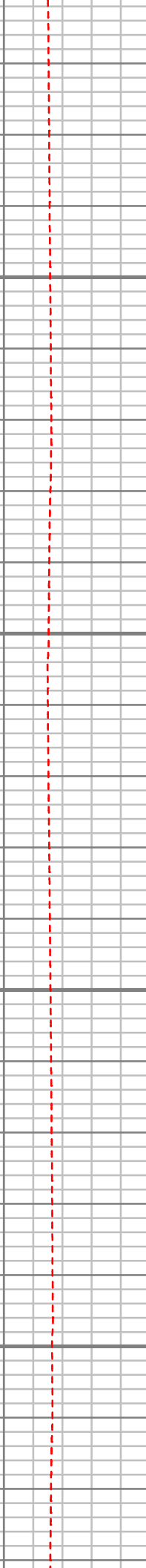
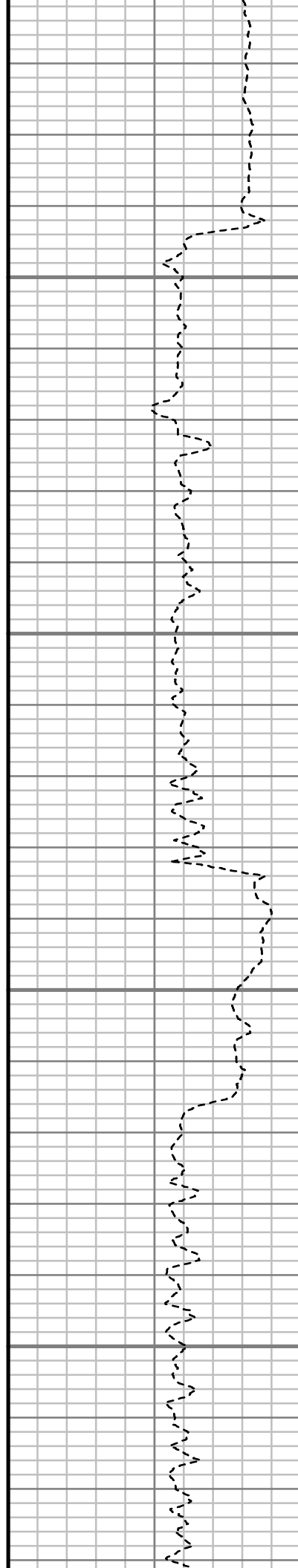


11200

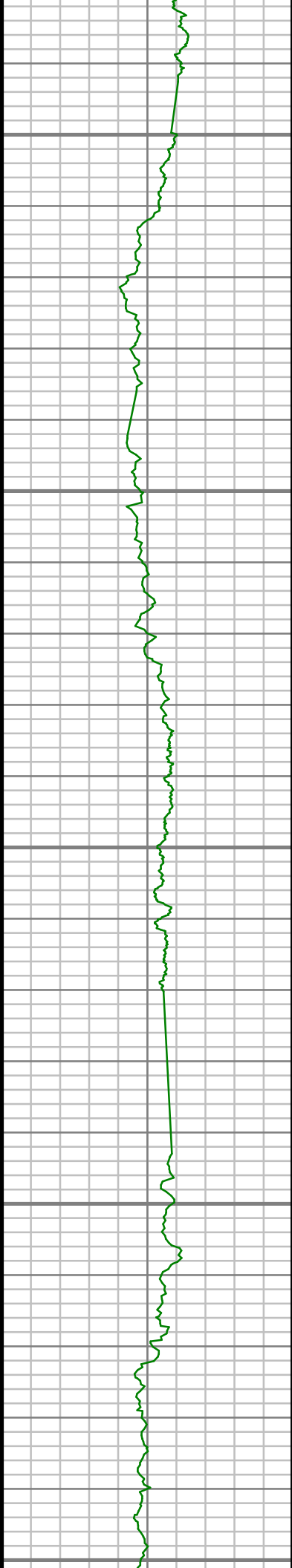
11250

11300

11350



S: 104 MD: 11344.00 ft
Inc: 91.38 deg Az:
359.45 deg TVD:
7529.23 ft



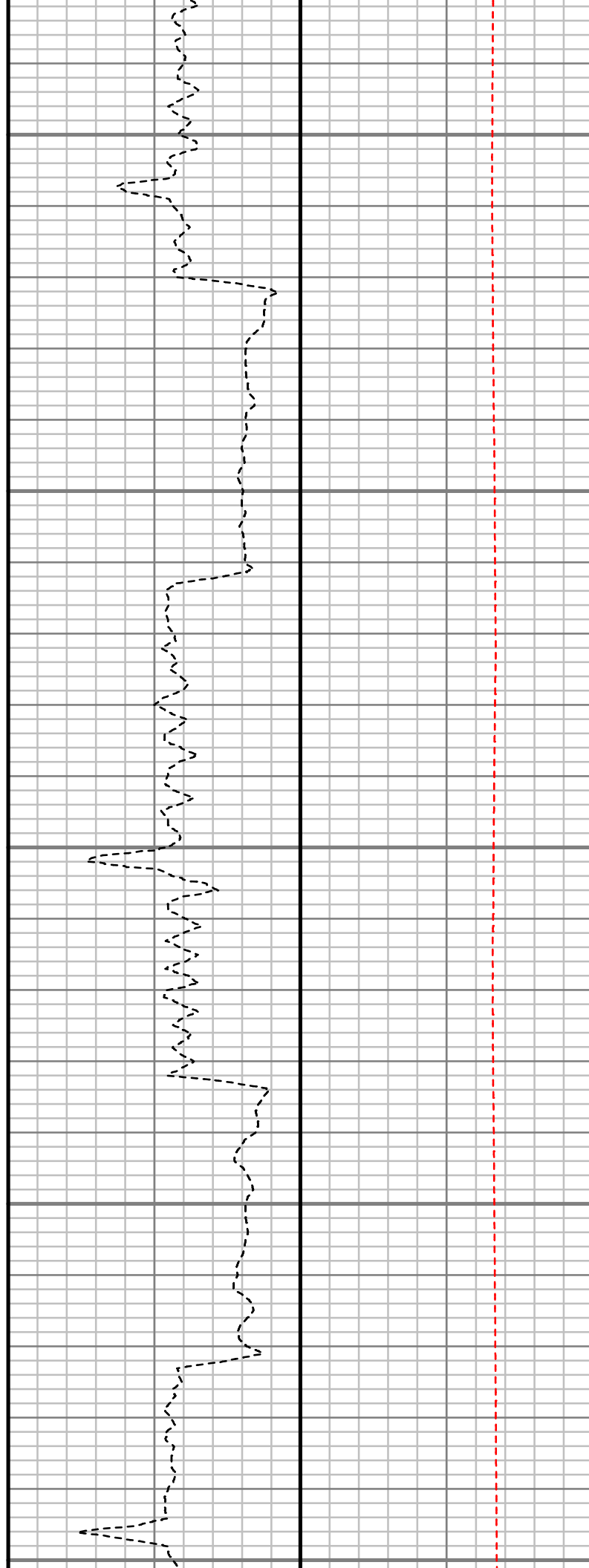
11400

11450

11500

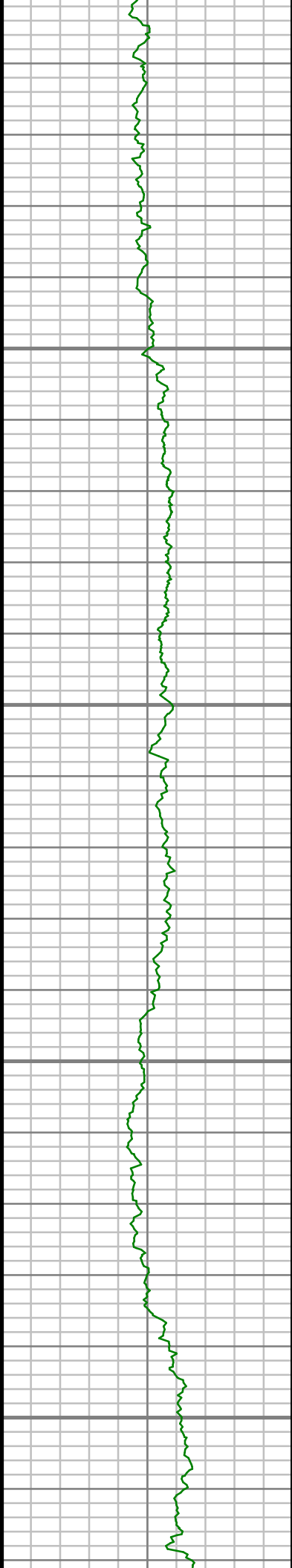
11550

11600



S: 105 MD: 11438.00 ft
Inc: 90.40 deg Az: 1.03
deg TVD: 7527.77 ft

S: 106 MD: 11533.00 ft
Inc: 89.26 deg Az: 1.24
deg TVD: 7528.05 ft

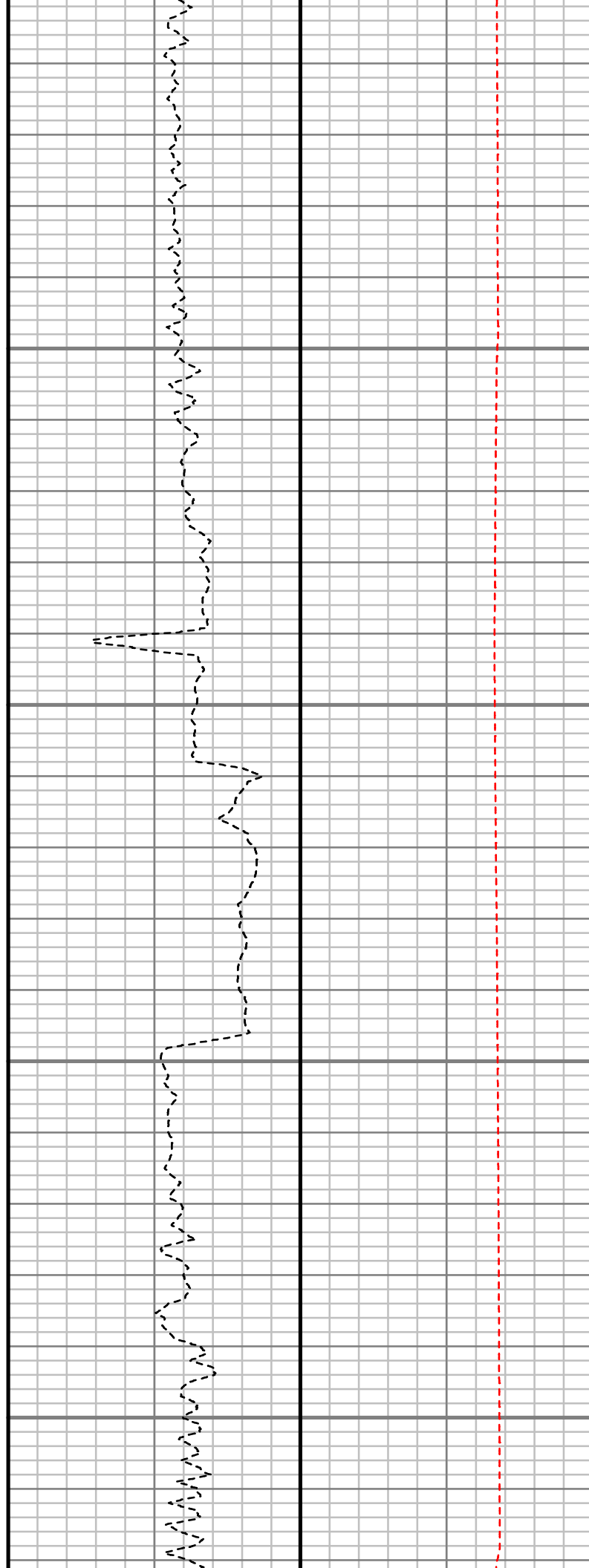


11650

11700

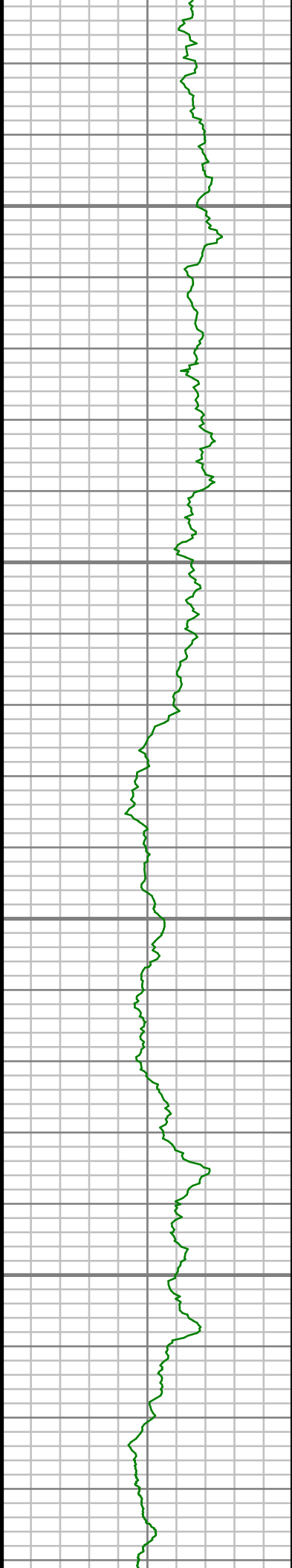
11750

11800



S: 107 MD: 11722.00 ft
Inc: 89.23 deg Az: 0.16
deg TVD: 7530.55 ft

S: 108 MD: 11816.00 ft
Inc: 88.56 deg Az: 0.39

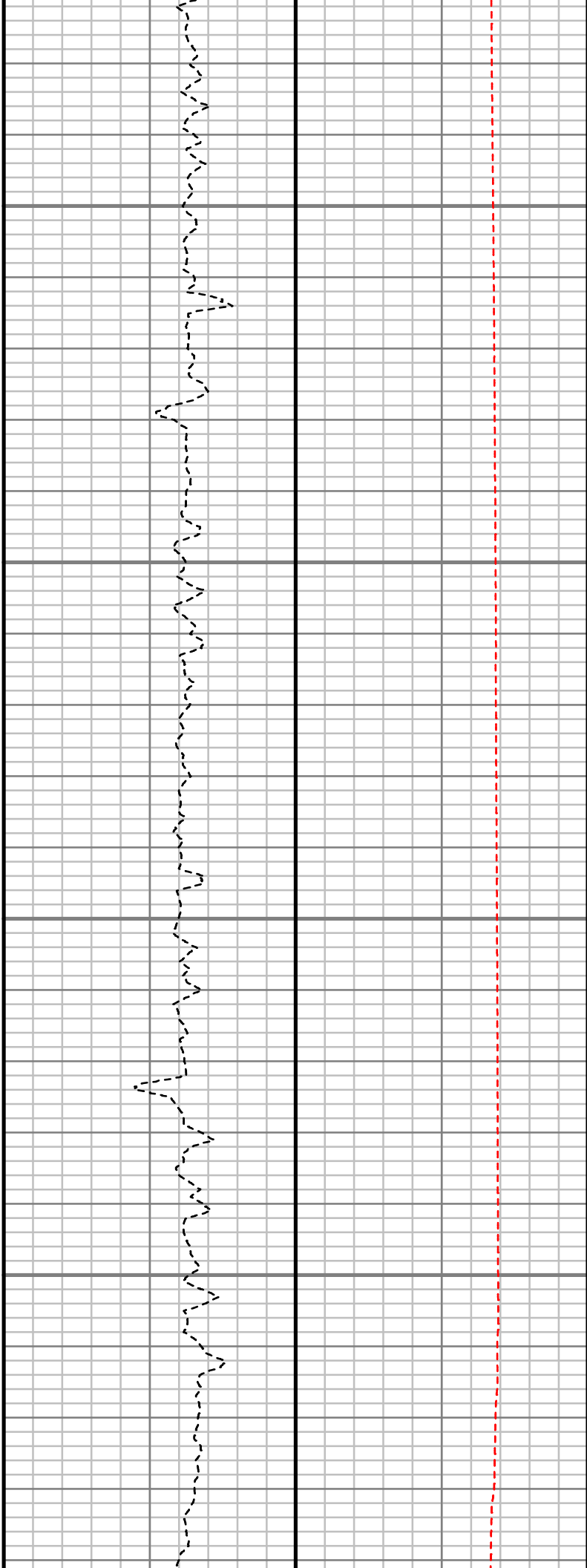


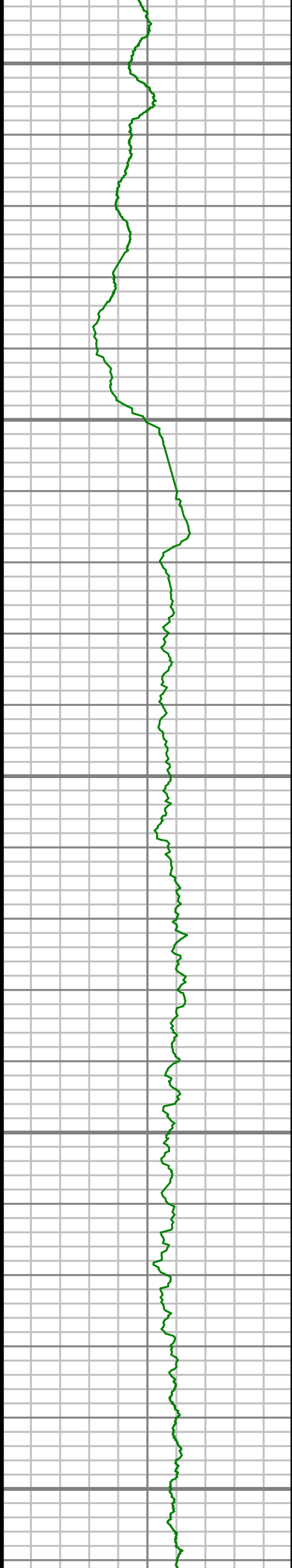
11850

11900

11950

12000





12050

12100

12150

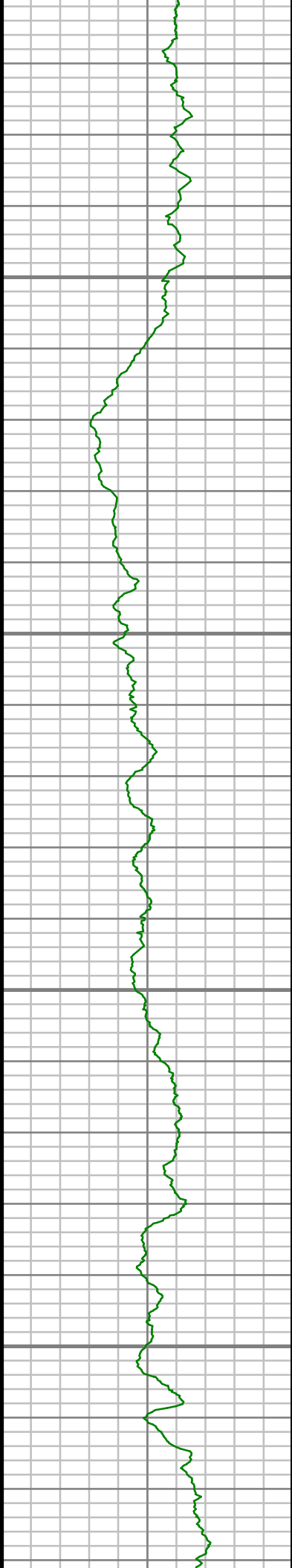
12200

12250



S: 109 MD: 12099.00 ft
Inc: 88.19 deg Az:
358.92 deg TVD:
7540.41 ft

S: 110 MD: 12193.00 ft
Inc: 90.10 deg Az:
359.40 deg TVD:
7541.81 ft

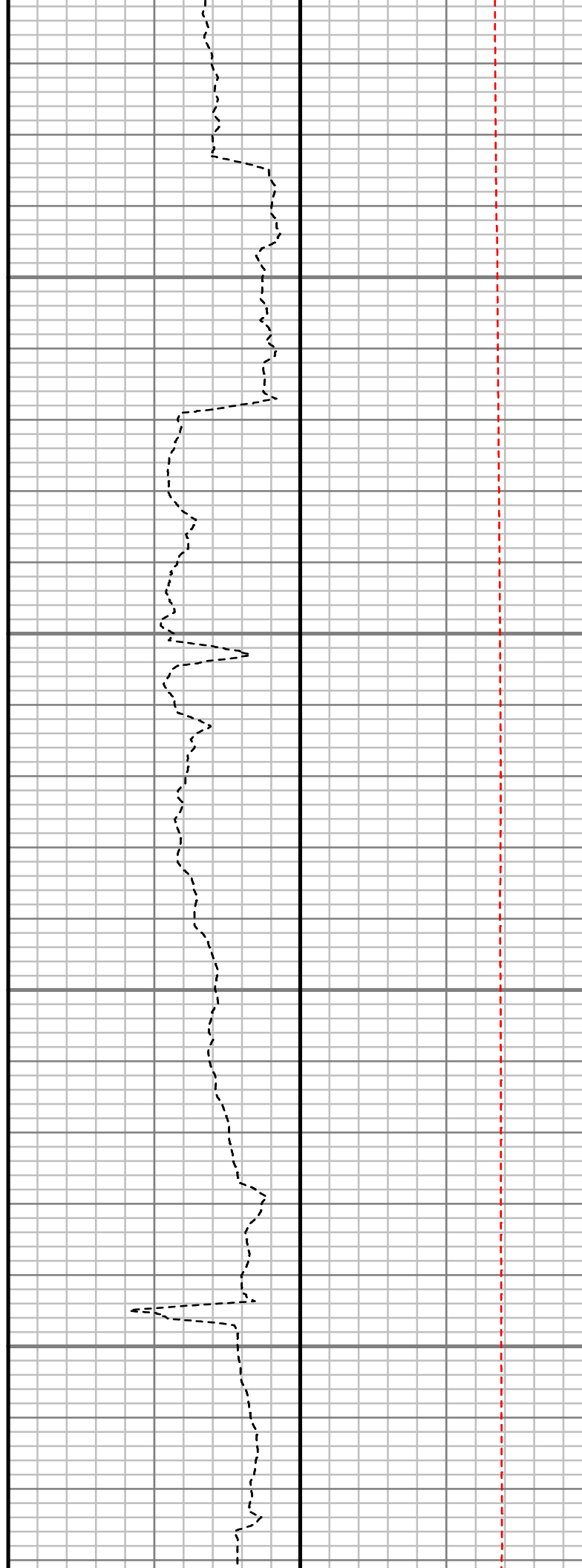


12300

12350

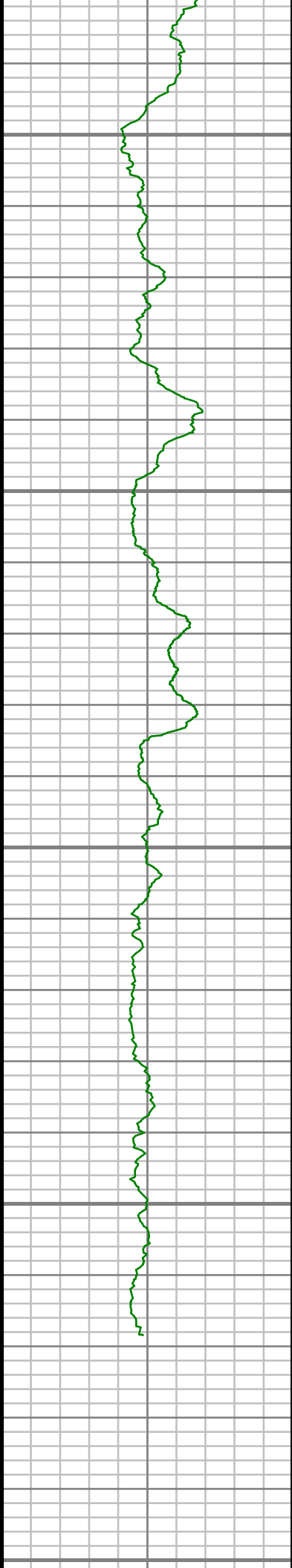
12400

12450



S: 111 MD: 12288.00 ft
Inc: 90.50 deg Az:
359.18 deg TVD:
7541.31 ft

S: 112 MD: 12477.00 ft
Inc: 92.49 deg Az:



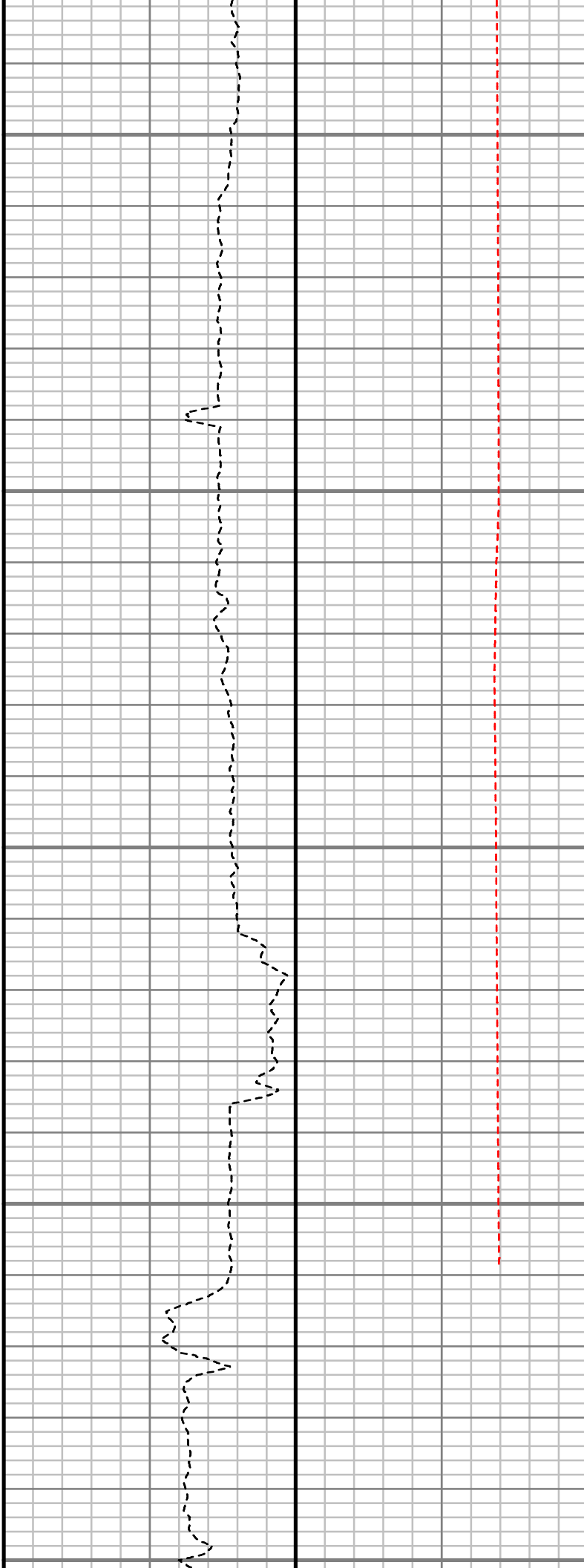
12500

12550

12600

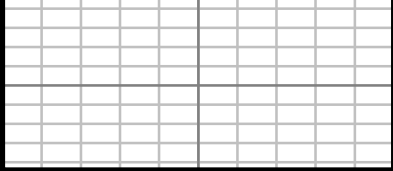
12650

12700

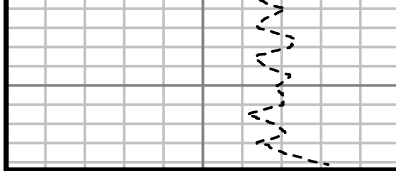


S: 113 MD: 12656.00 ft
Inc: 90.50 deg Az:
359.28 deg TVD:
7536.37 ft

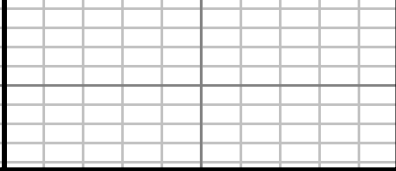
S: 113 MD: 12656.00 ft
Inc: 90.50 deg Az:
358.30 deg TVD:
7531.70 ft



Gamma Ray (GR)		
0	Unit = aapi	150



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



Tool Temperature (T-TEMP)		
50	Unit = °F	300

Comments

MEASURED DEPTH
1,240 (ft)

Survey Report

Customer Name:	ANADARKO PETROLEUM CORP.						
Site Name:	NRC 26N-8HZ						
Well Name:	NRC 26N-8HZ						
Survey:	NRC 26N-8HZ						
Survey Date:	4/30/2014						
Magnetic Declination:	8.51 deg						
North Reference:	True North						
Calculation Method:	Minimum Curvature						
Section (VS) Ref:	0.00N (ft), 0.00E (ft), 0.00Azim (deg)						
MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00
125.00	0.76	243.15	125.00	-0.30	-0.30	-0.59	0.76
225.00	0.84	243.15	224.99	-0.93	-0.93	-1.84	0.08
325.00	0.85	235.18	324.98	-1.68	-1.68	-3.10	0.12
425.00	0.71	238.87	424.97	-2.43	-2.43	-4.24	0.15
525.00	0.62	228.94	524.96	-3.10	-3.10	-5.18	0.15
625.00	0.95	230.21	624.95	-3.99	-3.99	-6.22	0.33
725.00	0.73	224.09	724.94	-4.98	-4.98	-7.30	0.24

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
825.00	0.85	249.91	824.93	-5.69	-5.69	-8.44	0.37
925.00	0.71	264.23	924.92	-6.01	-6.01	-9.76	0.24
1025.00	0.84	272.99	1024.91	-6.03	-6.03	-11.10	0.18
1125.00	0.70	262.70	1124.90	-6.07	-6.07	-12.44	0.20
1155.00	0.75	258.93	1154.90	-6.13	-6.13	-12.82	0.23
1372.00	0.53	236.85	1371.89	-6.95	-6.95	-15.05	0.15
1464.00	2.41	142.20	1463.86	-8.71	-8.71	-14.22	2.73
1700.00	4.28	168.60	1699.46	-21.26	-21.26	-9.44	1.01
1755.00	5.57	153.87	1754.26	-25.67	-25.67	-7.86	3.27
1938.00	8.90	148.83	1935.78	-45.76	-45.76	3.38	1.85
2029.00	10.82	153.08	2025.43	-59.40	-59.40	10.89	2.26
2212.00	8.50	145.99	2205.83	-85.93	-85.93	26.24	1.42
2395.00	10.67	146.93	2386.26	-111.35	-111.35	43.05	1.19
2577.00	12.32	152.19	2564.61	-142.66	-142.66	61.32	1.07
2669.00	12.88	145.27	2654.40	-159.77	-159.77	71.74	1.75
2761.00	10.94	142.42	2744.41	-175.12	-175.12	82.91	2.21
2944.00	13.38	146.72	2923.30	-206.57	-206.57	105.11	1.42
3035.00	16.42	146.43	3011.23	-226.10	-226.10	118.00	3.35
3127.00	14.52	143.99	3099.89	-246.26	-246.26	131.98	2.18
3219.00	13.65	147.88	3189.13	-264.79	-264.79	144.53	1.40

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
3310.00	12.52	154.98	3277.77	-282.83	-282.83	154.41	2.16
3404.00	12.71	149.98	3369.50	-301.01	-301.01	163.90	1.18
3499.00	12.47	147.38	3462.22	-318.70	-318.70	174.65	0.65
3593.00	11.18	144.60	3554.23	-334.67	-334.67	185.40	1.50
3688.00	11.98	146.75	3647.29	-350.42	-350.42	196.14	0.96
3782.00	14.21	151.83	3738.84	-368.76	-368.76	206.94	2.67
3876.00	13.26	153.92	3830.15	-388.62	-388.62	217.13	1.14
3971.00	12.22	150.20	3922.81	-407.13	-407.13	226.91	1.40
4065.00	14.11	154.67	4014.34	-426.13	-426.13	236.76	2.29
4160.00	13.75	149.00	4106.55	-446.27	-446.27	247.53	1.49
4348.00	14.87	142.71	4288.73	-484.61	-484.61	273.65	1.02
4442.00	16.52	142.03	4379.22	-504.74	-504.74	289.18	1.76
4536.00	16.83	144.66	4469.27	-526.38	-526.38	305.27	0.87
4725.00	14.89	150.32	4651.08	-569.80	-569.80	333.13	1.31
4914.00	15.46	151.57	4833.49	-613.05	-613.05	357.14	0.35
5009.00	14.09	151.29	4925.34	-634.33	-634.33	368.73	1.44
5103.00	12.77	149.91	5016.77	-653.36	-653.36	379.43	1.44
5197.00	11.21	153.13	5108.72	-670.50	-670.50	388.77	1.81
5386.00	13.43	161.72	5293.37	-707.73	-707.73	403.96	1.52

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
5574.00	14.32	160.57	5475.89	-750.38	-750.38	418.54	0.50
5763.00	12.69	149.82	5659.68	-790.37	-790.37	436.75	1.58
5858.00	13.77	145.75	5752.16	-808.74	-808.74	448.36	1.50
5952.00	13.96	141.66	5843.43	-826.88	-826.88	461.69	1.06
6047.00	13.27	144.28	5935.76	-844.72	-844.72	475.16	0.97
6236.00	11.89	146.01	6120.22	-878.48	-878.48	498.71	0.76
6330.00	10.24	144.28	6212.47	-893.29	-893.29	509.00	1.79
6519.00	6.96	146.65	6399.32	-916.49	-916.49	525.11	1.74
6707.00	4.41	167.45	6586.40	-933.08	-933.08	532.95	1.72
6802.00	2.54	162.54	6681.22	-938.65	-938.65	534.37	2.00
6896.00	0.96	114.79	6775.17	-940.97	-940.97	535.71	2.15
6943.00	1.02	45.74	6822.17	-940.84	-940.84	536.37	2.40
6991.00	5.61	5.37	6870.08	-938.21	-938.21	536.90	10.17
7038.00	10.53	4.09	6916.60	-931.63	-931.63	537.42	10.48
7085.00	14.04	2.31	6962.52	-921.65	-921.65	537.96	7.49
7132.00	17.36	4.80	7007.76	-908.96	-908.96	538.78	7.22
7179.00	21.58	5.14	7052.06	-893.36	-893.36	540.14	8.98
7226.00	23.38	6.29	7095.49	-875.48	-875.48	541.93	3.94
7274.00	25.84	6.08	7139.12	-855.61	-855.61	544.09	5.13
7321.00	31.29	1.75	7180.39	-833.20	-833.20	545.54	12.40

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
7368.00	36.54	0.82	7219.38	-806.99	-806.99	546.12	11.22
7415.00	39.57	0.88	7256.38	-778.03	-778.03	546.54	6.46
7462.00	43.95	1.25	7291.43	-746.74	-746.74	547.13	9.34
7509.00	47.71	2.02	7324.17	-713.04	-713.04	548.10	8.08
7556.00	48.26	1.63	7355.63	-678.14	-678.14	549.21	1.32
7603.00	53.23	0.66	7385.36	-641.77	-641.77	549.93	10.71
7651.00	60.06	0.25	7411.74	-601.70	-601.70	550.24	14.25
7698.00	62.63	0.01	7434.27	-560.46	-560.46	550.33	5.48
7745.00	64.88	359.36	7455.06	-518.31	-518.31	550.09	4.95
7792.00	67.82	0.31	7473.91	-475.26	-475.26	549.97	6.53
7840.00	70.31	0.95	7491.05	-430.43	-430.43	550.47	5.34
7887.00	73.85	0.93	7505.51	-385.73	-385.73	551.20	7.52
7934.00	78.17	1.39	7516.87	-340.14	-340.14	552.13	9.24
7981.00	81.89	2.37	7525.01	-293.88	-293.88	553.65	8.18
8090.00	88.05	3.47	7534.56	-185.50	-185.50	559.18	5.74
8232.00	88.89	1.59	7538.36	-43.70	-43.70	565.44	1.45
8421.00	89.33	0.73	7541.29	145.24	145.24	569.27	0.51
8515.00	90.57	1.93	7541.38	239.21	239.21	571.45	1.83
8609.00	90.47	3.05	7540.52	333.12	333.12	575.53	1.20

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
8798.00	89.03	2.09	7541.35	521.92	521.92	584.02	0.92
8986.00	89.60	358.20	7543.61	709.87	709.87	584.49	2.09
9080.00	89.36	359.04	7544.46	803.84	803.84	582.23	0.93
9175.00	91.91	358.04	7543.41	898.79	898.79	579.81	2.88
9269.00	92.42	358.33	7539.85	992.68	992.68	576.84	0.62
9458.00	92.35	357.78	7531.98	1181.40	1181.40	570.43	0.30
9740.00	88.42	359.90	7530.07	1463.27	1463.27	564.72	1.58
9835.00	89.40	359.93	7531.88	1558.25	1558.25	564.58	1.03
10023.00	89.83	359.44	7533.15	1746.24	1746.24	563.55	0.35
10118.00	89.93	359.15	7533.34	1841.23	1841.23	562.38	0.32
10212.00	90.67	359.24	7532.85	1935.22	1935.22	561.07	0.79
10306.00	90.81	0.49	7531.64	2029.21	2029.21	560.85	1.33
10495.00	88.66	359.34	7532.53	2218.19	2218.19	560.57	1.29
10589.00	89.56	358.96	7533.99	2312.17	2312.17	559.17	1.05
10778.00	89.73	356.13	7535.15	2500.98	2500.98	551.07	1.50
10967.00	89.77	355.67	7535.98	2689.49	2689.49	537.57	0.25
11061.00	91.07	356.51	7535.29	2783.27	2783.27	531.16	1.66
11344.00	91.38	359.45	7529.23	3065.99	3065.99	521.19	1.04
11438.00	90.40	1.03	7527.77	3159.98	3159.98	521.59	1.97
11533.00	89.26	1.24	7528.05	3254.96	3254.96	523.47	1.22

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
11722.00	89.23	0.16	7530.55	3443.92	3443.92	525.79	0.57
11816.00	88.56	0.39	7532.36	3537.90	3537.90	526.24	0.75
12099.00	88.19	358.92	7540.41	3820.78	3820.78	524.56	0.54
12193.00	90.10	359.40	7541.81	3914.75	3914.75	523.19	2.10
12288.00	90.50	359.18	7541.31	4009.74	4009.74	522.01	0.49
12477.00	92.49	359.28	7536.37	4198.65	4198.65	519.47	1.05
12656.00	90.50	358.30	7531.70	4377.54	4377.54	515.69	1.24

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

5" = 100' FEET MD