



Remarks

ANADARKO PETROLEUM CORP. PRODUCTION AFE# 2085765

SCIENTIFIC DRILLING INTERNATIONAL JOB# 131367

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 = 128-042 / CONT = 603 / MWD EYE = 298 / GAMMA RAY =1076

BIT TO SENSOR OFFSETS: SURVEY = 62.75 FT. / GAMMA RAY = 53.50 FT.

RUN # 2: MWD / GAMMA RAY LOGGING RUN

SENSORS S/N: PULSER = 078-029 / CONT = 819 / MWD EYE = 826 / GAMMA RAY =1101

BIT TO SENSOR OFFSETS: SURVEY = 59.9 FT. / GAMMA RAY = 48.65 FT.

SURVEY WELL NOTES:

SURVEYS FROM 0.0 FT. TO 1268 FT. WERE ACQUIRED BY MS GYRO MWD.

SURVEYS FROM 1268 FT. TO XXXXX 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.

ANADARKO PETROLEUM CORP.  
NRC 3C-8HZ  
WATTENBERG FIELD  
WELD COUNTY, COLORADO  
05-123-38945

Gamma Ray (GR)

0Unit = aapi150

MEASURED DEPTH  
1:240 (ft)

Rate of Penetration (ROP)

600Unit = ft/hr0

Tool Temperature (T-TEMP)

100Unit = °F300

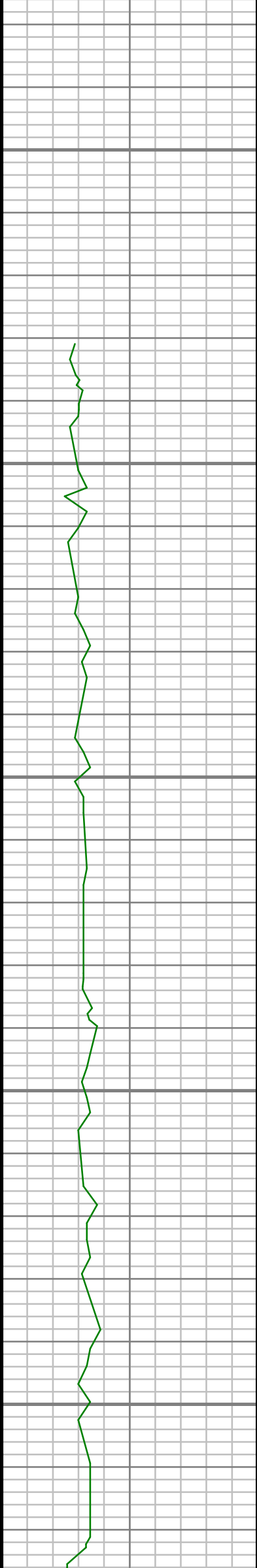
Comments

1250



S: 13 MD: 1363.00 ft  
Inc: 1.61 deg Az:  
186.81 deg TVD:  
1362.95 ft

S: 14 MD: 1455.00 ft  
Inc: 3.21 deg Az:  
182.15 deg TVD:  
1454.87 ft



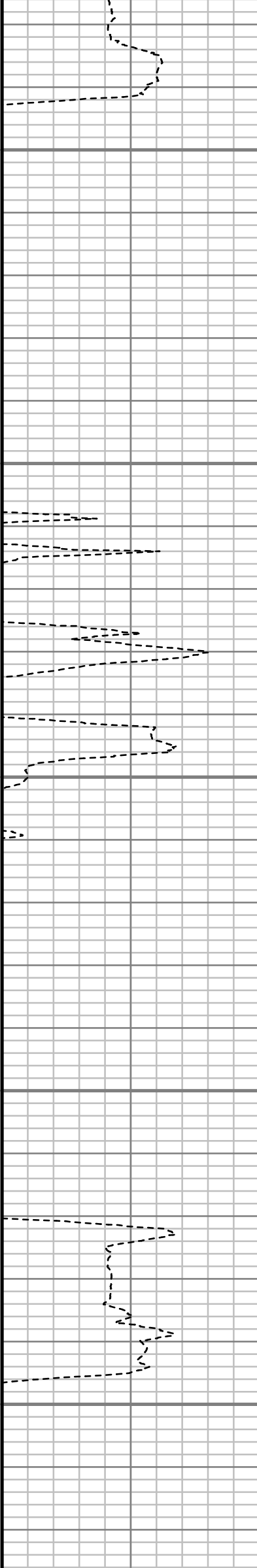
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1600

1650

1700

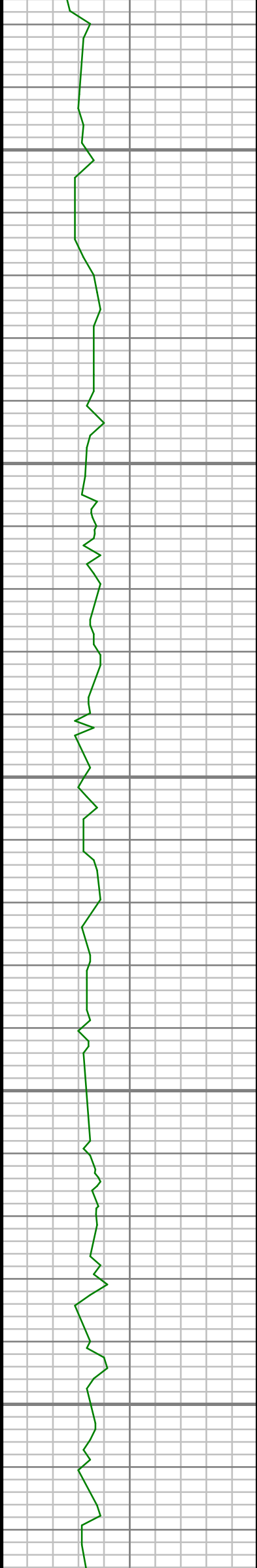
1750



S: 15 MD: 1564.00 ft  
Inc: 5.17 deg Az:  
188.13 deg TVD:  
1563.57 ft

S: 16 MD: 1656.00 ft  
Inc: 6.13 deg Az:  
188.73 deg TVD:  
1655.13 ft

S: 17 MD: 1747.00 ft  
Inc: 6.98 deg Az:  
183.85 deg TVD:  
1745.53 ft



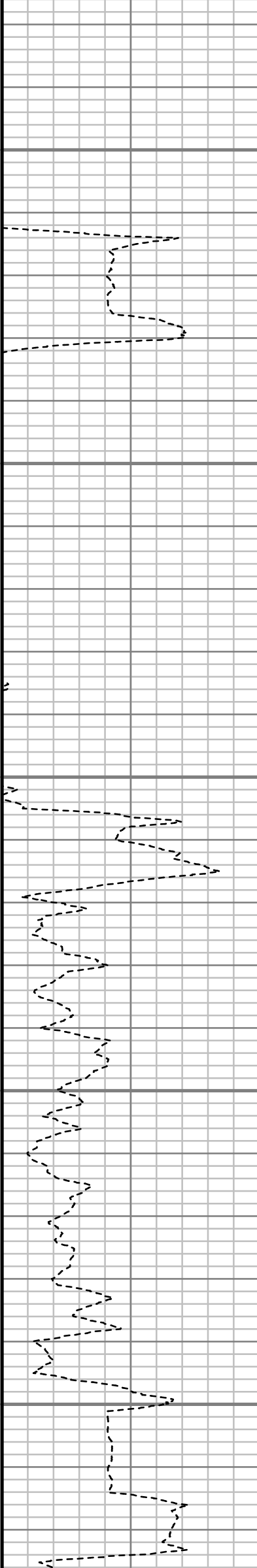
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1850

1900

1950

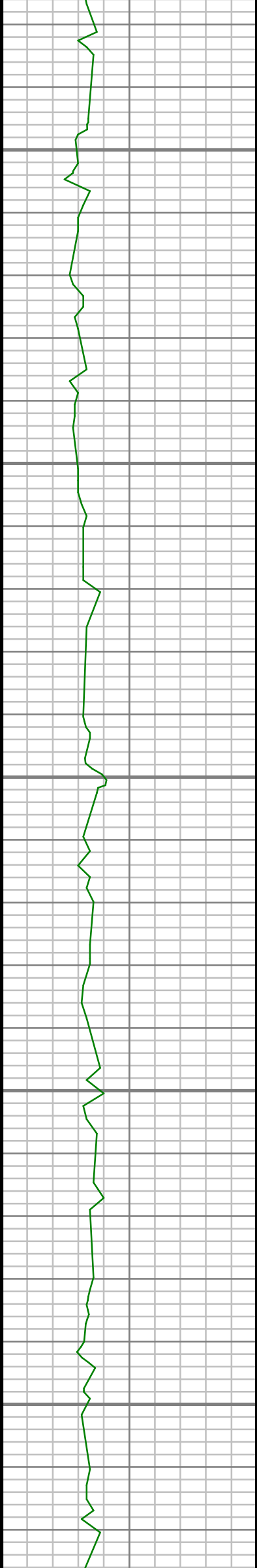
2000



S: 18 MD: 1839.00 ft  
Inc: 7.42 deg Az:  
179.87 deg TVD:  
1836.81 ft

S: 19 MD: 1930.00 ft  
Inc: 6.75 deg Az:  
177.82 deg TVD:  
1927.11 ft

S: 20 MD: 2023.00 ft



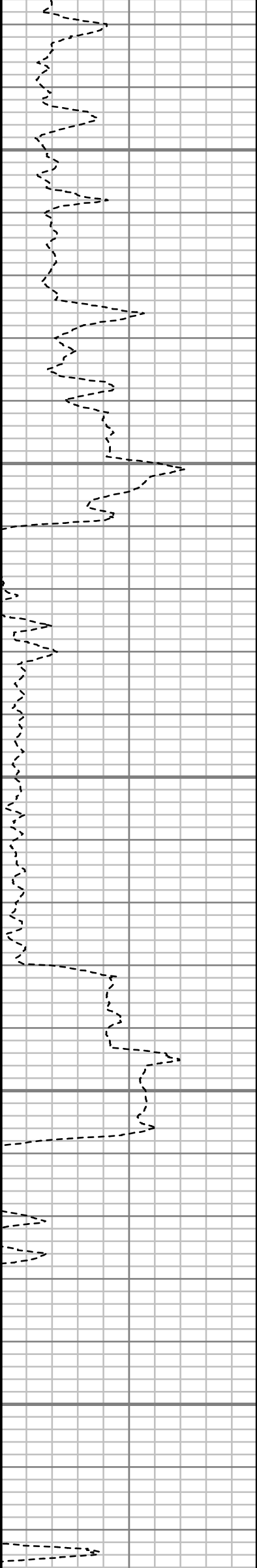
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2100

2150

2200

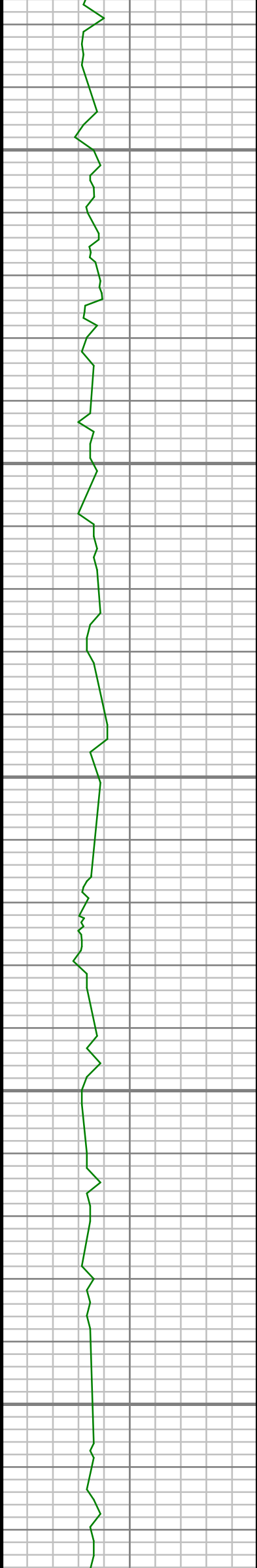
2250



Inc: 6.19 deg Az:  
180.73 deg TVD:  
2019.52 ft

S: 21 MD: 2114.00 ft  
Inc: 6.67 deg Az:  
187.47 deg TVD:  
2109.95 ft

S: 22 MD: 2206.00 ft  
Inc: 7.49 deg Az:  
193.15 deg TVD:  
2201.25 ft



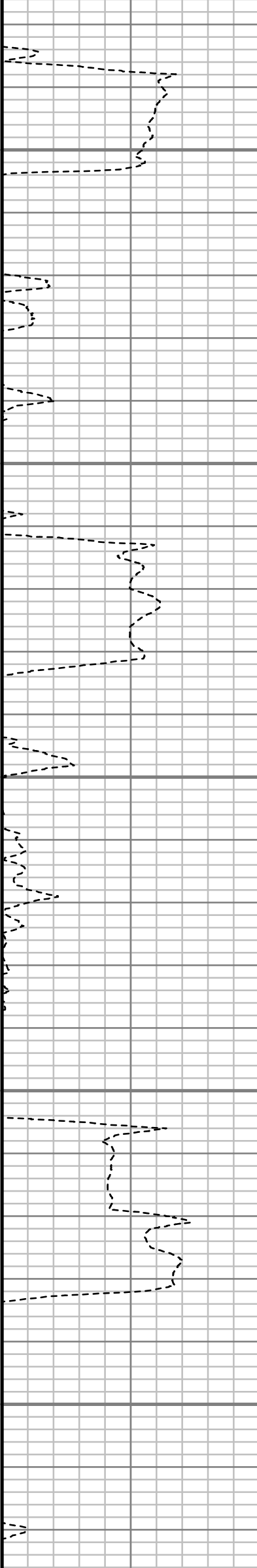
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2350

2400

2450

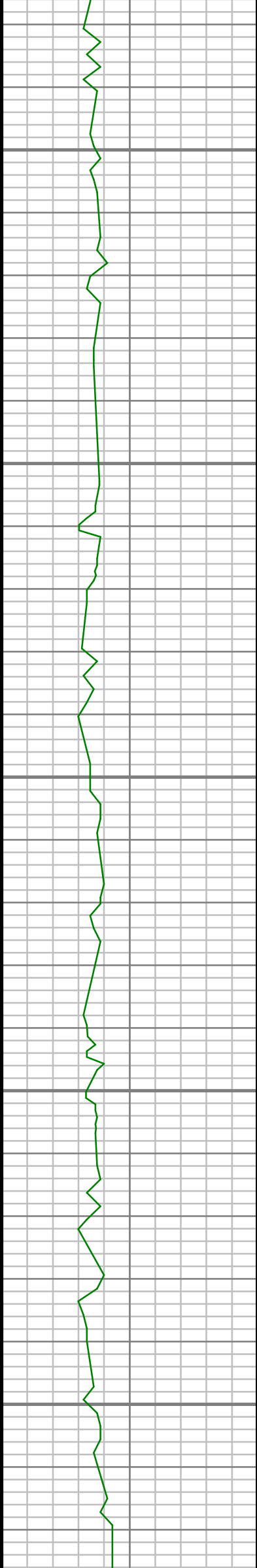
2500



S: 23 MD: 2298.00 ft  
Inc: 8.91 deg Az:  
192.49 deg TVD:  
2292.30 ft

S: 24 MD: 2389.00 ft  
Inc: 9.84 deg Az:  
187.82 deg TVD:  
2382.09 ft

S: 25 MD: 2480.00 ft  
Inc: 10.84 deg Az:  
184.79 deg TVD:  
2471.61 ft



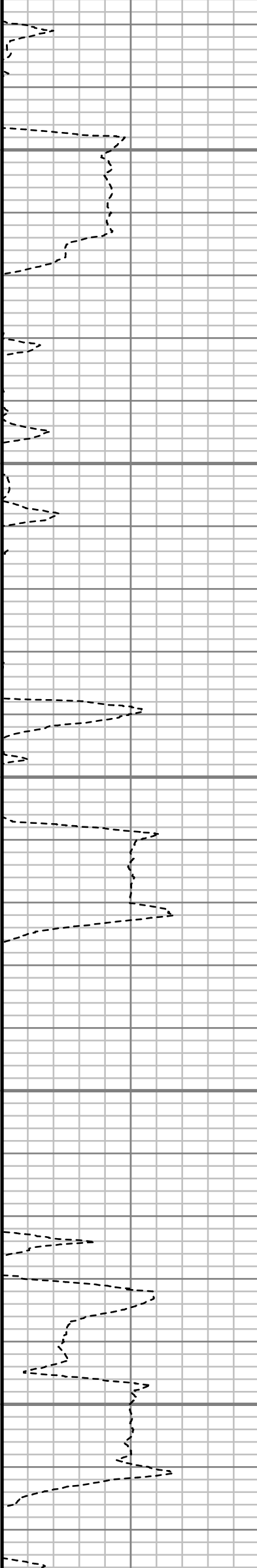
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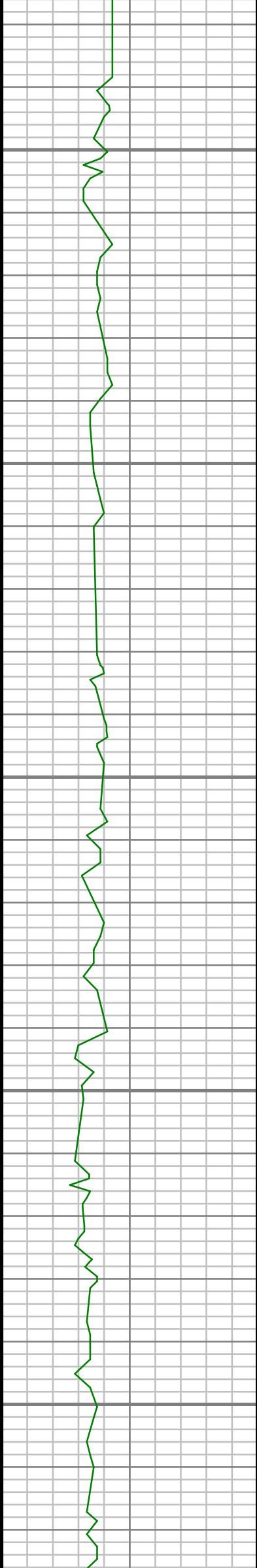
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S: 26 MD: 2572.00 ft  
Inc: 9.91 deg Az:  
183.76 deg TVD:  
2562.11 ft

S: 27 MD: 2756.00 ft  
Inc: 10.89 deg Az:  
177.43 deg TVD:  
2743.09 ft





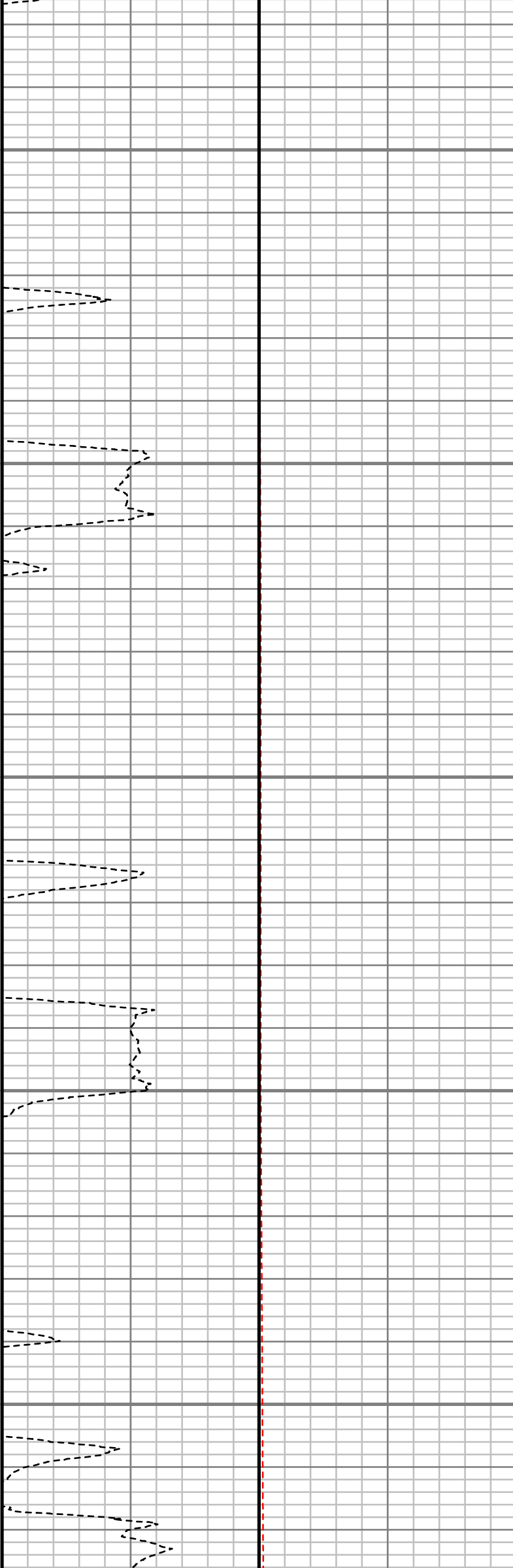
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2850

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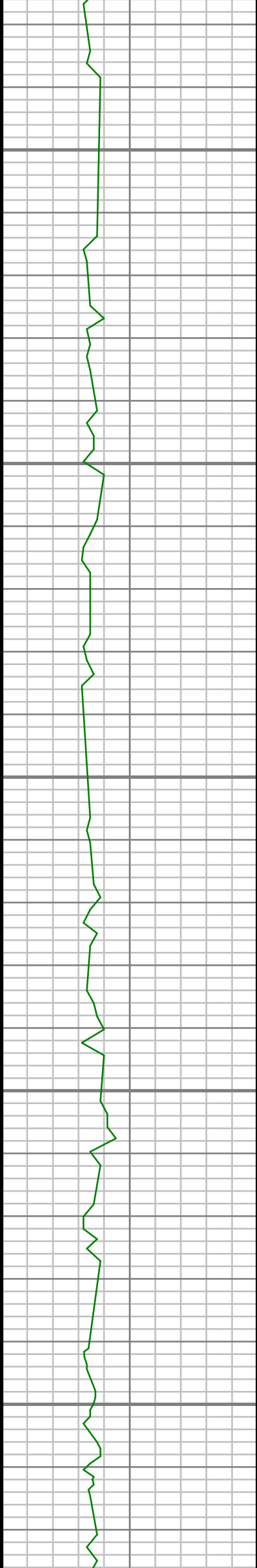
2950

3000



S: 28 MD: 2848.00 ft  
Inc: 10.18 deg Az:  
179.63 deg TVD:  
2833.54 ft

S: 29 MD: 2940.00 ft  
Inc: 10.35 deg Az:  
181.31 deg TVD:  
2924.07 ft



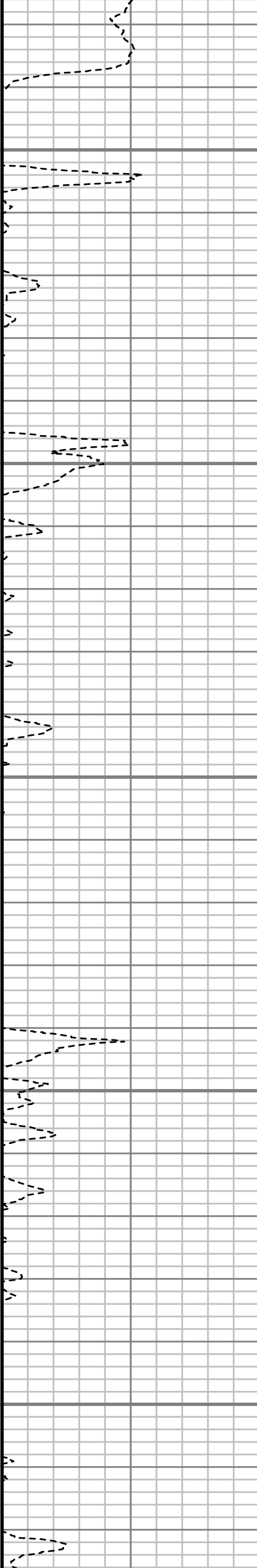
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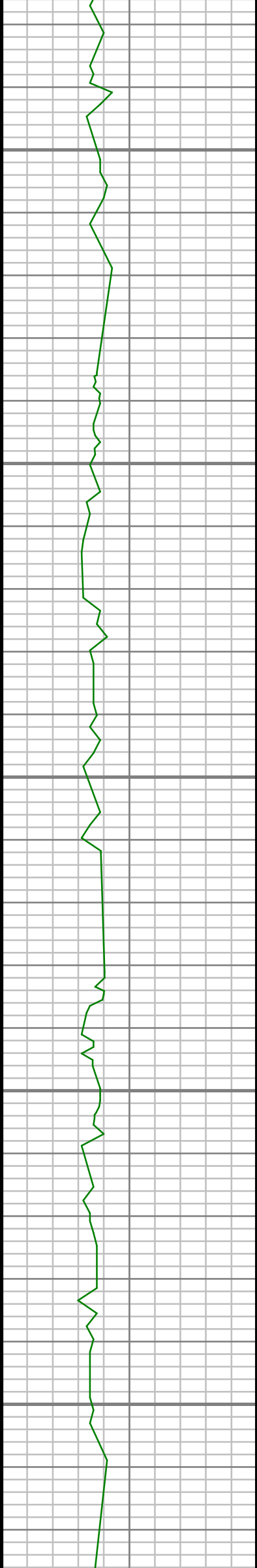
3250



S: 30 MD: 3032.00 ft  
Inc: 12.15 deg Az:  
186.77 deg TVD:  
3014.30 ft

S: 31 MD: 3124.00 ft  
Inc: 11.40 deg Az:  
189.89 deg TVD:  
3104.36 ft

S: 32 MD: 3215.00 ft  
Inc: 9.59 deg Az:  
193.58 deg TVD:  
3193.84 ft



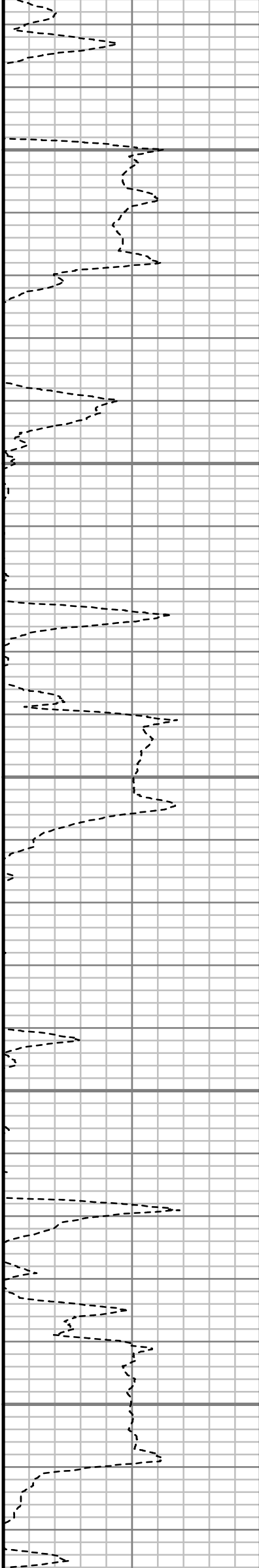
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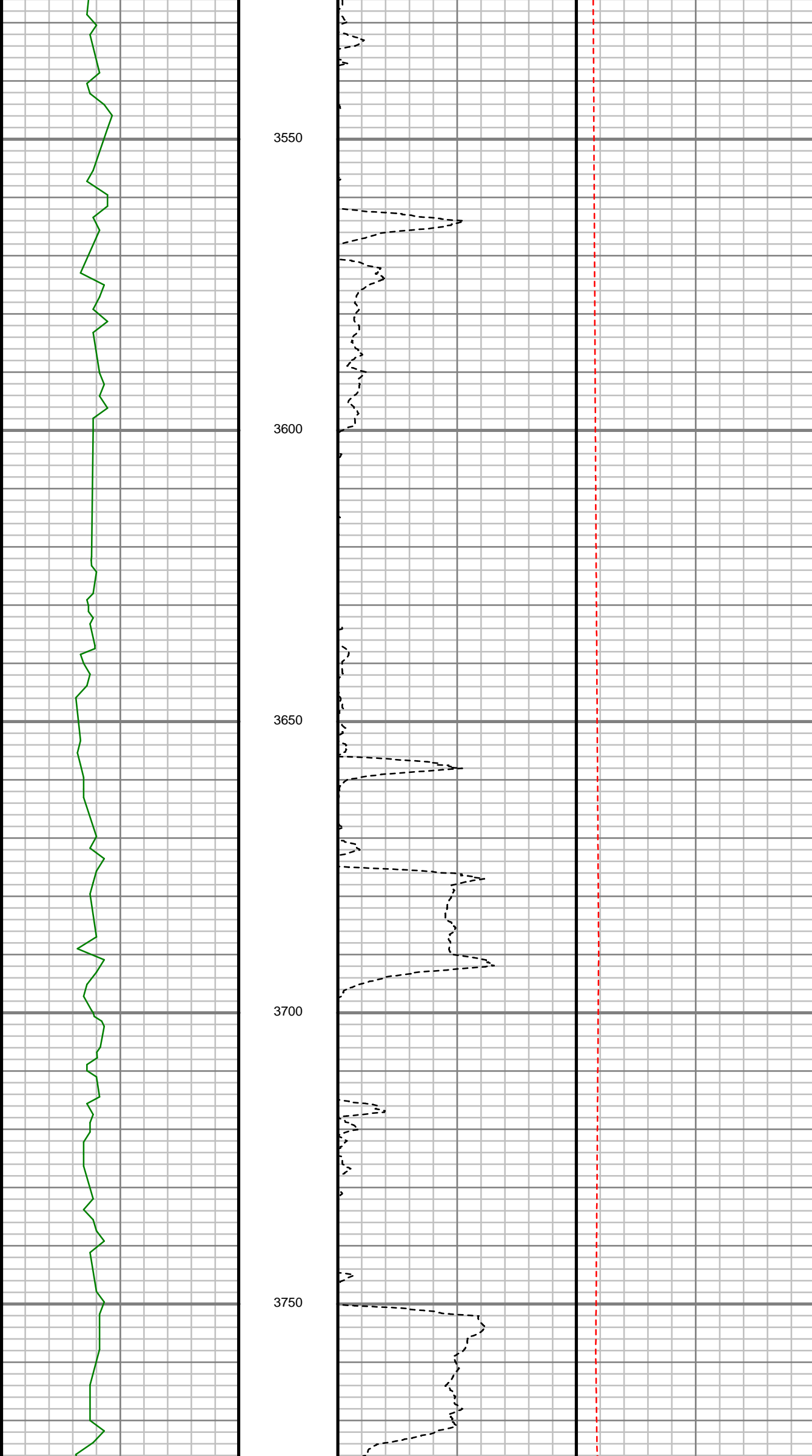
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3500



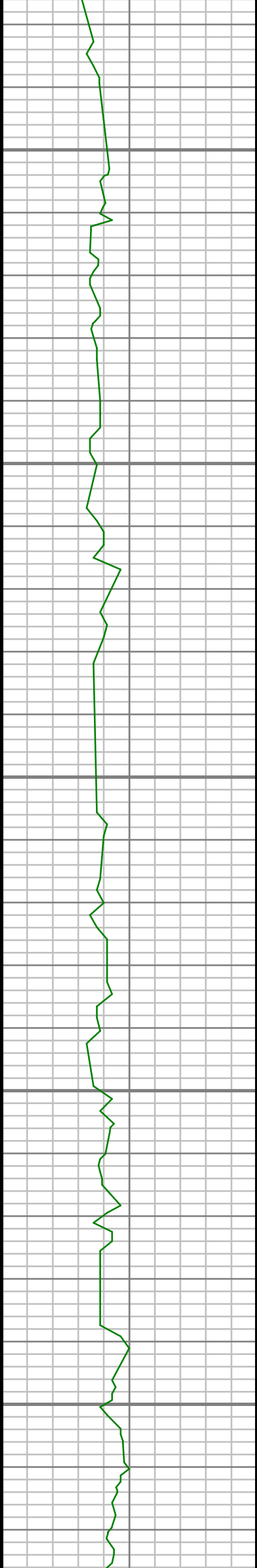
S: 33 MD: 3402.00 ft  
Inc: 9.69 deg Az:  
188.66 deg TVD:  
3378.20 ft

S: 34 MD: 3496.00 ft  
Inc: 11.03 deg Az:  
191.15 deg TVD:  
3470.67 ft



S: 35 MD: 3590.00 ft  
Inc: 9.97 deg Az:  
191.56 deg TVD:  
3563.09 ft

S: 36 MD: 3684.00 ft  
Inc: 8.96 deg Az:  
180.41 deg TVD:  
3655.82 ft



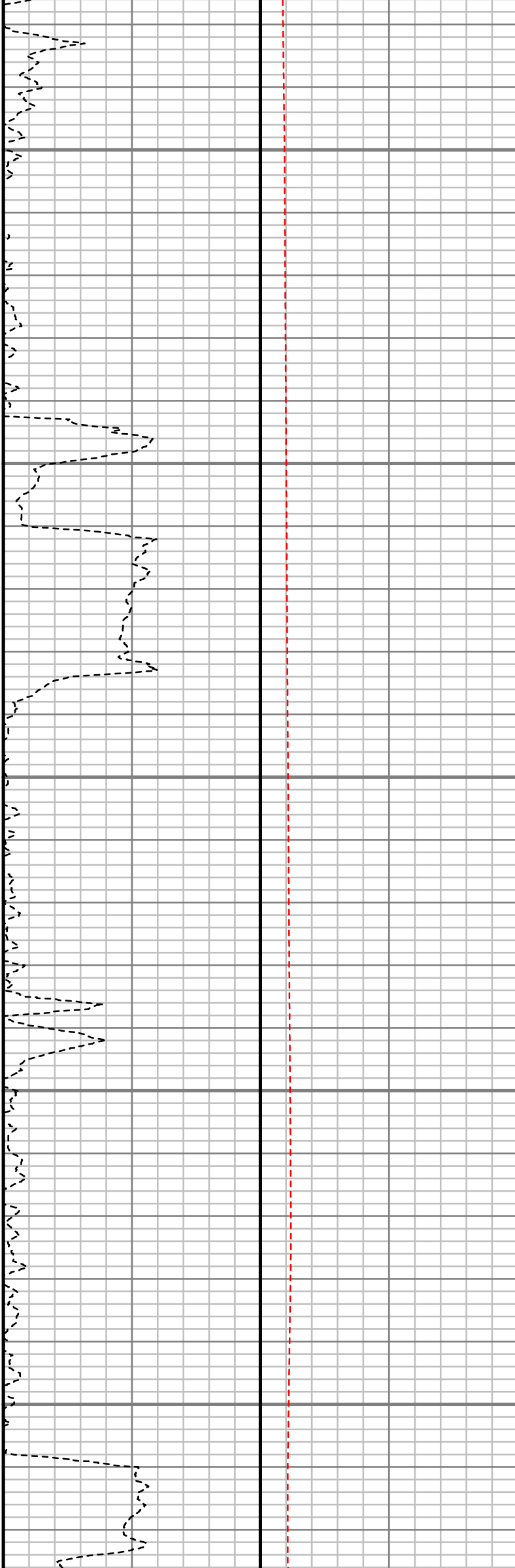
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3850

3900

3950

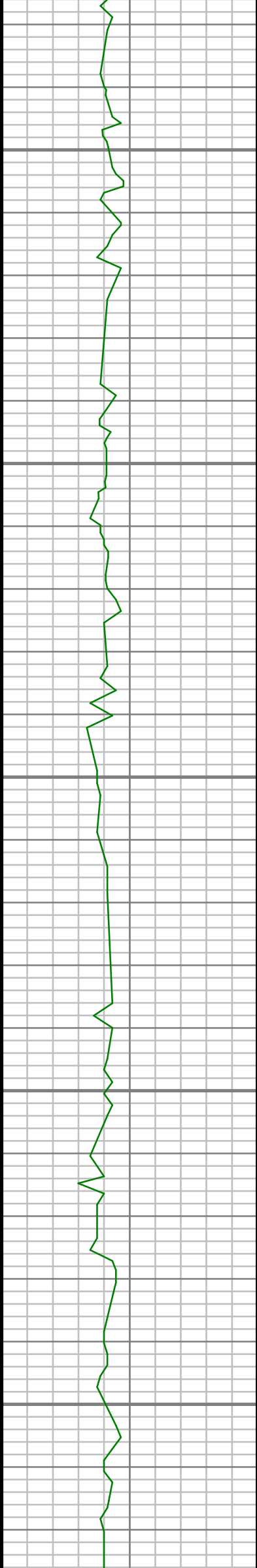
4000



S: 37 MD: 3779.00 ft  
Inc: 10.55 deg Az:  
188.75 deg TVD:  
3749.45 ft

S: 38 MD: 3873.00 ft  
Inc: 11.27 deg Az:  
184.87 deg TVD:  
3841.75 ft

S: 39 MD: 3967.00 ft  
Inc: 9.75 deg Az:  
185.83 deg TVD:  
3934.17 ft



4050

4100

4150

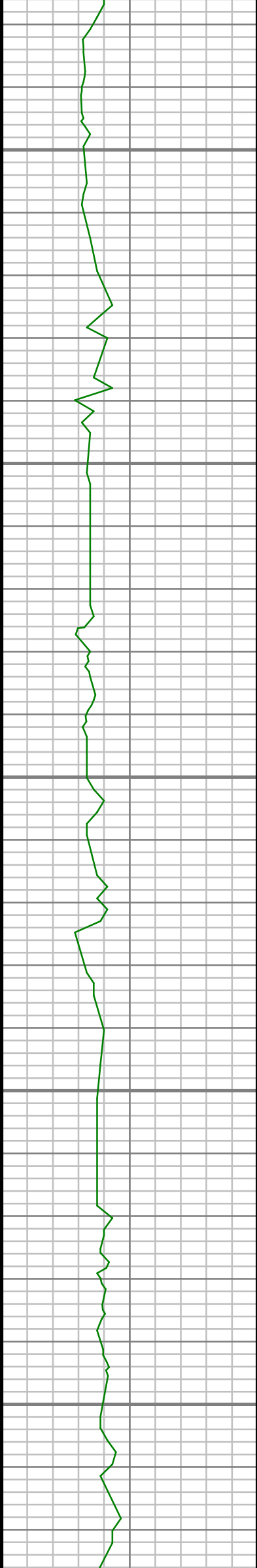
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4250



S: 40 MD: 4156.00 ft  
Inc: 13.17 deg Az:  
182.36 deg TVD:  
4119.37 ft

S: 41 MD: 4250.00 ft  
Inc: 12.74 deg Az:  
185.83 deg TVD:  
4210.98 ft



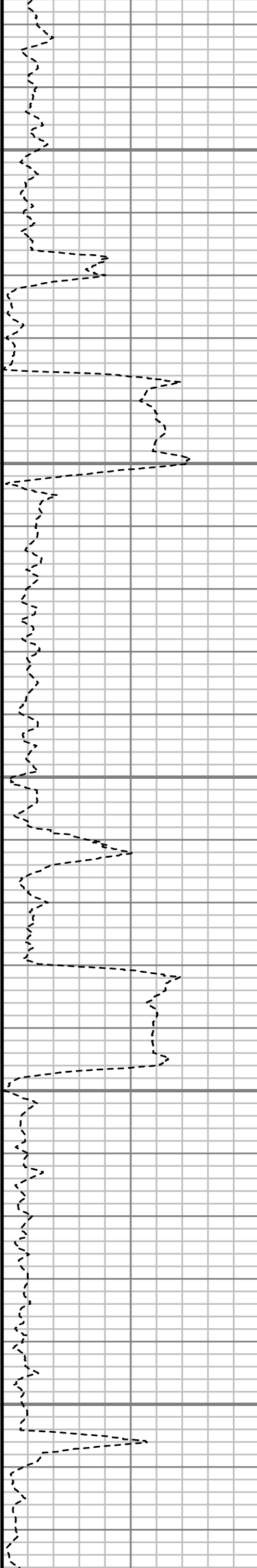
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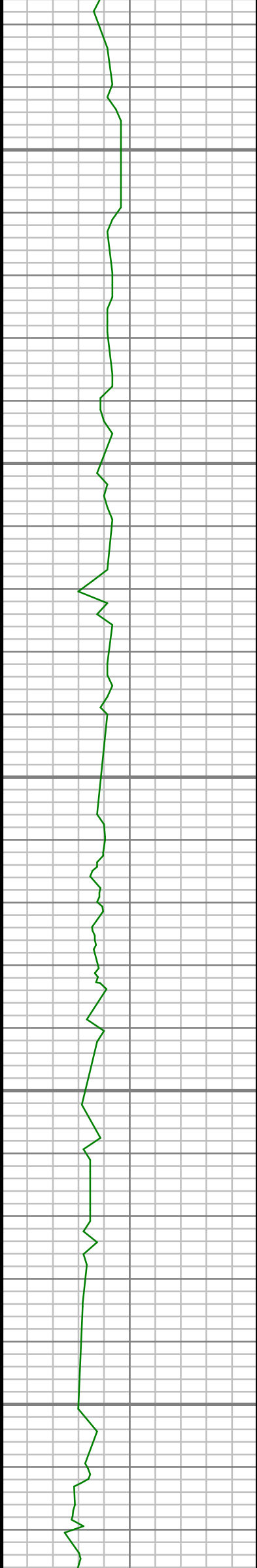
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4500



S: 42 MD: 4344.00 ft  
Inc: 12.40 deg Az:  
179.48 deg TVD:  
4302.73 ft

S: 43 MD: 4439.00 ft  
Inc: 14.18 deg Az:  
174.72 deg TVD:  
4395.19 ft



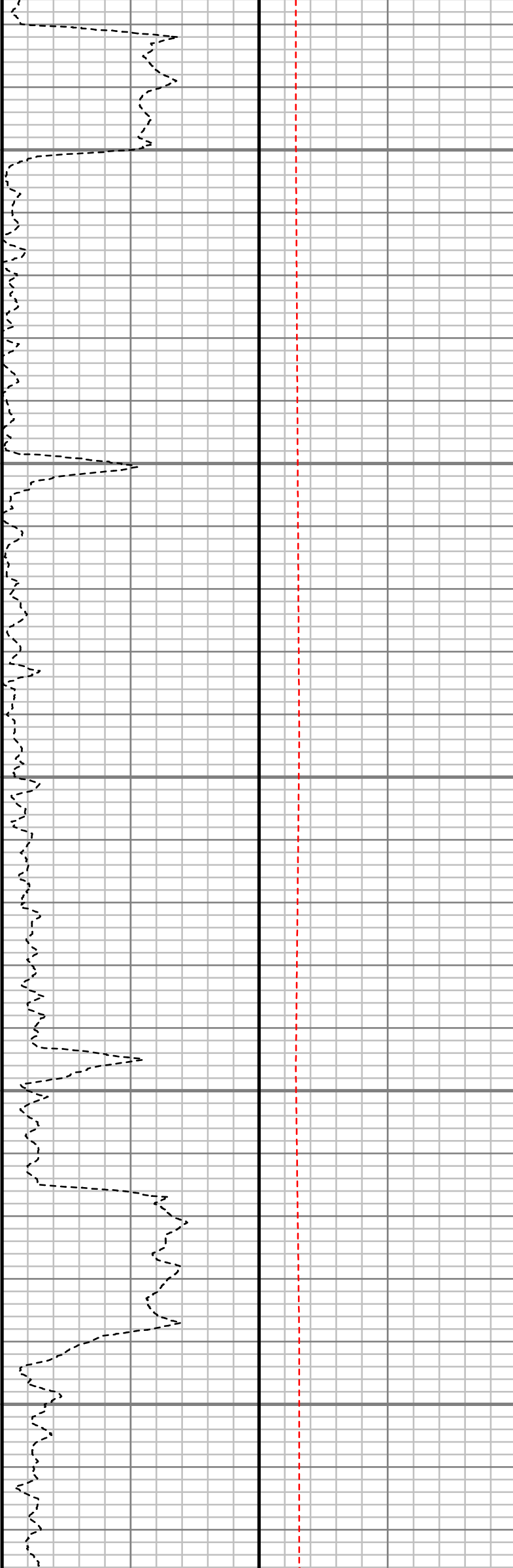
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4600

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4700

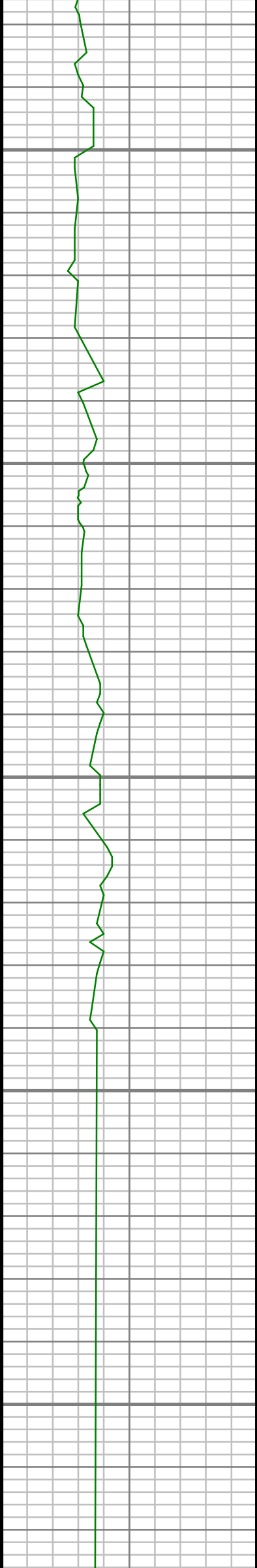
4750



S: 44 MD: 4533.00 ft  
Inc: 13.29 deg Az:  
181.45 deg TVD:  
4486.51 ft

S: 45 MD: 4627.00 ft  
Inc: 10.87 deg Az:  
188.40 deg TVD:  
4578.42 ft





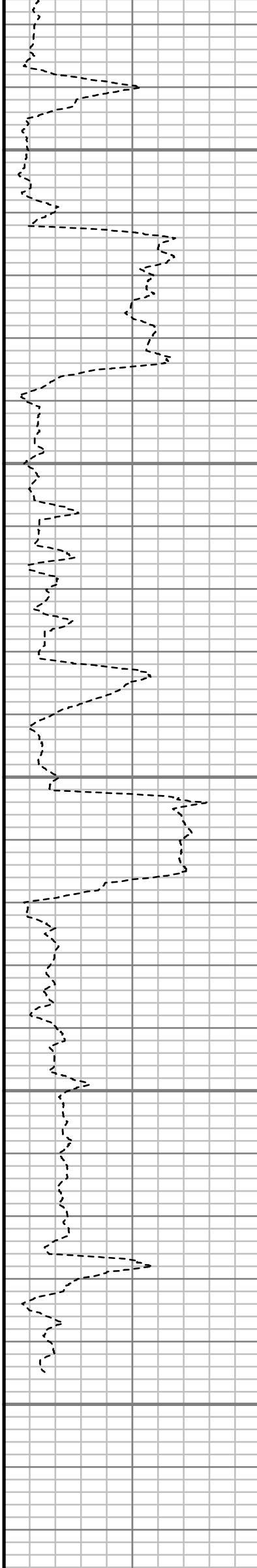
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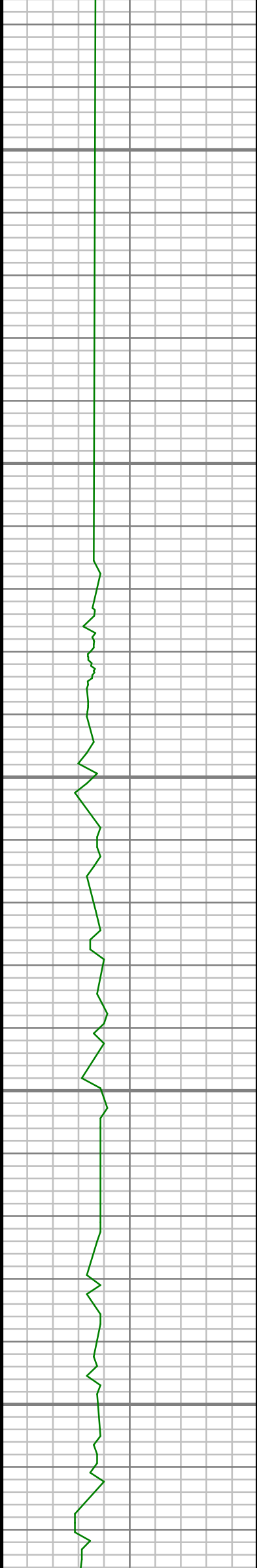
4950

5000



S: 46 MD: 4816.00 ft  
Inc: 12.33 deg Az:  
179.11 deg TVD:  
4763.57 ft

S: 47 MD: 4910.00 ft  
Inc: 14.48 deg Az:  
179.13 deg TVD:  
4855.00 ft



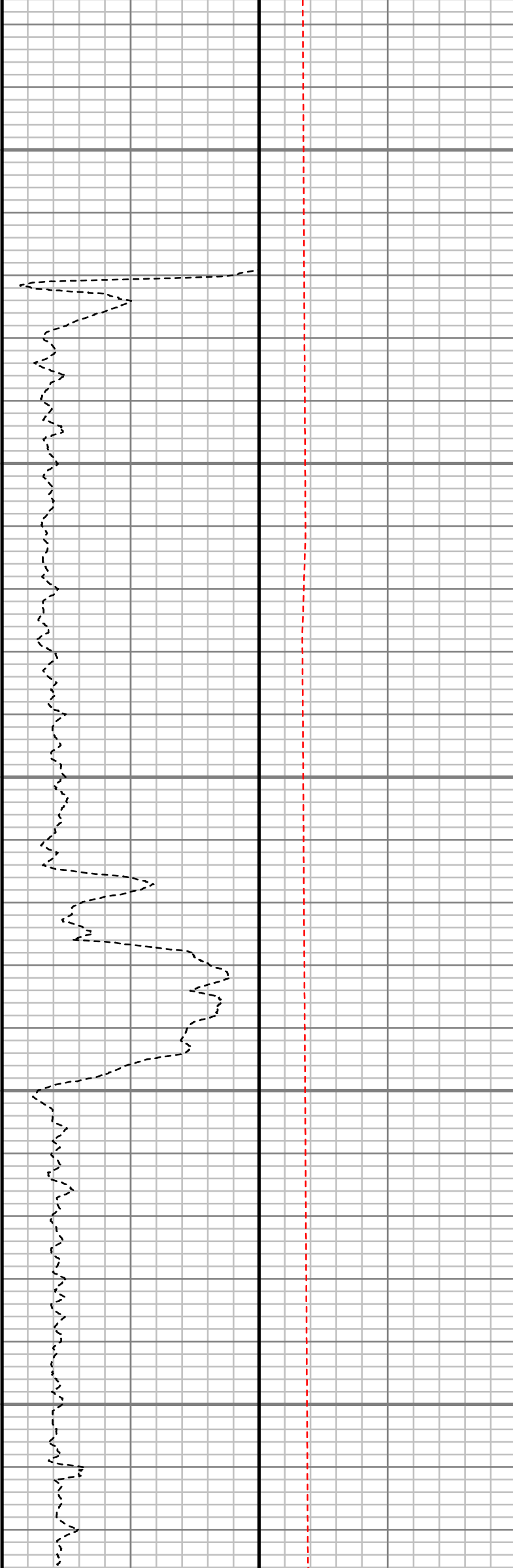
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5100

5150

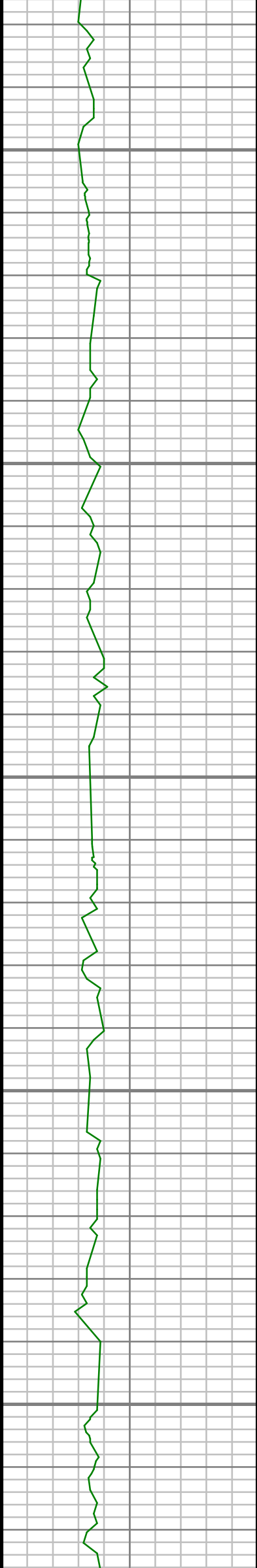
5200

5250



S: 48 MD: 5099.00 ft  
Inc: 11.05 deg Az:  
181.40 deg TVD:  
5039.31 ft

S: 49 MD: 5194.00 ft  
Inc: 10.41 deg Az:  
185.59 deg TVD:  
5132.65 ft



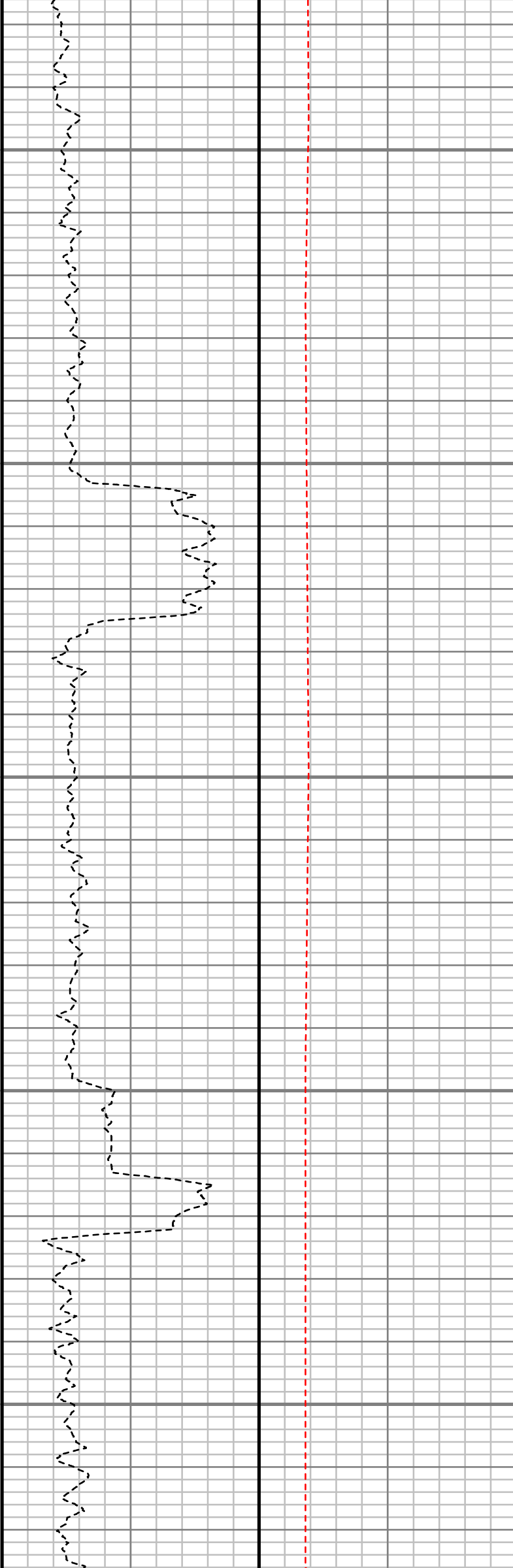
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5350

5400

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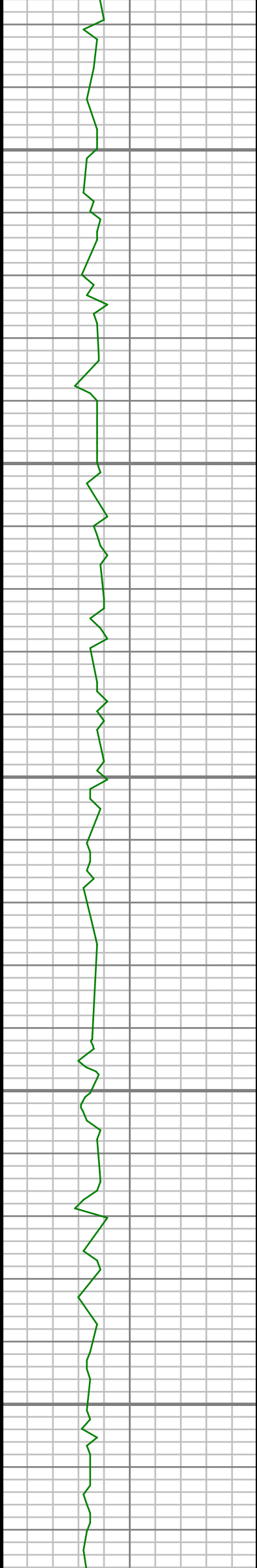
5500



S: 50 MD: 5288.00 ft  
Inc: 9.47 deg Az:  
185.08 deg TVD:  
5225.23 ft

S: 51 MD: 5382.00 ft  
Inc: 10.41 deg Az:  
182.04 deg TVD:  
5317.82 ft

S: 52 MD: 5477.00 ft  
Inc: 9.80 deg Az:  
184.96 deg TVD:  
5411.35 ft



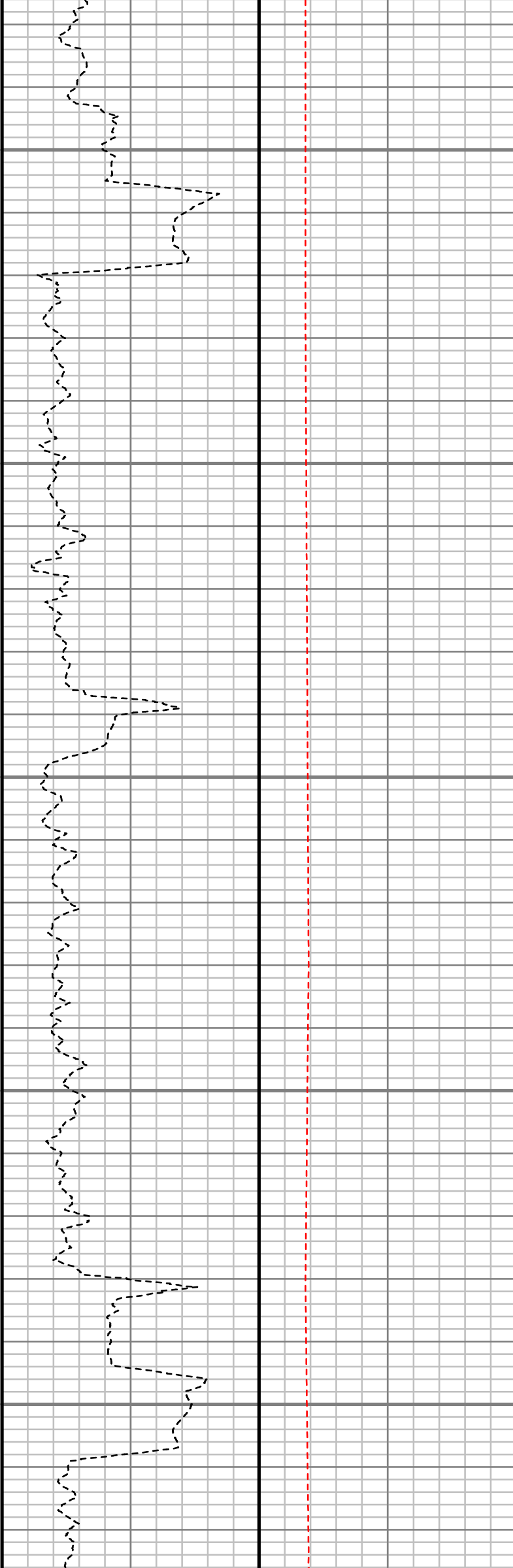
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5600

5650

5700

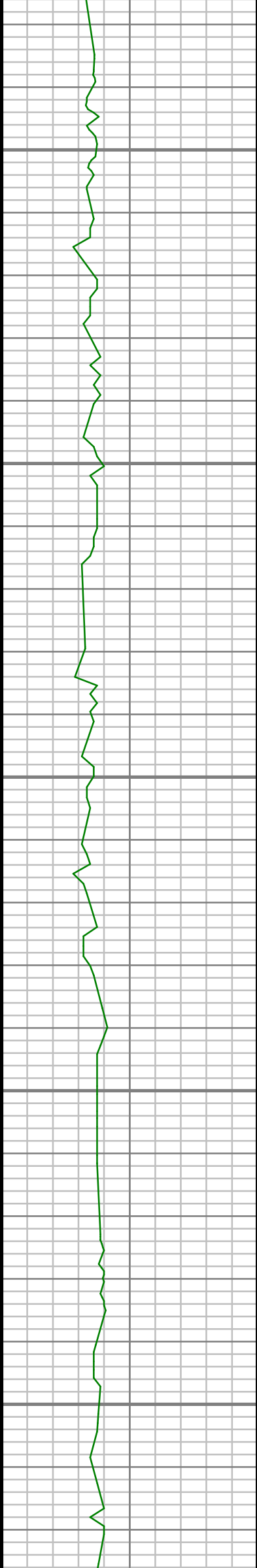
5750



S: 53 MD: 5571.00 ft  
Inc: 10.06 deg Az:  
190.60 deg TVD:  
5503.94 ft

S: 54 MD: 5666.00 ft  
Inc: 8.81 deg Az:  
188.54 deg TVD:  
5597.66 ft

S: 55 MD: 5760.00 ft  
Inc: 9.36 deg Az:  
189.78 deg TVD:  
5690.48 ft



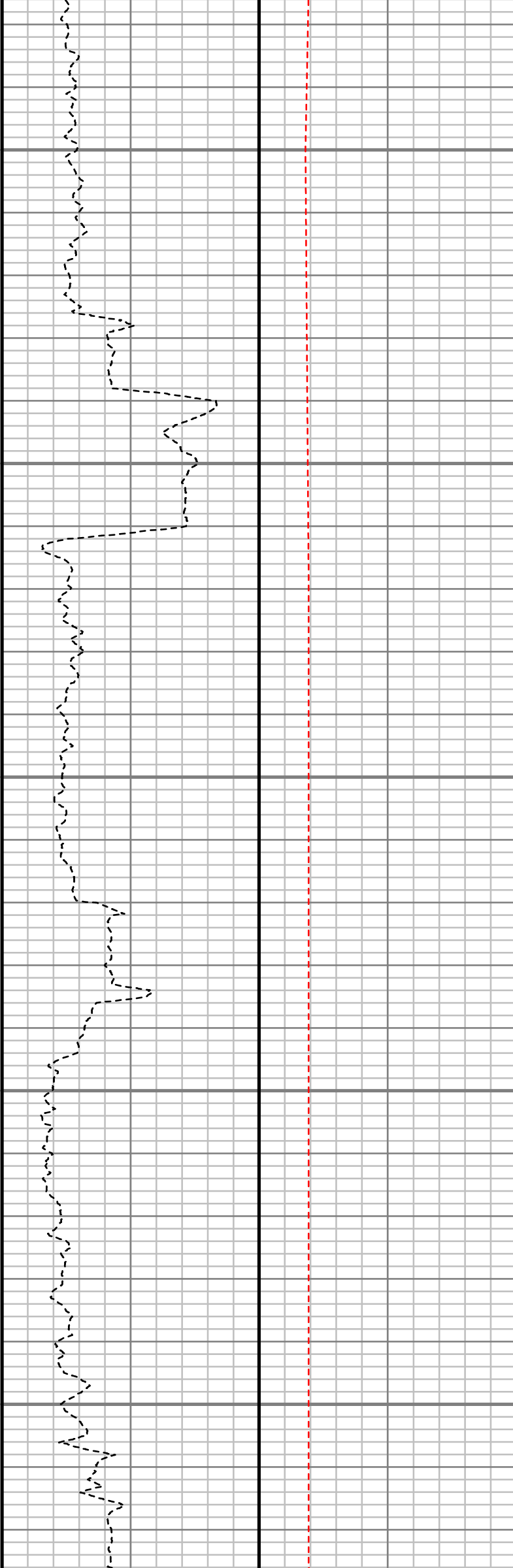
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5900

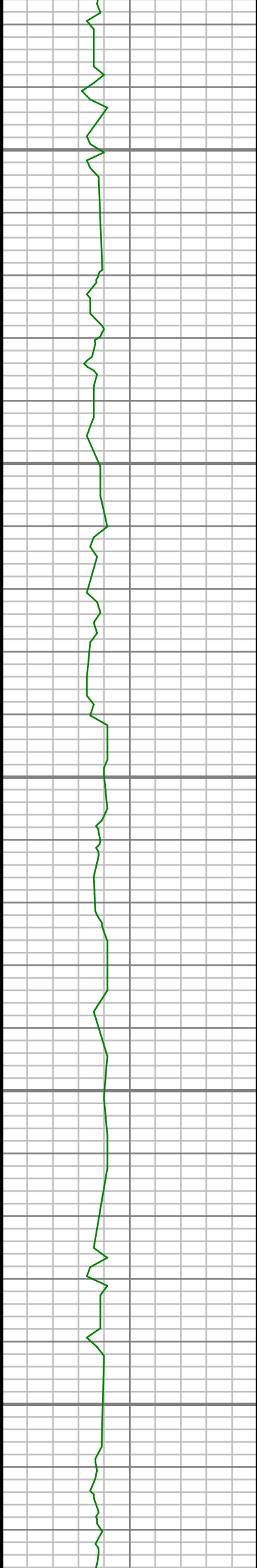
5950

6000



S: 56 MD: 5854.00 ft  
Inc: 11.38 deg Az:  
188.83 deg TVD:  
5782.94 ft

S: 57 MD: 5948.00 ft  
Inc: 10.03 deg Az:  
184.89 deg TVD:  
5875.30 ft



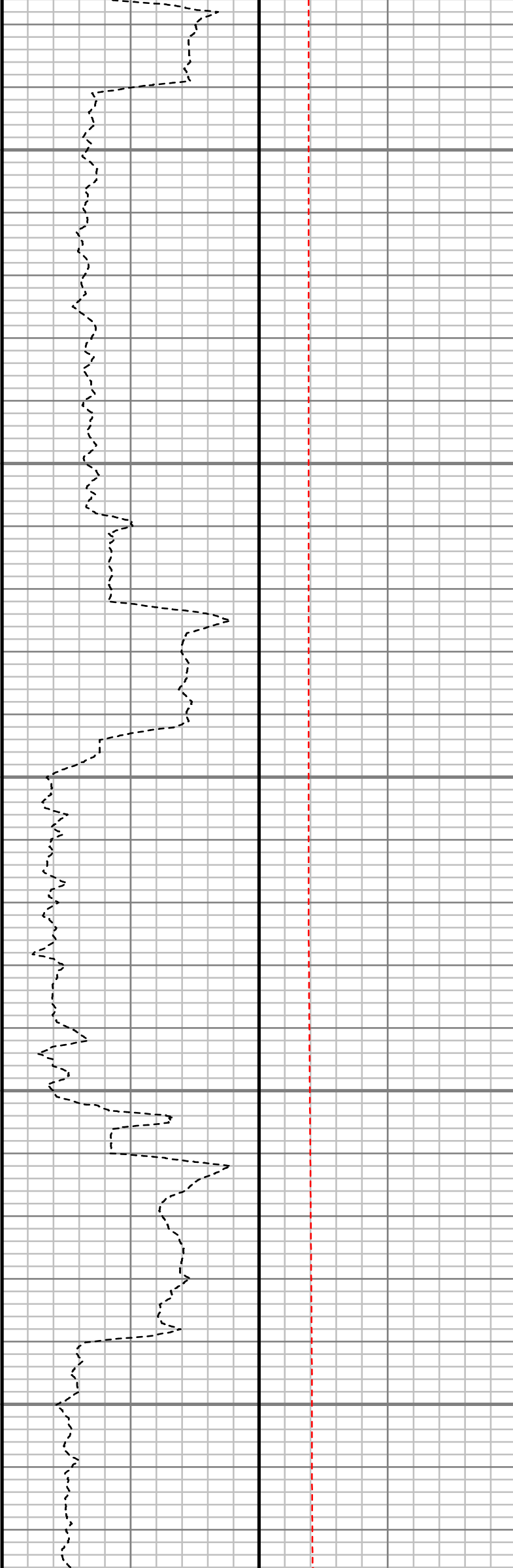
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6100

6150

6200

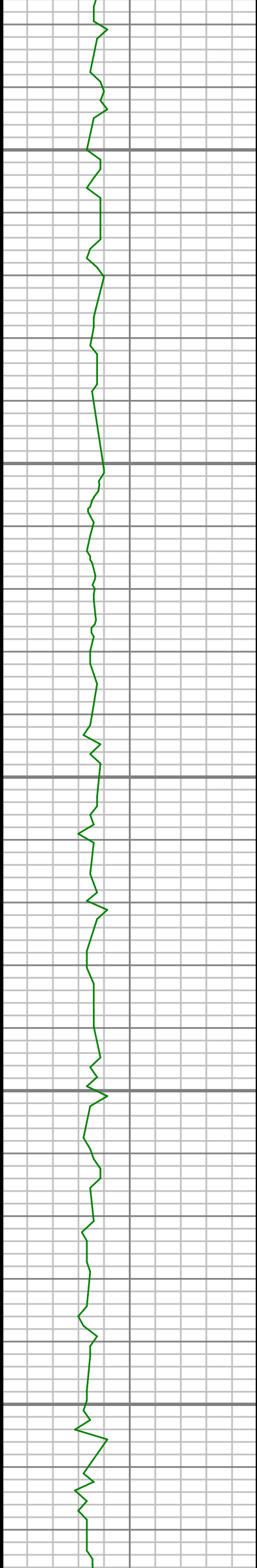
6250



S: 58 MD: 6042.00 ft  
Inc: 9.35 deg Az:  
183.59 deg TVD:  
5967.96 ft

S: 59 MD: 6137.00 ft  
Inc: 10.17 deg Az:  
187.53 deg TVD:  
6061.59 ft

S: 60 MD: 6231.00 ft  
Inc: 10.06 deg Az:  
191.85 deg TVD:  
6154.13 ft



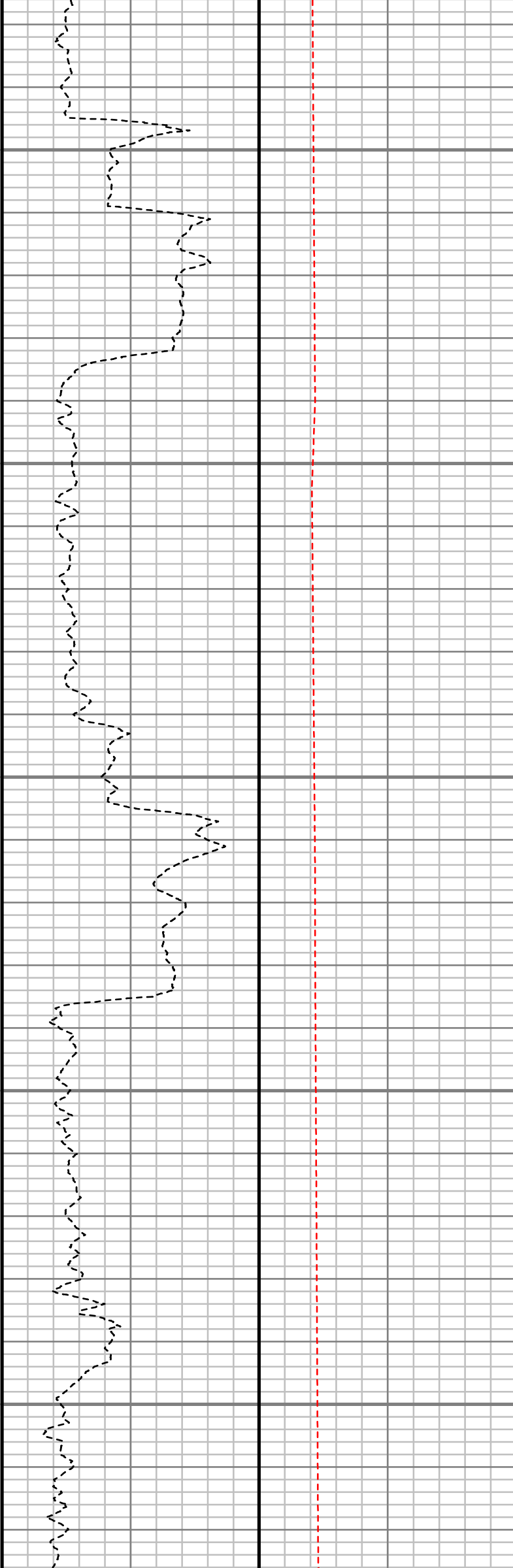
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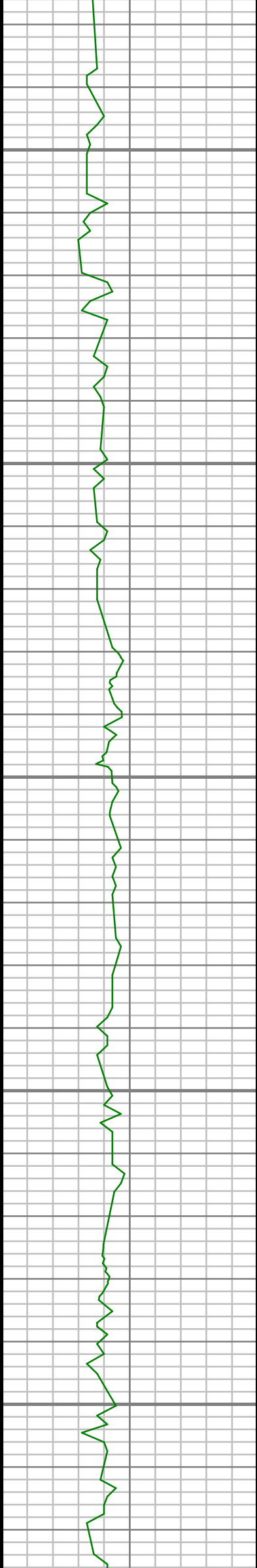
6500



S: 61 MD: 6326.00 ft  
Inc: 11.44 deg Az:  
188.19 deg TVD:  
6247.46 ft

S: 62 MD: 6420.00 ft  
Inc: 11.08 deg Az:  
189.06 deg TVD:  
6339.65 ft

S: 63 MD: 6514.00 ft  
Inc: 9.50 deg Az:  
186.03 deg TVD:  
6432.13 ft



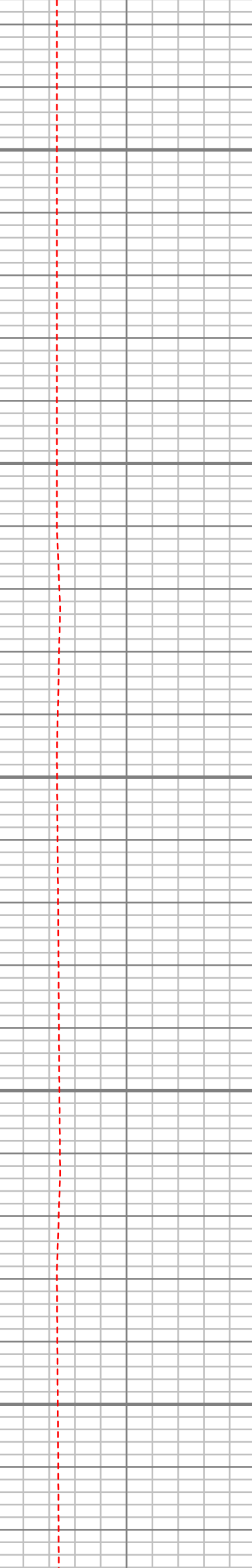
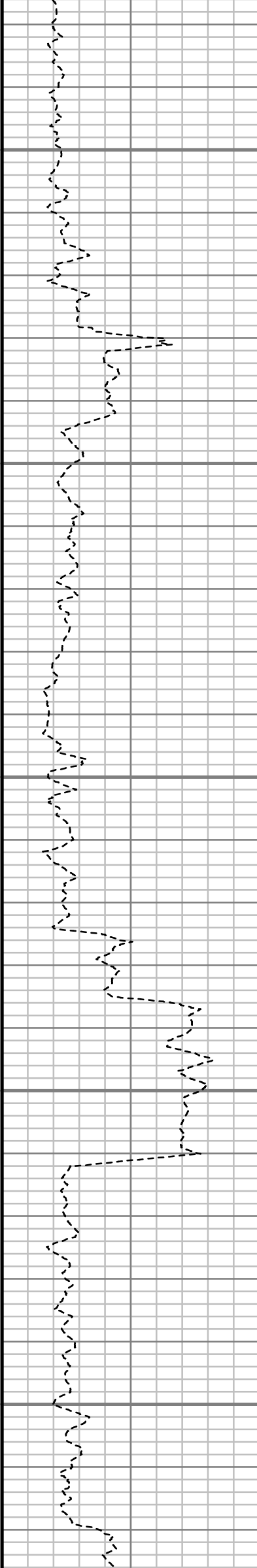
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6600

6650

6700

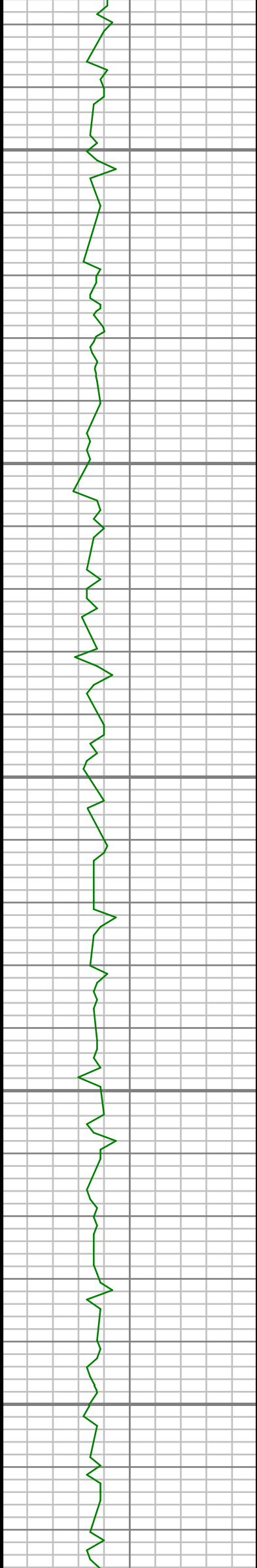
6750



S: 64 MD: 6609.00 ft  
Inc: 6.97 deg Az:  
179.94 deg TVD:  
6526.15 ft

S: 65 MD: 6703.00 ft  
Inc: 7.10 deg Az:  
179.94 deg TVD:  
6619.44 ft





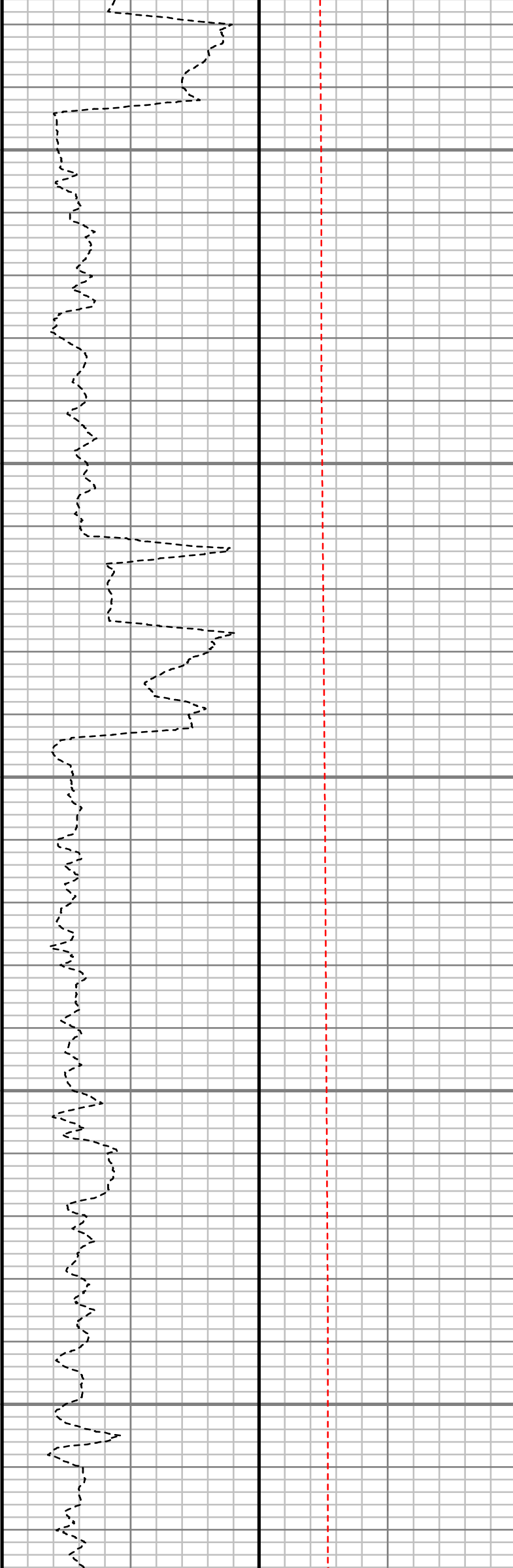
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6850

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6950

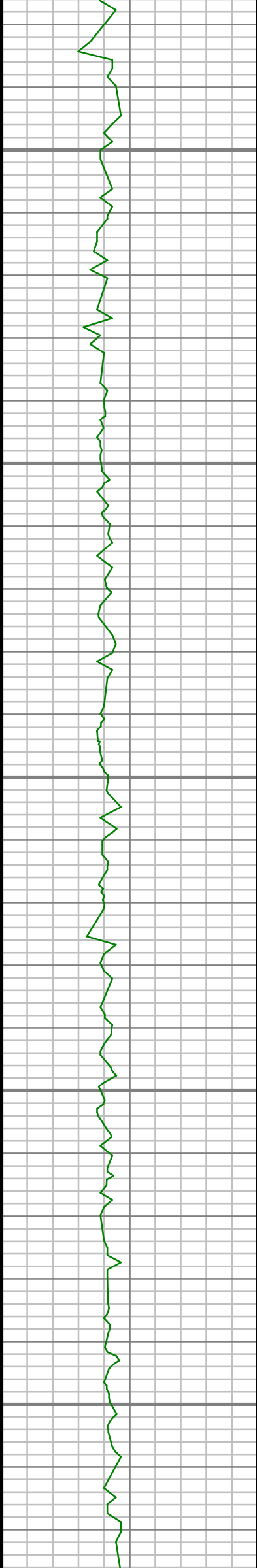
7000



S: 66 MD: 6798.00 ft  
Inc: 6.10 deg Az:  
187.84 deg TVD:  
6713.81 ft

S: 67 MD: 6892.00 ft  
Inc: 4.16 deg Az:  
200.94 deg TVD:  
6807.43 ft

S: 68 MD: 6986.00 ft  
Inc: 2.99 deg Az:  
196.73 deg TVD:  
6901.25 ft



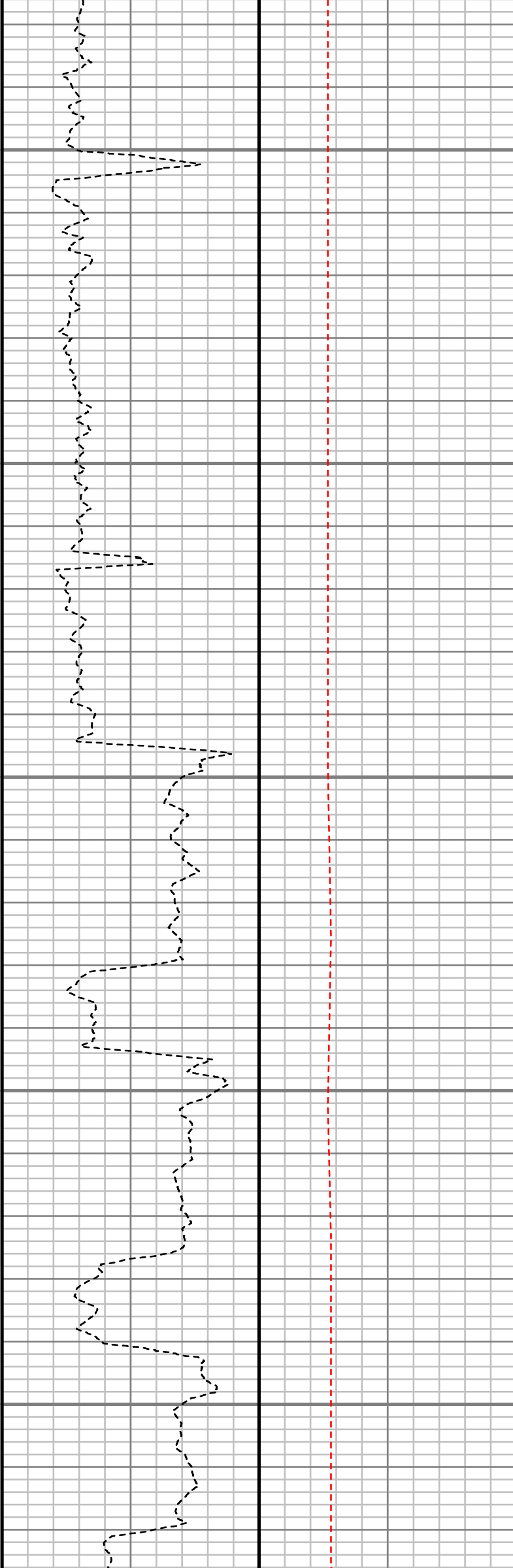
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7100

7150

7200

7250



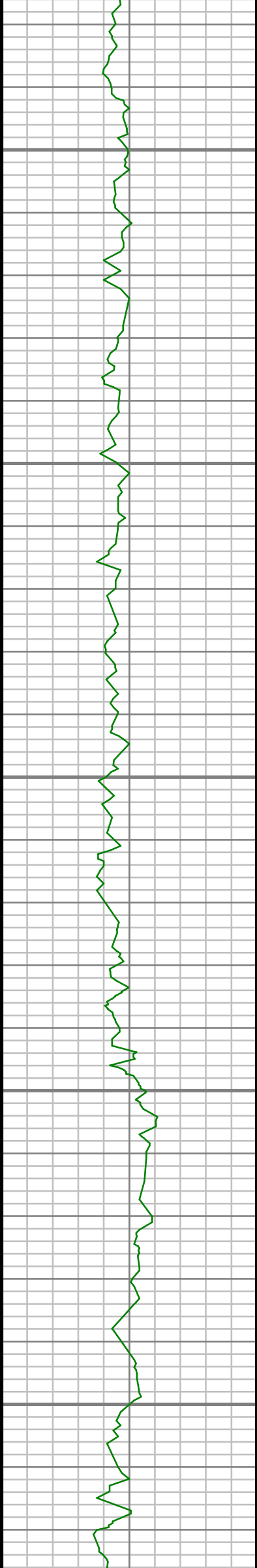
S: 69 MD: 7081.00 ft  
Inc: 1.57 deg Az:  
178.16 deg TVD:  
6996.17 ft

S: 70 MD: 7128.00 ft  
Inc: 1.18 deg Az:  
176.80 deg TVD:  
7043.16 ft

S: 71 MD: 7175.00 ft  
Inc: 2.99 deg Az: 7.63  
deg TVD: 7090.14 ft

S: 72 MD: 7222.00 ft  
Inc: 7.38 deg Az: 0.36  
deg TVD: 7136.94 ft

S: 73 MD: 7269.00 ft  
Inc: 10.92 deg Az:  
358.45 deg TVD:



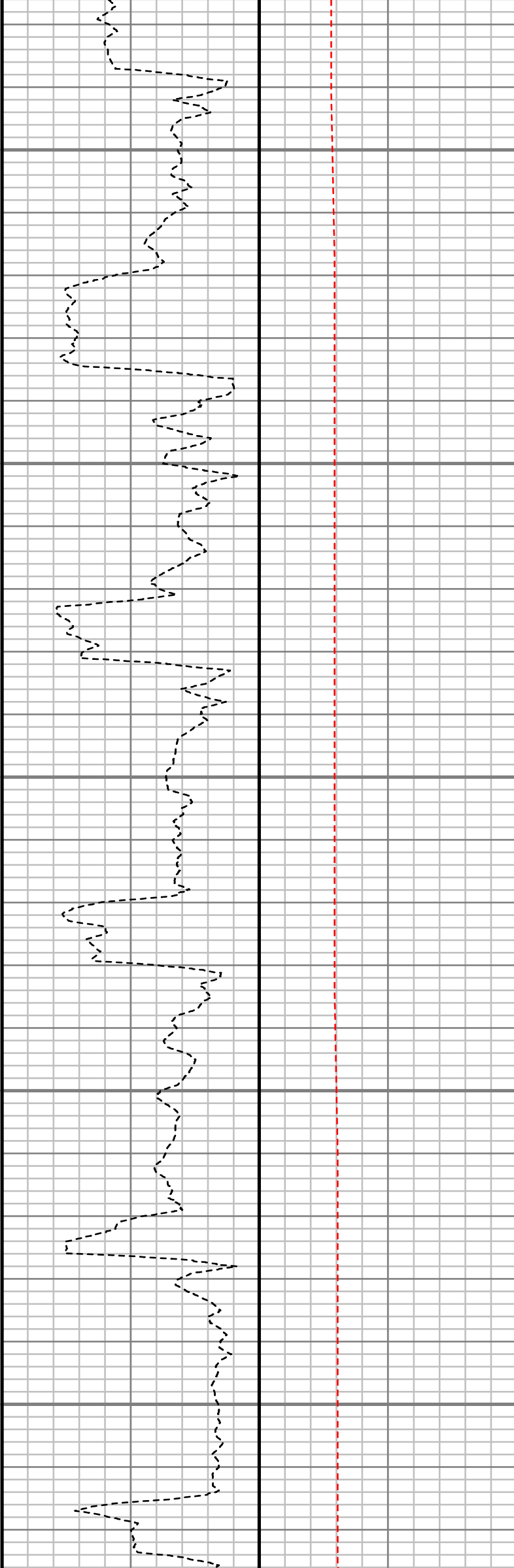
7300

7350

7400

7450

7500



7183.34 ft

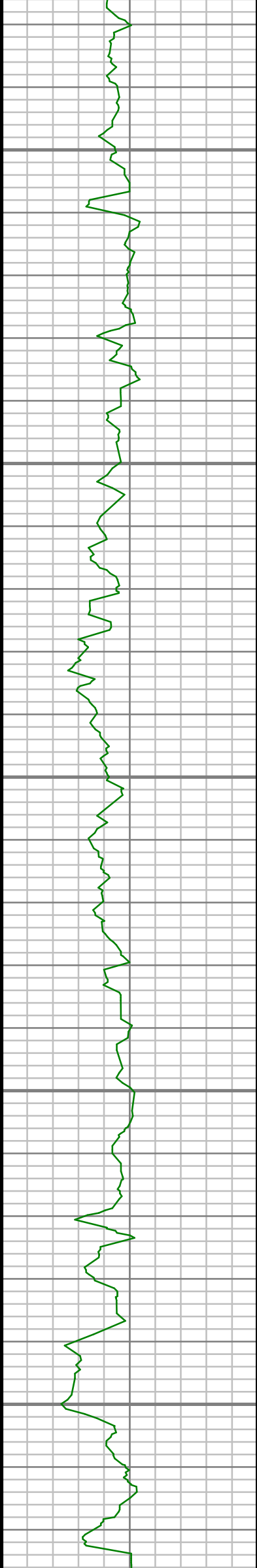
S: 74 MD: 7316.00 ft  
Inc: 14.25 deg Az:  
359.63 deg TVD:  
7229.20 ft

S: 75 MD: 7364.00 ft  
Inc: 16.56 deg Az:  
356.03 deg TVD:  
7275.47 ft

S: 76 MD: 7411.00 ft  
Inc: 19.06 deg Az: 1.32  
deg TVD: 7320.22 ft

S: 77 MD: 7458.00 ft  
Inc: 22.47 deg Az: 5.77  
deg TVD: 7364.16 ft

S: 78 MD: 7505.00 ft  
Inc: 25.12 deg Az:  
359.43 deg TVD:  
7407.17 ft



7550

7600

7650

7700

7750



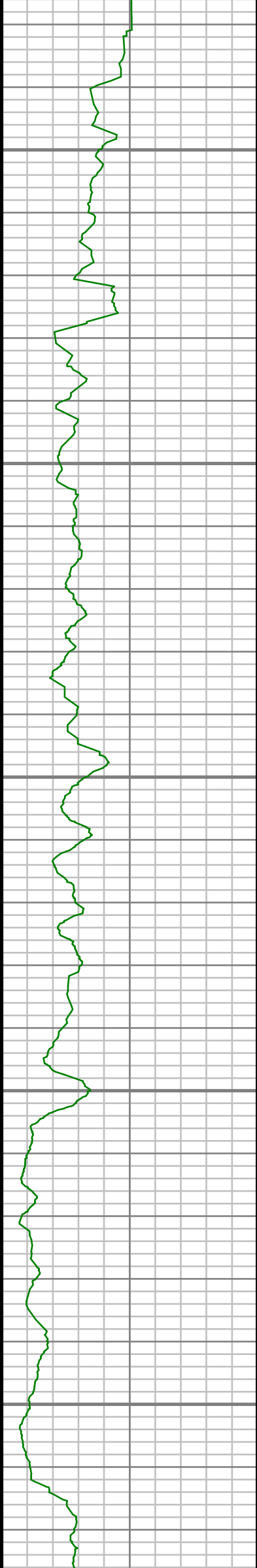
S: 79 MD: 7553.00 ft  
Inc: 29.23 deg Az:  
354.24 deg TVD:  
7449.87 ft

S: 80 MD: 7600.00 ft  
Inc: 32.60 deg Az:  
350.56 deg TVD:  
7490.19 ft

S: 81 MD: 7647.00 ft  
Inc: 39.11 deg Az:  
350.14 deg TVD:  
7528.26 ft

S: 82 MD: 7694.00 ft  
Inc: 43.69 deg Az:  
348.68 deg TVD:  
7563.51 ft

S: 83 MD: 7741.00 ft  
Inc: 49.85 deg Az:  
350.31 deg TVD:  
7595.69 ft



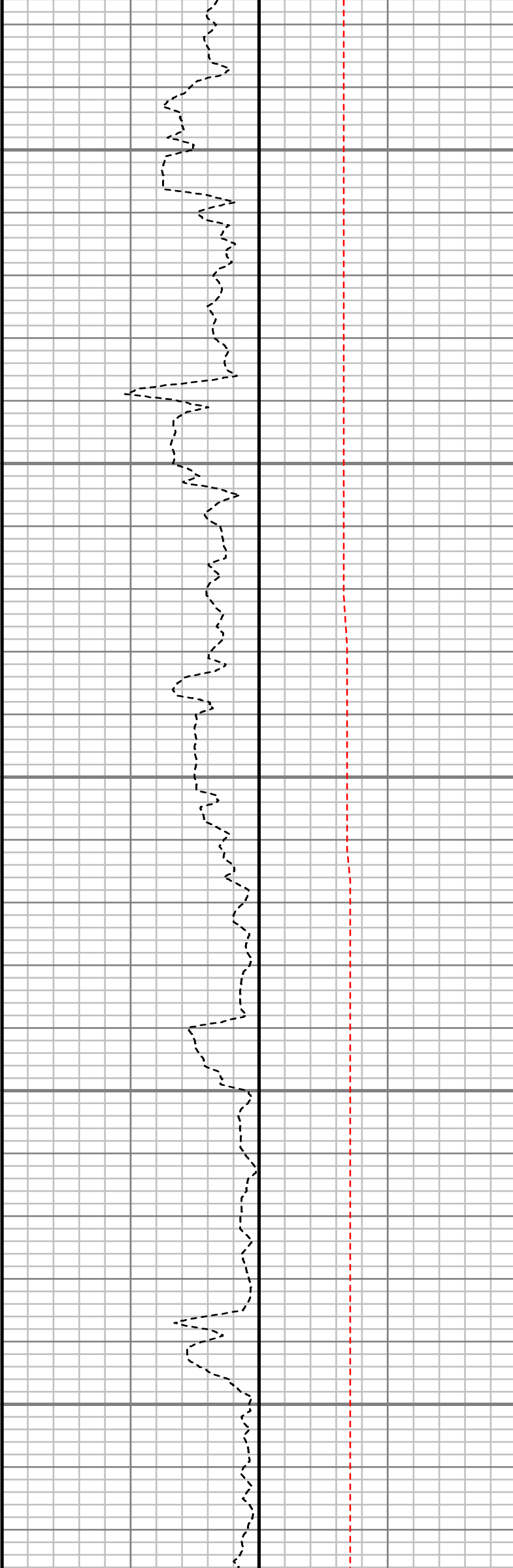
7800

7850

7900

7950

8000



S: 84 MD: 7788.00 ft  
Inc: 53.56 deg Az:  
353.85 deg TVD:  
7624.81 ft

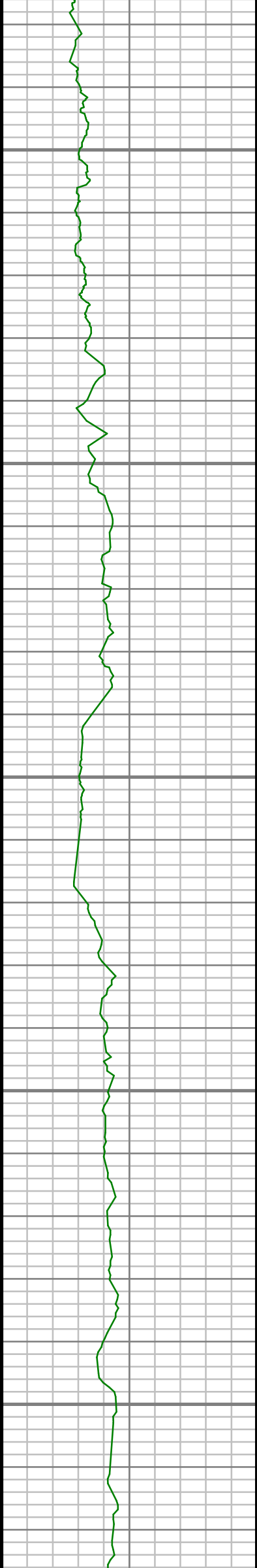
S: 85 MD: 7836.00 ft  
Inc: 57.69 deg Az:  
356.55 deg TVD:  
7651.91 ft

S: 86 MD: 7883.00 ft  
Inc: 61.52 deg Az:  
358.43 deg TVD:  
7675.69 ft

S: 87 MD: 7930.00 ft  
Inc: 65.54 deg Az: 0.25  
deg TVD: 7696.64 ft

S: 88 MD: 7977.00 ft  
Inc: 70.78 deg Az: 1.01  
deg TVD: 7714.12 ft

S: 89 MD: 8024.00 ft



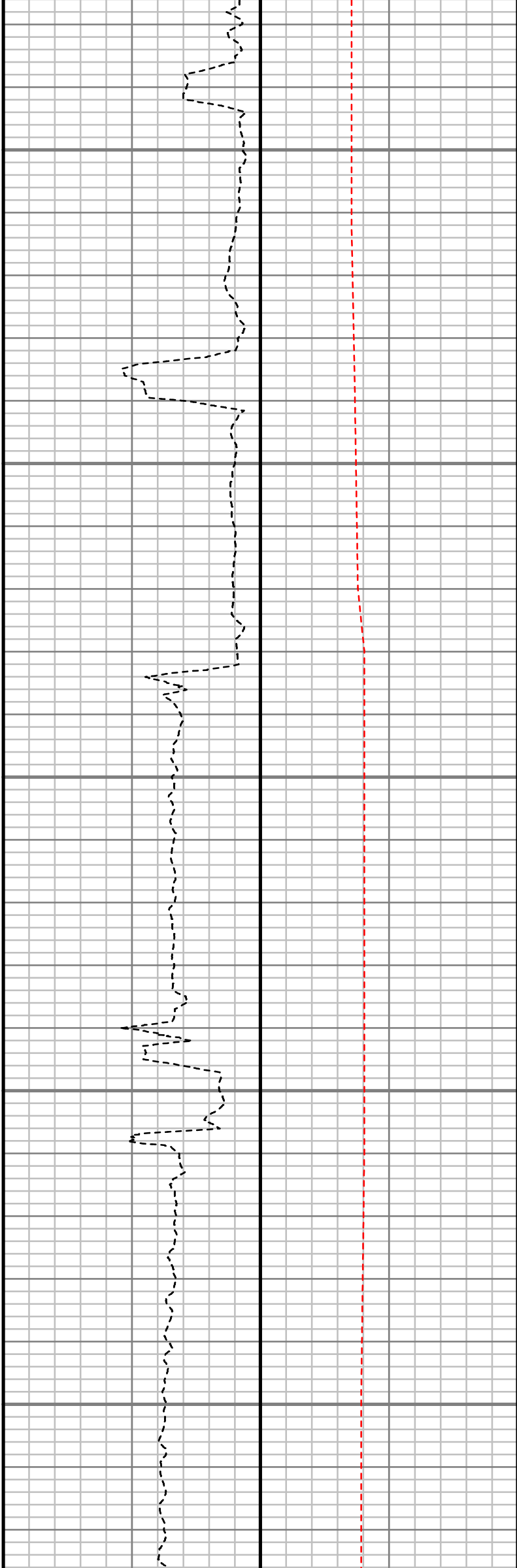
8050

8100

8150

8200

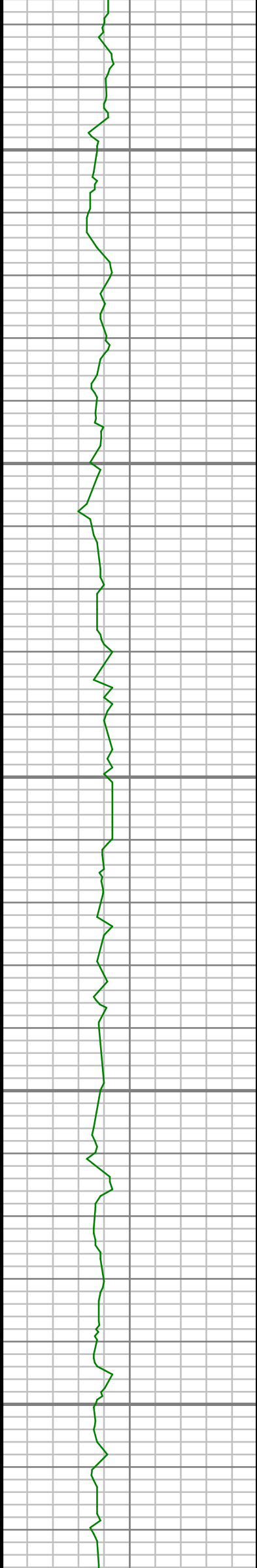
8250



Inc: 76.76 deg Az: 0.98  
deg TVD: 7727.25 ft

S: 90 MD: 8119.00 ft  
Inc: 87.95 deg Az: 0.98  
deg TVD: 7739.87 ft

S: 91 MD: 8238.00 ft  
Inc: 90.81 deg Az: 0.07  
deg TVD: 7741.16 ft



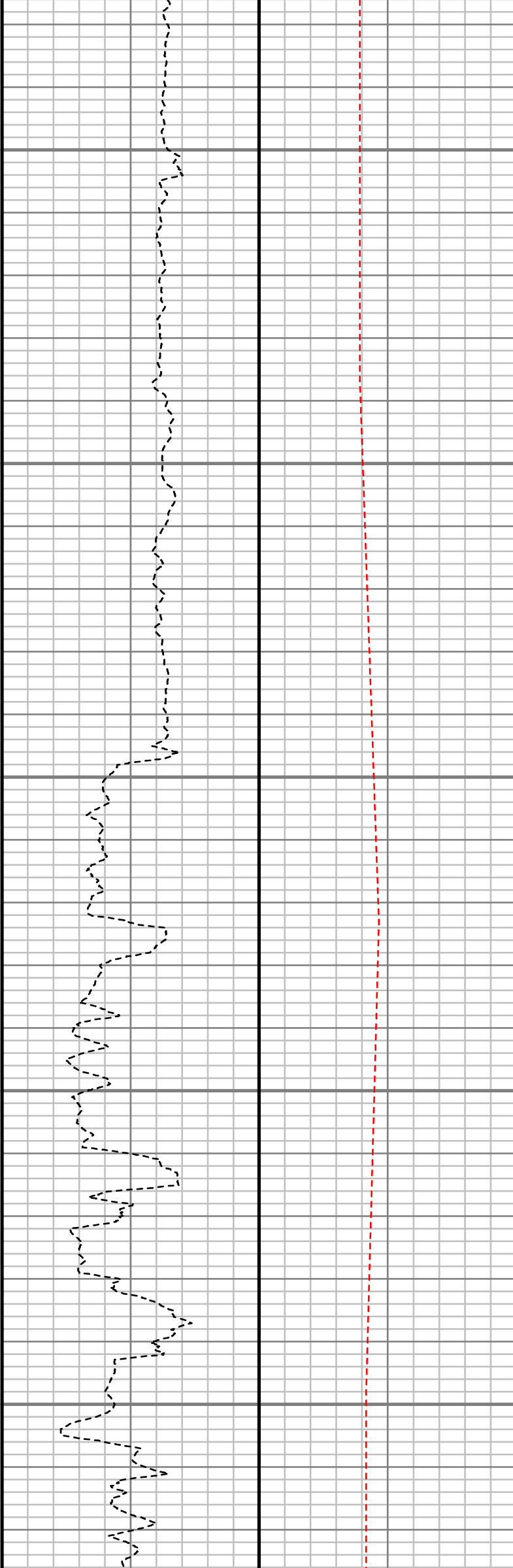
8300

8350

8400

8450

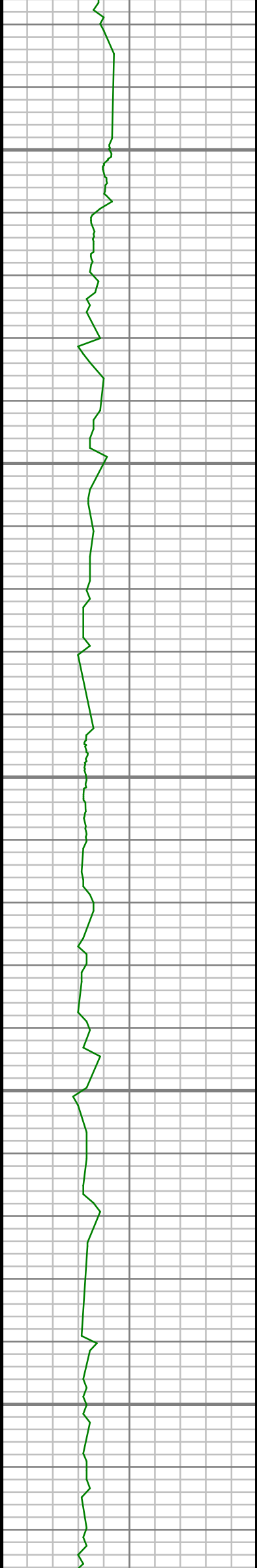
8500



S: 92 MD: 8333.00 ft  
Inc: 90.84 deg Az: 0.83  
deg TVD: 7739.79 ft

S: 93 MD: 8427.00 ft  
Inc: 91.75 deg Az: 0.80  
deg TVD: 7737.67 ft

S: 94 MD: 8522.00 ft  
Inc: 92.49 deg Az: 1.18



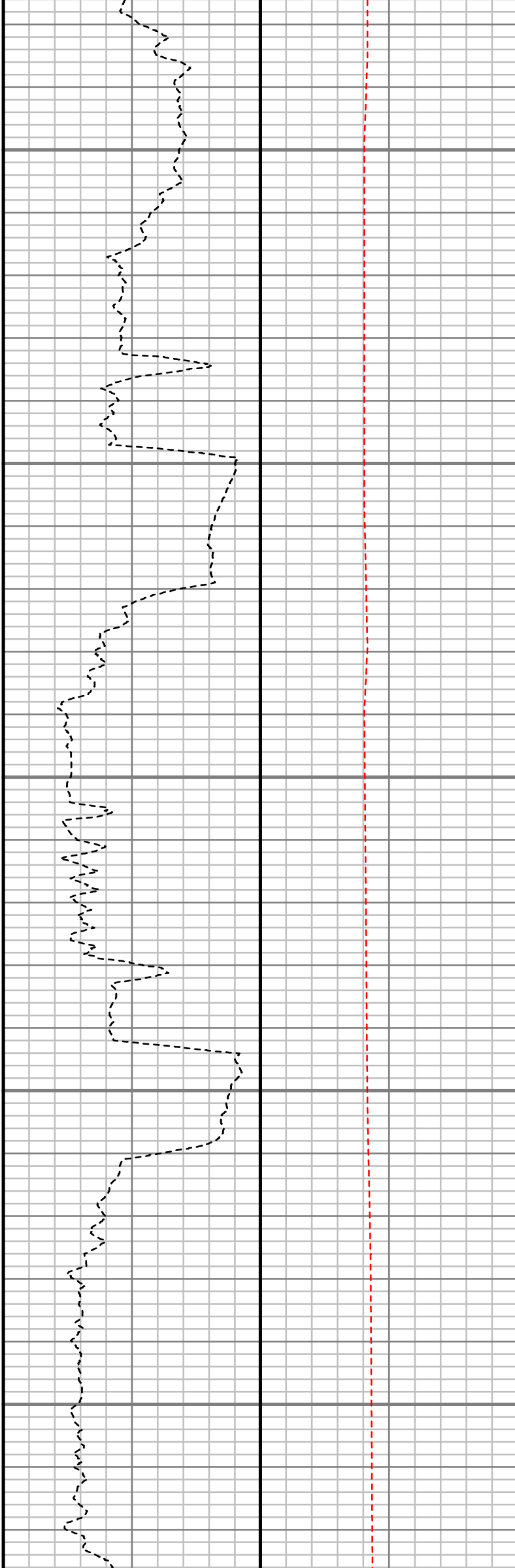
8550

8600

8650

8700

8750

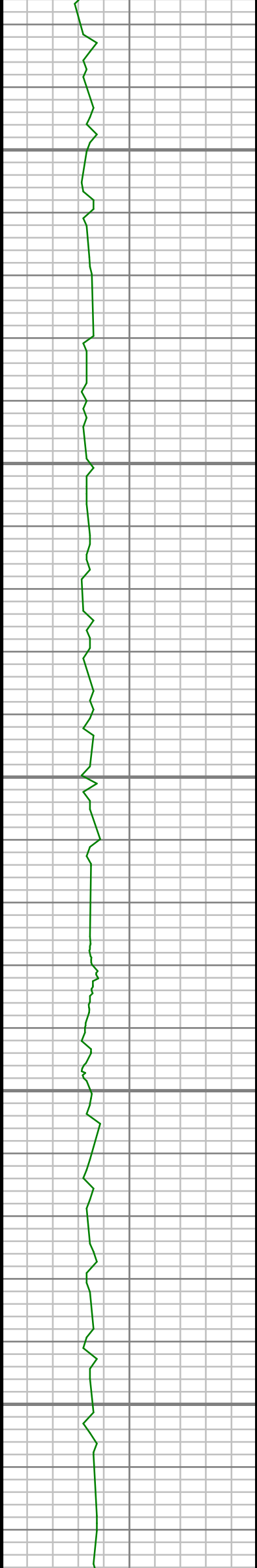


Inc: 92.18 deg Az: 359.94 deg TVD: 7734.16 ft

S: 95 MD: 8616.00 ft  
Inc: 90.84 deg Az:  
359.94 deg TVD:  
7731.43 ft

S: 96 MD: 8711.00 ft  
Inc: 89.56 deg Az:  
357.92 deg TVD:  
7731.10 ft





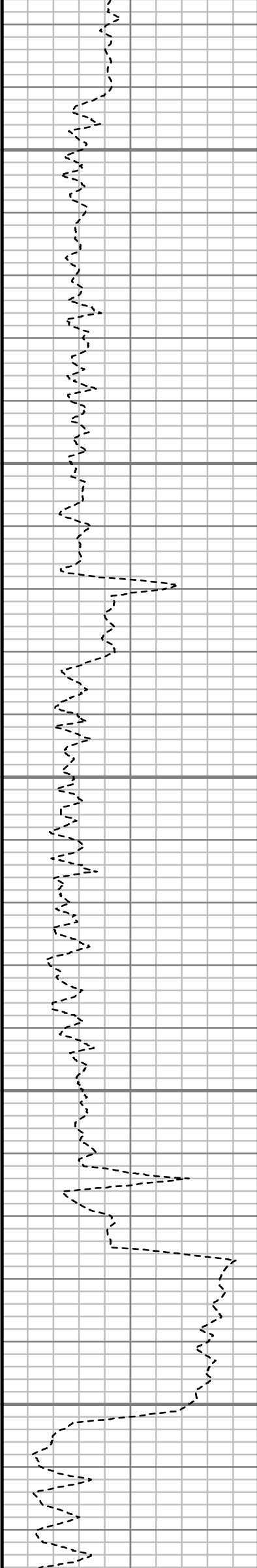
8800

8850

8900

8950

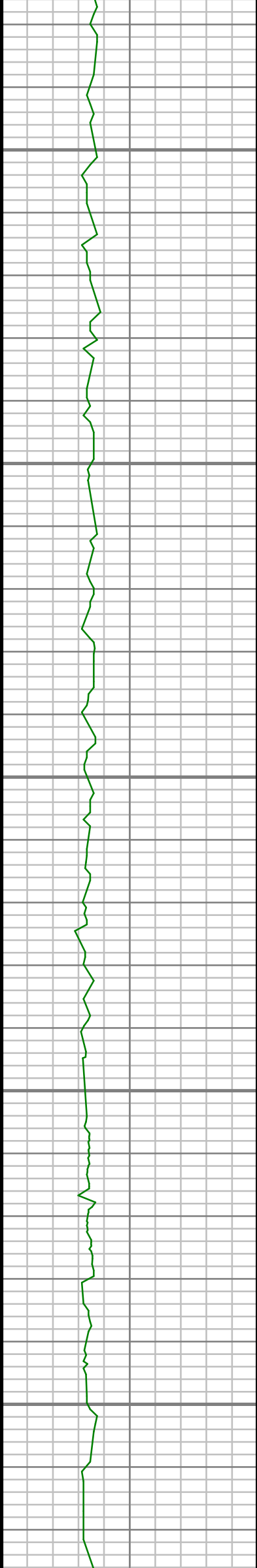
9000



S: 97 MD: 8805.00 ft  
Inc: 89.60 deg Az:  
356.28 deg TVD:  
7731.79 ft

S: 98 MD: 8899.00 ft  
Inc: 88.99 deg Az:  
354.55 deg TVD:  
7732.95 ft

S: 99 MD: 8993.00 ft  
Inc: 90.17 deg Az:  
356.11 deg TVD:  
7733.63 ft



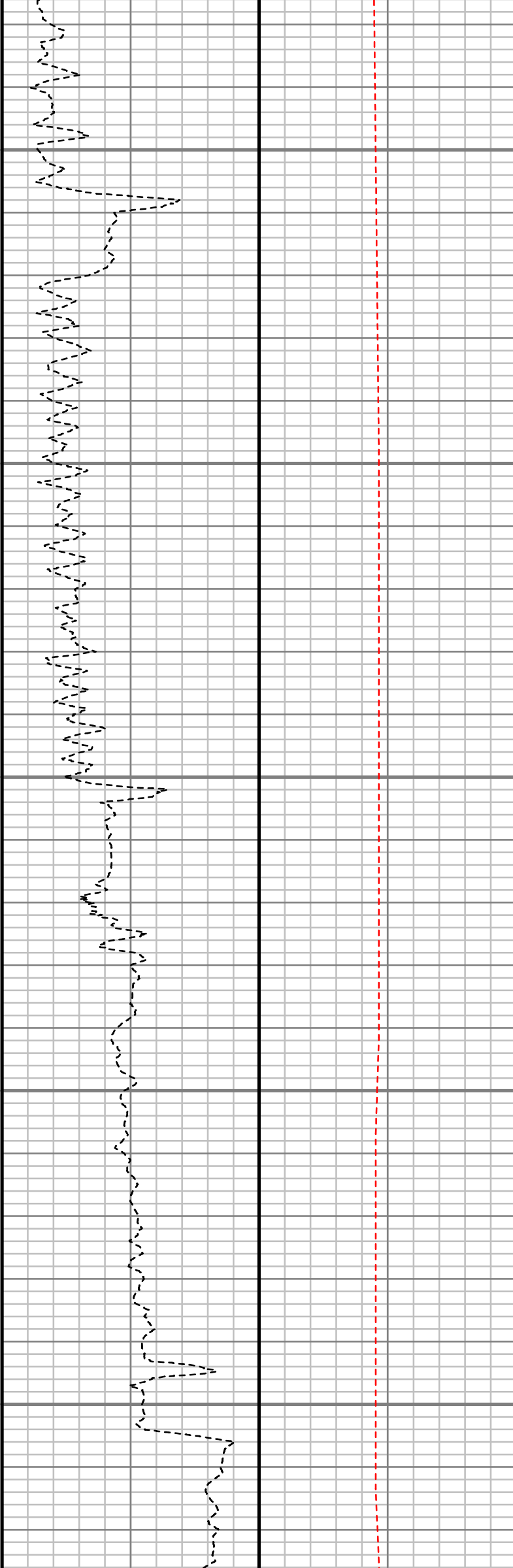
9050

9100

9150

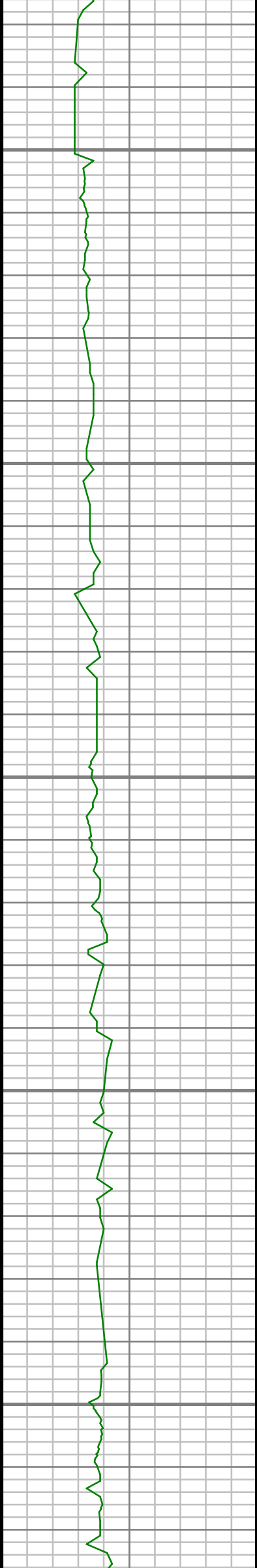
9200

9250



S: 100 MD: 9088.00 ft  
Inc: 90.77 deg Az:  
356.26 deg TVD:  
7732.85 ft

S: 101 MD: 9182.00 ft  
Inc: 90.81 deg Az:  
354.90 deg TVD:  
7731.56 ft



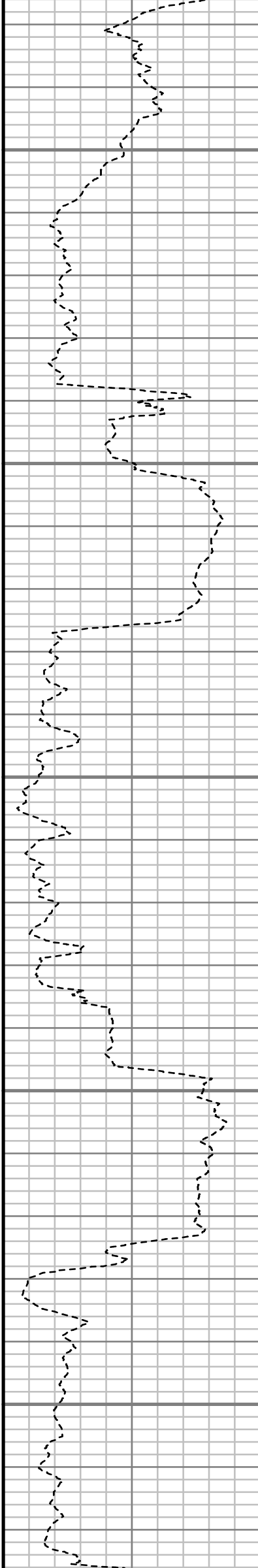
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9350

9400

9450

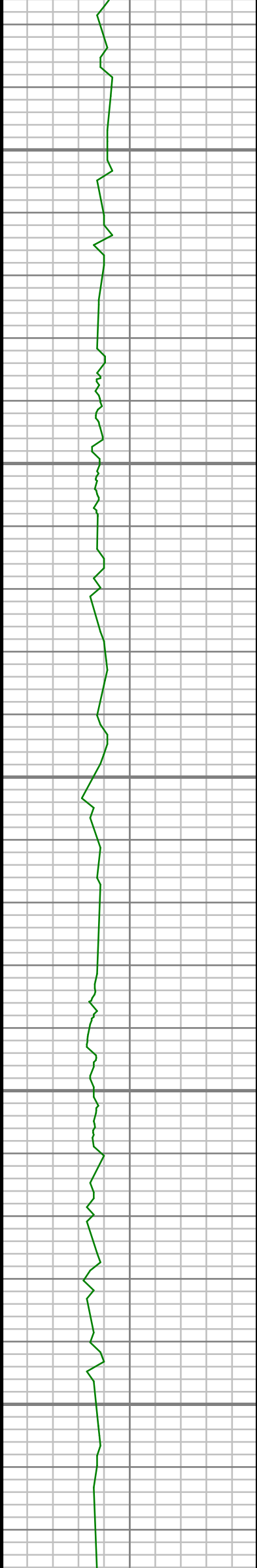
9500



S: 102 MD: 9277.00 ft  
Inc: 88.89 deg Az:  
354.28 deg TVD:  
7731.81 ft

S: 103 MD: 9371.00 ft  
Inc: 88.22 deg Az:  
354.19 deg TVD:  
7734.18 ft

S: 104 MD: 9466.00 ft  
Inc: 88.39 deg Az:  
355.60 deg TVD:  
7736.99 ft



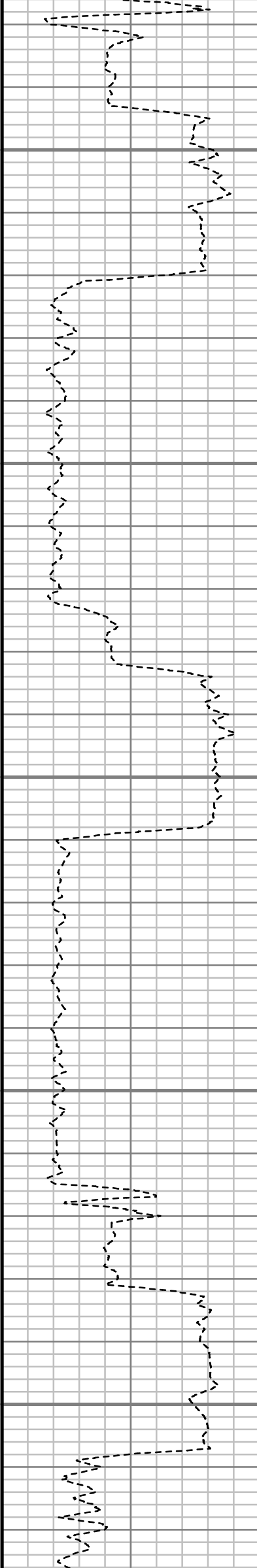
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9600

9650

9700

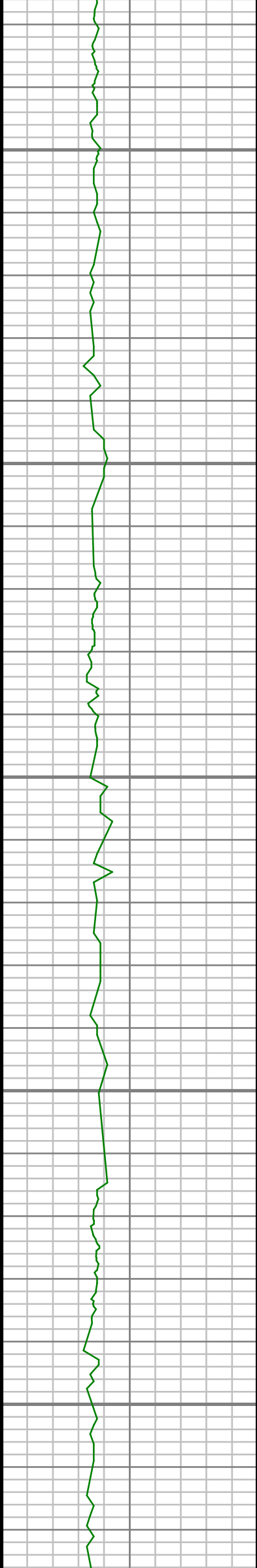
9750



S: 105 MD: 9560.00 ft  
Inc: 89.53 deg Az:  
356.77 deg TVD:  
7738.70 ft

S: 106 MD: 9654.00 ft  
Inc: 89.80 deg Az:  
358.05 deg TVD:  
7739.25 ft

S: 107 MD: 9749.00 ft  
Inc: 90.23 deg Az:  
359.36 deg TVD:  
7739.22 ft



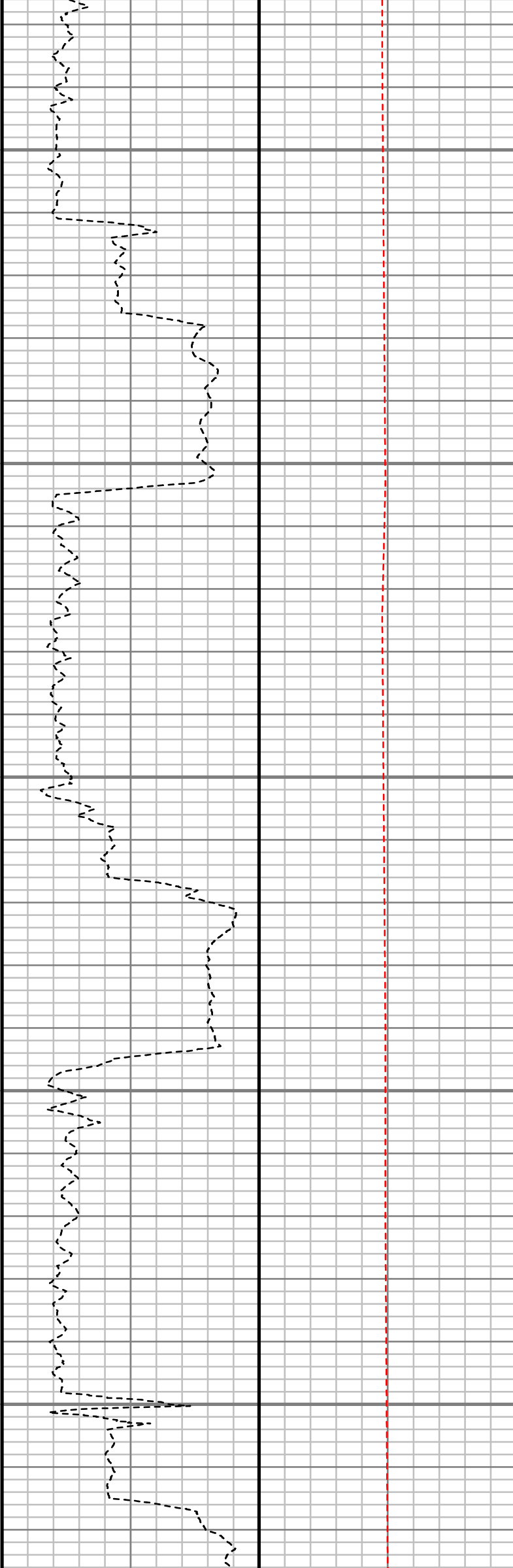
9800

9850

9900

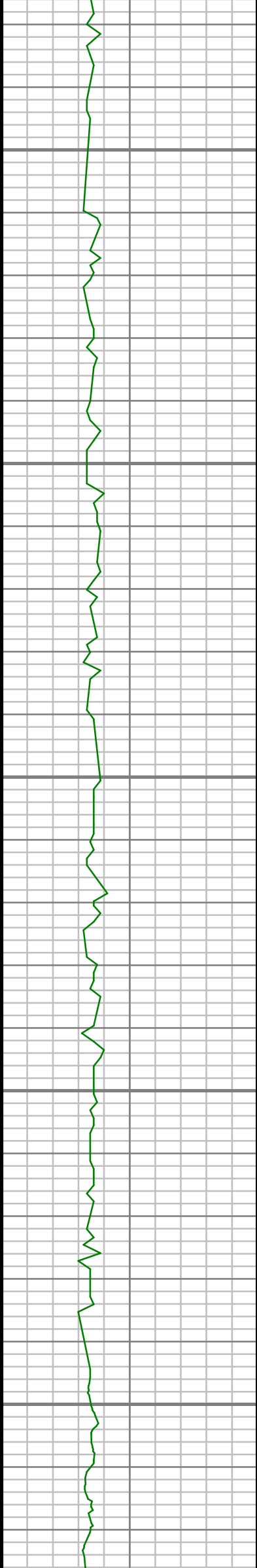
9950

10000



S: 108 MD: 9843.00 ft  
Inc: 91.17 deg Az: 0.39  
deg TVD: 7738.07 ft

S: 109 MD: 9938.00 ft  
Inc: 91.61 deg Az: 2.36  
deg TVD: 7735.76 ft



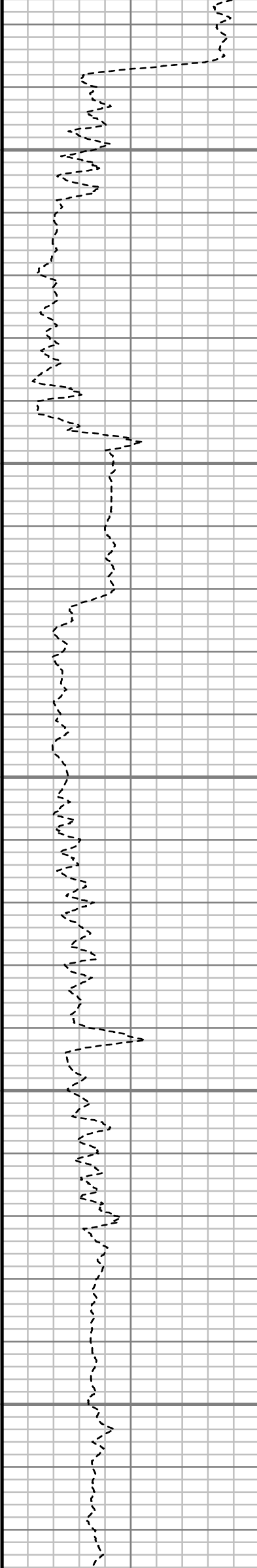
10050

10100

10150

10200

10250

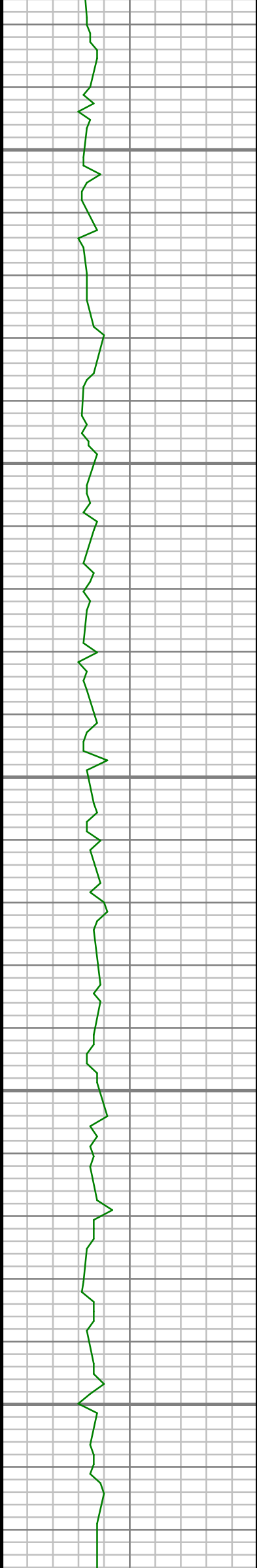


S: 110 MD: 10032.00 ft  
Inc: 90.60 deg Az: 3.96  
deg TVD: 7733.94 ft

S: 111 MD: 10127.00 ft  
Inc: 90.81 deg Az: 3.10  
deg TVD: 7732.77 ft

S: 112 MD: 10221.00 ft  
Inc: 91.45 deg Az: 3.06  
deg TVD: 7730.92 ft





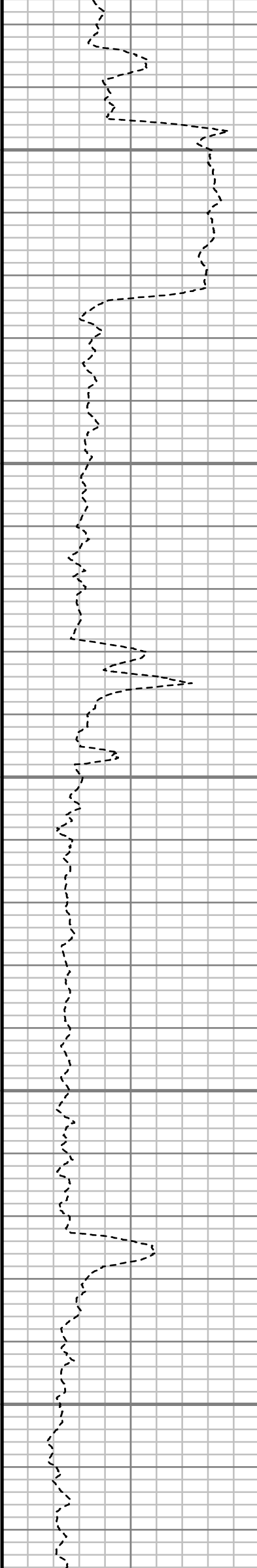
10300

10350

10400

10450

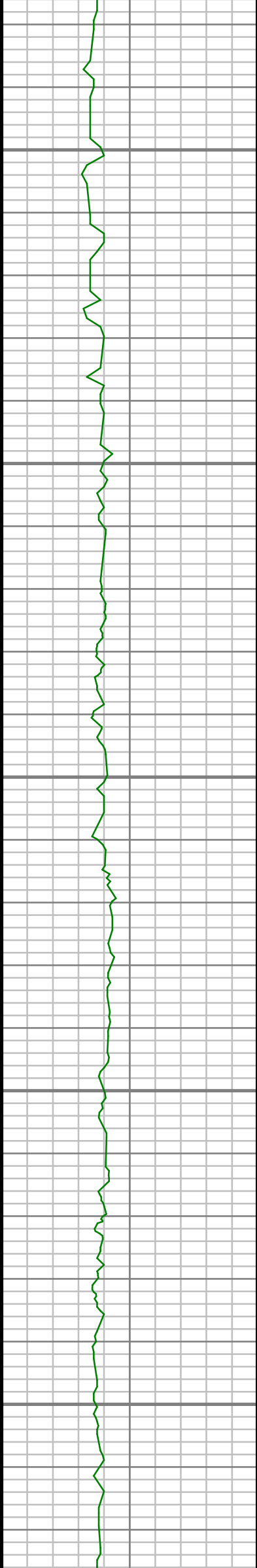
10500



S: 113 MD: 10315.00 ft  
Inc: 88.76 deg Az: 1.21  
deg TVD: 7730.76 ft

S: 114 MD: 10410.00 ft  
Inc: 88.32 deg Az: 0.10  
deg TVD: 7733.18 ft

S: 115 MD: 10504.00 ft  
Inc: 89.06 deg Az:  
359.07 deg TVD:  
7735.33 ft



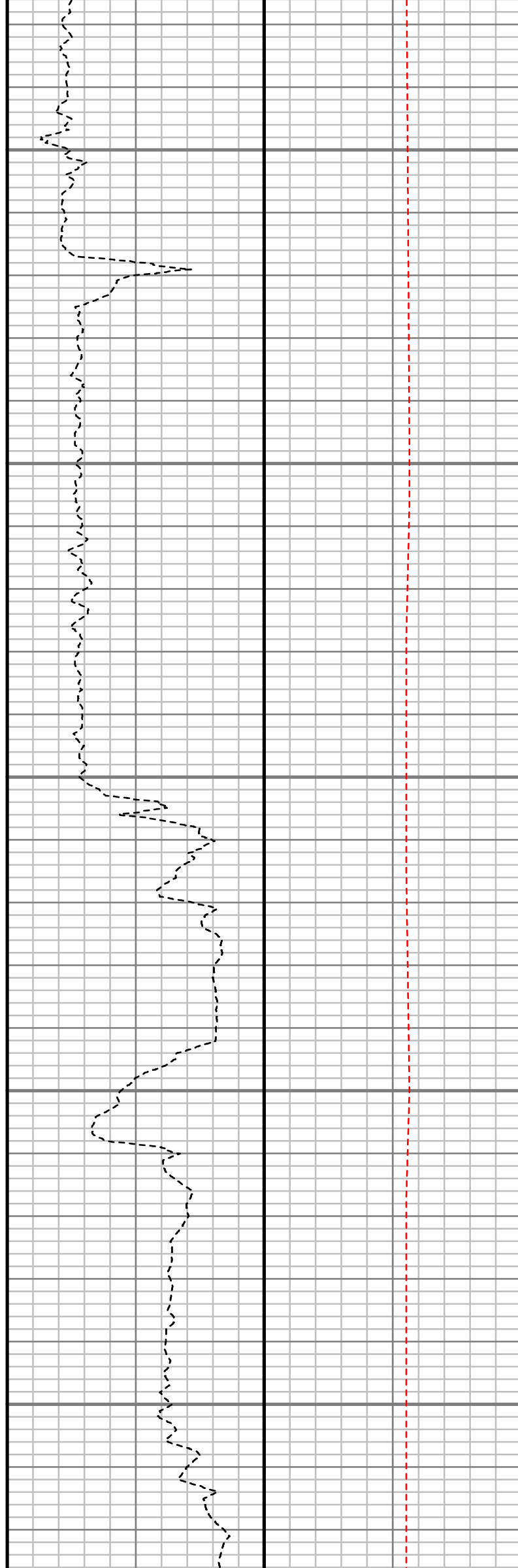
10550

10600

10650

10700

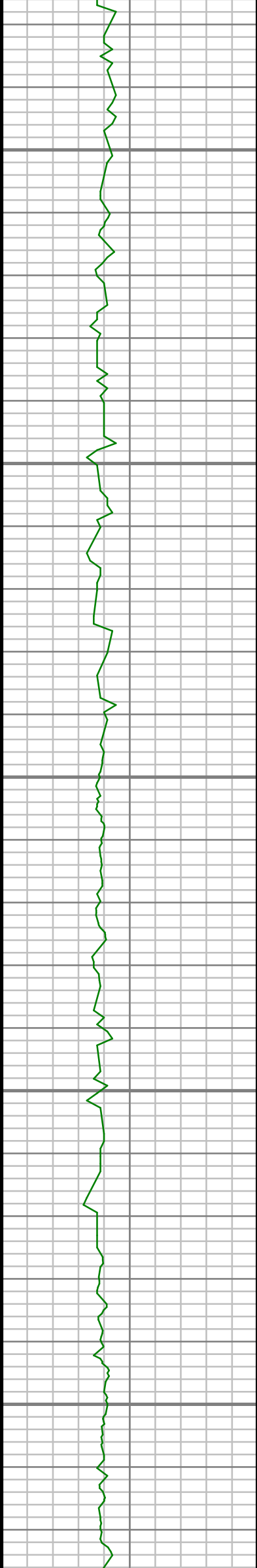
10750



S: 116 MD: 10599.00 ft  
Inc: 89.43 deg Az:  
358.20 deg TVD:  
7736.58 ft

S: 117 MD: 10693.00 ft  
Inc: 89.56 deg Az:  
359.27 deg TVD:  
7737.41 ft





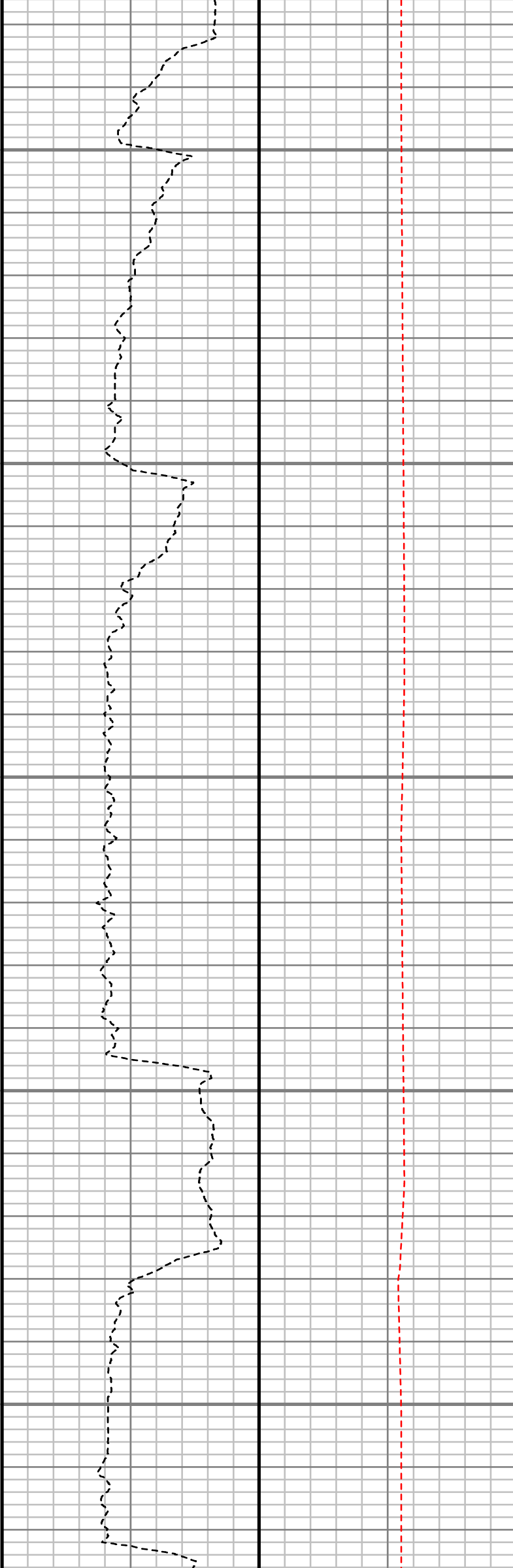
10800

10850

10900

10950

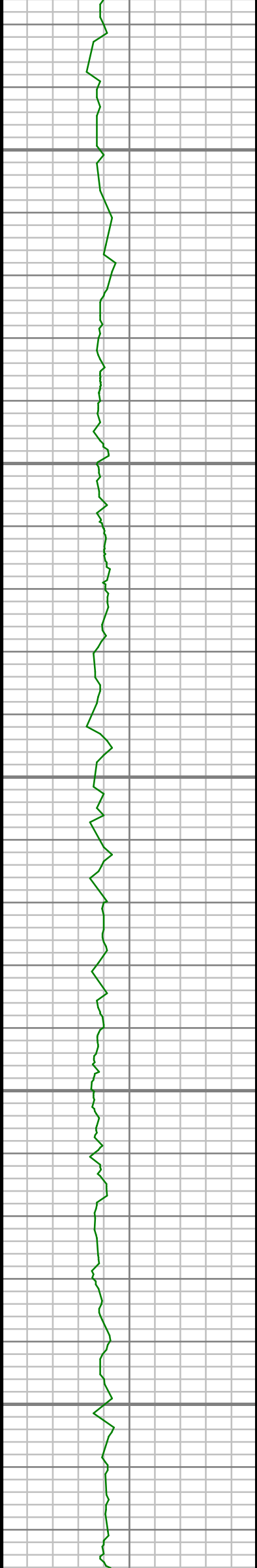
11000



S: 118 MD: 10787.00 ft  
Inc: 90.67 deg Az: 0.33  
deg TVD: 7737.21 ft

S: 119 MD: 10881.00 ft  
Inc: 91.44 deg Az:  
359.26 deg TVD:  
7735.48 ft

S: 120 MD: 10976.00 ft  
Inc: 89.50 deg Az:  
358.85 deg TVD:  
7734.70 ft



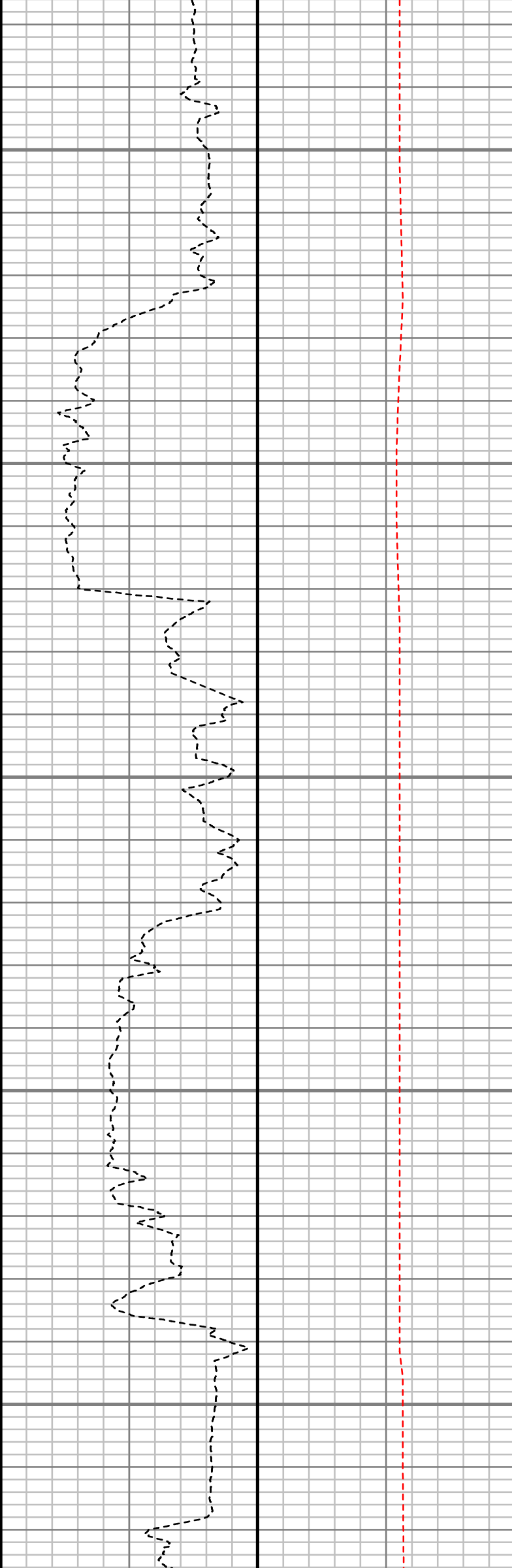
11050

11100

11150

11200

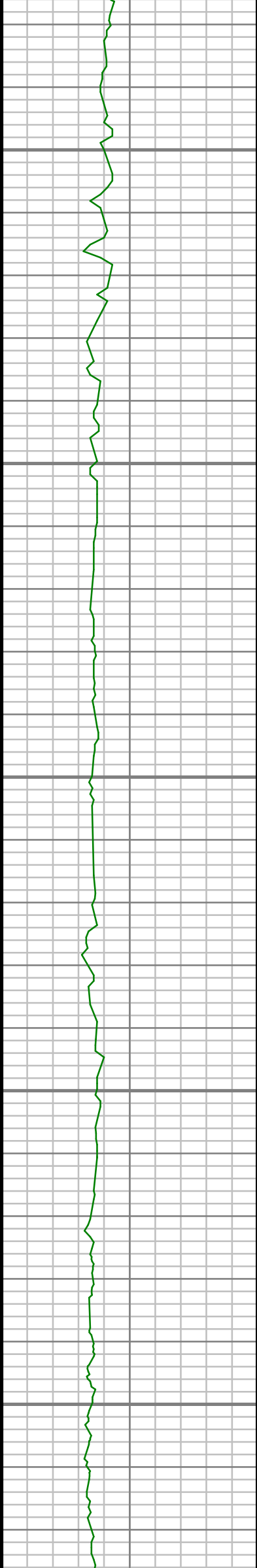
11250



S: 121 MD: 11070.00 ft  
Inc: 89.93 deg Az: 0.35  
deg TVD: 7735.17 ft

S: 122 MD: 11165.00 ft  
Inc: 89.26 deg Az: 0.64  
deg TVD: 7735.84 ft

S: 123 MD: 11259.00 ft  
Inc: 89.87 deg Az: 3.02  
deg TVD: 7736.56 ft



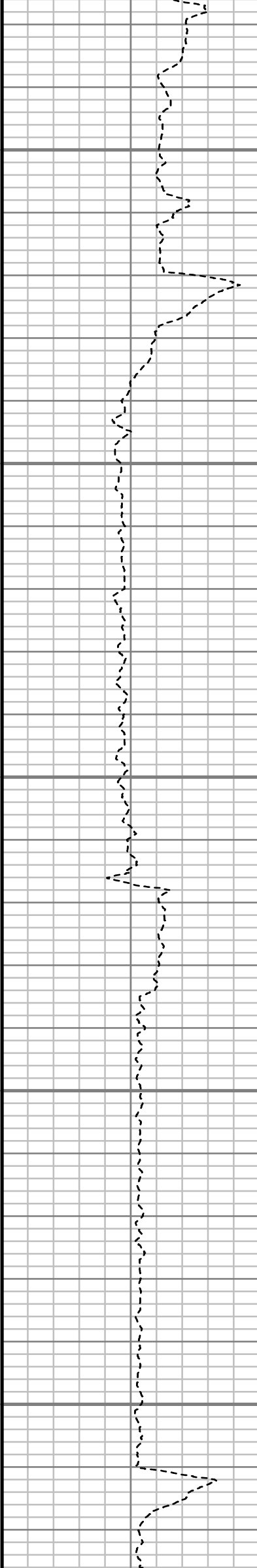
11300

11350

11400

11450

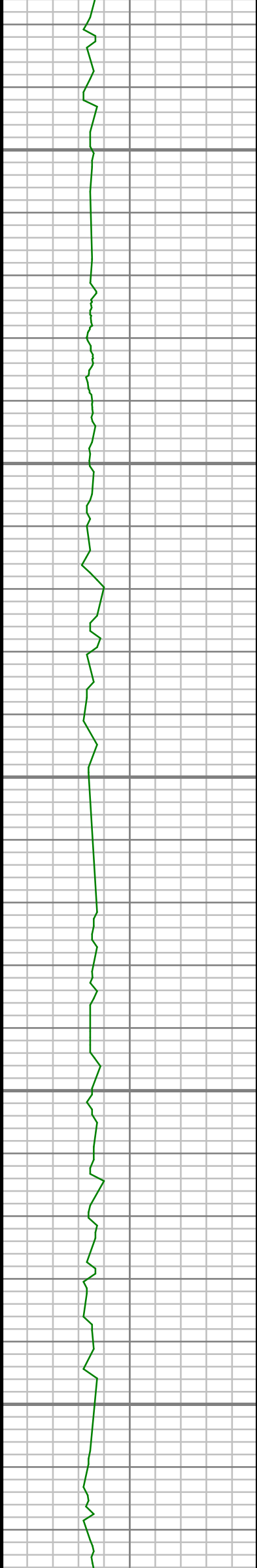
11500



S: 124 MD: 11353.00 ft  
Inc: 90.60 deg Az: 2.85  
deg TVD: 7736.17 ft

S: 125 MD: 11448.00 ft  
Inc: 91.38 deg Az: 1.07  
deg TVD: 7734.53 ft





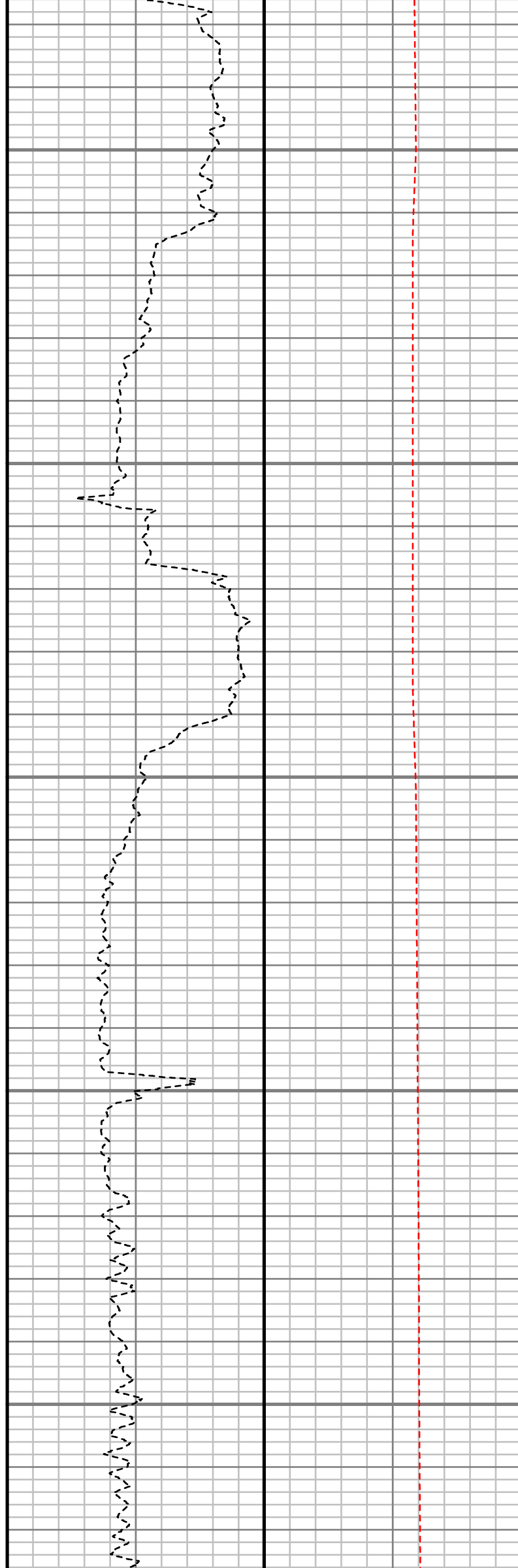
11550

11600

11650

11700

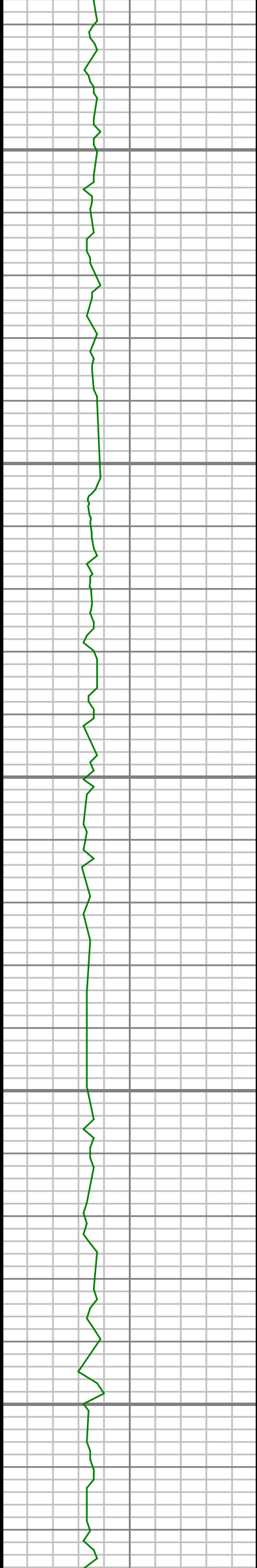
11750



S: 126 MD: 11542.00 ft  
Inc: 90.87 deg Az: 0.96  
deg TVD: 7732.69 ft

S: 127 MD: 11637.00 ft  
Inc: 89.16 deg Az: 2.44  
deg TVD: 7732.66 ft

S: 128 MD: 11731.00 ft  
Inc: 90.03 deg Az: 2.08  
deg TVD: 7733.32 ft



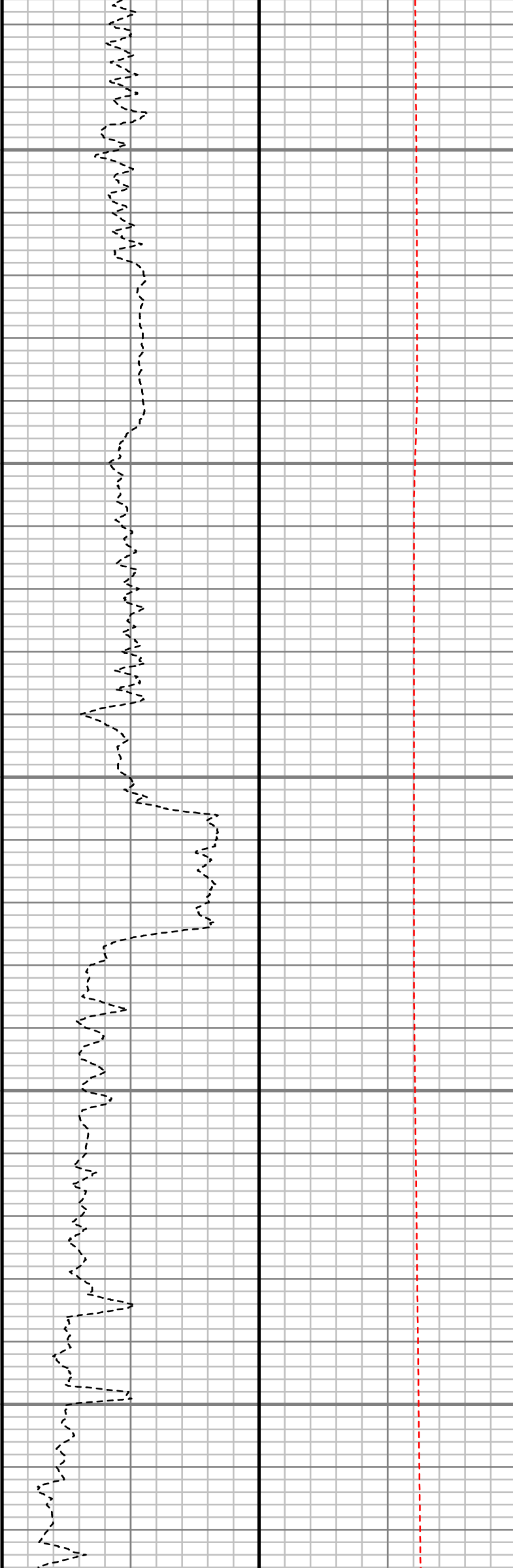
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11850

11900

11950

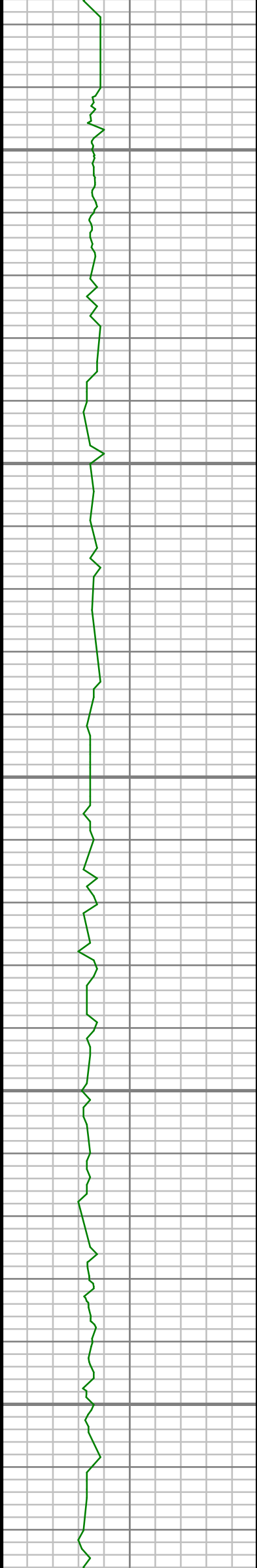
12000



S: 129 MD: 11826.00 ft  
Inc: 90.77 deg Az: 0.80  
deg TVD: 7732.65 ft

S: 130 MD: 11920.00 ft  
Inc: 89.97 deg Az:  
359.79 deg TVD:  
7732.05 ft

S: 131 MD: 12014.00 ft  
Inc: 89.63 deg Az:  
358.59 deg TVD:  
7732.38 ft



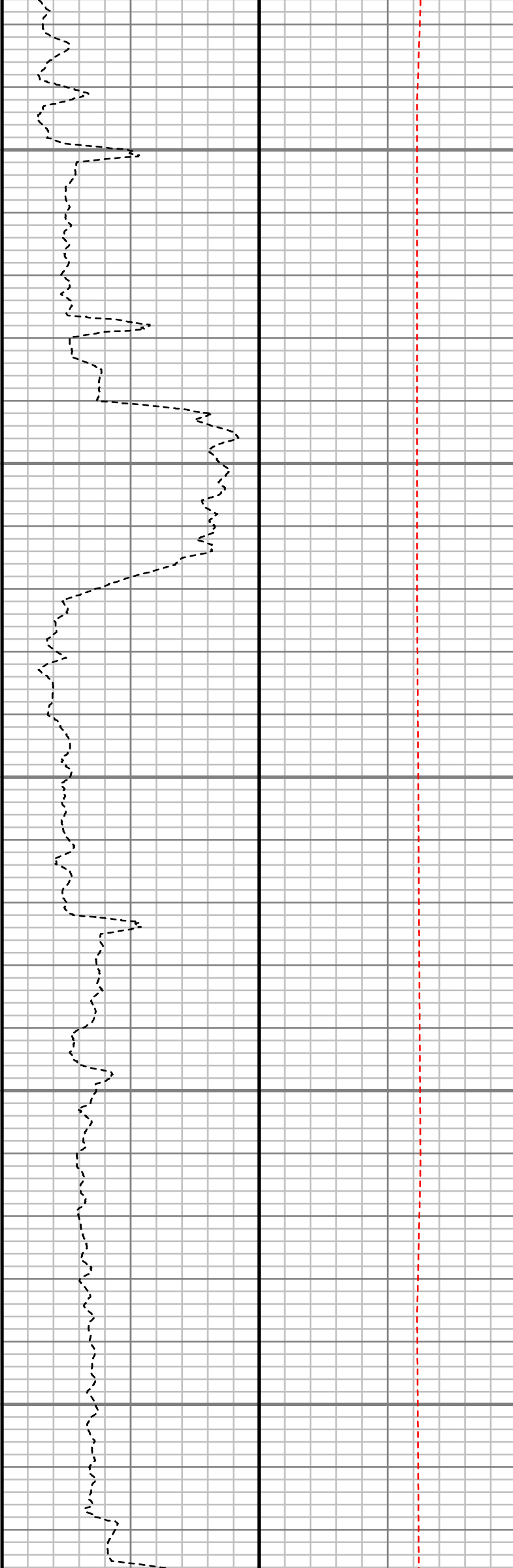
12050

12100

12150

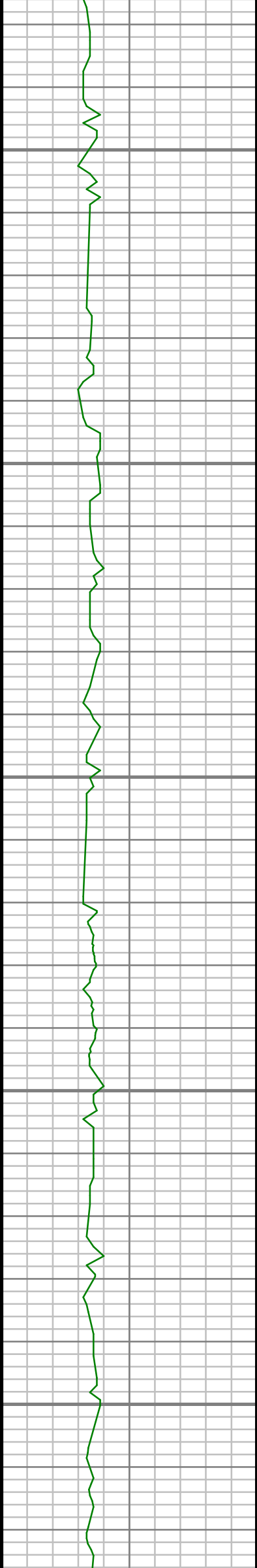
12200

12250



S: 132 MD: 12109.00 ft  
Inc: 90.44 deg Az: 0.68  
deg TVD: 7732.32 ft

S: 133 MD: 12203.00 ft  
Inc: 90.71 deg Az:  
359.70 deg TVD:  
7731.38 ft



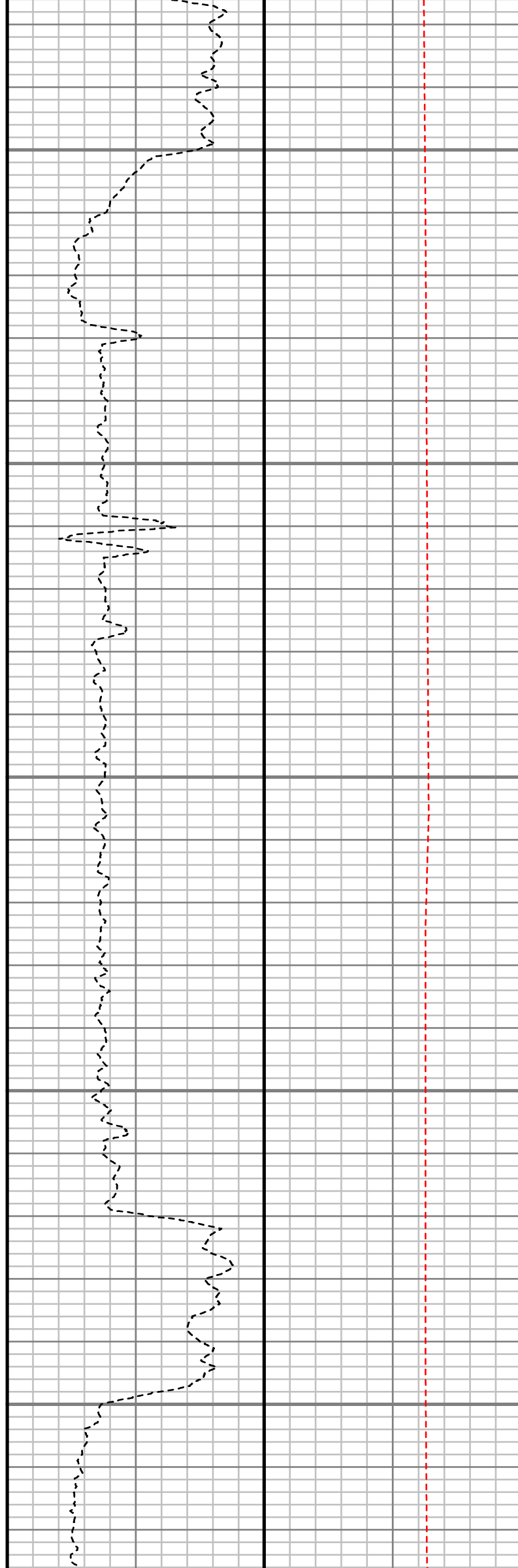
12300

12350

12400

12450

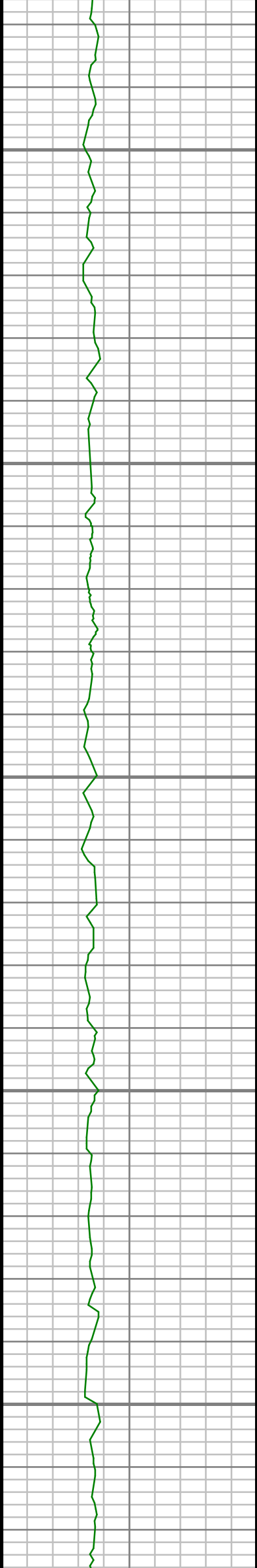
12500



S: 134 MD: 12298.00 ft  
Inc: 88.69 deg Az:  
358.50 deg TVD:  
7731.88 ft

S: 135 MD: 12392.00 ft  
Inc: 88.89 deg Az:  
357.17 deg TVD:  
7733.87 ft

S: 136 MD: 12486.00 ft  
Inc: 89.73 deg Az:  
359.00 deg TVD:  
7735.00 ft



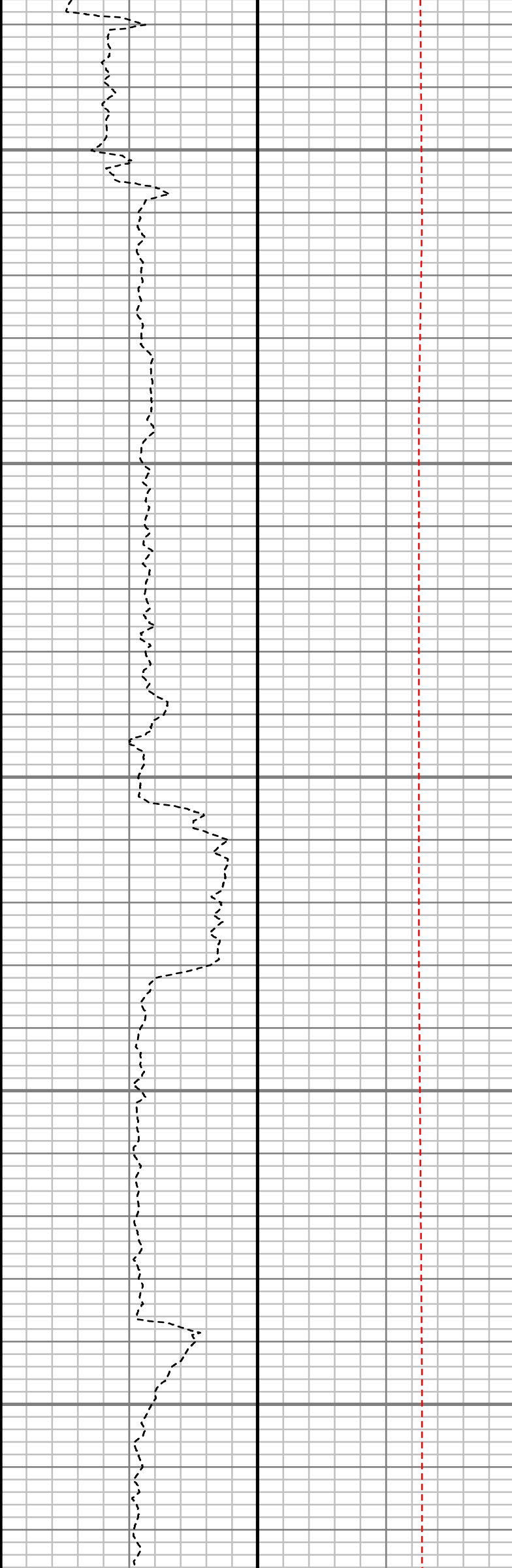
12550

12600

12650

12700

12750

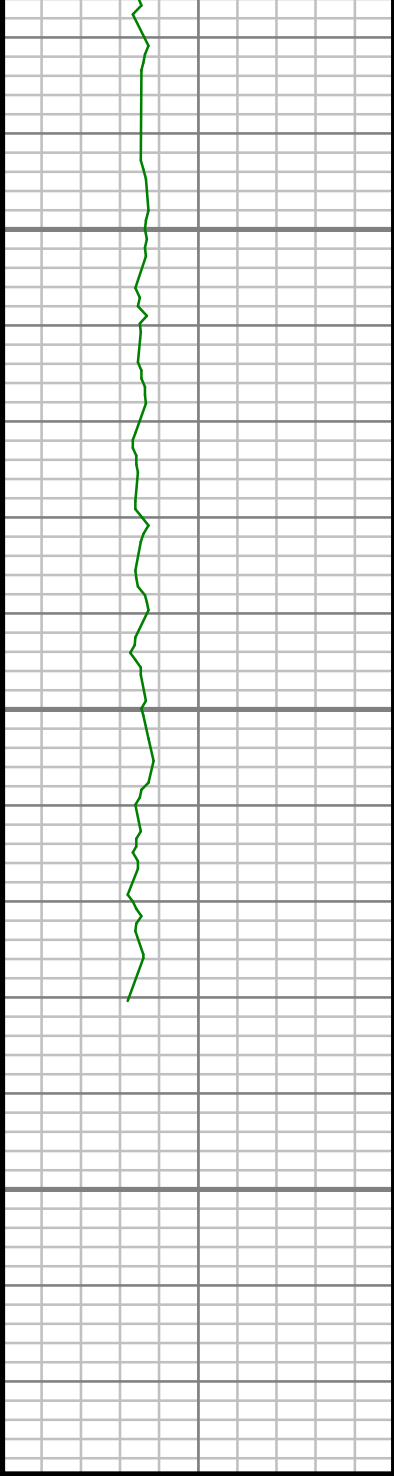


S: 137 MD: 12580.00 ft  
Inc: 90.67 deg Az:  
357.91 deg TVD:  
7734.67 ft

S: 138 MD: 12674.00 ft  
Inc: 89.53 deg Az:  
359.49 deg TVD:  
7734.50 ft

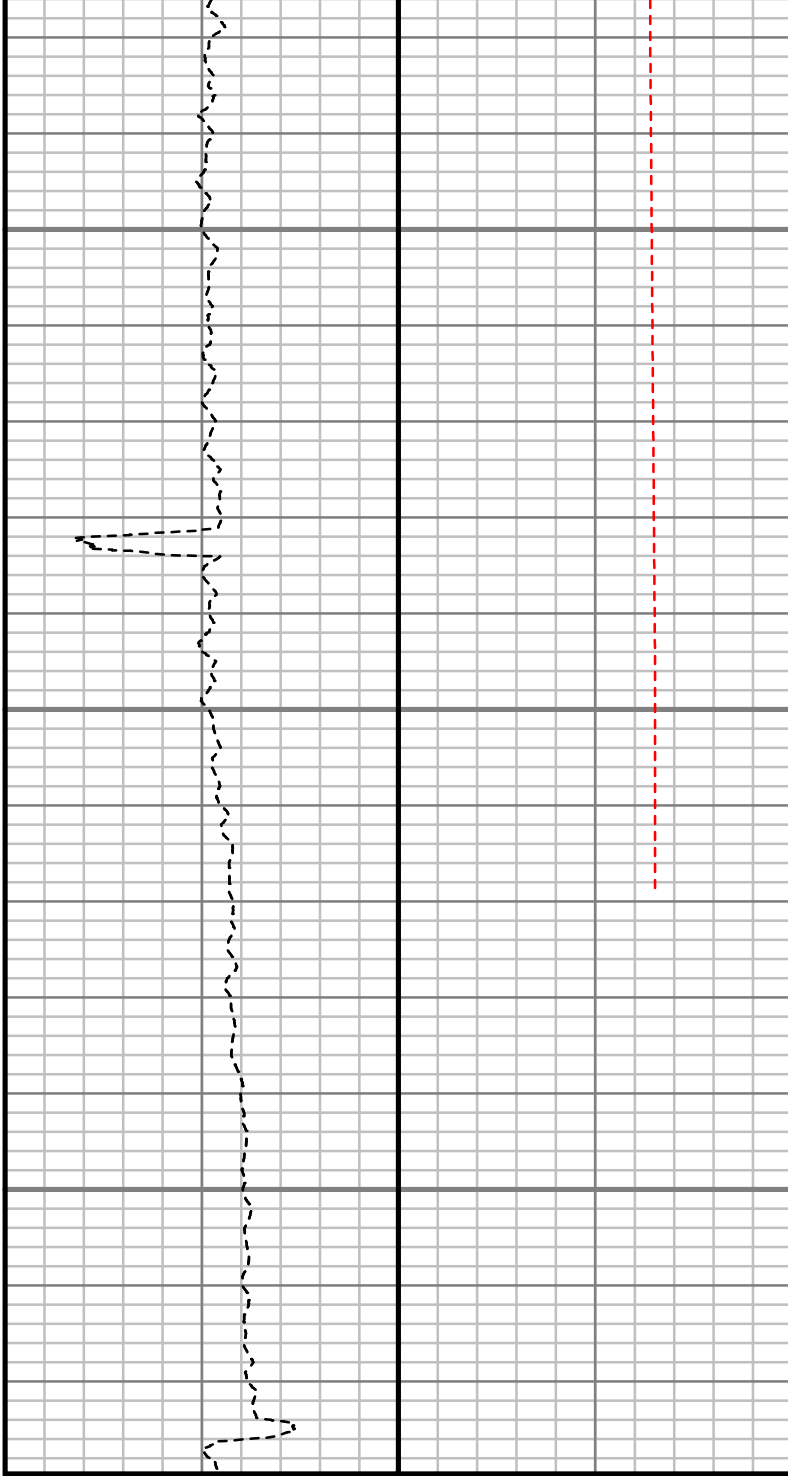
S: 139 MD: 12769.00 ft  
Inc: 89.83 deg Az:  
358.53 deg TVD:





Gamma Ray (GR)		
0	Unit = aapi	150

MEASURED DEPTH  
1240 (ft)



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

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

7735.03 ft
S: 140 MD: 12867.00 ft Inc: 90.77 deg Az: 357.56 deg TVD: 7734.51 ft
Comments

Customer Name:	ANADARKO PETROLEUM CORP.
Site Name:	NRC 14-8HZ PAD
Well Name:	NRC 3C-8HZ
Survey:	NRC 3C-8HZ
Survey Date:	3/25/2014
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	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
100.00	0.49	184.19	100.00	-0.43	-0.43	-0.03	0.49
200.00	0.21	302.16	200.00	-0.76	-0.76	-0.22	0.62
300.00	0.45	143.72	300.00	-0.97	-0.97	-0.14	0.65
400.00	0.36	301.33	400.00	-1.13	-1.13	-0.18	0.79
500.00	0.74	155.94	499.99	-1.55	-1.55	-0.18	1.06
600.00	0.22	281.85	599.99	-2.10	-2.10	-0.11	0.89
700.00	0.70	148.63	699.99	-2.59	-2.59	0.02	0.87
800.00	0.26	329.14	799.99	-2.91	-2.91	0.23	0.96

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
900.00	0.62	189.41	899.99	-3.25	-3.25	0.02	0.84
1000.00	0.44	53.94	999.98	-3.56	-3.56	0.24	0.98
1100.00	0.51	295.00	1099.98	-3.15	-3.15	0.15	0.82
1134.00	0.61	323.62	1133.98	-2.94	-2.94	-0.09	0.86
1363.00	1.61	186.81	1362.95	-5.15	-5.15	-1.20	0.92
1455.00	3.21	182.15	1454.87	-9.01	-9.01	-1.45	1.75
1564.00	5.17	188.13	1563.57	-16.92	-16.92	-2.26	1.84
1656.00	6.13	188.73	1655.13	-25.88	-25.88	-3.59	1.04
1747.00	6.98	183.85	1745.53	-36.19	-36.19	-4.70	1.12
1839.00	7.42	179.87	1836.81	-47.71	-47.71	-5.06	0.72
1930.00	6.75	177.82	1927.11	-58.94	-58.94	-4.84	0.79
2023.00	6.19	180.73	2019.52	-69.41	-69.41	-4.70	0.70
2114.00	6.67	187.47	2109.95	-79.55	-79.55	-5.45	0.98
2206.00	7.49	193.15	2201.25	-90.69	-90.69	-7.51	1.17
2298.00	8.91	192.49	2292.30	-103.48	-103.48	-10.41	1.54
2389.00	9.84	187.82	2382.09	-118.05	-118.05	-12.99	1.32
2480.00	10.84	184.79	2471.61	-134.28	-134.28	-14.77	1.26
2572.00	9.91	183.76	2562.11	-150.80	-150.80	-16.01	1.04
2756.00	10.89	177.43	2743.09	-183.96	-183.96	-16.26	0.82
2848.00	10.18	179.63	2833.54	-200.77	-200.77	-15.82	0.89

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
2940.00	10.35	181.31	2924.07	-217.17	-217.17	-15.96	0.38
3032.00	12.15	186.77	3014.30	-235.04	-235.04	-17.29	2.26
3124.00	11.40	189.89	3104.36	-253.61	-253.61	-19.99	1.07
3215.00	9.59	193.58	3193.84	-269.84	-269.84	-23.31	2.12
3402.00	9.69	188.66	3378.20	-300.54	-300.54	-29.34	0.44
3496.00	11.03	191.15	3470.67	-317.18	-317.18	-32.27	1.51
3590.00	9.97	191.56	3563.09	-333.98	-333.98	-35.64	1.13
3684.00	8.96	180.41	3655.82	-349.27	-349.27	-37.32	2.22
3779.00	10.55	188.75	3749.45	-365.27	-365.27	-38.70	2.23
3873.00	11.27	184.87	3841.75	-382.92	-382.92	-40.79	1.09
3967.00	9.75	185.83	3934.17	-399.99	-399.99	-42.37	1.62
4156.00	13.17	182.36	4119.37	-437.44	-437.44	-44.89	1.84
4250.00	12.74	185.83	4210.98	-458.45	-458.45	-46.38	0.95
4344.00	12.40	179.48	4302.73	-478.85	-478.85	-47.34	1.51
4439.00	14.18	174.72	4395.19	-500.64	-500.64	-46.18	2.20
4533.00	13.29	181.45	4486.51	-522.91	-522.91	-45.39	1.95
4627.00	10.87	188.40	4578.42	-542.49	-542.49	-46.96	2.99
4816.00	12.33	179.11	4763.57	-580.31	-580.31	-49.25	1.25
4910.00	14.48	179.13	4855.00	-602.10	-602.10	-48.92	2.29

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
5099.00	11.05	181.40	5039.31	-643.85	-643.85	-49.00	1.83
5194.00	10.41	185.59	5132.65	-661.49	-661.49	-50.06	1.06
5288.00	9.47	185.08	5225.23	-677.65	-677.65	-51.57	1.01
5382.00	10.41	182.04	5317.82	-693.83	-693.83	-52.56	1.15
5477.00	9.80	184.96	5411.35	-710.47	-710.47	-53.56	0.84
5571.00	10.06	190.60	5503.94	-726.51	-726.51	-55.76	1.07
5666.00	8.81	188.54	5597.66	-741.86	-741.86	-58.37	1.36
5760.00	9.36	189.78	5690.48	-756.51	-756.51	-60.74	0.62
5854.00	11.38	188.83	5782.94	-773.21	-773.21	-63.46	2.15
5948.00	10.03	184.89	5875.30	-790.52	-790.52	-65.58	1.63
6042.00	9.35	183.59	5967.96	-806.29	-806.29	-66.76	0.76
6137.00	10.17	187.53	6061.59	-822.31	-822.31	-68.34	1.12
6231.00	10.06	191.85	6154.13	-838.57	-838.57	-71.11	0.82
6326.00	11.44	188.19	6247.46	-856.03	-856.03	-74.16	1.62
6420.00	11.08	189.06	6339.65	-874.18	-874.18	-76.91	0.43
6514.00	9.50	186.03	6432.13	-890.81	-890.81	-79.15	1.78
6609.00	6.97	179.94	6526.15	-904.36	-904.36	-79.96	2.81
6703.00	7.10	179.94	6619.44	-915.88	-915.88	-79.95	0.14
6798.00	6.10	187.84	6713.81	-926.75	-926.75	-80.63	1.42
6892.00	4.16	200.94	6807.43	-934.88	-934.88	-82.53	2.40

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
6986.00	2.99	196.73	6901.25	-940.41	-940.41	-84.46	1.28
7081.00	1.57	178.16	6996.17	-944.08	-944.08	-85.13	1.66
7128.00	1.18	176.80	7043.16	-945.21	-945.21	-85.08	0.84
7175.00	2.99	7.63	7090.14	-944.48	-944.48	-84.89	8.85
7222.00	7.38	0.36	7136.94	-940.24	-940.24	-84.71	9.41
7269.00	10.92	358.45	7183.34	-932.77	-932.77	-84.81	7.56
7316.00	14.25	359.63	7229.20	-922.53	-922.53	-84.96	7.09
7364.00	16.56	356.03	7275.47	-909.80	-909.80	-85.48	5.22
7411.00	19.06	1.32	7320.22	-895.44	-895.44	-85.77	6.32
7458.00	22.47	5.77	7364.16	-878.83	-878.83	-84.69	8.00
7505.00	25.12	359.43	7407.17	-859.91	-859.91	-83.88	7.83
7553.00	29.23	354.24	7449.87	-838.05	-838.05	-85.16	9.87
7600.00	32.60	350.56	7490.19	-814.13	-814.13	-88.39	8.22
7647.00	39.11	350.14	7528.26	-787.01	-787.01	-93.01	13.87
7694.00	43.69	348.68	7563.51	-756.47	-756.47	-98.74	9.95
7741.00	49.85	350.31	7595.69	-722.81	-722.81	-104.95	13.36
7788.00	53.56	353.85	7624.81	-686.29	-686.29	-110.01	9.85
7836.00	57.69	356.55	7651.91	-646.82	-646.82	-113.30	9.78
7883.00	61.52	358.43	7675.69	-606.33	-606.33	-115.06	8.84

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
7930.00	65.54	0.25	7696.64	-564.27	-564.27	-115.53	9.24
7977.00	70.78	1.01	7714.12	-520.66	-520.66	-115.05	11.24
8024.00	76.76	0.98	7727.25	-475.56	-475.56	-114.26	12.73
8119.00	87.95	0.98	7739.87	-381.57	-381.57	-112.65	11.78
8238.00	90.81	0.07	7741.16	-262.60	-262.60	-111.56	2.52
8333.00	90.84	0.83	7739.79	-167.61	-167.61	-110.81	0.79
8427.00	91.75	0.80	7737.67	-73.65	-73.65	-109.48	0.96
8522.00	92.49	1.18	7734.16	21.27	21.27	-107.83	0.88
8616.00	90.84	359.94	7731.43	115.23	115.23	-106.91	2.20
8711.00	89.56	357.92	7731.10	210.20	210.20	-108.69	2.51
8805.00	89.60	356.28	7731.79	304.08	304.08	-113.44	1.74
8899.00	88.99	354.55	7732.95	397.76	397.76	-120.95	1.95
8993.00	90.17	356.11	7733.63	491.44	491.44	-128.61	2.07
9088.00	90.77	356.26	7732.85	586.23	586.23	-134.93	0.66
9182.00	90.81	354.90	7731.56	679.94	679.94	-142.18	1.45
9277.00	88.89	354.28	7731.81	774.51	774.51	-151.14	2.12
9371.00	88.22	354.19	7734.18	868.00	868.00	-160.57	0.72
9466.00	88.39	355.60	7736.99	962.58	962.58	-169.02	1.49
9560.00	89.53	356.77	7738.70	1056.36	1056.36	-175.27	1.74
9654.00	89.80	358.05	7739.25	1150.26	1150.26	-179.52	1.38

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
9749.00	90.23	359.36	7739.22	1245.23	1245.23	-181.67	1.46
9843.00	91.17	0.39	7738.07	1339.22	1339.22	-181.87	1.48
9938.00	91.61	2.36	7735.76	1434.16	1434.16	-179.60	2.12
10032.00	90.60	3.96	7733.94	1528.00	1528.00	-174.42	2.01
10127.00	90.81	3.10	7732.77	1622.81	1622.81	-168.57	0.92
10221.00	91.45	3.06	7730.92	1716.65	1716.65	-163.52	0.68
10315.00	88.76	1.21	7730.76	1810.58	1810.58	-160.03	3.47
10410.00	88.32	0.10	7733.18	1905.54	1905.54	-158.94	1.26
10504.00	89.06	359.07	7735.33	1999.51	1999.51	-159.62	1.34
10599.00	89.43	358.20	7736.58	2094.47	2094.47	-161.88	1.00
10693.00	89.56	359.27	7737.41	2188.44	2188.44	-163.96	1.15
10787.00	90.67	0.33	7737.21	2282.44	2282.44	-164.28	1.63
10881.00	91.44	359.26	7735.48	2376.42	2376.42	-164.61	1.40
10976.00	89.50	358.85	7734.70	2471.40	2471.40	-166.17	2.09
11070.00	89.93	0.35	7735.17	2565.40	2565.40	-166.83	1.66
11165.00	89.26	0.64	7735.84	2660.39	2660.39	-166.02	0.77
11259.00	89.87	3.02	7736.56	2754.33	2754.33	-163.02	2.62
11353.00	90.60	2.85	7736.17	2848.21	2848.21	-158.20	0.81
11448.00	91.38	1.07	7734.53	2943.13	2943.13	-154.95	2.04

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
11542.00	90.87	0.96	7732.69	3037.10	3037.10	-153.29	0.55
11637.00	89.16	2.44	7732.66	3132.05	3132.05	-150.47	2.38
11731.00	90.03	2.08	7733.32	3225.97	3225.97	-146.76	1.01
11826.00	90.77	0.80	7732.65	3320.94	3320.94	-144.38	1.55
11920.00	89.97	359.79	7732.05	3414.93	3414.93	-143.90	1.37
12014.00	89.63	358.59	7732.38	3508.92	3508.92	-145.23	1.33
12109.00	90.44	0.68	7732.32	3603.91	3603.91	-145.83	2.36
12203.00	90.71	359.70	7731.38	3697.91	3697.91	-145.52	1.09
12298.00	88.69	358.50	7731.88	3792.89	3792.89	-147.01	2.47
12392.00	88.89	357.17	7733.87	3886.80	3886.80	-150.56	1.43
12486.00	89.73	359.00	7735.00	3980.73	3980.73	-153.70	2.14
12580.00	90.67	357.91	7734.67	4074.70	4074.70	-156.23	1.53
12674.00	89.53	359.49	7734.50	4168.67	4168.67	-158.37	2.07
12769.00	89.83	358.53	7735.03	4263.65	4263.65	-160.00	1.06
12867.00	90.77	357.56	7734.51	4361.59	4361.59	-163.34	1.38

5" = 100' FEET MD