

5" = 100' FEET MD

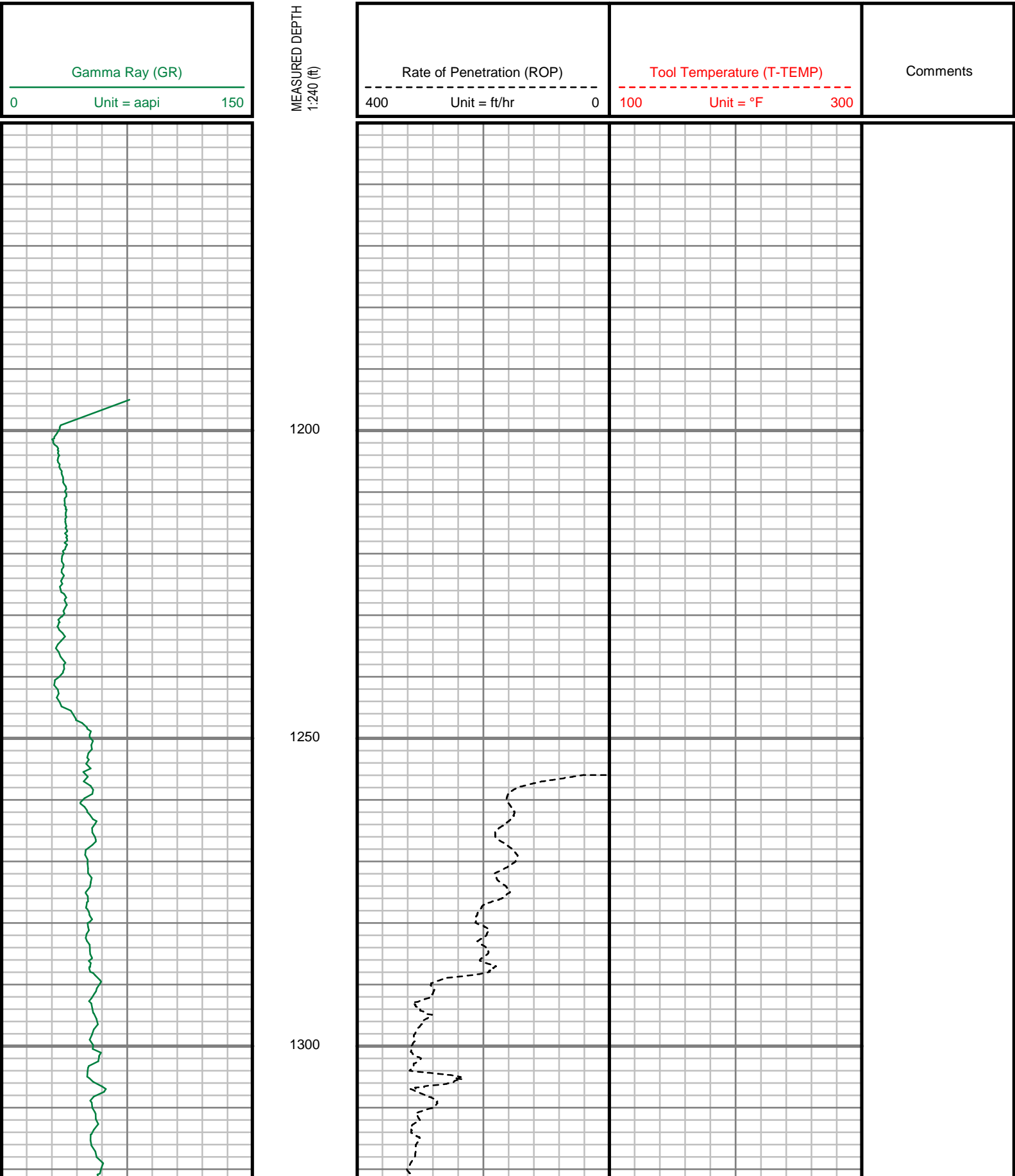
COMPANY : ANADARKO PETROLEUM CORP. WELL : NRC 4C-8HZ FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A UWI : 05-123-38411										COMPANY : ANADARKO PETROLEUM CORP. WELL : NRC 4C-8HZ FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A UWI : 05-123-38411									
WELL LOCATION LAT:40°3'33.624"N LONG:104°55'17.335"W N:1264991.12 ft E:3161931.72 ft SEC:8 TWP:1N RANGE:67W										OTHER SERVICES DIRECTIONAL ROP									
DEPTH REF. : RKB REF. HEIGHT : 25.000 ft GROUND LEVEL : 5049.000 ft										RKB to Ground Level G.L. to MEAN SEA LEVEL									
BOREHOLE RECORD						DEVIATION RECORD													
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg			FROM ft	TO ft												
12.25	0	1127	0-13			0	6989												
8.75	1127	8190	13-90			6989	8190												
6.125	8190	12951																	
CASING RECORD																			
CASING SIZE in	FROM ft	TO ft																	
9.625	0	1127																	
7	0	8190																	
						DRILLING CO.: H&P RIG: 311													
						SPUD DATE: 02/06/2014						DISTRICT: CASPER							
						LMD START DATE: 02/09/2014						DEPTH: 1127 ft							
						LMD END DATE: 2/17/2014						DEPTH: 12951 ft							
						TOTAL DEPTH: 12951 ft													

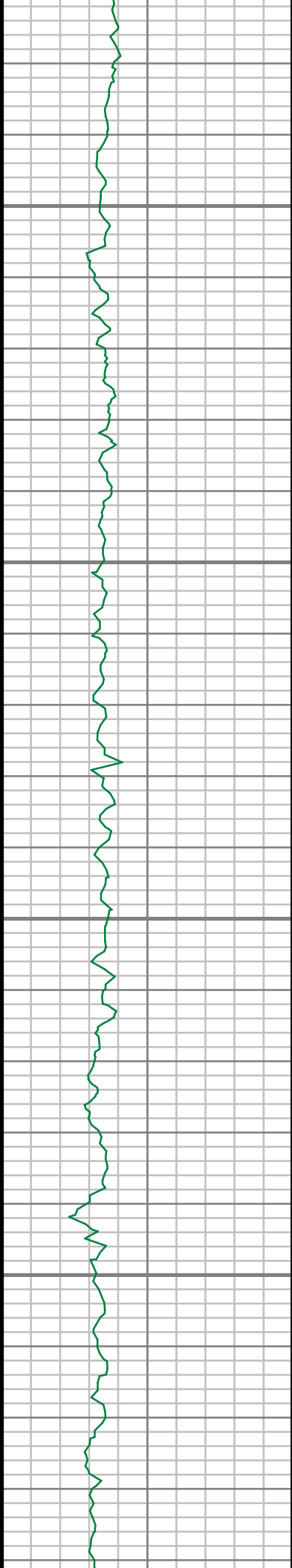
Remarks
ANADARKO PETROLEUM CORP. PRODUCTION AFE# 05-123-38411
SCIENTIFIC DRILLING INTERNATIONAL JOB# 112565
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED 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 = 128-350 / CONT = 277 / MWD EYE = 032 / GAMMA RAY =1075
BIT TO SENSOR OFFSETS: SURVEY = 64.18 FT. / GAMMA RAY = 54.93 FT.
RUN # 2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-244 / CONT = 237 / MWD EYE = 0848 / GAMMA RAY =1083
BIT TO SENSOR OFFSETS: SURVEY = 66.26 FT. / GAMMA RAY = 57.01 FT.
RUN # 3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-244 / CONT = 237 / MWD EYE = 0848 / GAMMA RAY =1083
BIT TO SENSOR OFFSETS: SURVEY = 66.50 FT. / GAMMA RAY = 57.25 FT.
SURVEY WELL NOTES:
SURVEYS FROM 0.0 FT. TO 1127 FT. WERE ACQUIRED BY MS GYRO MWD.
SURVEYS FROM 1127 FT. TO 12951 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

[illegible]

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current price schedule.

ANADARKO PETROLEUM CORP.  
NRC 4C-8HZ  
WATTENBERG FIELD  
WELD COUNTY, COLORADO  
05-123-38411



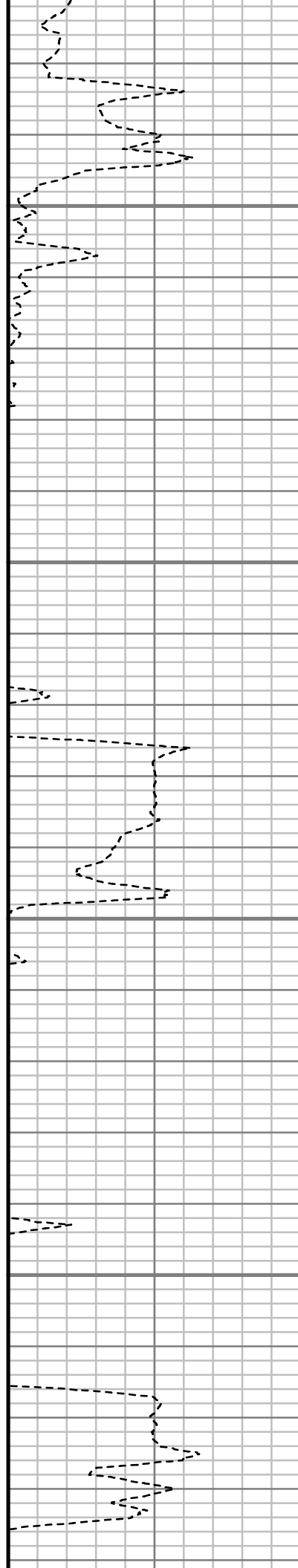


1350

1400

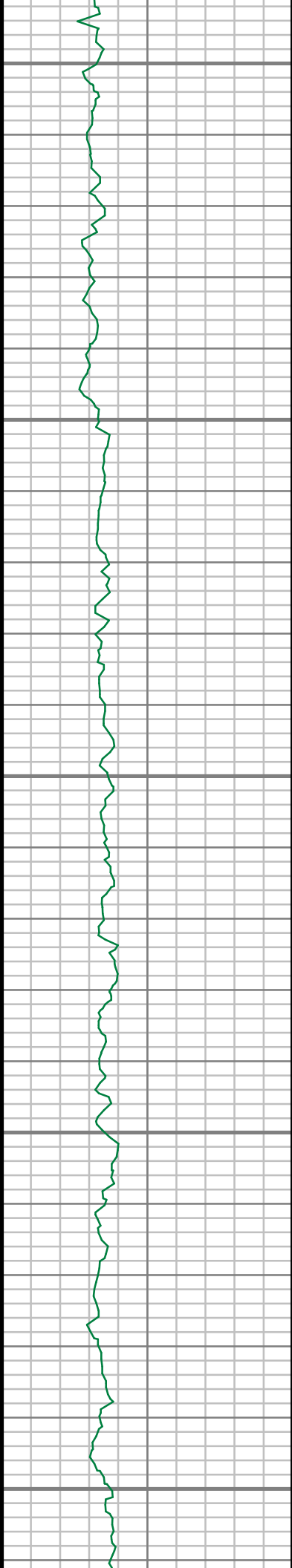
1450

1500



S: 13 MD: 1358.00 ft  
Inc: 1.86 deg Az:  
165.11 deg TVD:  
1357.94 ft

S: 14 MD: 1449.00 ft  
Inc: 4.56 deg Az:  
170.58 deg TVD:  
1448.79 ft



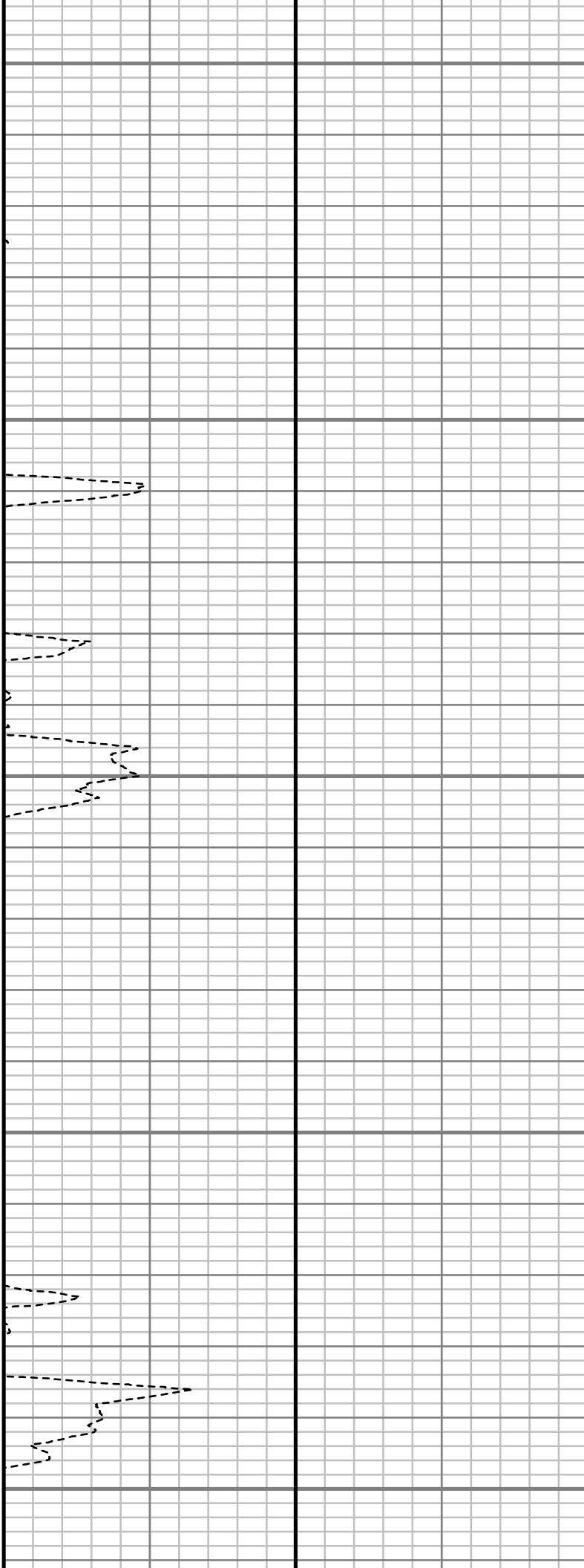
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1600

1650

1700

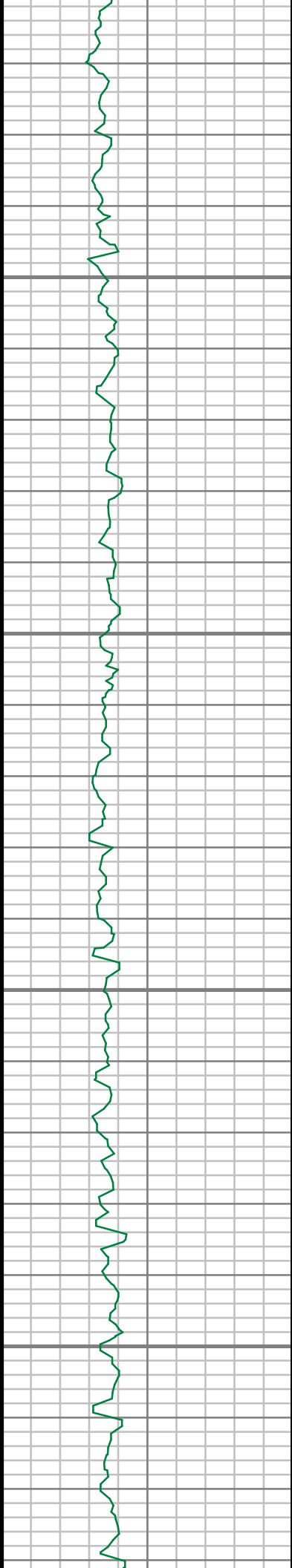
1750



S: 15 MD: 1563.00 ft  
Inc: 6.78 deg Az:  
171.48 deg TVD:  
1562.22 ft

S: 16 MD: 1654.00 ft  
Inc: 7.25 deg Az:  
172.02 deg TVD:  
1652.54 ft

S: 17 MD: 1745.00 ft  
Inc: 8.91 deg Az:  
169.67 deg TVD:  
1742.64 ft

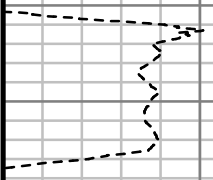


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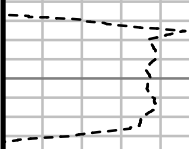
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1900

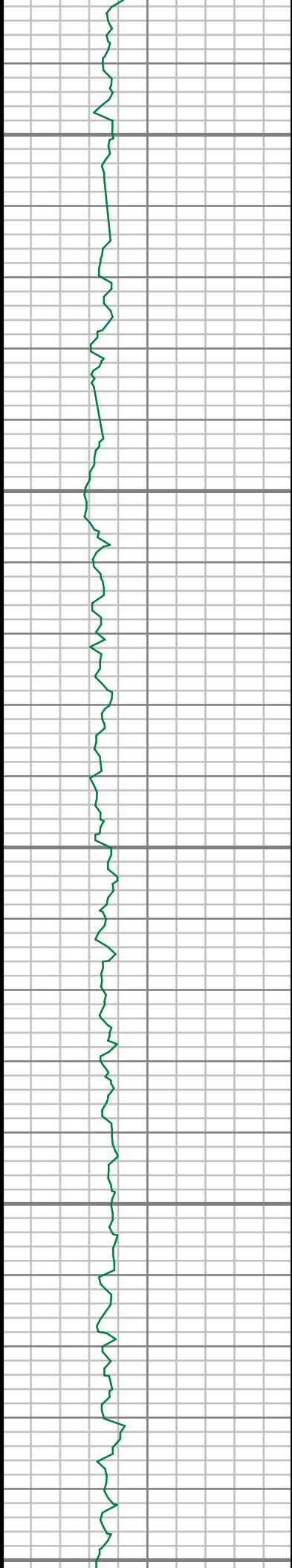
1950



S: 18 MD: 1837.00 ft  
Inc: 9.41 deg Az:  
166.82 deg TVD:  
1833.47 ft



S: 19 MD: 1929.00 ft  
Inc: 8.87 deg Az:  
162.71 deg TVD:  
1924.30 ft



2000

2050

2100

2150

2200

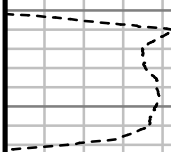


S: 20 MD: 2020.00 ft  
Inc: 8.50 deg Az:  
159.17 deg TVD:  
2014.25 ft

S: 21 MD: 2111.00 ft  
Inc: 8.49 deg Az:  
159.58 deg TVD:  
2104.26 ft

S: 22 MD: 2203.00 ft  
Inc: 8.19 deg Az:  
158.84 deg TVD:  
2195.28 ft

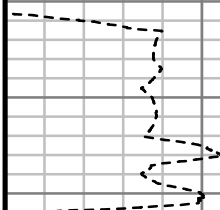
2250



2300

S: 23 MD: 2295.00 ft  
Inc: 7.49 deg Az:  
156.30 deg TVD:  
2286.42 ft

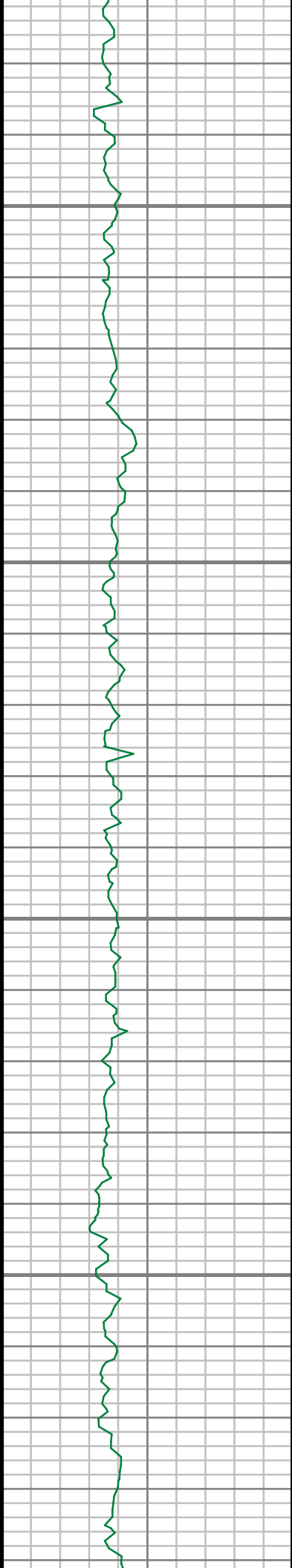
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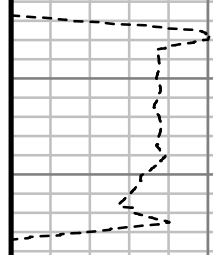
2400

S: 24 MD: 2386.00 ft  
Inc: 7.51 deg Az:  
158.71 deg TVD:  
2376.64 ft



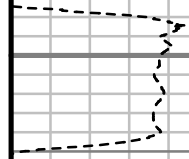


2450



S: 25 MD: 2478.00 ft  
Inc: 8.51 deg Az:  
164.30 deg TVD:  
2467.75 ft

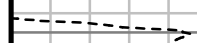
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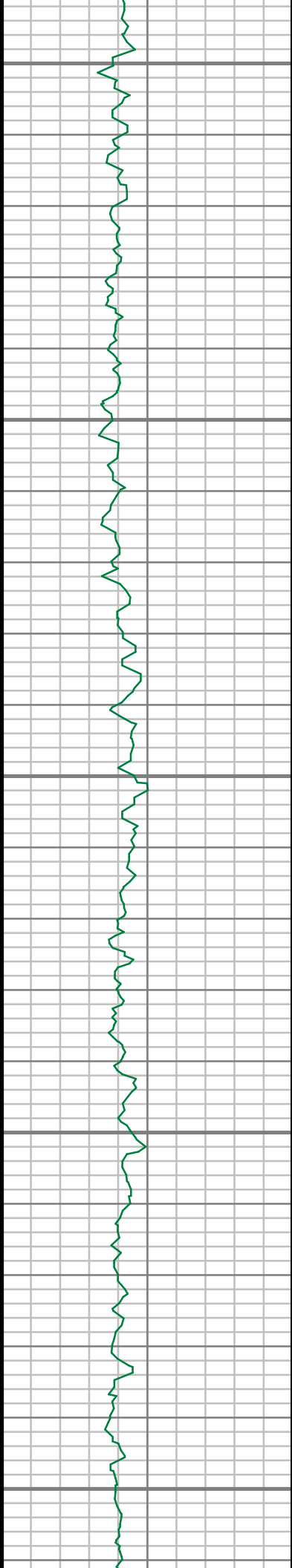


2550

S: 26 MD: 2570.00 ft  
Inc: 8.05 deg Az:  
163.58 deg TVD:  
2558.79 ft

2600





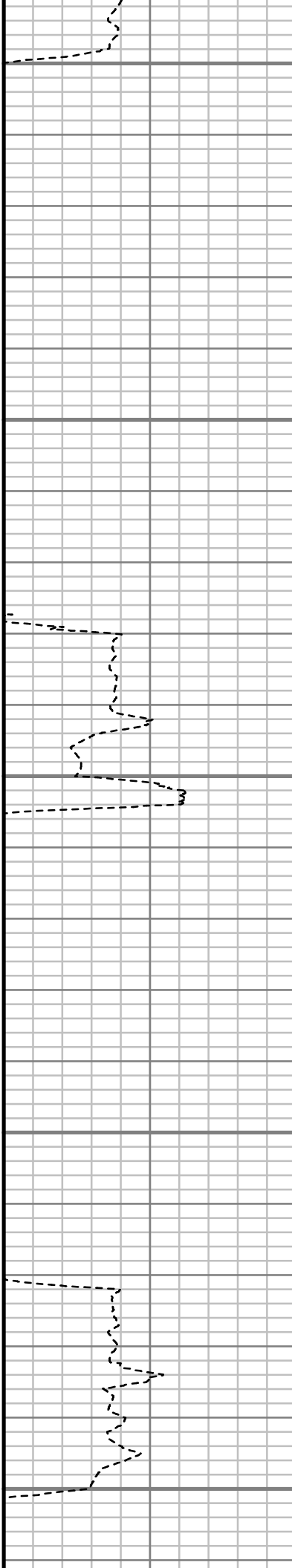
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2700

2750

2800

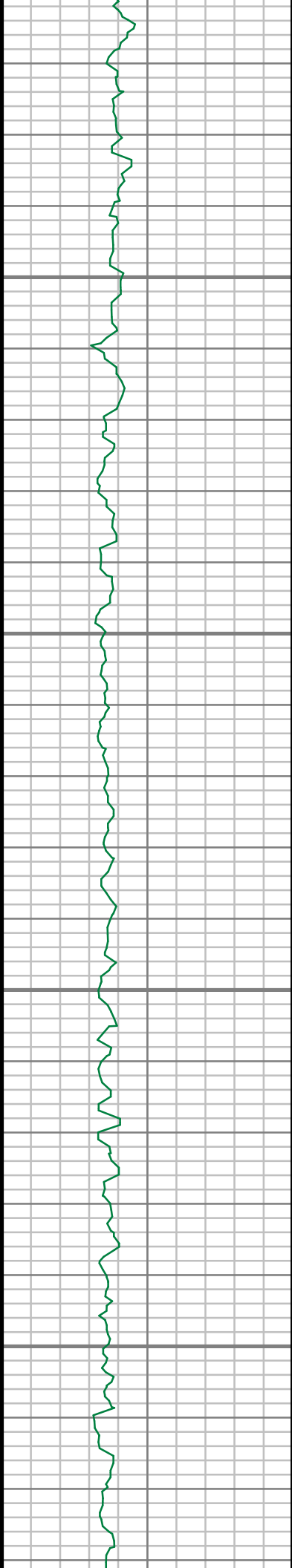
2850



S: 27 MD: 2662.00 ft  
Inc: 7.20 deg Az:  
164.26 deg TVD:  
2649.97 ft

S: 28 MD: 2754.00 ft  
Inc: 7.93 deg Az:  
162.68 deg TVD:  
2741.17 ft

S: 29 MD: 2845.00 ft  
Inc: 8.84 deg Az:  
165.44 deg TVD:  
2831.20 ft

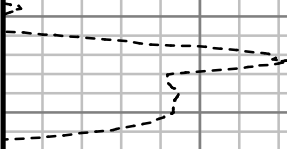


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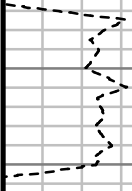
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3000

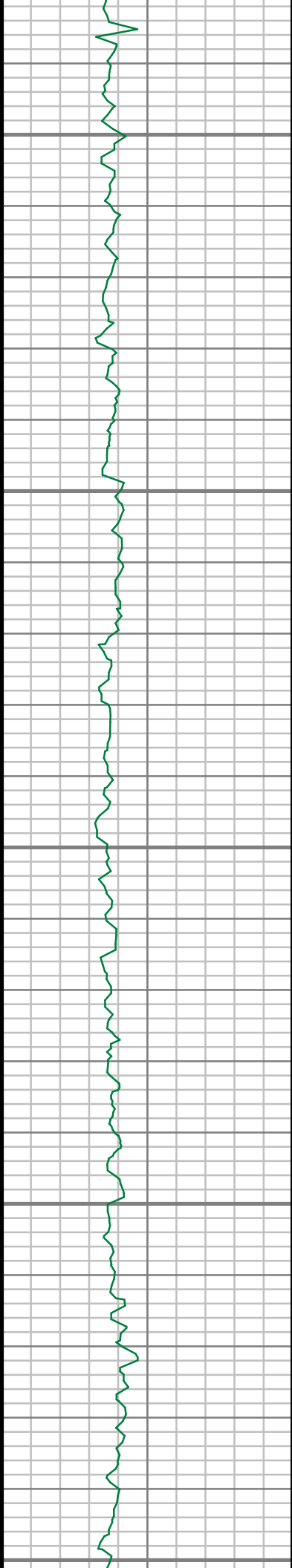
3050



S: 30 MD: 2937.00 ft  
Inc: 9.96 deg Az:  
163.44 deg TVD:  
2921.96 ft



S: 31 MD: 3028.00 ft  
Inc: 9.65 deg Az:  
163.07 deg TVD:  
3011.64 ft



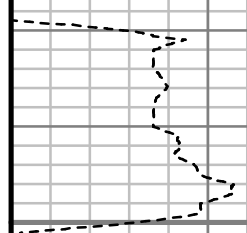
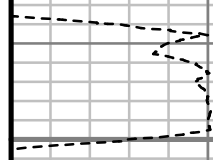
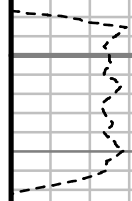
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3150

3200

3250

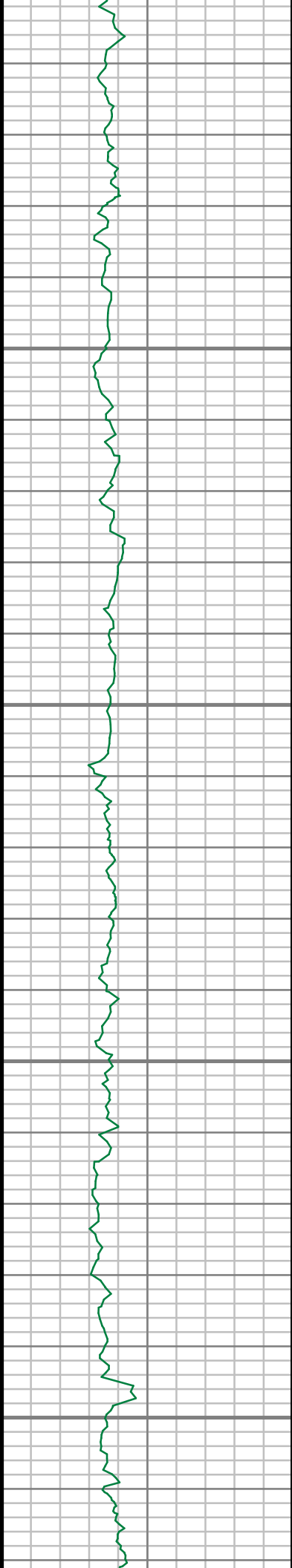
3300



S: 32 MD: 3120.00 ft  
Inc: 9.03 deg Az:  
163.70 deg TVD:  
3102.42 ft

S: 33 MD: 3211.00 ft  
Inc: 8.40 deg Az:  
167.96 deg TVD:  
3192.37 ft



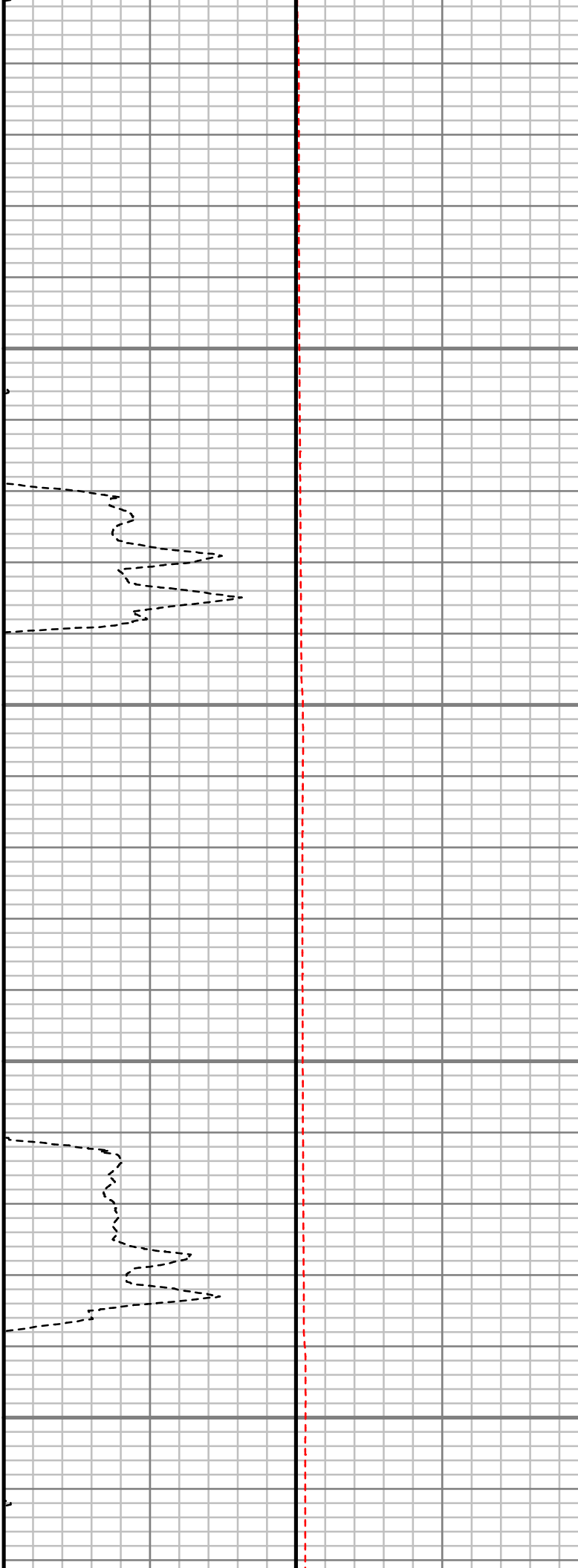


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3400

3450

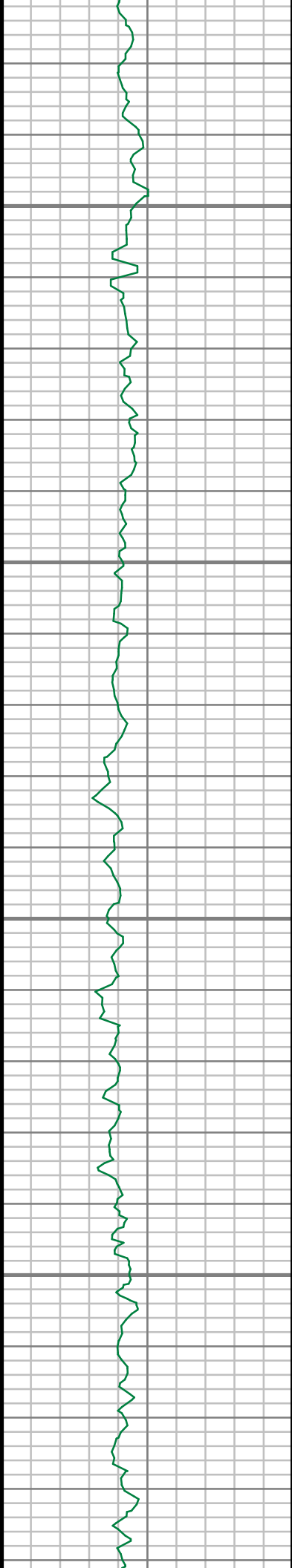
3500



S: 34 MD: 3304.00 ft  
Inc: 8.82 deg Az:  
163.03 deg TVD:  
3284.32 ft

S: 35 MD: 3395.00 ft  
Inc: 9.75 deg Az:  
157.72 deg TVD:  
3374.13 ft

S: 36 MD: 3487.00 ft  
Inc: 9.76 deg Az:  
161.98 deg TVD:  
3464.80 ft

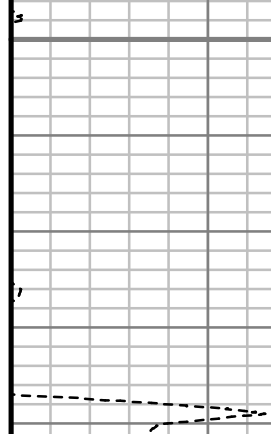
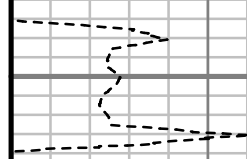
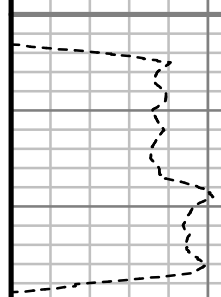


3550

3600

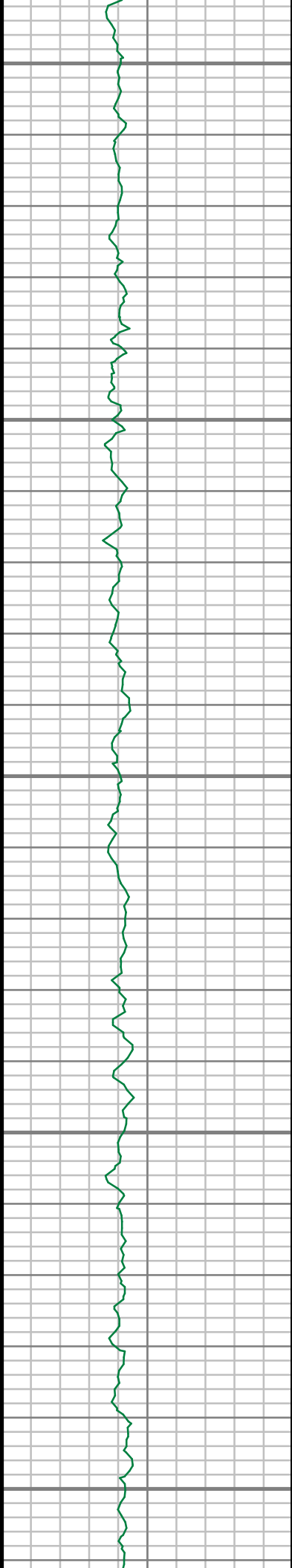
3650

3700



S: 37 MD: 3578.00 ft  
Inc: 10.46 deg Az:  
161.99 deg TVD:  
3554.38 ft

S: 38 MD: 3669.00 ft  
Inc: 9.77 deg Az:  
162.18 deg TVD:  
3643.97 ft



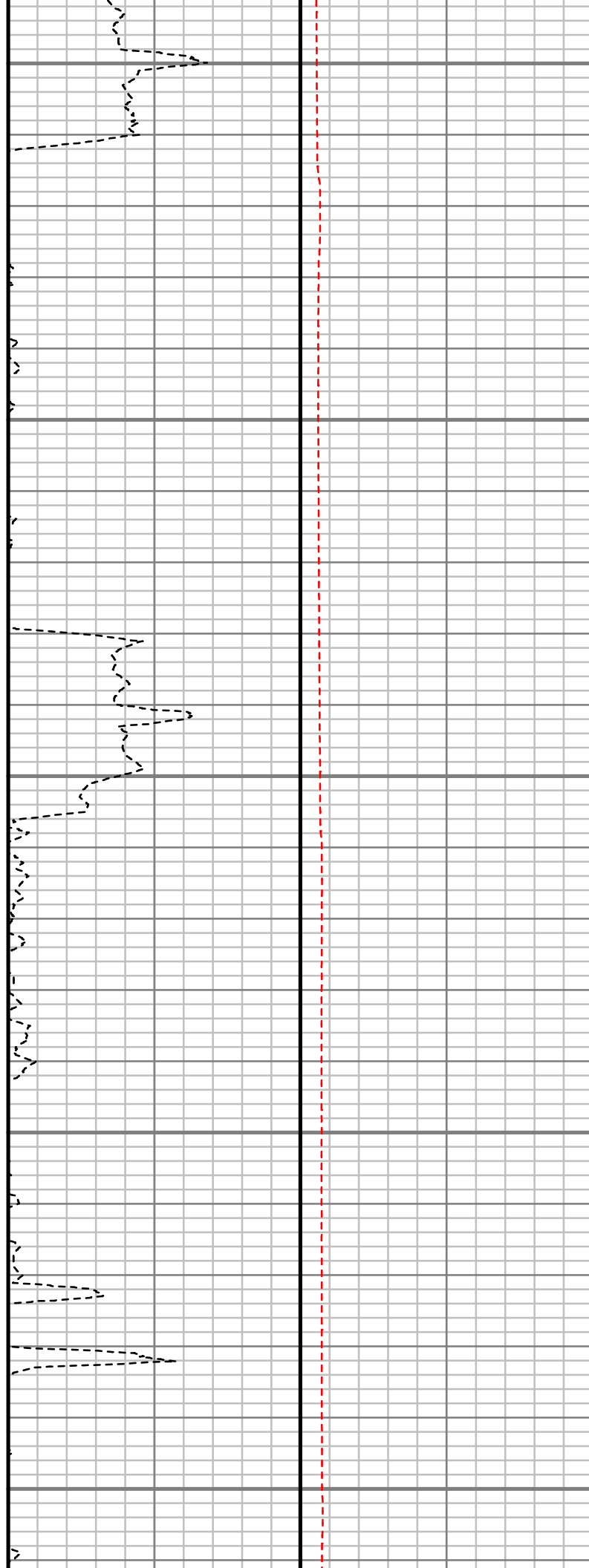
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3800

3850

3900

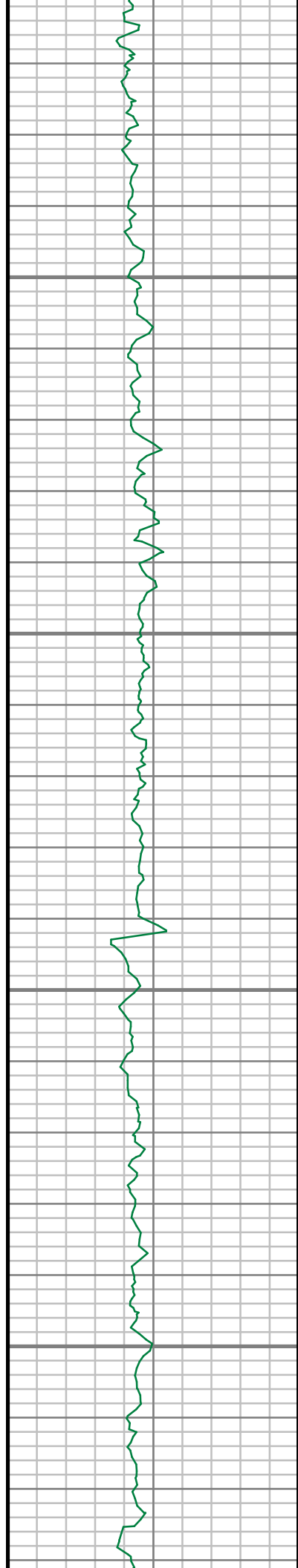
3950



S: 39 MD: 3761.00 ft  
Inc: 10.04 deg Az:  
162.87 deg TVD:  
3734.60 ft

S: 40 MD: 3853.00 ft  
Inc: 10.75 deg Az:  
161.56 deg TVD:  
3825.09 ft

S: 41 MD: 3945.00 ft  
Inc: 9.37 deg Az:  
162.34 deg TVD:  
3915.67 ft

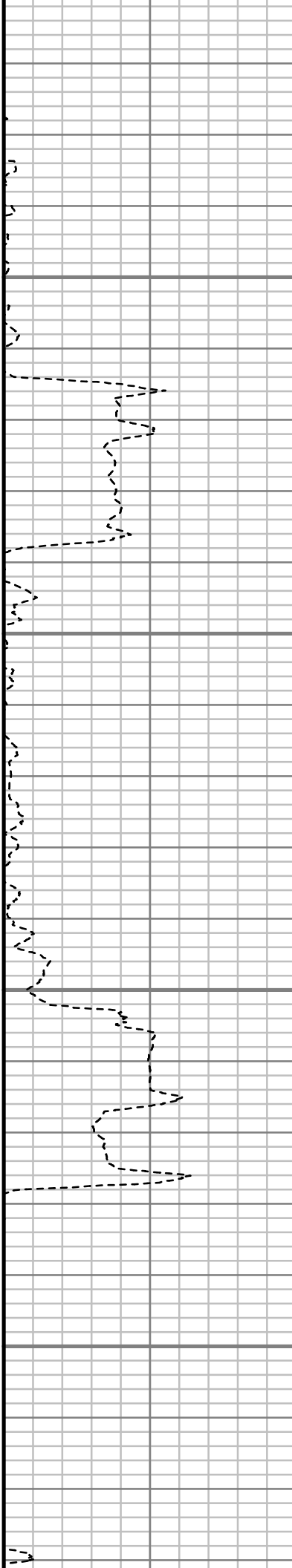


4000

4050

4100

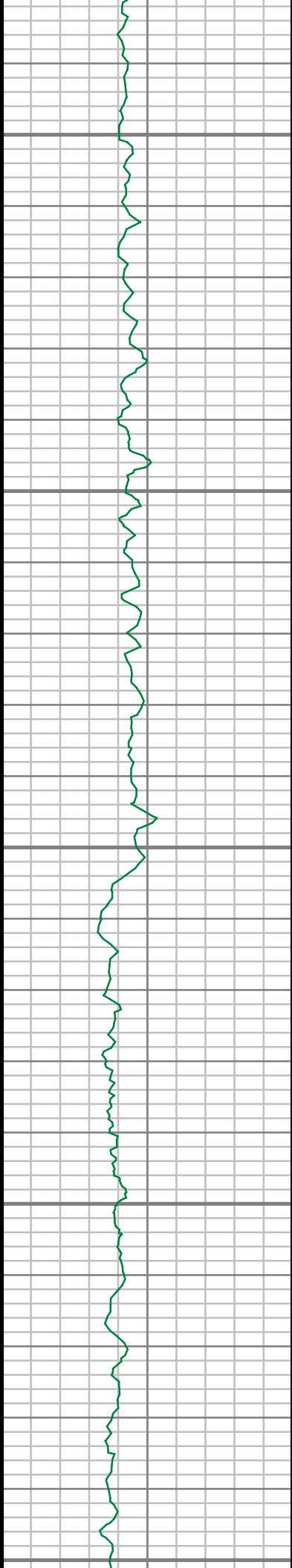
4150



S: 42 MD: 4036.00 ft  
Inc: 9.68 deg Az:  
162.09 deg TVD:  
4005.42 ft

S: 43 MD: 4128.00 ft  
Inc: 10.52 deg Az:  
162.35 deg TVD:  
4095.99 ft





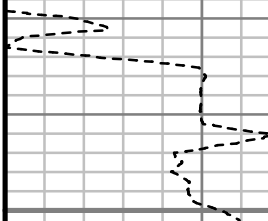
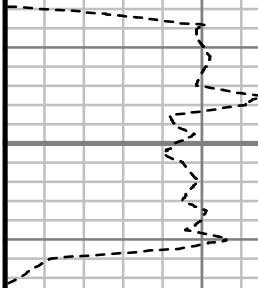
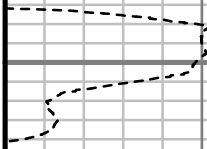
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4250

4300

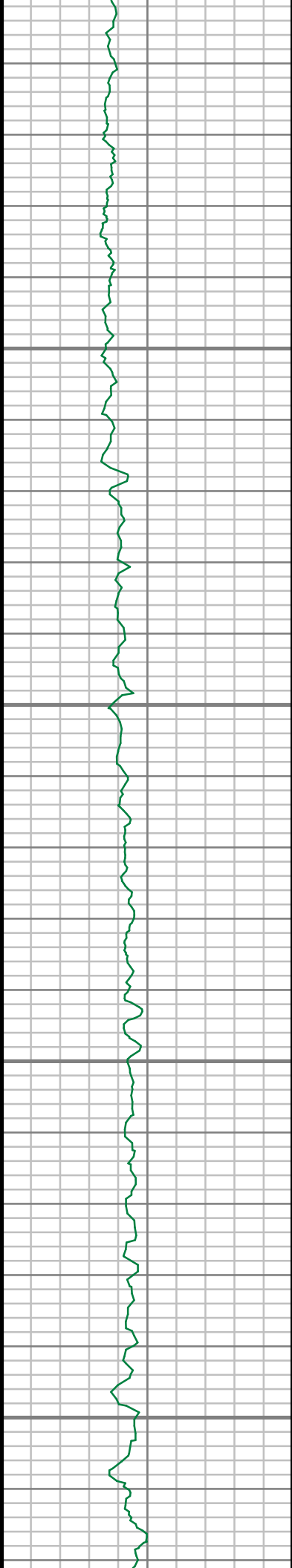
4350

4400



S: 44 MD: 4219.00 ft  
Inc: 9.00 deg Az:  
158.07 deg TVD:  
4185.67 ft

S: 45 MD: 4313.00 ft  
Inc: 9.45 deg Az:  
167.32 deg TVD:  
4278.46 ft



4450

4500

4550

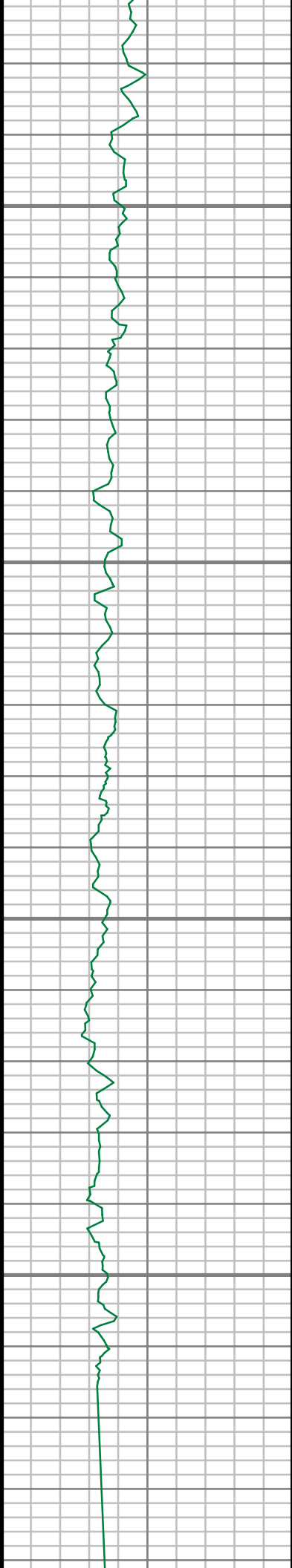
4600



S: 46 MD: 4407.00 ft  
Inc: 12.13 deg Az:  
170.63 deg TVD:  
4370.79 ft

S: 47 MD: 4502.00 ft  
Inc: 13.96 deg Az:  
169.07 deg TVD:  
4463.34 ft

S: 48 MD: 4596.00 ft  
Inc: 12.24 deg Az:  
160.99 deg TVD:  
4554.90 ft

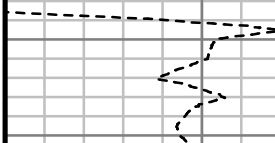
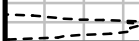
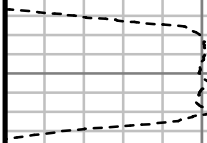


4650

4700

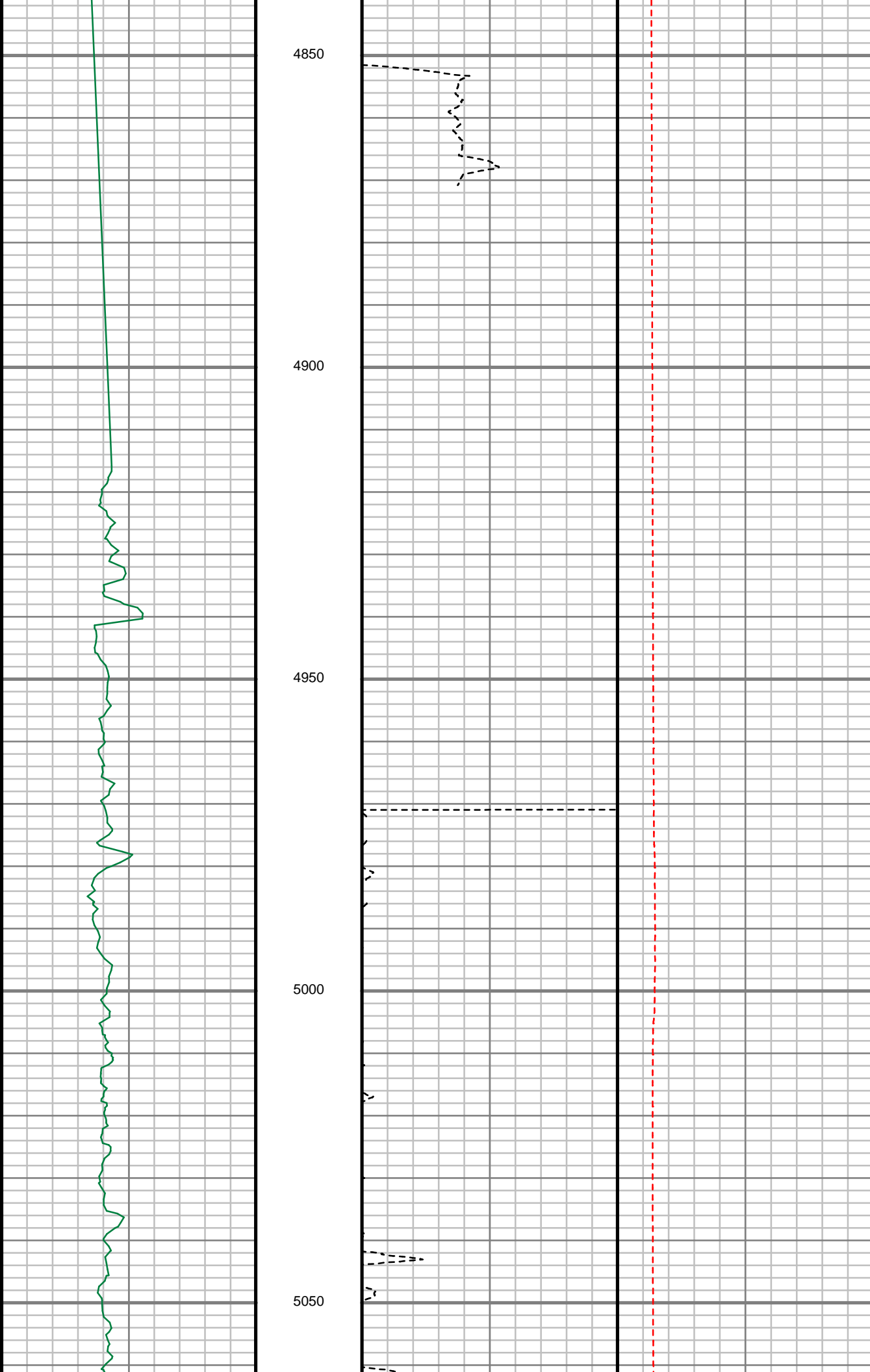
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4800



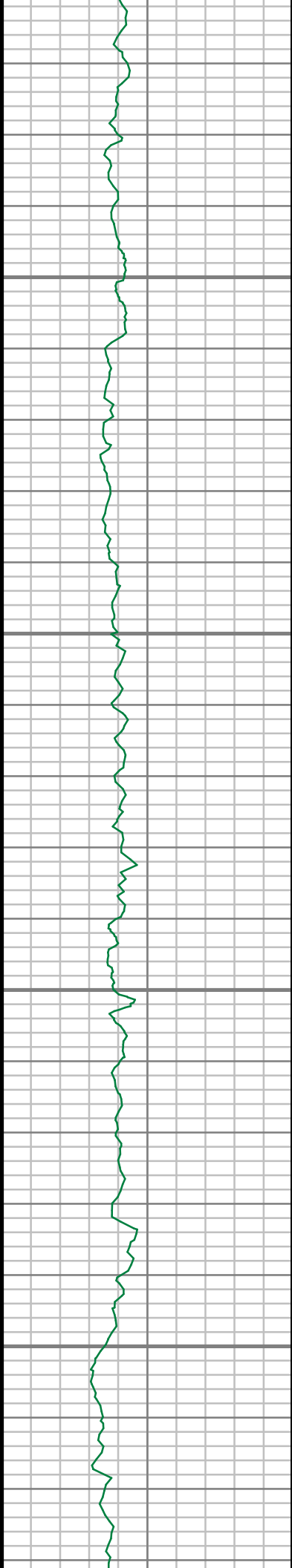
S: 49 MD: 4691.00 ft  
Inc: 10.07 deg Az:  
154.82 deg TVD:  
4648.10 ft

S: 50 MD: 4785.00 ft  
Inc: 10.25 deg Az:  
159.12 deg TVD:  
4740.63 ft



S: 51 MD: 4879.00 ft  
Inc: 12.82 deg Az:  
165.51 deg TVD:  
4832.72 ft

S: 52 MD: 4973.00 ft  
Inc: 12.87 deg Az:  
168.40 deg TVD:  
4924.37 ft

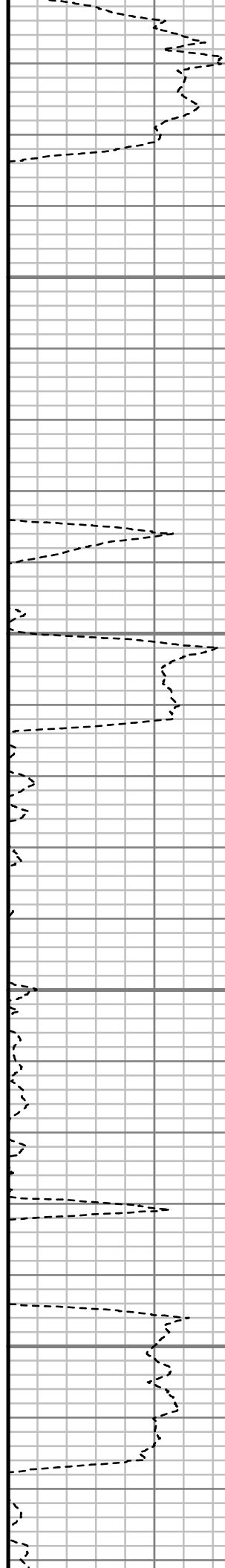


5100

5150

5200

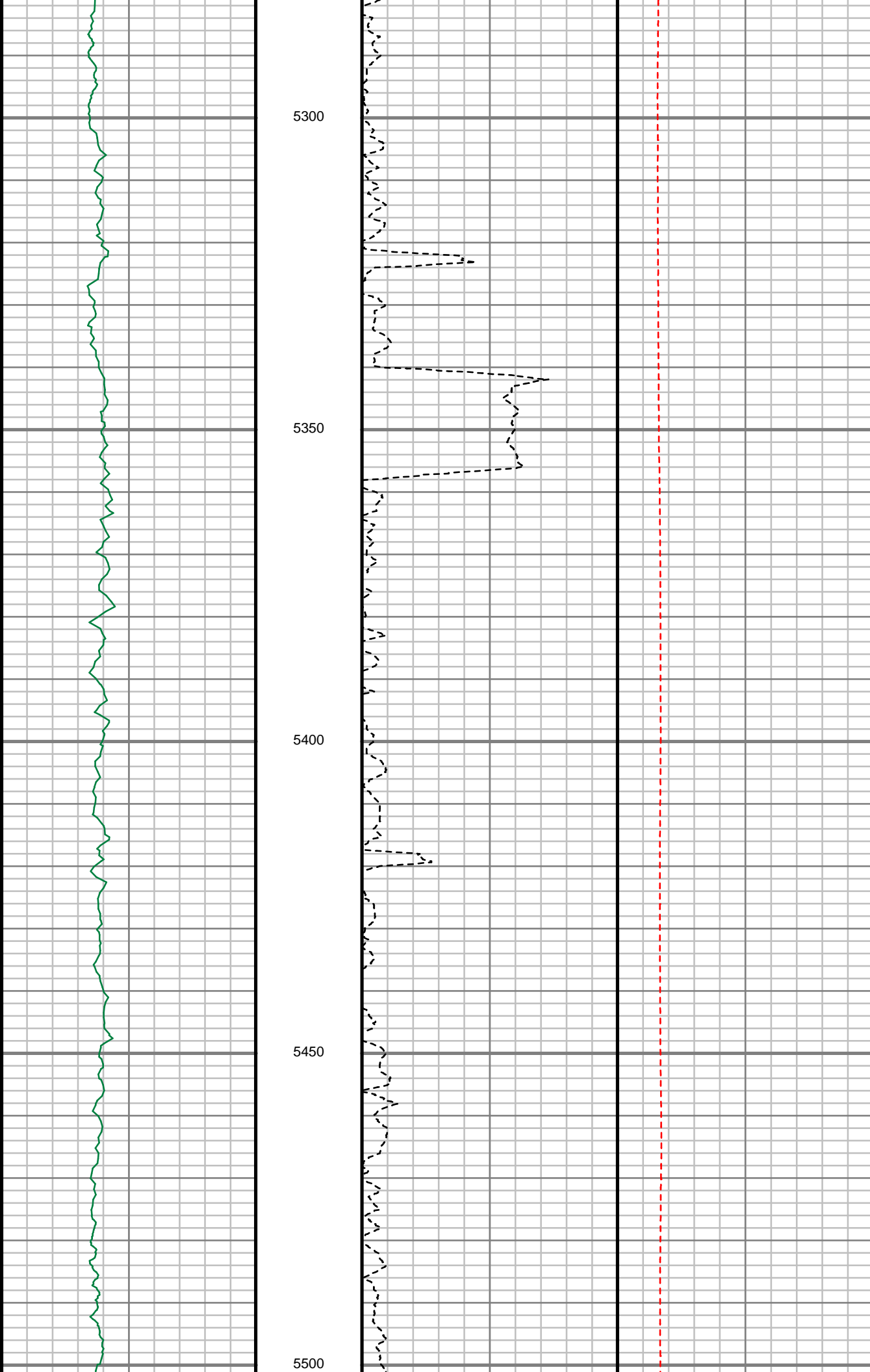
5250



S: 53 MD: 5068.00 ft  
Inc: 10.63 deg Az:  
165.11 deg TVD:  
5017.38 ft

S: 54 MD: 5162.00 ft  
Inc: 11.11 deg Az:  
164.75 deg TVD:  
5109.69 ft

S: 55 MD: 5257.00 ft  
Inc: 10.19 deg Az:  
162.28 deg TVD:  
5203.05 ft



5300

5350

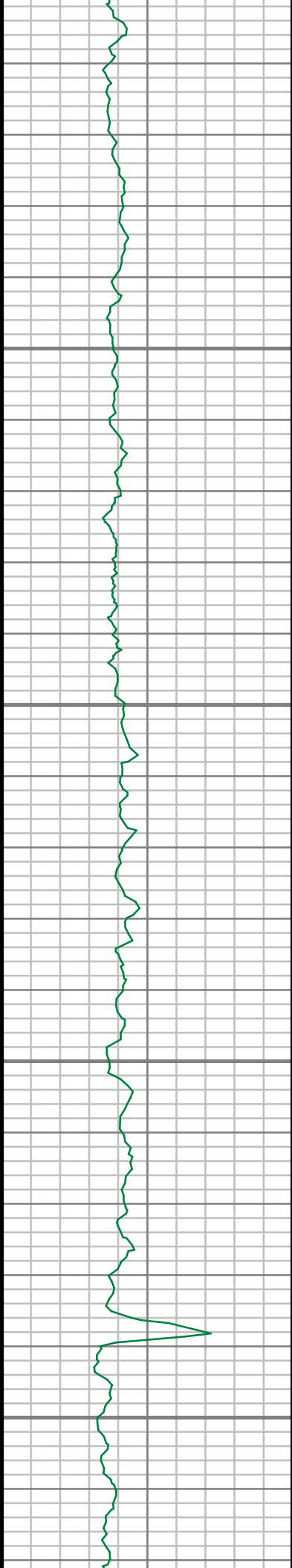
5400

5450

5500

S: 56 MD: 5351.00 ft  
Inc: 12.41 deg Az:  
157.61 deg TVD:  
5295.23 ft

S: 57 MD: 5446.00 ft  
Inc: 11.21 deg Az:  
155.92 deg TVD:  
5388.21 ft

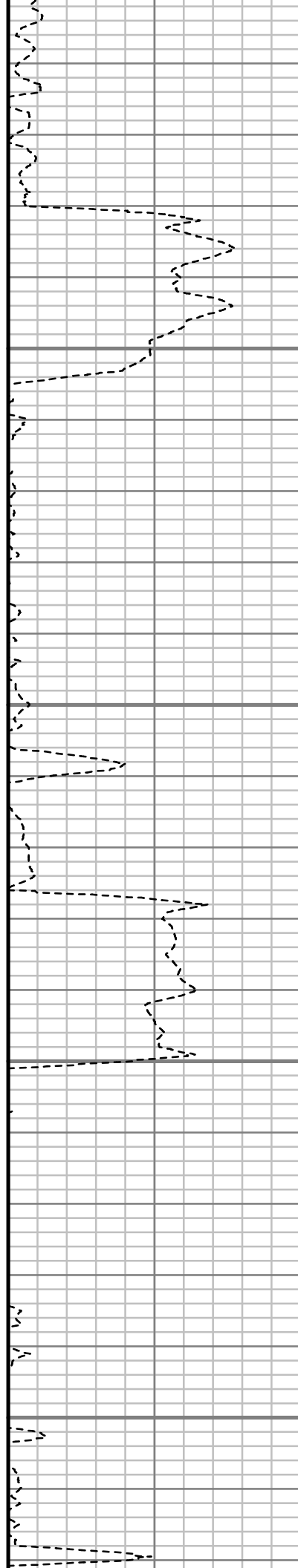


5550

5600

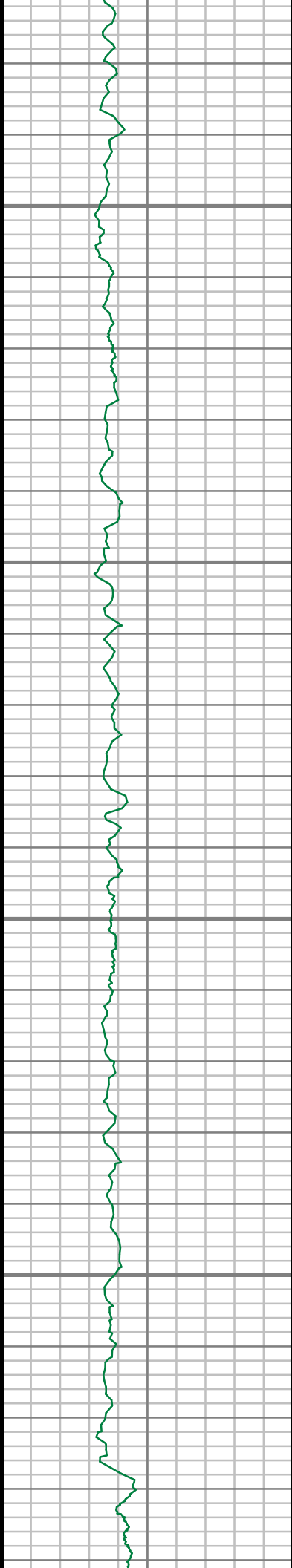
5650

5700



S: 58 MD: 5540.00 ft  
Inc: 11.05 deg Az:  
153.98 deg TVD:  
5480.44 ft

S: 59 MD: 5634.00 ft  
Inc: 11.67 deg Az:  
159.43 deg TVD:  
5572.60 ft

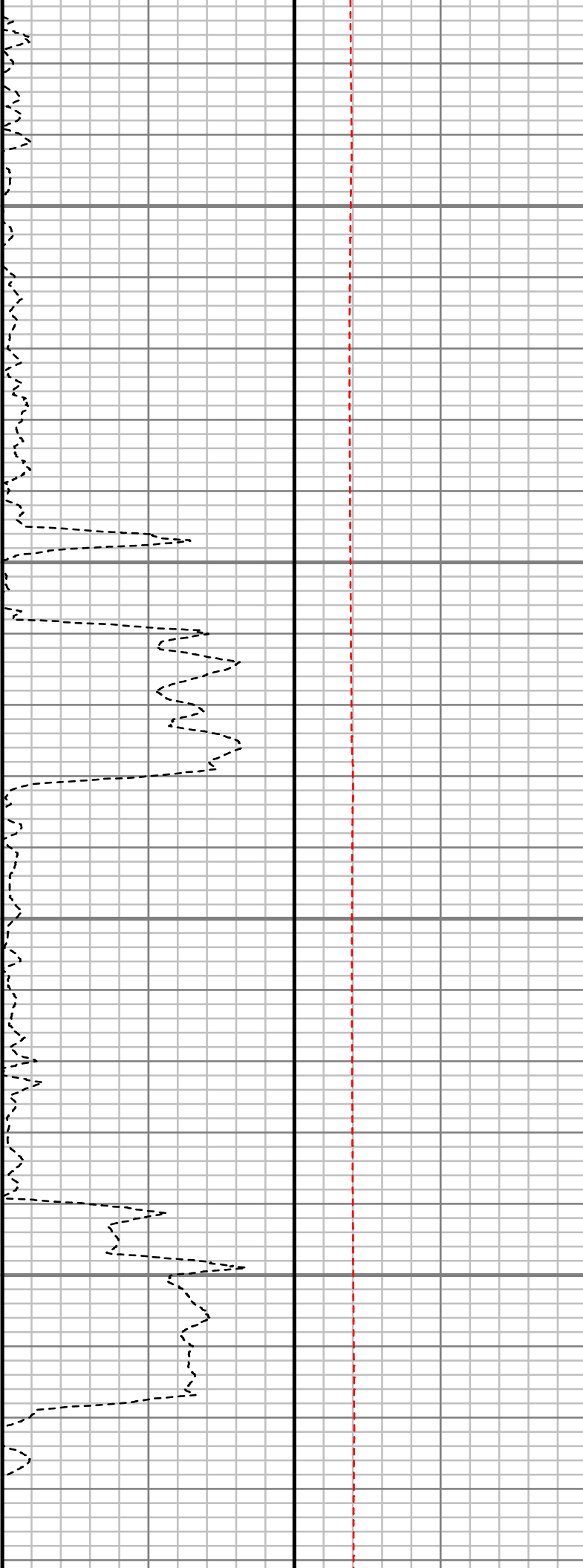


5750

5800

5850

5900

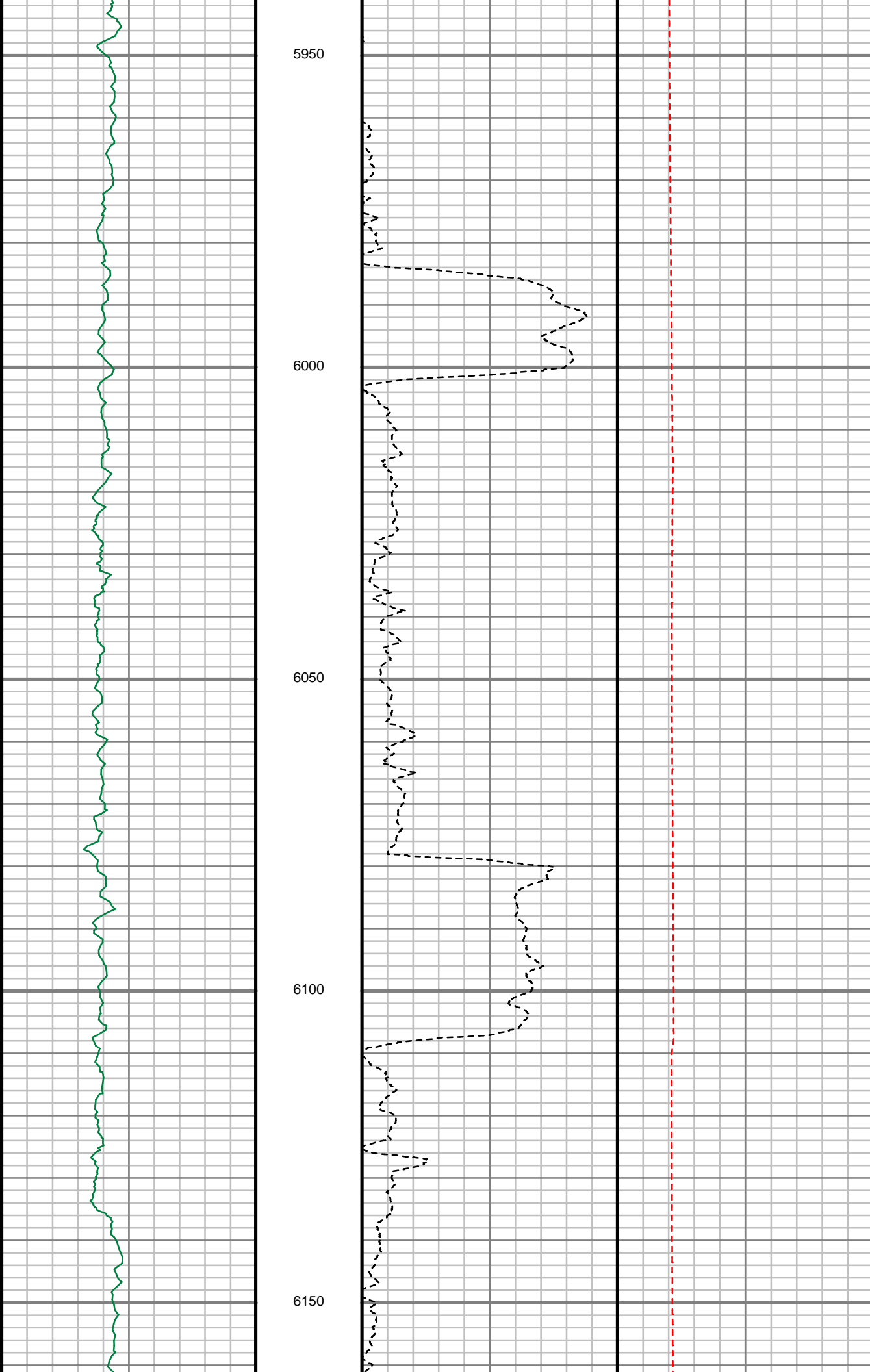


S: 60 MD: 5729.00 ft  
Inc: 10.55 deg Az:  
165.15 deg TVD:  
5665.82 ft

S: 61 MD: 5823.00 ft  
Inc: 10.09 deg Az:  
166.06 deg TVD:  
5758.30 ft

S: 62 MD: 5917.00 ft  
Inc: 10.30 deg Az:  
161.29 deg TVD:  
5850.82 ft





5950

6000

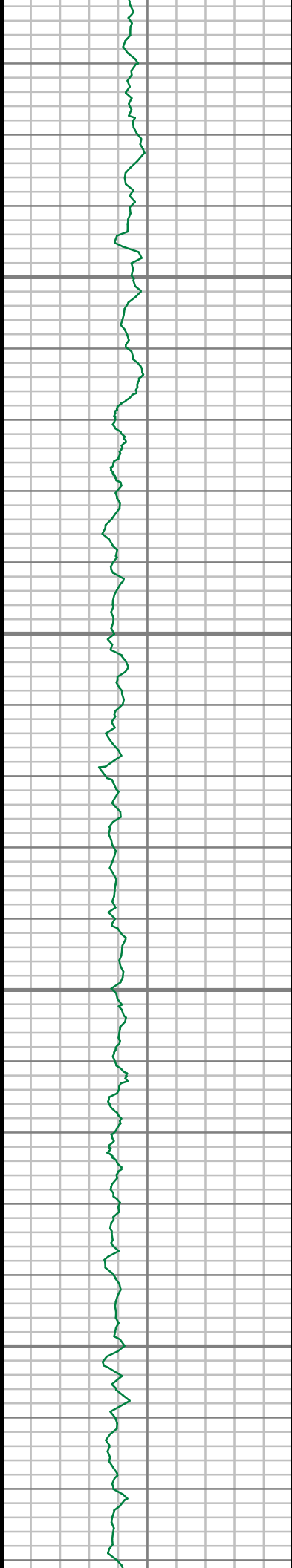
6050

6100

6150

S: 63 MD: 6012.00 ft  
Inc: 9.76 deg Az:  
153.86 deg TVD:  
5944.37 ft

S: 64 MD: 6106.00 ft  
Inc: 11.62 deg Az:  
158.63 deg TVD:  
6036.74 ft

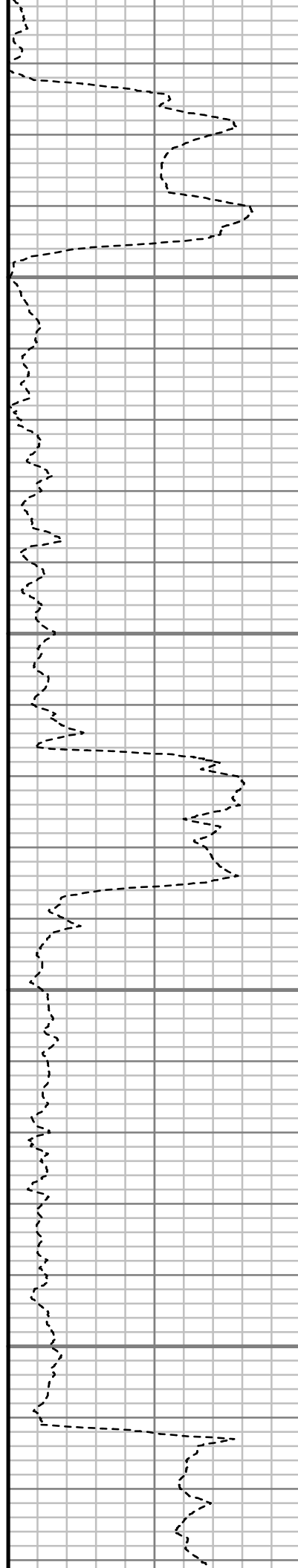


6200

6250

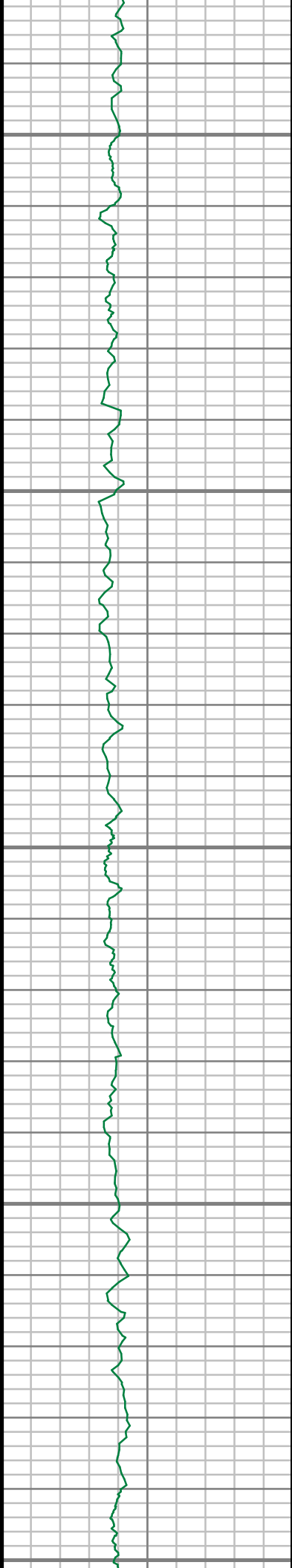
6300

6350



S: 65 MD: 6200.00 ft  
Inc: 11.07 deg Az:  
159.09 deg TVD:  
6128.90 ft

S: 66 MD: 6295.00 ft  
Inc: 10.77 deg Az:  
160.90 deg TVD:  
6222.18 ft



6400

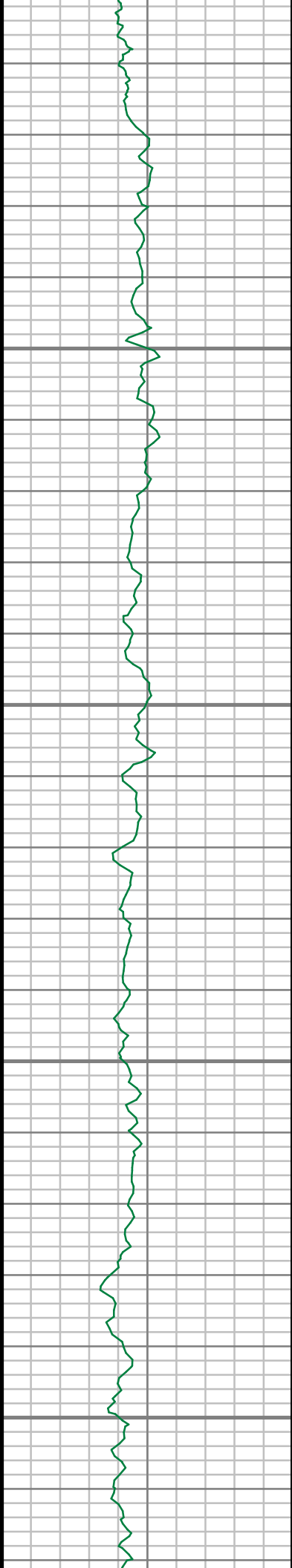
6450

6500

6550

6600



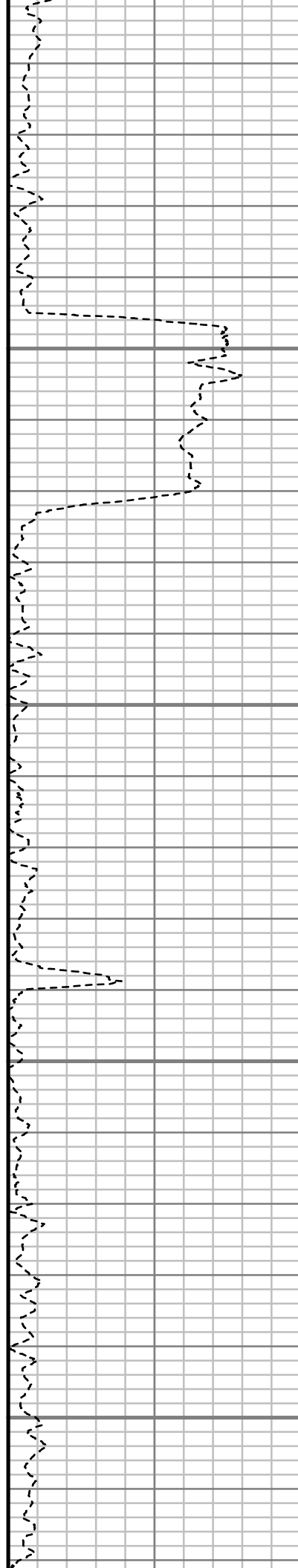


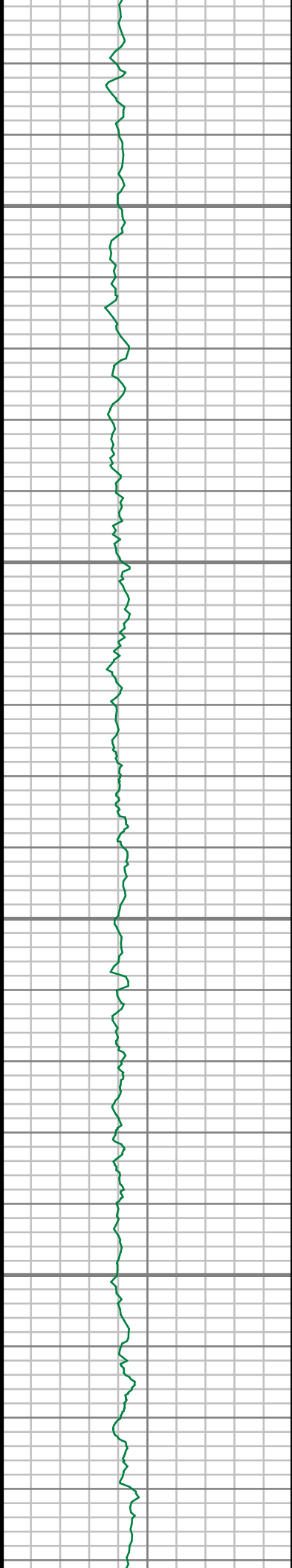
6650

6700

6750

6800



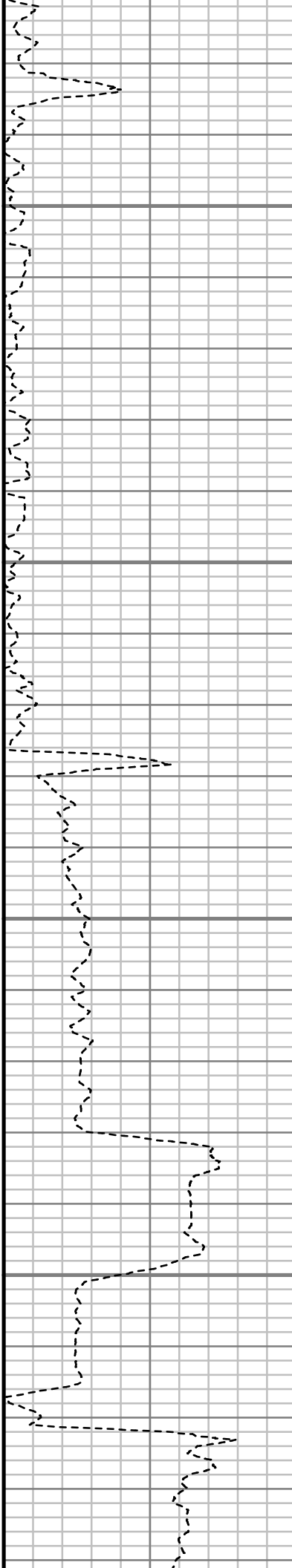


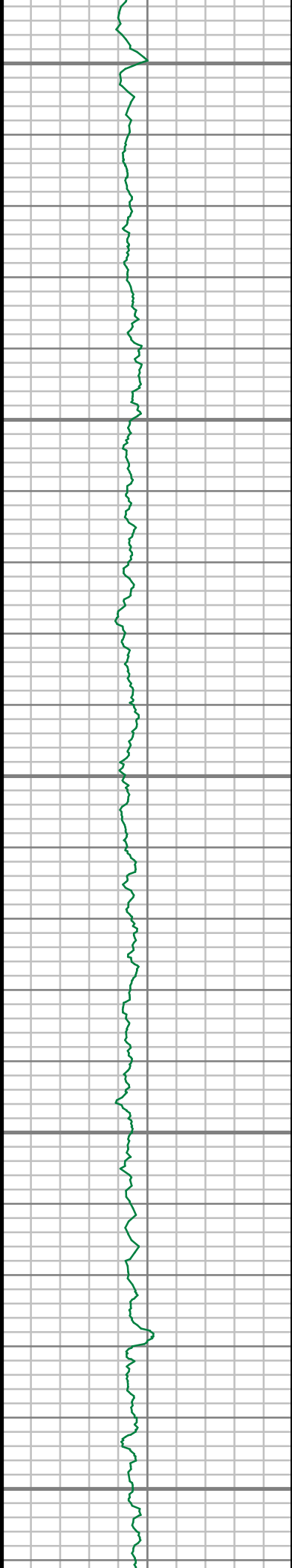
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6900

6950

7000





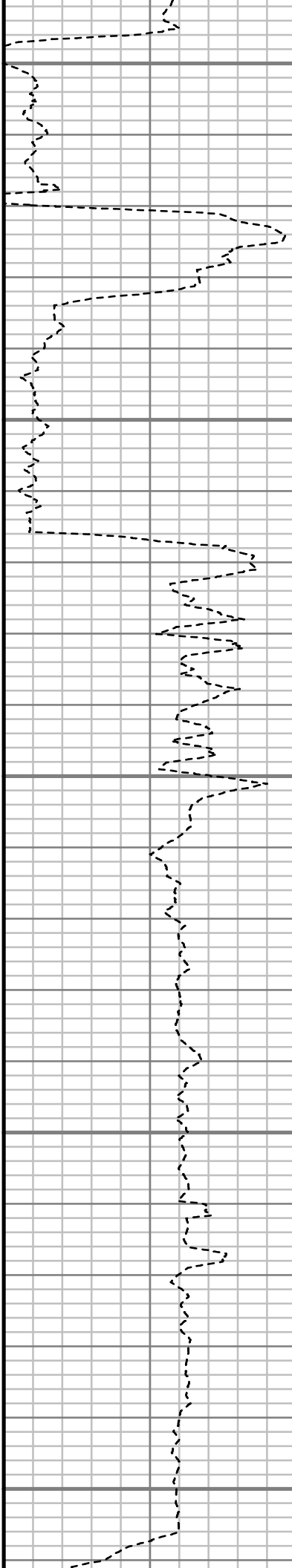
7050

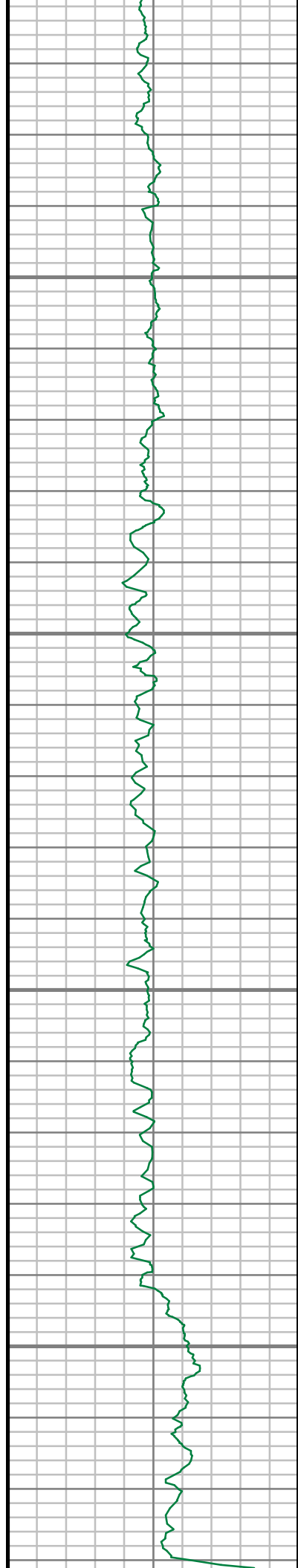
7100

7150

7200

7250



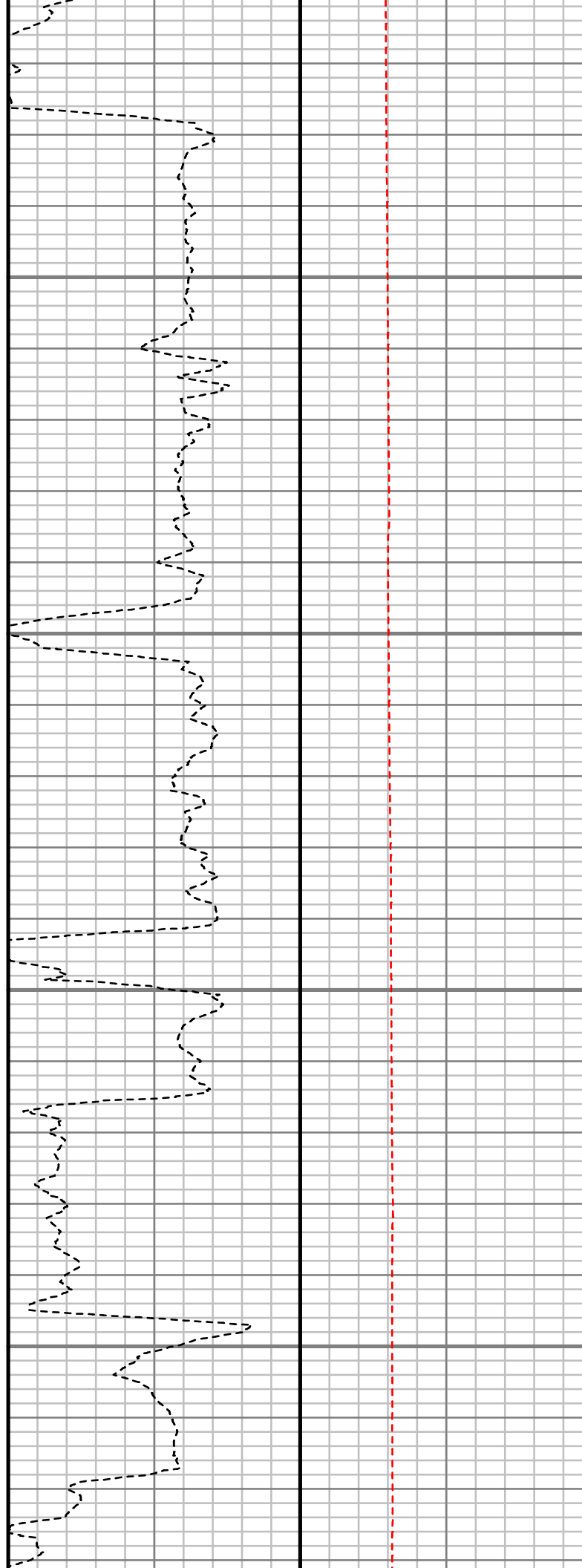


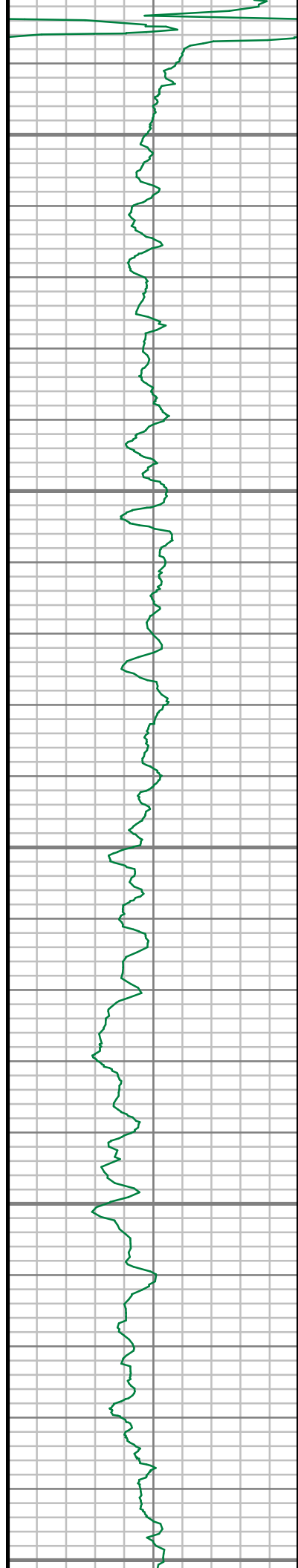
7300

7350

7400

7450





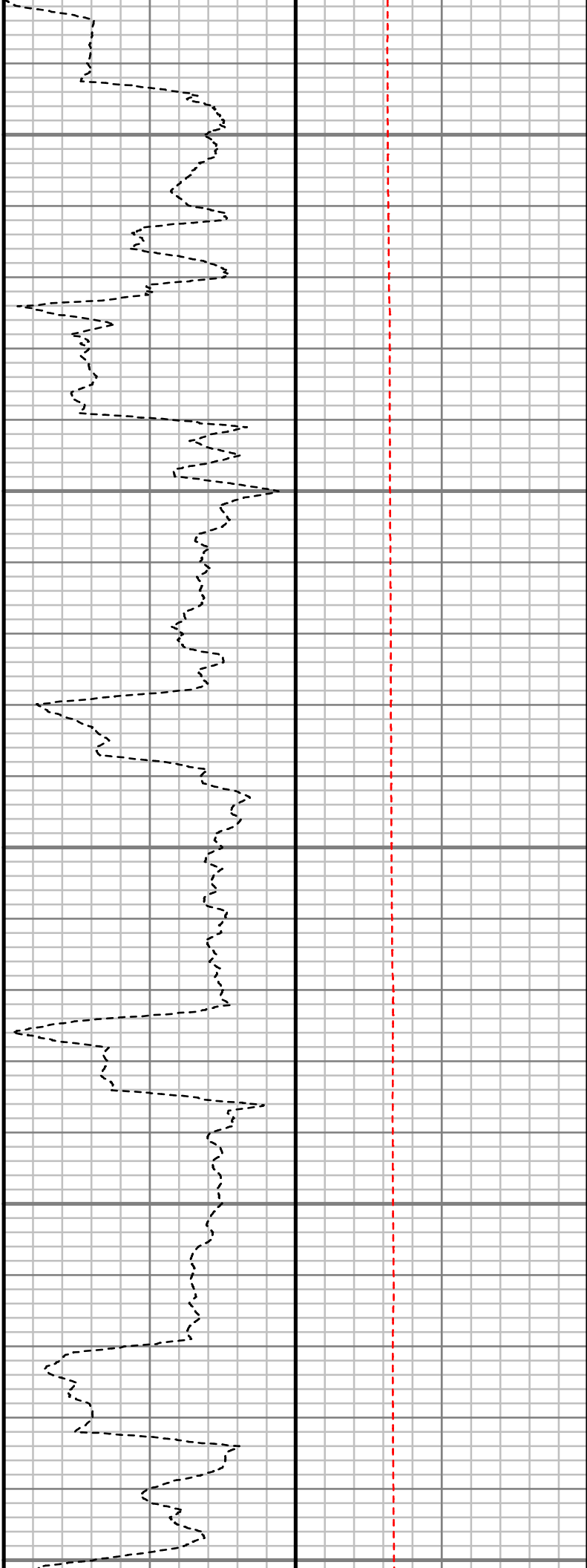
7500

7550

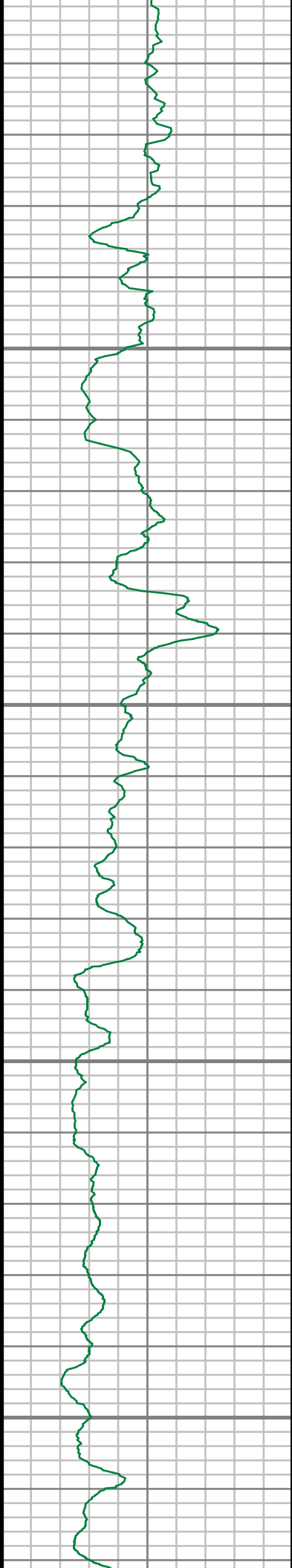
7600

7650

7700





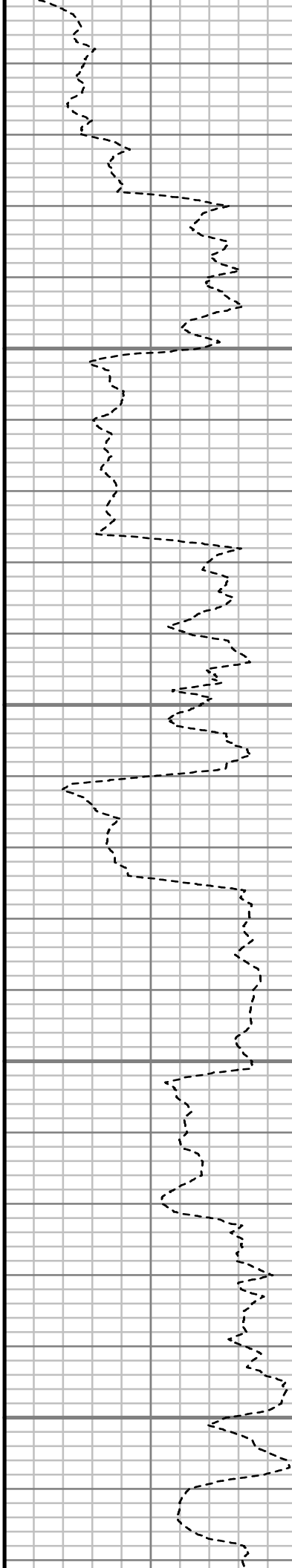


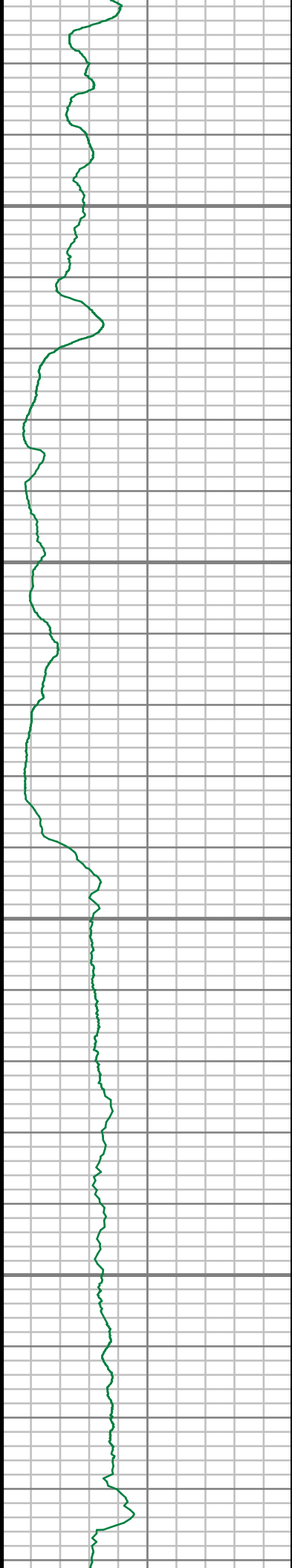
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7800

7850

7900



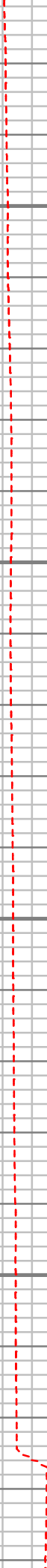
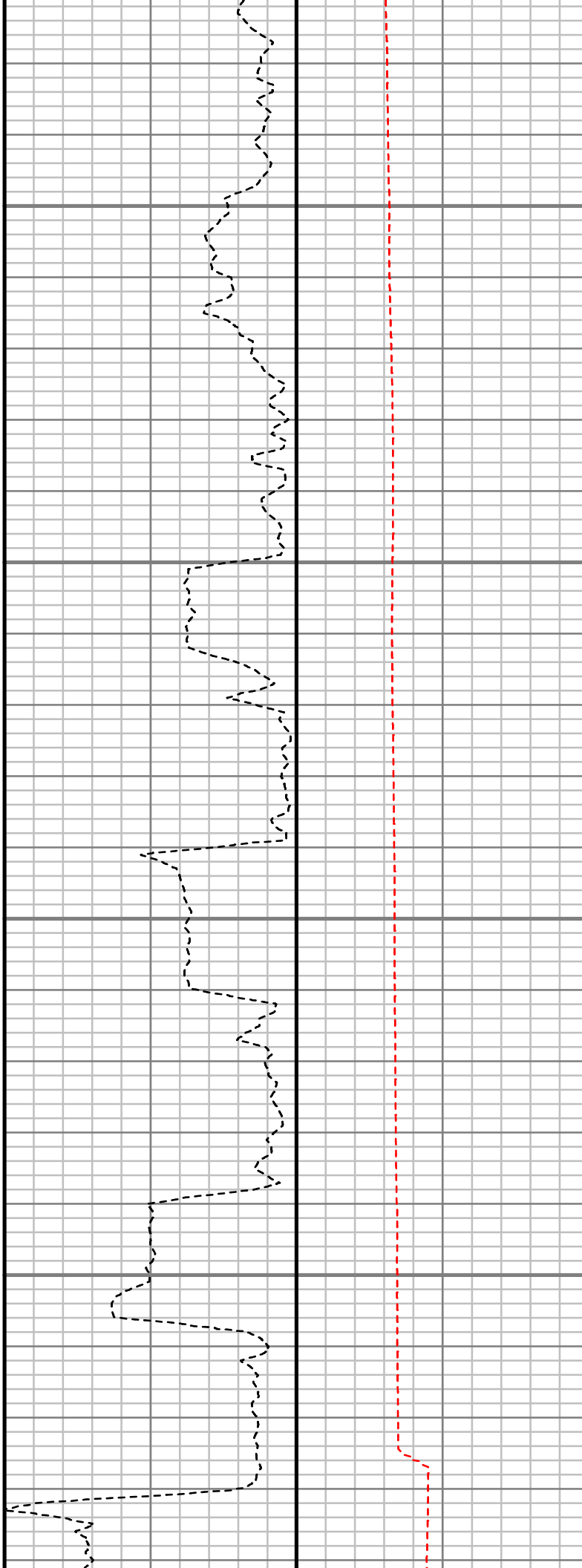


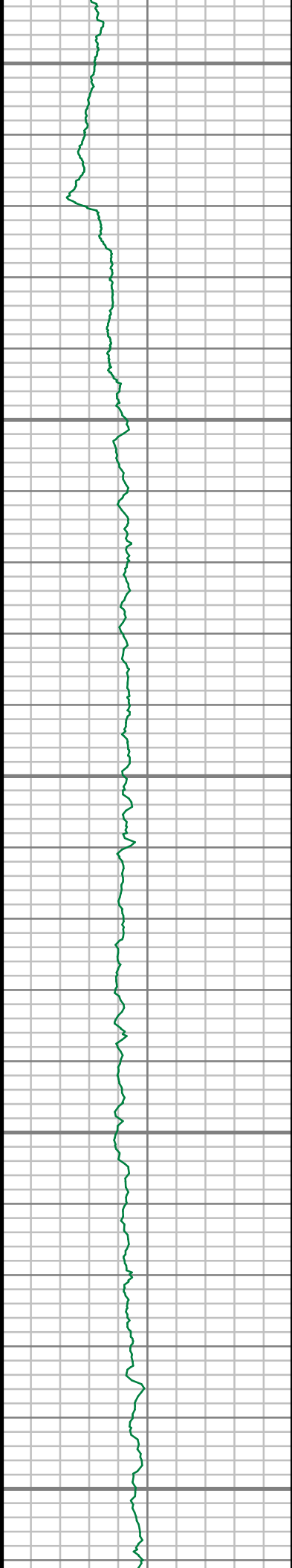
7950

8000

8050

8100





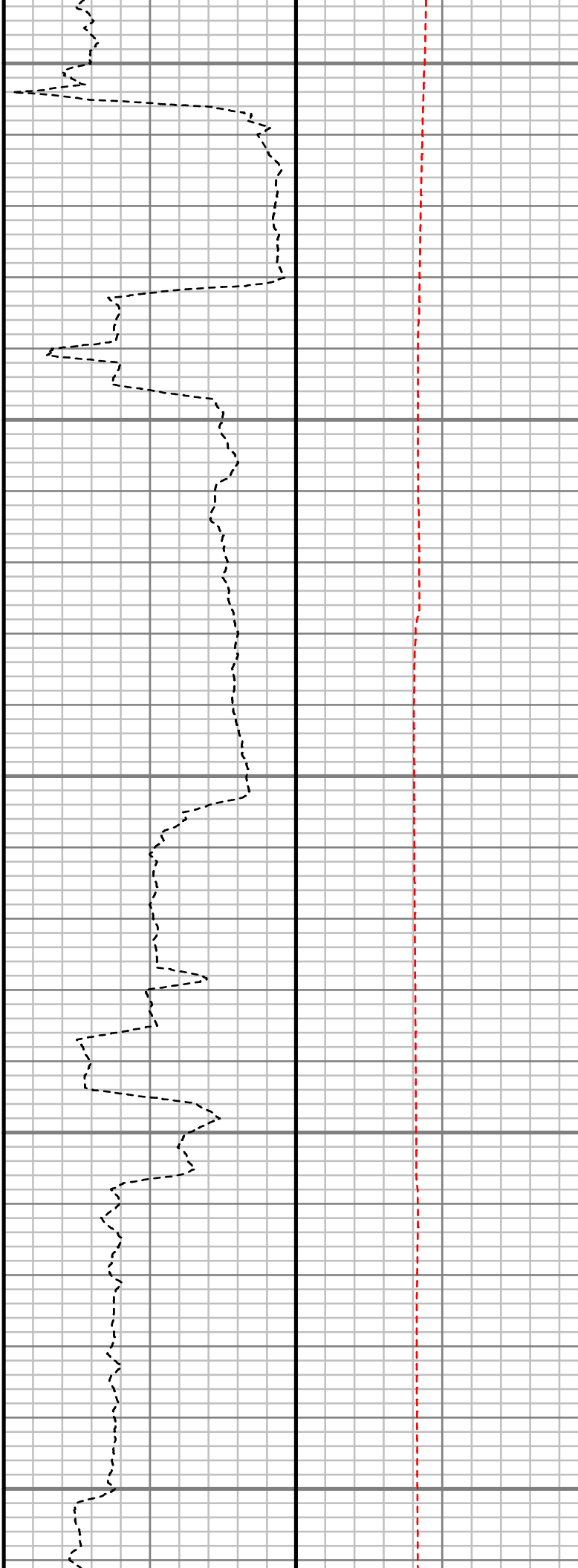
8150

8200

8250

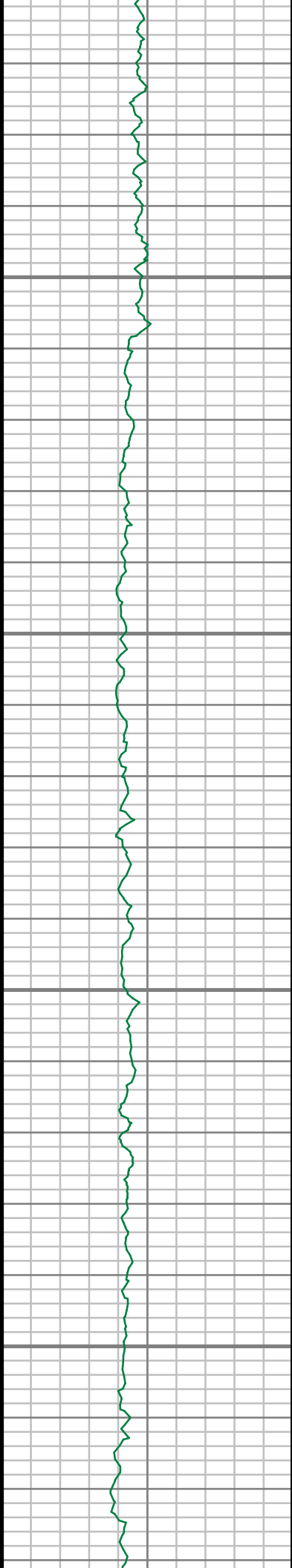
8300

8350



S: 67 MD: 8209.00 ft  
Inc: 87.78 deg Az: 2.70  
deg TVD: 7534.46 ft

S: 68 MD: 8304.00 ft  
Inc: 88.92 deg Az: 2.85  
deg TVD: 7537.19 ft

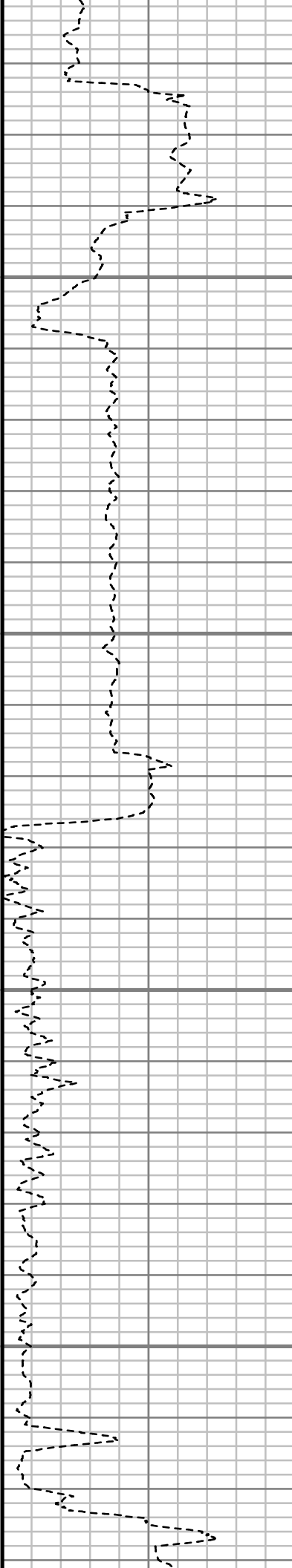


8400

8450

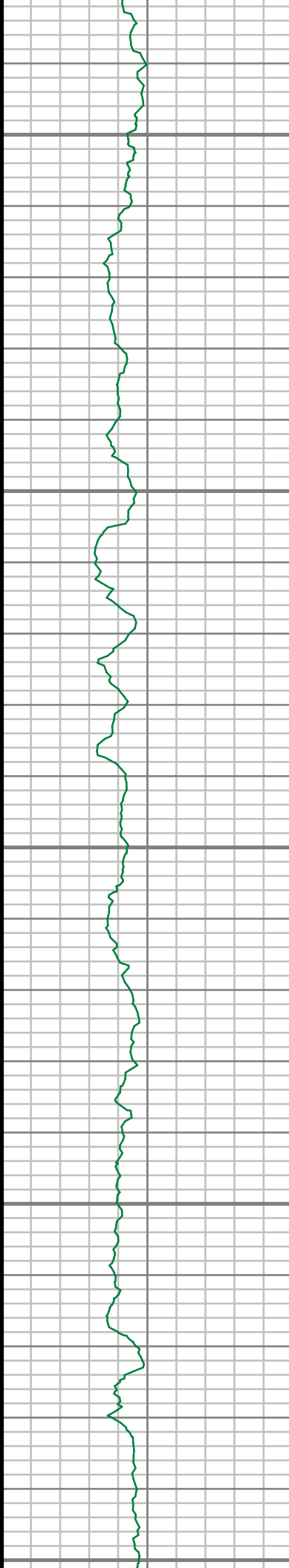
8500

8550



S: 69 MD: 8398.00 ft  
Inc: 90.74 deg Az: 2.23  
deg TVD: 7537.46 ft

S: 70 MD: 8493.00 ft  
Inc: 91.81 deg Az: 2.21  
deg TVD: 7535.35 ft



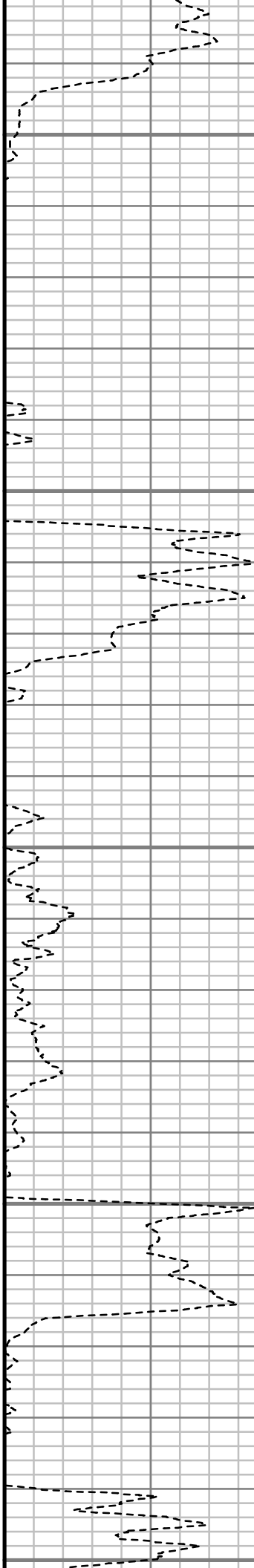
8600

8650

8700

8750

8800

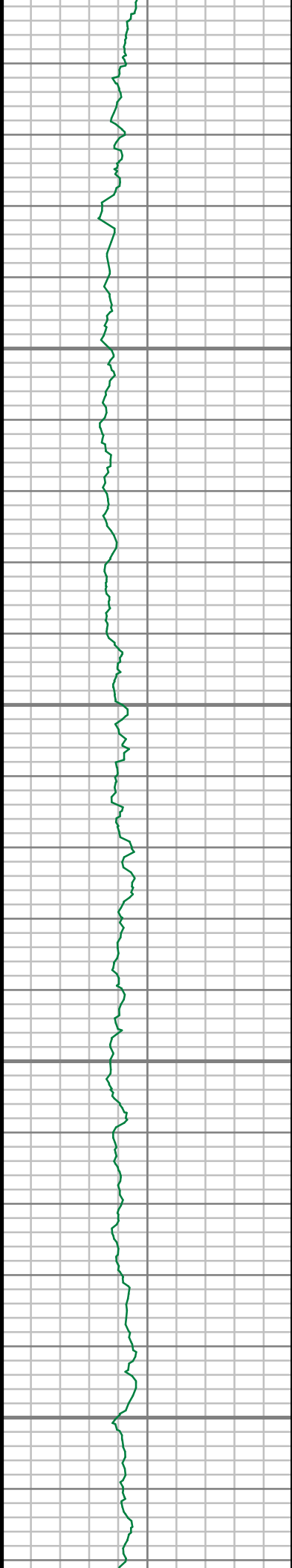


S: 71 MD: 8587.00 ft  
Inc: 91.24 deg Az: 1.69  
deg TVD: 7532.84 ft

S: 72 MD: 8682.00 ft  
Inc: 90.81 deg Az: 0.59  
deg TVD: 7531.14 ft

S: 73 MD: 8776.00 ft  
Inc: 91.48 deg Az: 0.11  
deg TVD: 7529.27 ft



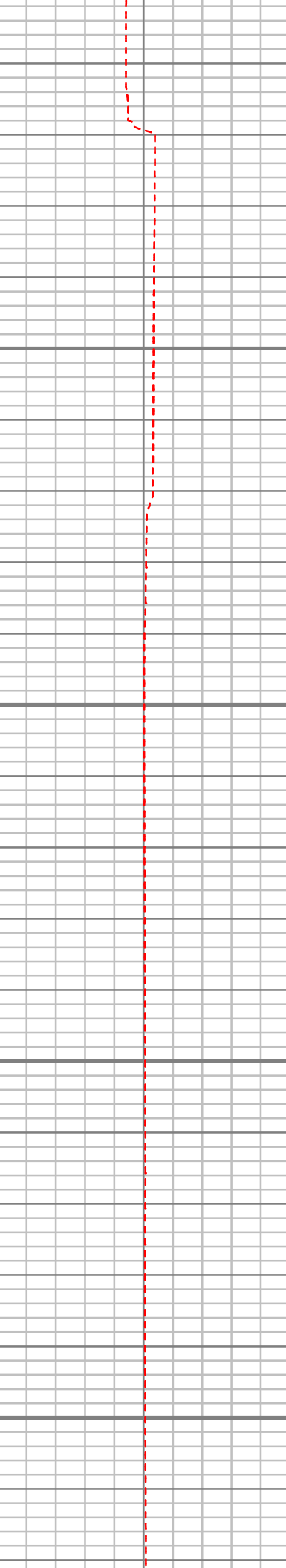
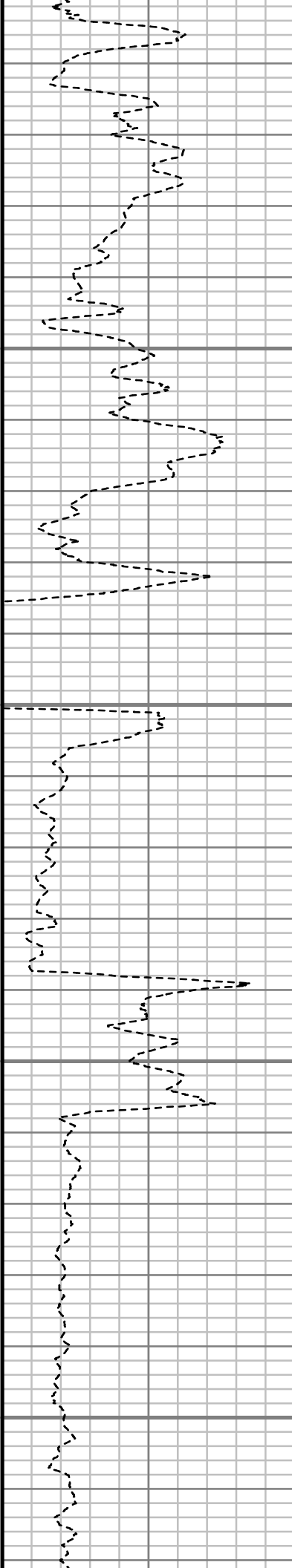


8850

8900

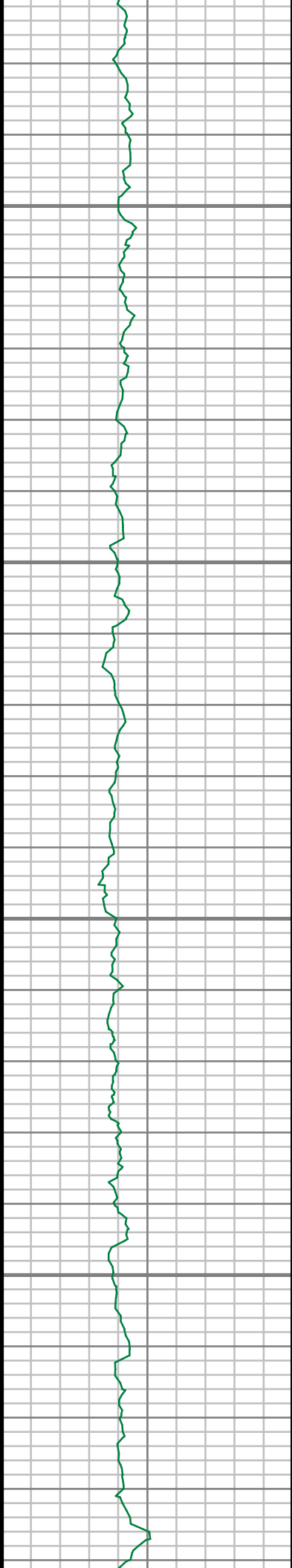
8950

9000



S: 74 MD: 8870.00 ft  
Inc: 91.21 deg Az:  
359.06 deg TVD:  
7527.07 ft

S: 75 MD: 8965.00 ft  
Inc: 90.03 deg Az:  
359.44 deg TVD:  
7526.04 ft

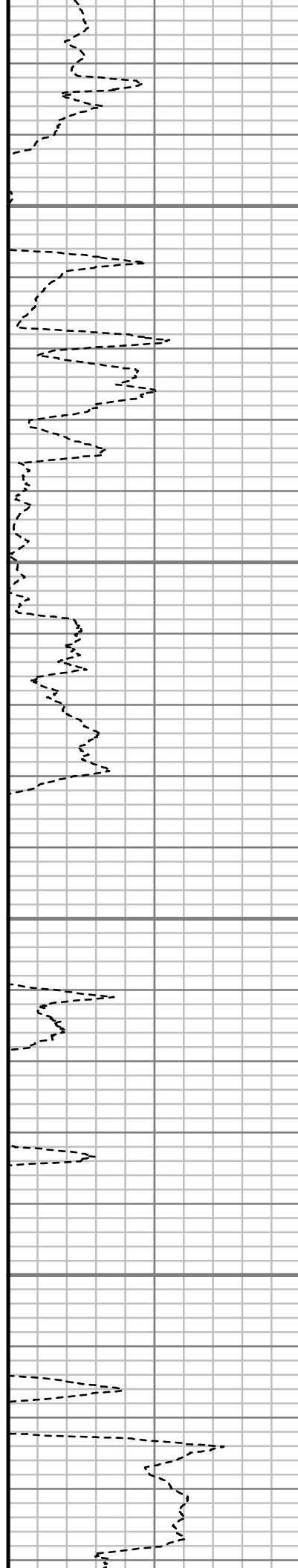


9050

9100

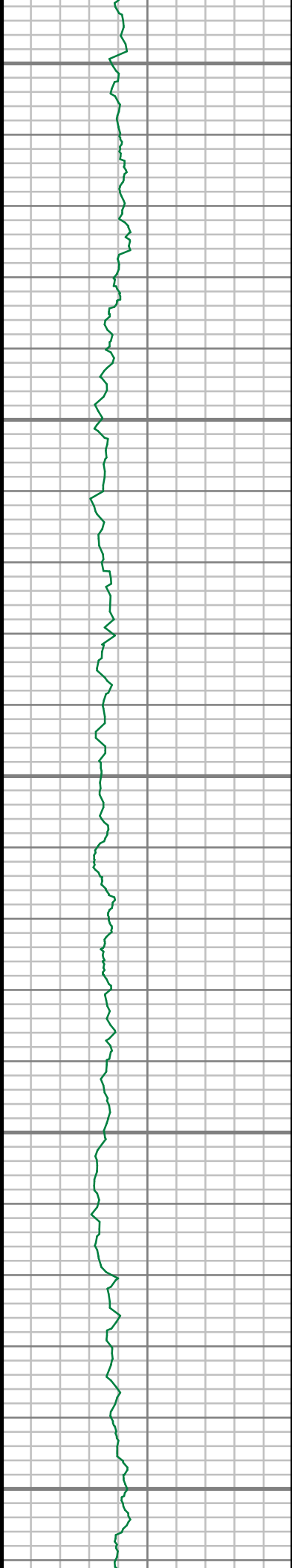
9150

9200



S: 76 MD: 9059.00 ft  
Inc: 90.13 deg Az:  
358.69 deg TVD:  
7525.90 ft

S: 77 MD: 9154.00 ft  
Inc: 89.80 deg Az:  
357.80 deg TVD:  
7525.96 ft



9250

9300

9350

9400

9450

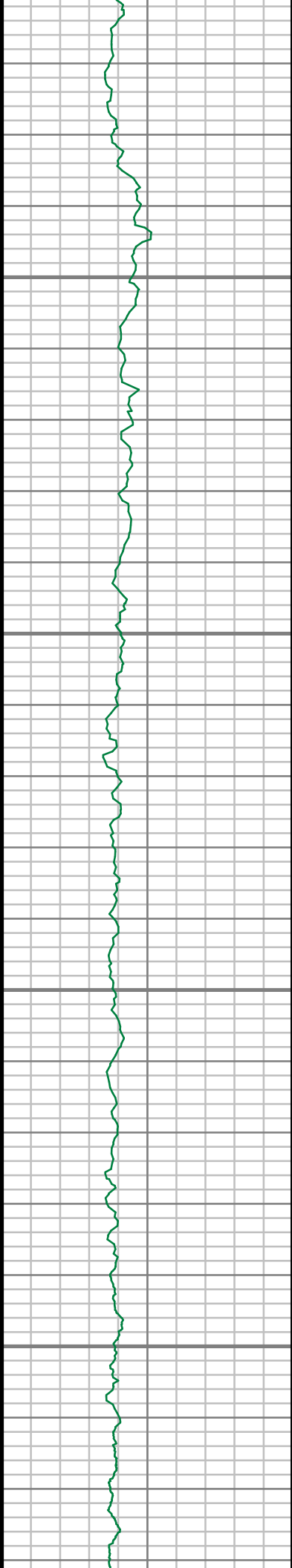


S: 78 MD: 9248.00 ft  
Inc: 89.19 deg Az:  
358.41 deg TVD:  
7526.78 ft

S: 79 MD: 9343.00 ft  
Inc: 90.03 deg Az:  
357.87 deg TVD:  
7527.42 ft

S: 80 MD: 9437.00 ft  
Inc: 90.67 deg Az:  
359.97 deg TVD:  
7526.84 ft



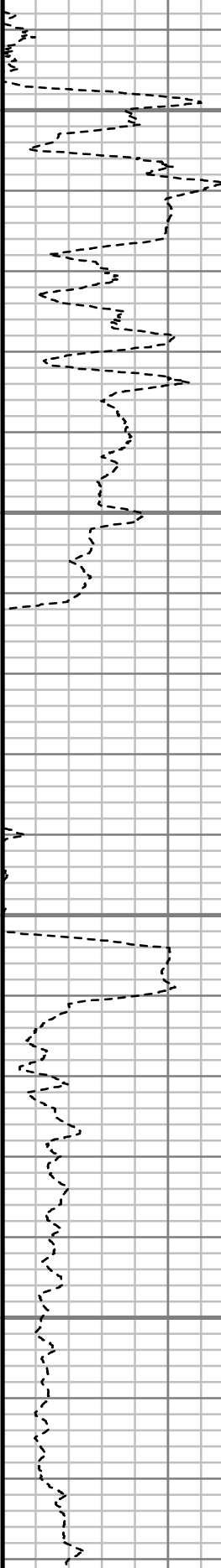


9500

9550

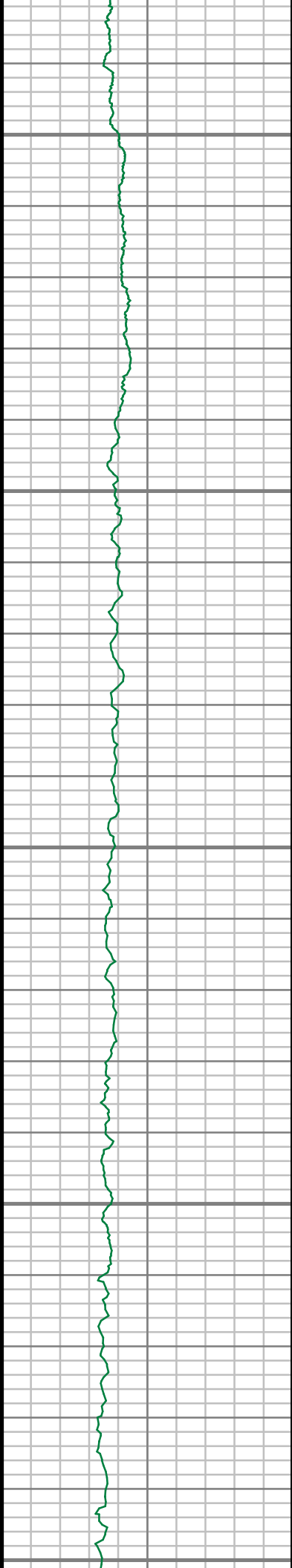
9600

9650



S: 81 MD: 9532.00 ft  
Inc: 90.47 deg Az:  
358.17 deg TVD:  
7525.90 ft

S: 82 MD: 9626.00 ft  
Inc: 90.24 deg Az:  
356.60 deg TVD:  
7525.32 ft



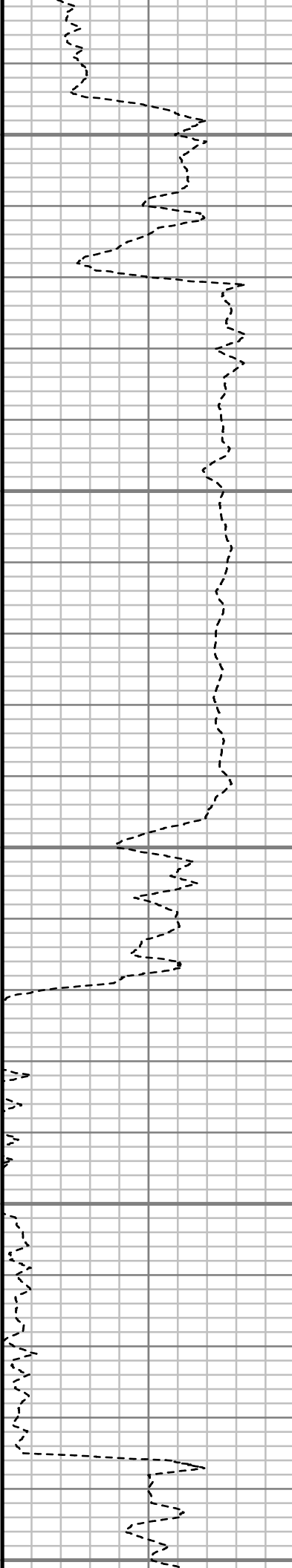
9700

9750

9800

9850

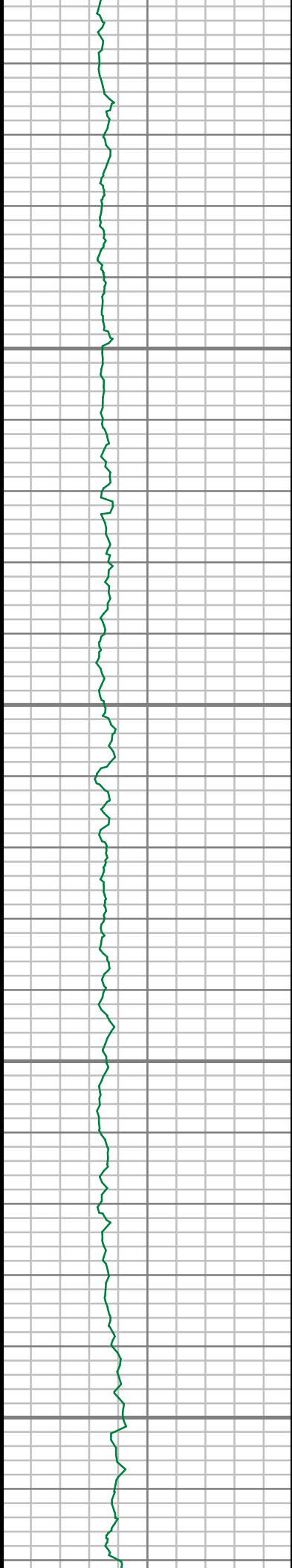
9900



S: 83 MD: 9721.00 ft  
Inc: 89.70 deg Az:  
357.05 deg TVD:  
7525.37 ft

S: 84 MD: 9815.00 ft  
Inc: 90.23 deg Az:  
358.60 deg TVD:  
7525.43 ft



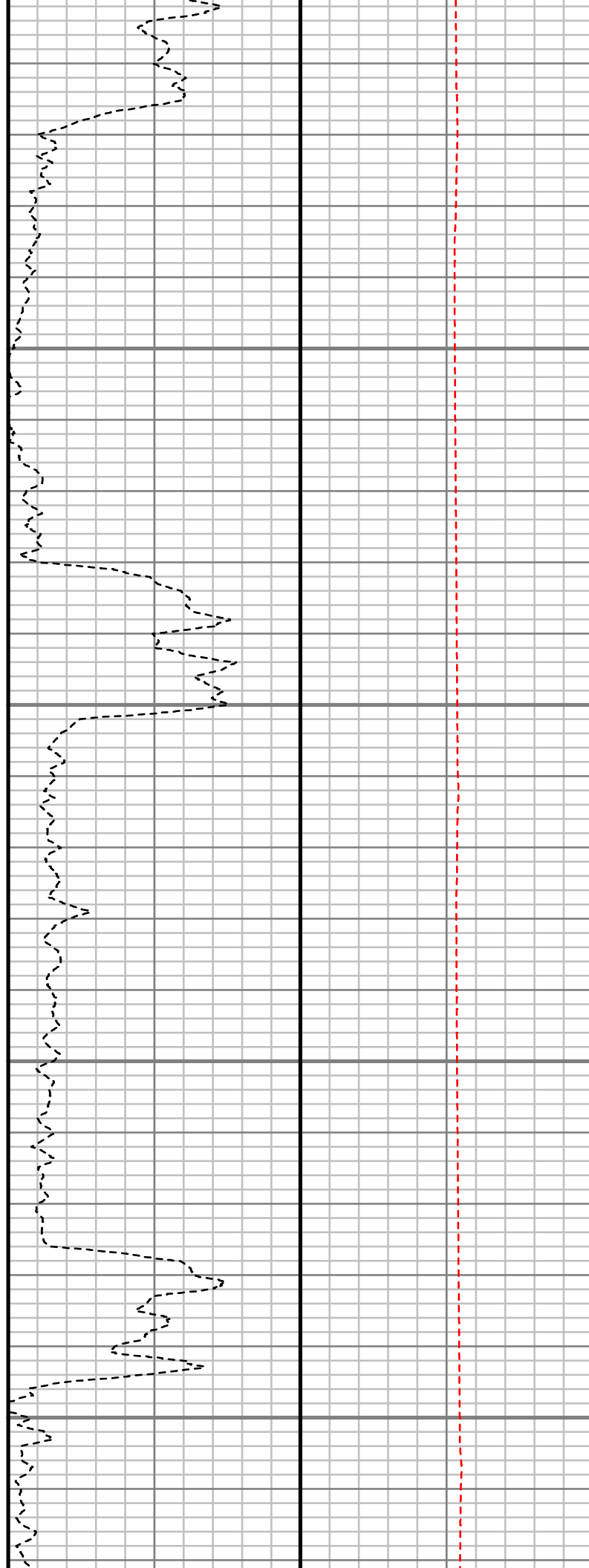


9950

10000

10050

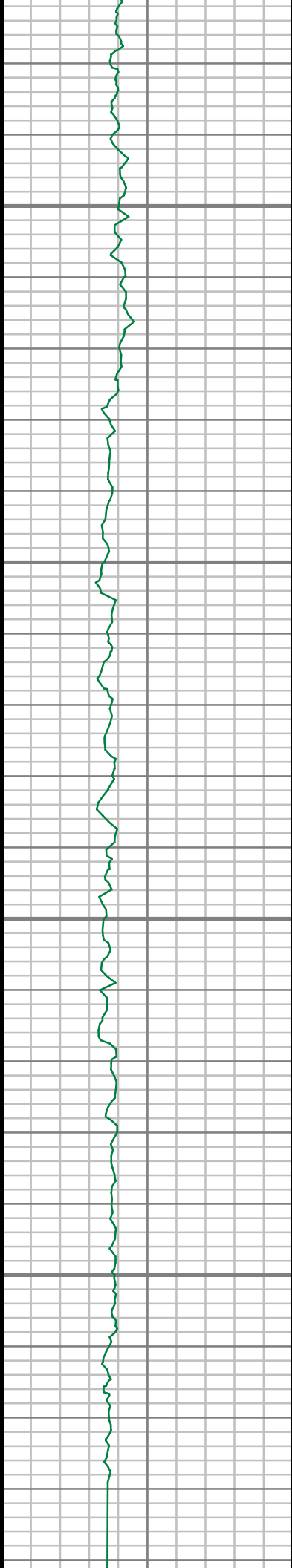
10100



S: 85 MD: 9909.00 ft  
Inc: 90.07 deg Az:  
358.80 deg TVD:  
7525.18 ft

S: 86 MD: 10004.00 ft  
Inc: 90.10 deg Az: 0.10  
deg TVD: 7525.04 ft

S: 87 MD: 10098.00 ft  
Inc: 89.66 deg Az: 0.74  
deg TVD: 7525.23 ft

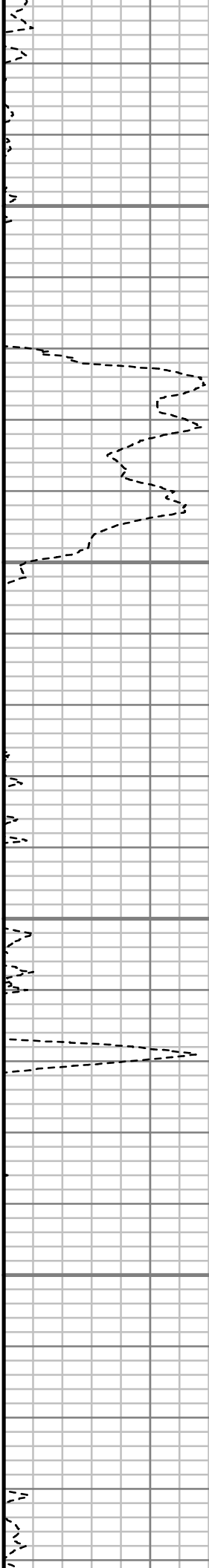


10150

10200

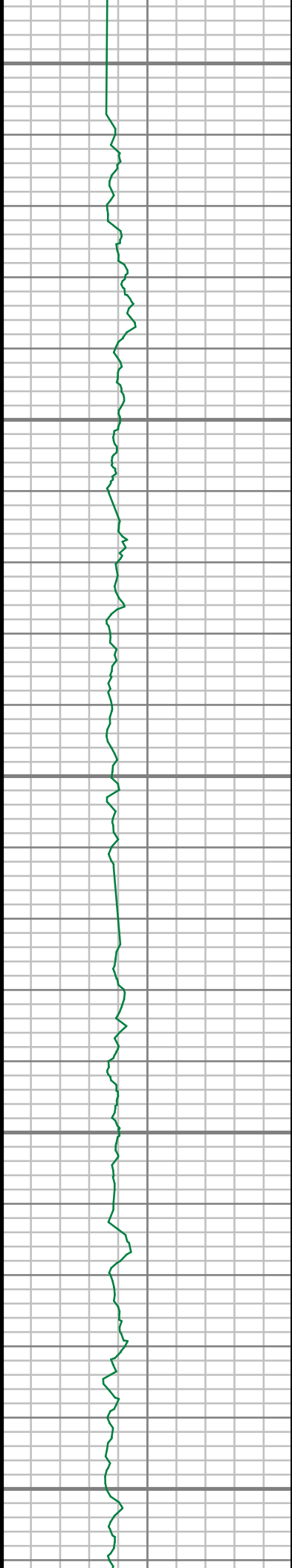
10250

10300



S: 88 MD: 10193.00 ft  
Inc: 90.34 deg Az: 1.95  
deg TVD: 7525.23 ft

S: 89 MD: 10287.00 ft  
Inc: 90.57 deg Az: 1.23  
deg TVD: 7524.49 ft



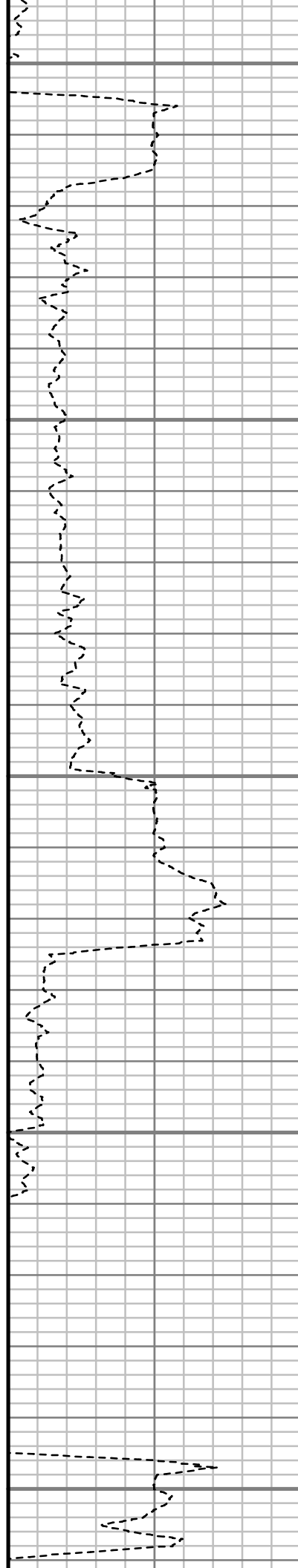
10350

10400

10450

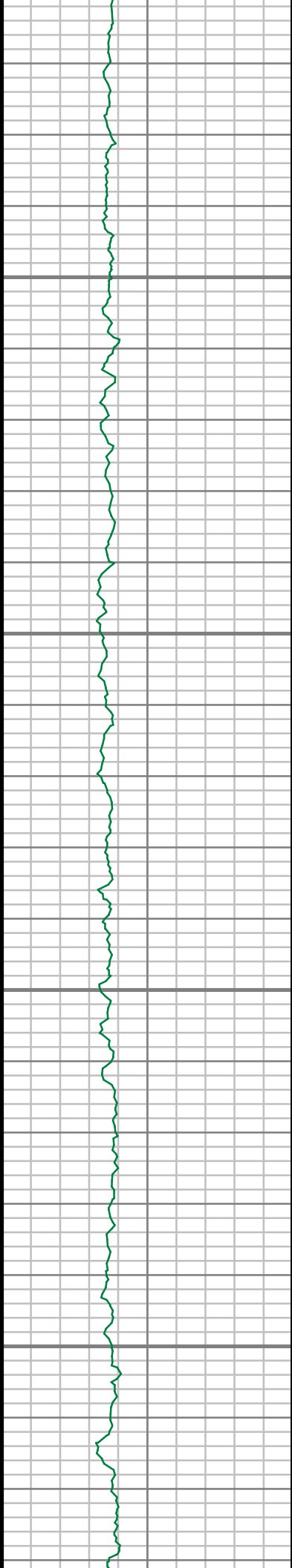
10500

10550



S: 90 MD: 10382.00 ft  
Inc: 90.67 deg Az: 0.93  
deg TVD: 7523.46 ft

S: 91 MD: 10477.00 ft  
Inc: 89.93 deg Az: 1.44  
deg TVD: 7522.96 ft

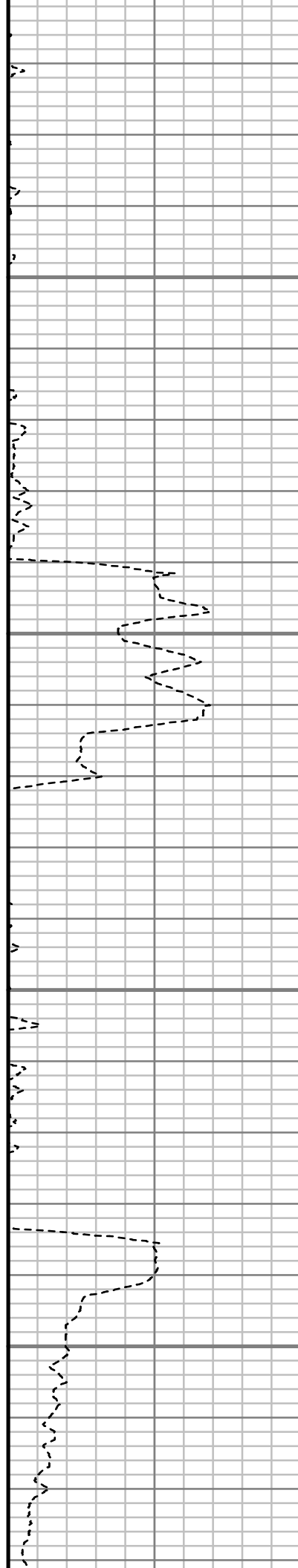


10600

10650

10700

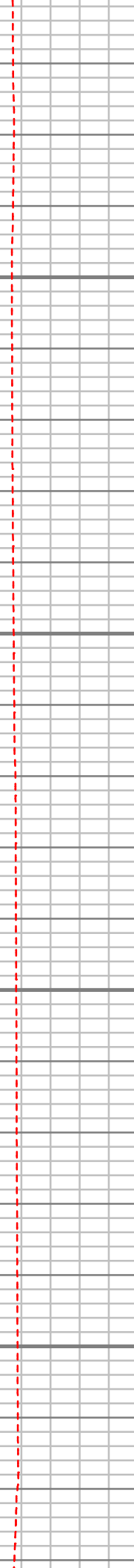
10750

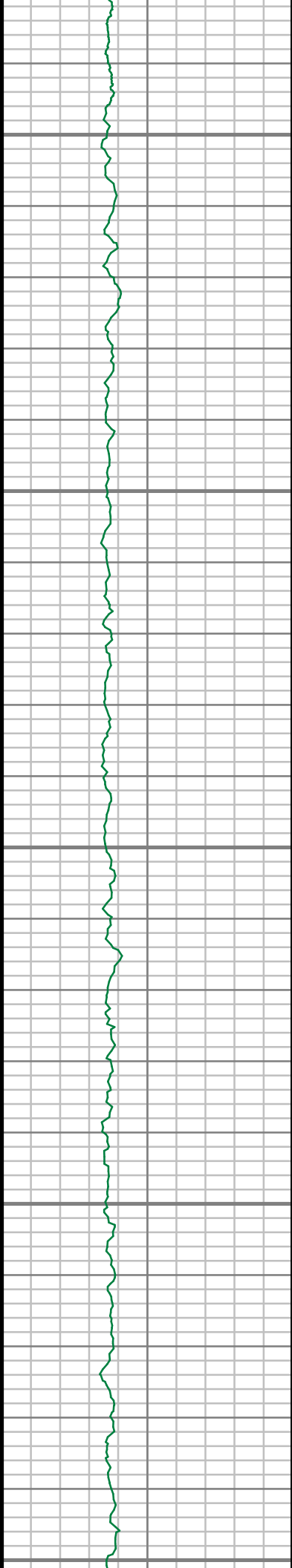


S: 92 MD: 10571.00 ft  
Inc: 90.13 deg Az: 1.16  
deg TVD: 7522.91 ft

S: 93 MD: 10665.00 ft  
Inc: 89.63 deg Az: 1.15  
deg TVD: 7523.10 ft

S: 94 MD: 10759.00 ft  
Inc: 90.30 deg Az: 1.12  
deg TVD: 7523.15 ft





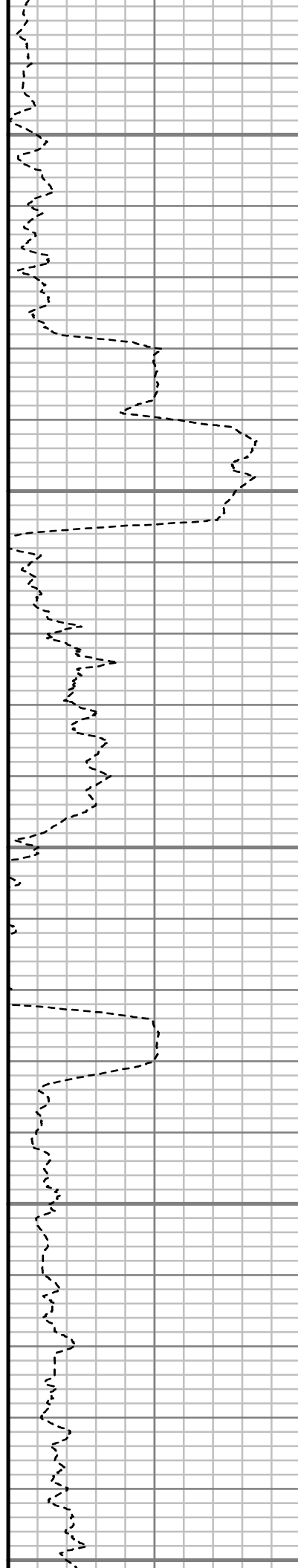
10800

10850

10900

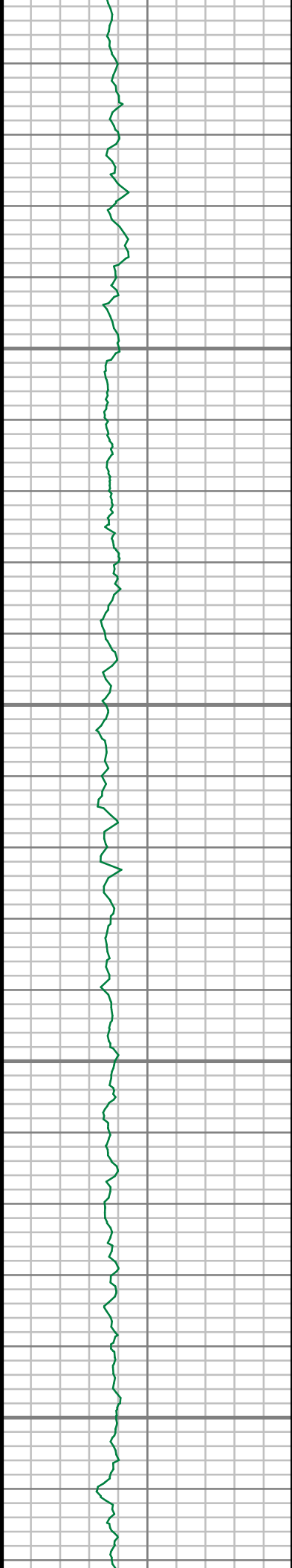
10950

11000



S: 95 MD: 10854.00 ft  
Inc: 89.33 deg Az: 0.35  
deg TVD: 7523.46 ft

S: 96 MD: 10948.00 ft  
Inc: 89.83 deg Az:  
359.66 deg TVD:  
7524.15 ft

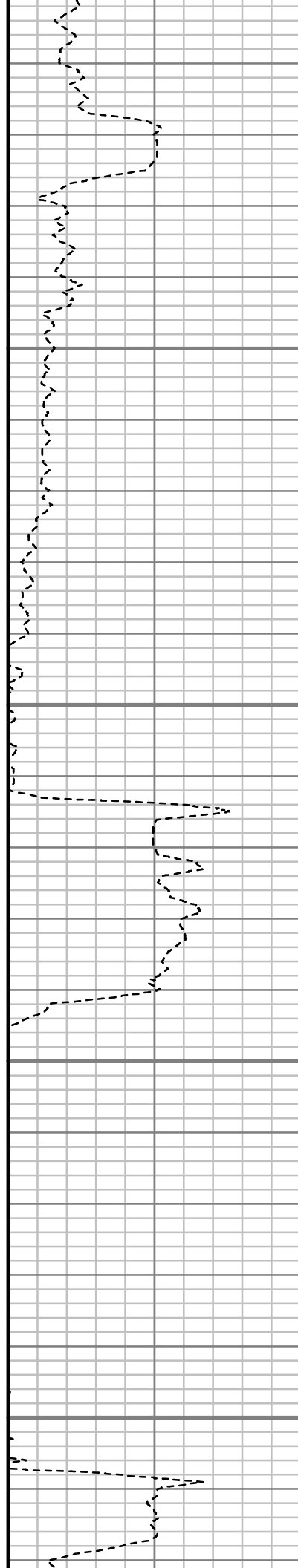


11050

11100

11150

11200

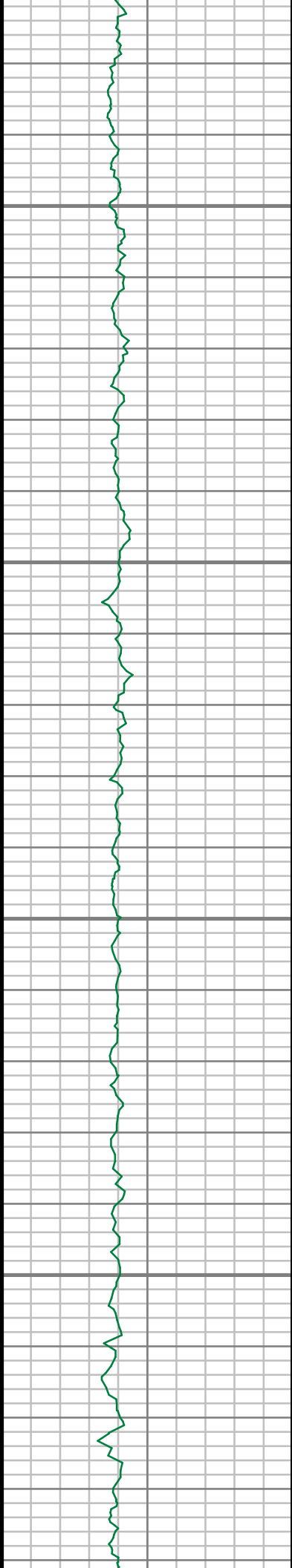


S: 97 MD: 11042.00 ft  
Inc: 90.30 deg Az:  
359.77 deg TVD:  
7524.04 ft

S: 98 MD: 11137.00 ft  
Inc: 89.36 deg Az: 0.28  
deg TVD: 7524.32 ft





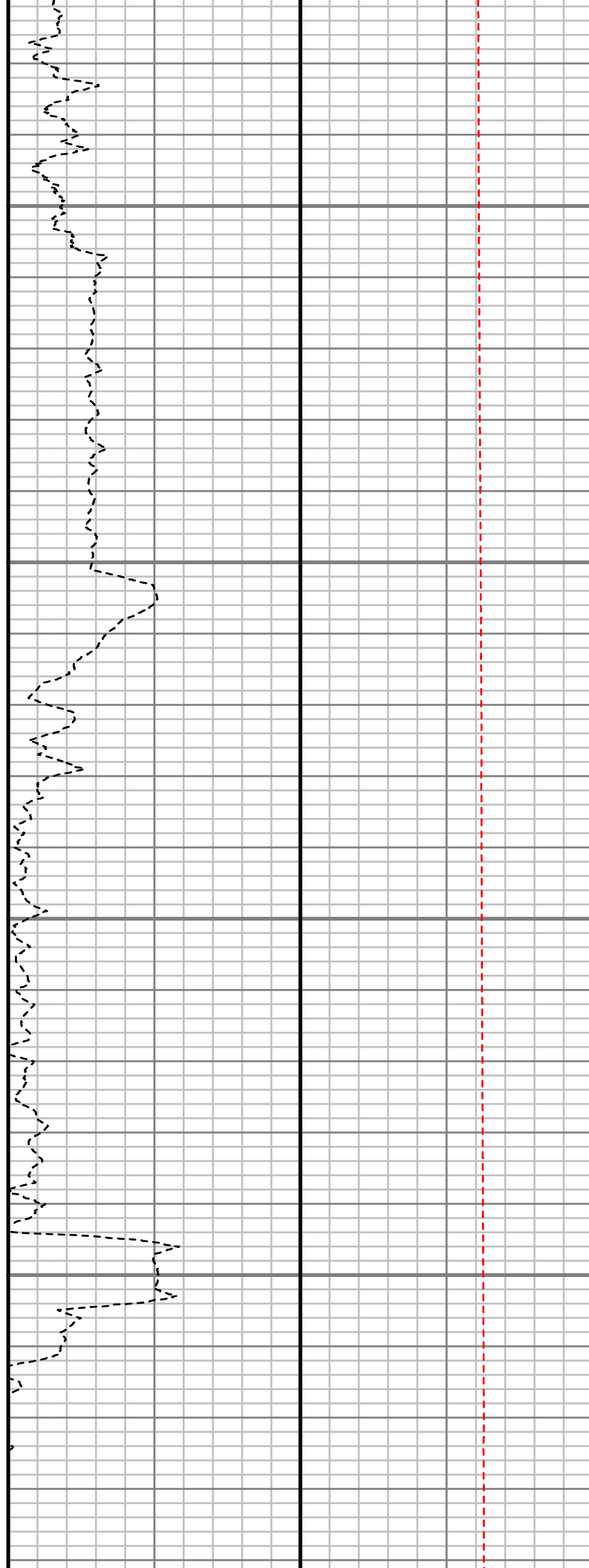


11250

11300

11350

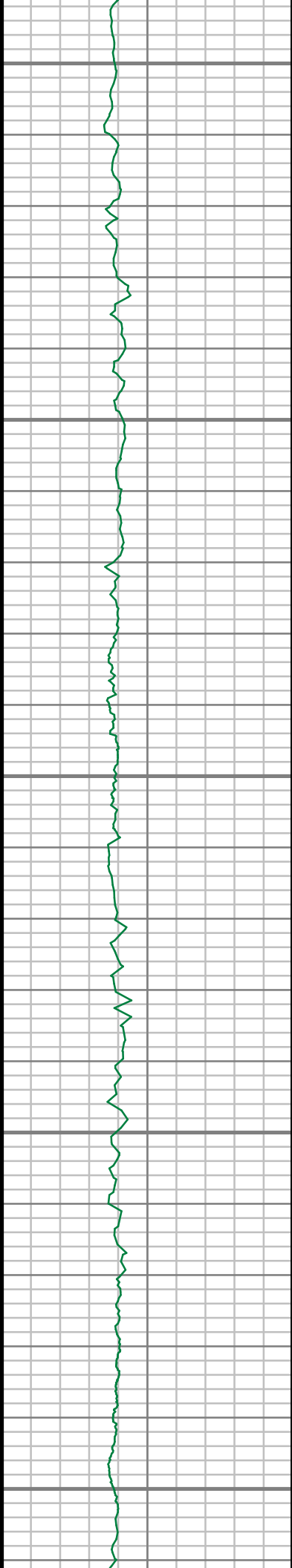
11400



S: 99 MD: 11231.00 ft  
Inc: 89.56 deg Az:  
359.96 deg TVD:  
7525.20 ft

S: 100 MD: 11326.00 ft  
Inc: 89.36 deg Az:  
359.24 deg TVD:  
7526.09 ft

S: 101 MD: 11420.00 ft  
Inc: 89.60 deg Az:  
359.57 deg TVD:  
7526.94 ft



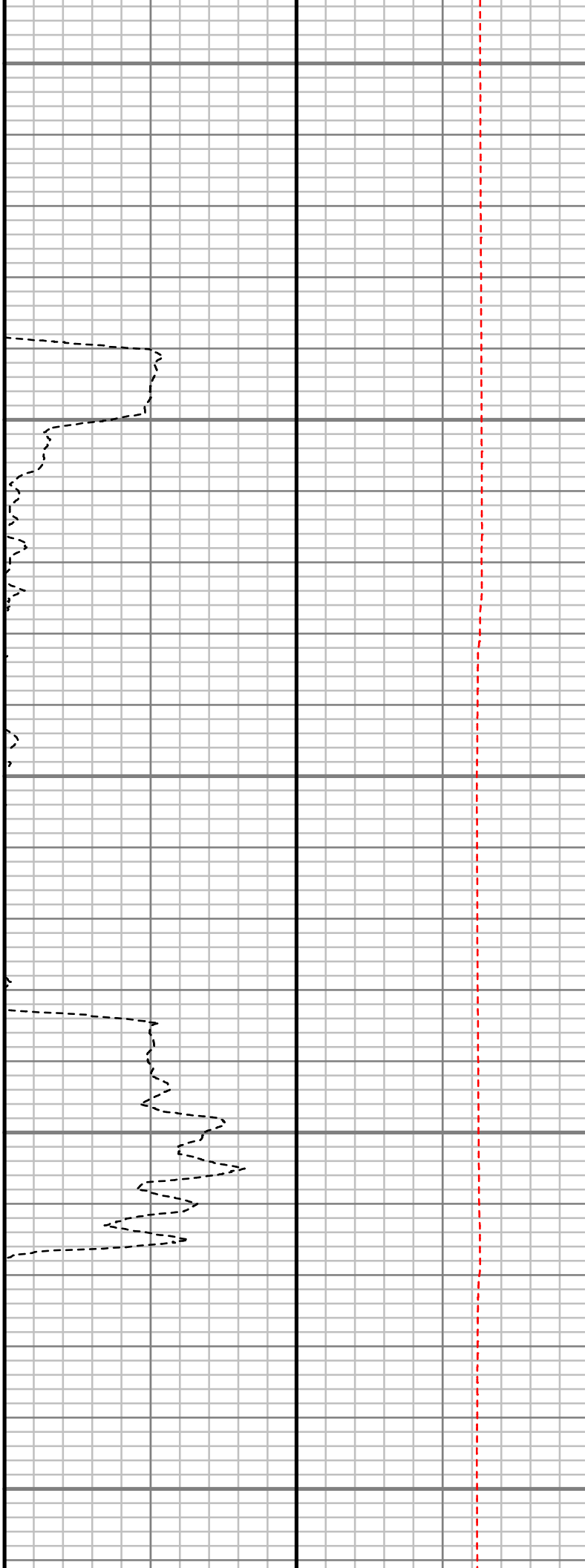
11450

11500

11550

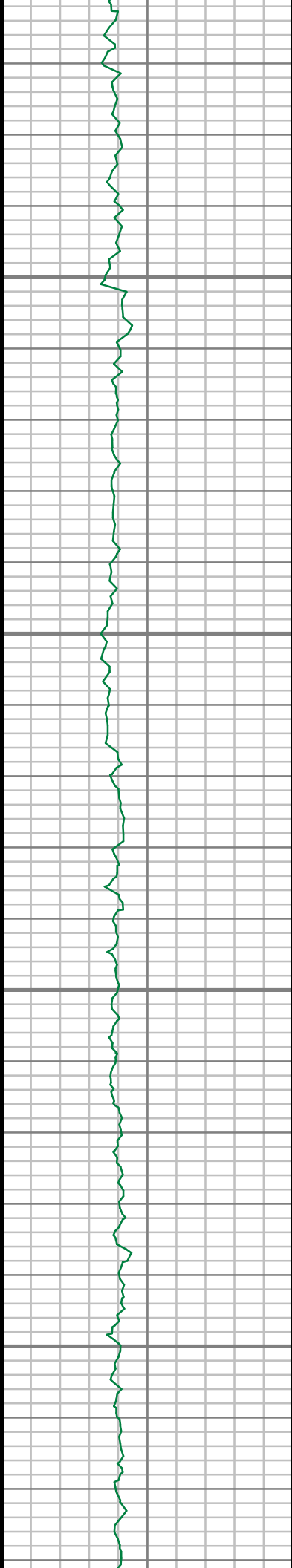
11600

11650



S: 102 MD: 11514.00 ft  
Inc: 89.56 deg Az:  
358.49 deg TVD:  
7527.63 ft

S: 103 MD: 11608.00 ft  
Inc: 89.63 deg Az:  
359.13 deg TVD:  
7528.29 ft

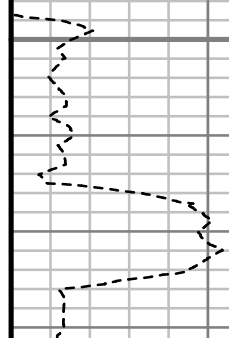
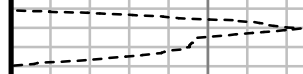
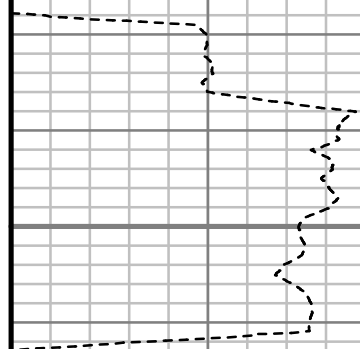


11700

11750

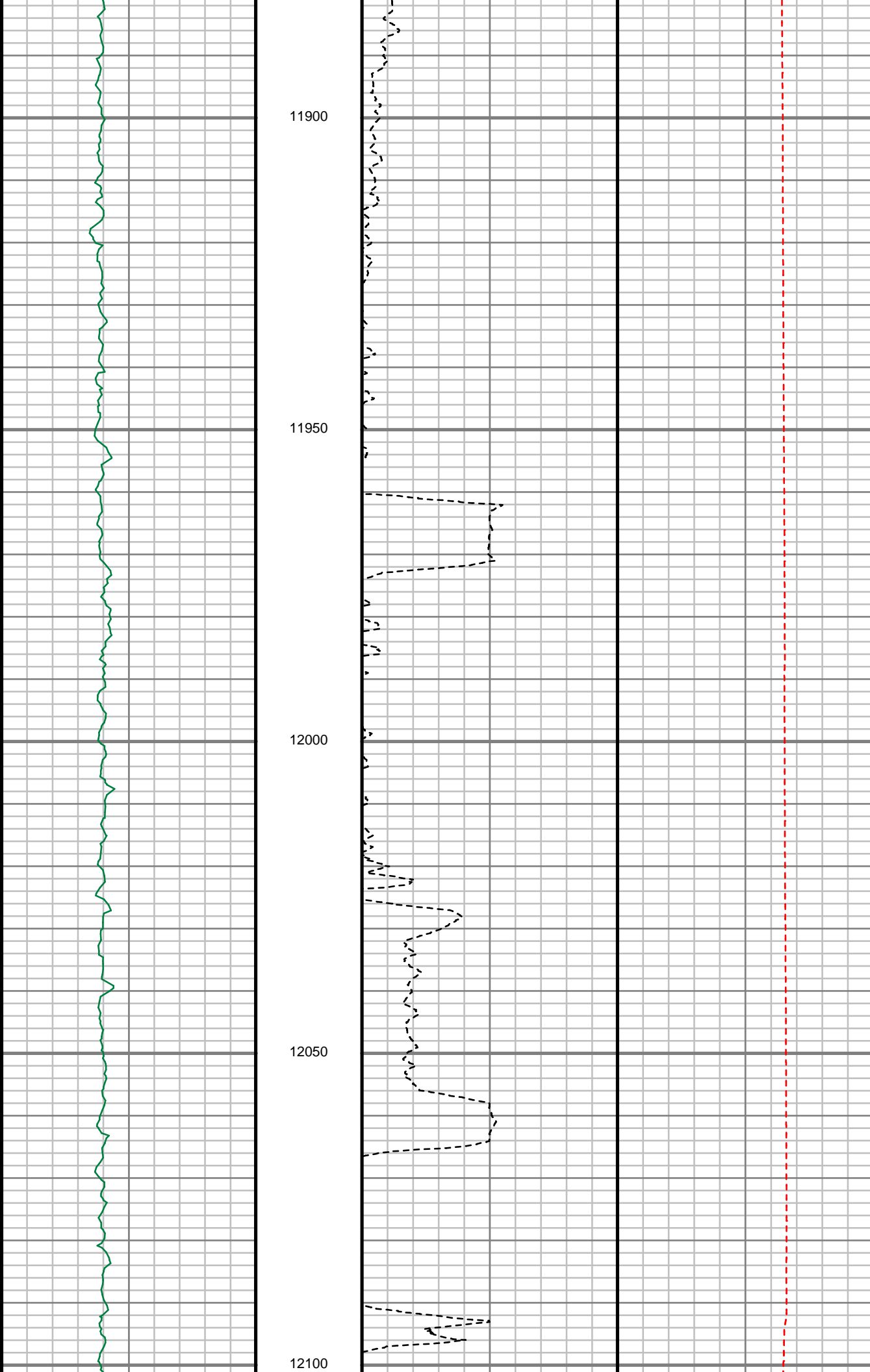
11800

11850



S: 104 MD: 11703.00 ft  
Inc: 89.70 deg Az: 0.34  
deg TVD: 7528.84 ft

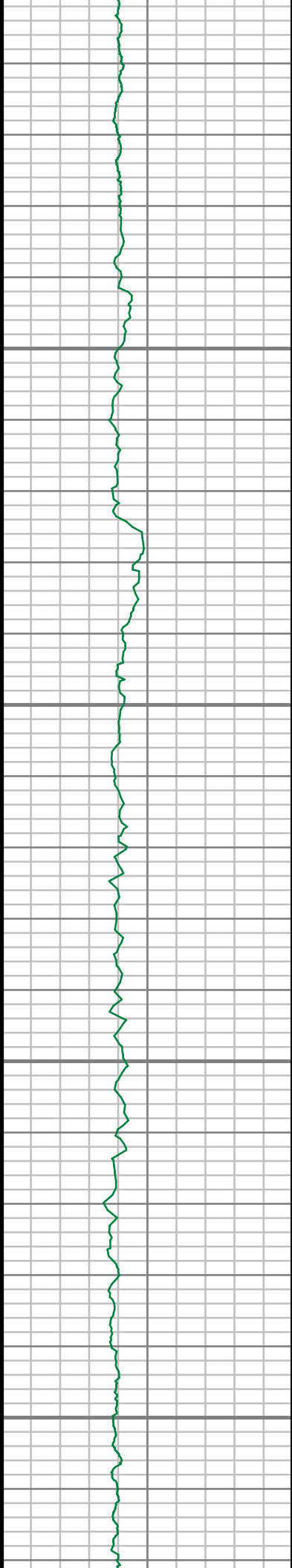
S: 105 MD: 11797.00 ft  
Inc: 89.93 deg Az: 0.82  
deg TVD: 7529.15 ft



S: 106 MD: 11891.00 ft  
Inc: 89.97 deg Az:  
359.51 deg TVD:  
7529.23 ft

S: 107 MD: 11986.00 ft  
Inc: 90.17 deg Az:  
359.10 deg TVD:  
7529.12 ft

S: 108 MD: 12080.00 ft  
Inc: 90.30 deg Az:  
358.13 deg TVD:  
7528.73 ft

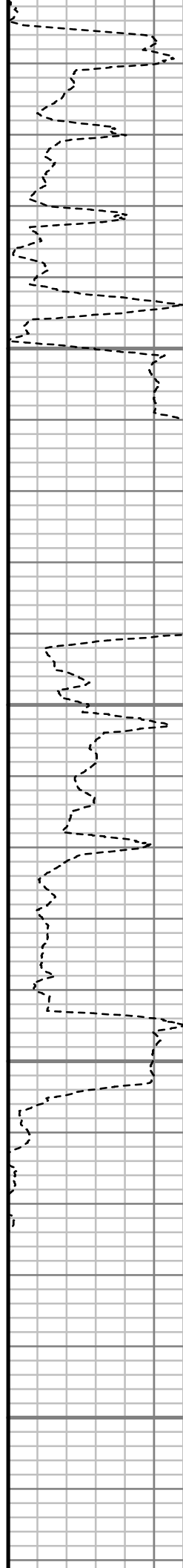


12150

12200

12250

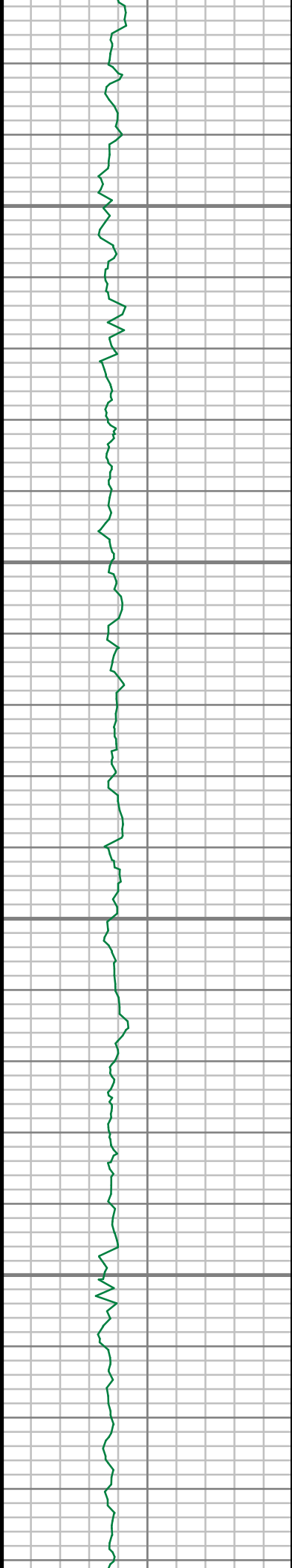
12300



S: 109 MD: 12175.00 ft  
Inc: 89.23 deg Az:  
359.04 deg TVD:  
7529.12 ft

S: 110 MD: 12269.00 ft  
Inc: 89.13 deg Az:  
358.85 deg TVD:  
7530.47 ft



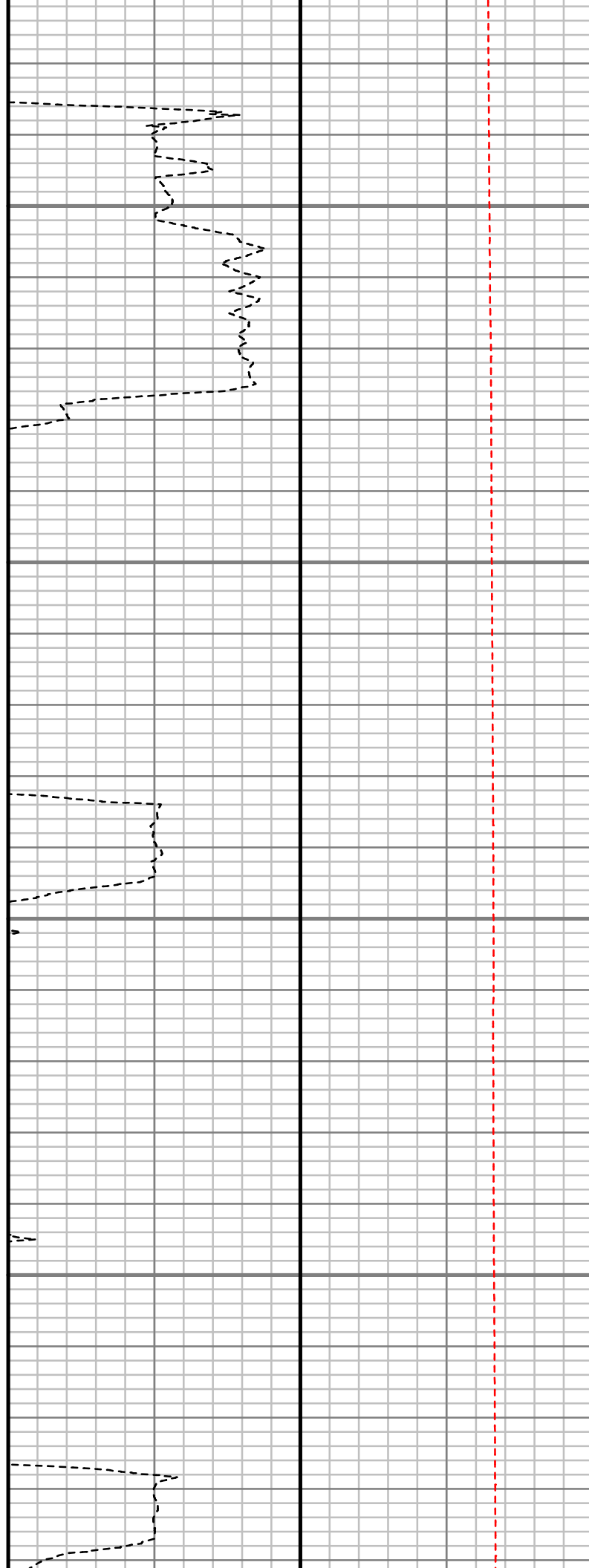


12350

12400

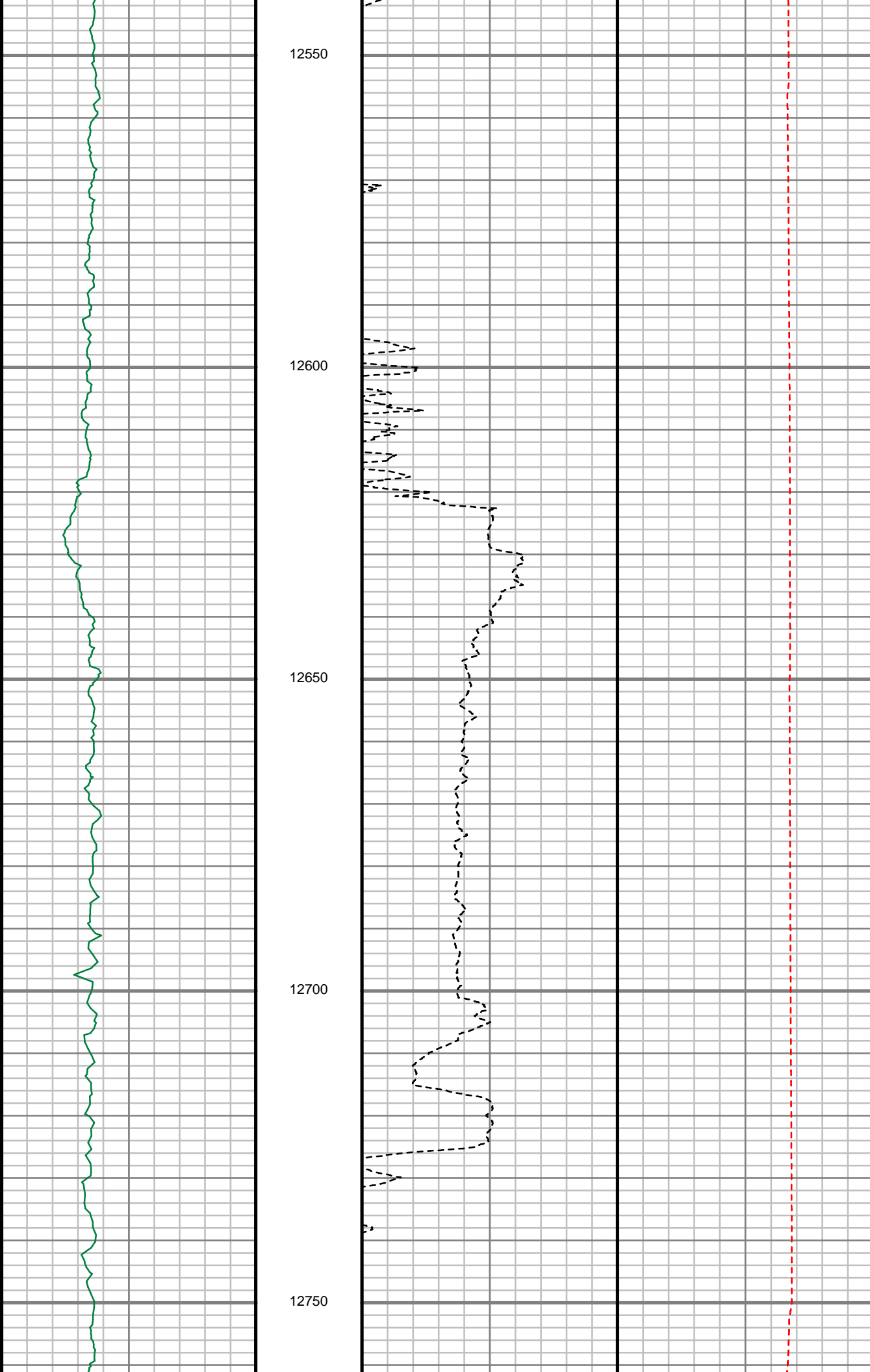
12450

12500



S: 111 MD: 12364.00 ft  
Inc: 89.97 deg Az:  
359.87 deg TVD:  
7531.22 ft

S: 112 MD: 12458.00 ft  
Inc: 90.37 deg Az:  
359.70 deg TVD:  
7530.95 ft



12550

S: 113 MD: 12552.00 ft  
Inc: 91.01 deg Az:  
359.49 deg TVD:  
7529.82 ft

12600

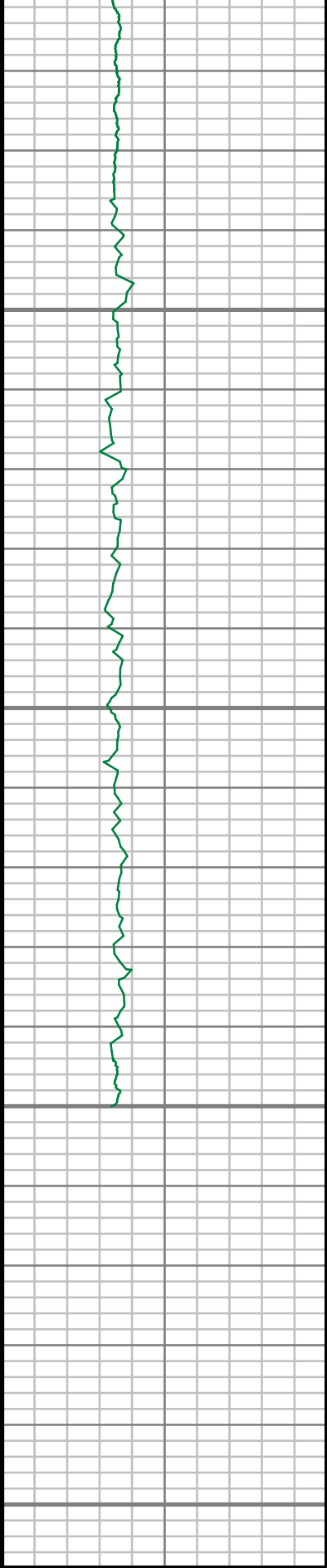
12650

S: 114 MD: 12646.00 ft  
Inc: 90.07 deg Az:  
358.01 deg TVD:  
7528.94 ft

12700

12750

S: 115 MD: 12741.00 ft  
Inc: 89.56 deg Az:  
355.90 deg TVD:  
7529.24 ft



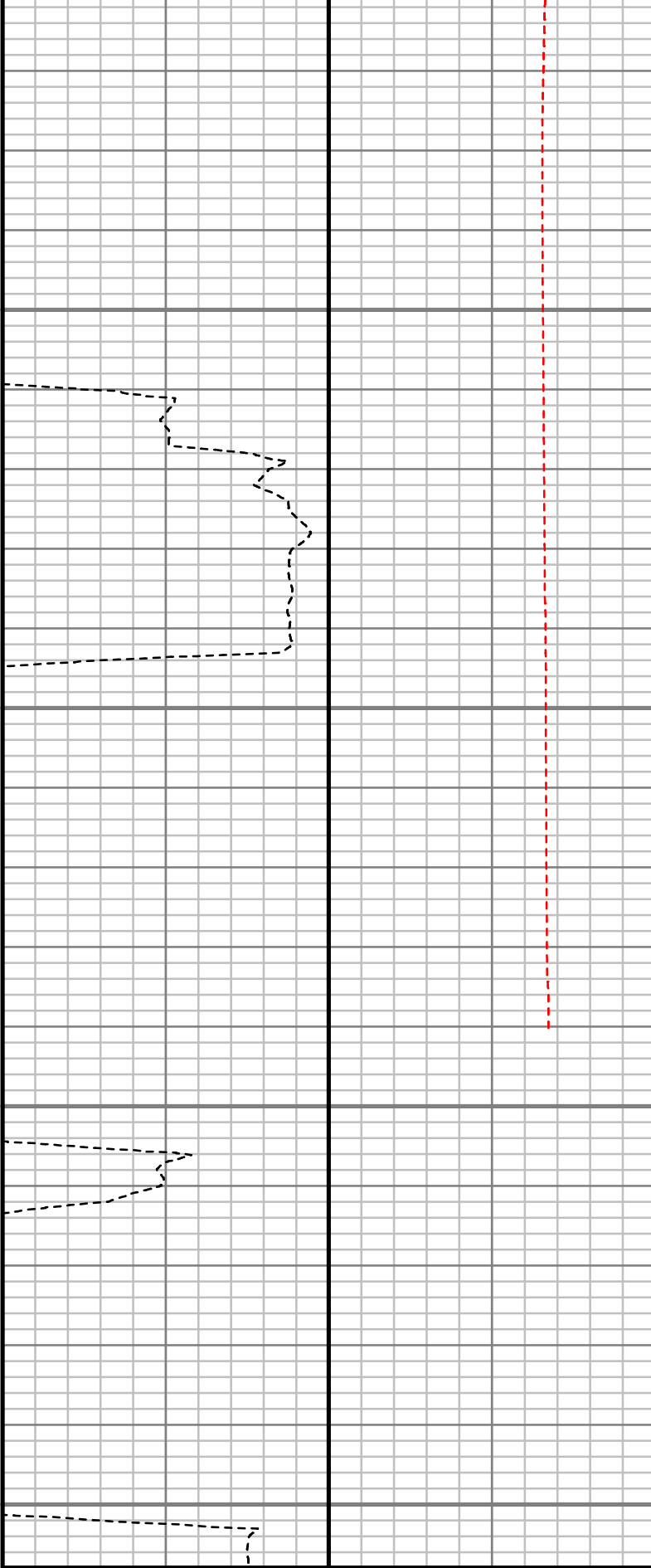
12800

12850

12900

12950

MEASURED DEPTH  
1:240 (ft)



S: 116 MD: 12835.00 ft  
Inc: 90.37 deg Az:  
357.14 deg TVD:  
7529.30 ft

S: 117 MD: 12883.00 ft  
Inc: 90.60 deg Az:  
357.07 deg TVD:  
7528.89 ft

Gamma Ray (GR)		
0	Unit = aapi	150

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

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

Comments
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# Survey Report

<b>Customer Name:</b>	ANADARKO PETROLEUM CORP.						
<b>Site Name:</b>	NRC 4C-8HZ						
<b>Well Name:</b>	NRC 4C-8HZ						
<b>Survey:</b>	NRC 4C-8HZ						
<b>Survey Date:</b>	2/9/2014						
<b>Magnetic Declination:</b>	8.53 deg						
<b>North Reference:</b>	True North						
<b>Calculation Method:</b>	Minimum Curvature						
<b>Section (VS) Ref:</b>	0.00N (ft), 0.00E (ft), 0.00Azim (deg)						
<b>MD</b> ft	<b>Inc</b> deg	<b>Azim</b> deg	<b>TVD</b> ft	<b>VS</b> ft	<b>+N/-S</b> ft	<b>+E/-W</b> ft	<b>DLS</b> °/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
100.00	0.80	145.95	100.00	-0.58	-0.58	0.39	0.80
200.00	0.27	333.11	199.99	-0.95	-0.95	0.68	1.07
300.00	0.69	114.58	299.99	-0.99	-0.99	1.12	0.92
400.00	0.53	230.40	399.99	-1.53	-1.53	1.31	1.04
500.00	0.58	349.00	499.99	-1.33	-1.33	0.85	0.95
600.00	0.57	163.91	599.99	-1.31	-1.31	0.90	1.15
700.00	0.61	286.32	699.98	-1.64	-1.64	0.52	1.03
800.00	0.37	107.70	799.98	-1.59	-1.59	0.32	0.98

<b>MD</b> ft	<b>Inc</b> deg	<b>Azim</b> deg	<b>TVD</b> ft	<b>VS</b> ft	<b>+N/-S</b> ft	<b>+E/-W</b> ft	<b>DLS</b> °/100ft
900.00	0.83	295.55	899.98	-1.37	-1.37	-0.03	1.20
1000.00	0.48	79.36	999.98	-0.98	-0.98	-0.27	1.25
1100.00	0.60	300.48	1099.97	-0.64	-0.64	-0.31	1.01
1127.00	0.72	321.10	1126.97	-0.44	-0.44	-0.54	0.98
1358.00	1.86	165.11	1357.94	-2.93	-2.93	-0.48	1.10
1449.00	4.56	170.58	1448.79	-7.92	-7.92	0.49	2.98
1563.00	6.78	171.48	1562.22	-19.05	-19.05	2.23	1.95
1654.00	7.25	172.02	1652.54	-30.04	-30.04	3.82	0.52
1745.00	8.91	169.67	1742.64	-42.65	-42.65	5.88	1.86
1837.00	9.41	166.82	1833.47	-56.98	-56.98	8.87	0.74
1929.00	8.87	162.71	1924.30	-71.08	-71.08	12.69	0.92
2020.00	8.50	159.17	2014.25	-84.07	-84.07	17.17	0.71
2111.00	8.49	159.58	2104.26	-96.65	-96.65	21.91	0.07
2203.00	8.19	158.84	2195.28	-109.13	-109.13	26.65	0.35
2295.00	7.49	156.30	2286.42	-120.73	-120.73	31.42	0.85
2386.00	7.51	158.71	2376.64	-131.70	-131.70	35.96	0.35
2478.00	8.51	164.30	2467.75	-143.85	-143.85	39.99	1.38
2570.00	8.05	163.58	2558.79	-156.58	-156.58	43.65	0.52
2662.00	7.20	164.26	2649.97	-168.31	-168.31	47.03	0.92
2754.00	7.93	162.68	2741.17	-179.91	-179.91	50.49	0.82

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
2845.00	8.84	165.44	2831.20	-192.67	-192.67	54.11	1.10
2937.00	9.96	163.44	2921.96	-207.14	-207.14	58.16	1.26
3028.00	9.65	163.07	3011.64	-221.97	-221.97	62.62	0.35
3120.00	9.03	163.70	3102.42	-236.27	-236.27	66.89	0.68
3211.00	8.40	167.96	3192.37	-249.63	-249.63	70.28	0.99
3304.00	8.82	163.03	3284.32	-263.09	-263.09	73.78	0.91
3395.00	9.75	157.72	3374.13	-276.89	-276.89	78.74	1.39
3487.00	9.76	161.98	3464.80	-291.52	-291.52	84.10	0.79
3578.00	10.46	161.99	3554.38	-306.71	-306.71	89.04	0.77
3669.00	9.77	162.18	3643.97	-321.92	-321.92	93.96	0.76
3761.00	10.04	162.87	3734.60	-337.02	-337.02	98.71	0.32
3853.00	10.75	161.56	3825.09	-352.83	-352.83	103.79	0.82
3945.00	9.37	162.34	3915.67	-368.10	-368.10	108.78	1.52
4036.00	9.68	162.09	4005.42	-382.44	-382.44	113.38	0.35
4128.00	10.52	162.35	4095.99	-397.80	-397.80	118.30	0.91
4219.00	9.00	158.07	4185.67	-412.32	-412.32	123.48	1.85
4313.00	9.45	167.32	4278.46	-426.67	-426.67	127.92	1.65
4407.00	12.13	170.63	4370.79	-443.94	-443.94	131.22	2.93
4502.00	13.96	169.07	4463.34	-465.04	-465.04	135.02	1.96

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
4596.00	12.24	160.99	4554.90	-485.59	-485.59	140.41	2.67
4691.00	10.07	154.82	4648.10	-502.63	-502.63	147.22	2.60
4785.00	10.25	159.12	4740.63	-517.88	-517.88	153.70	0.83
4879.00	12.82	165.51	4832.72	-535.79	-535.79	159.29	3.05
4973.00	12.87	168.40	4924.37	-556.15	-556.15	164.01	0.69
5068.00	10.63	165.11	5017.38	-574.98	-574.98	168.39	2.47
5162.00	11.11	164.75	5109.69	-592.09	-592.09	172.99	0.52
5257.00	10.19	162.28	5203.05	-608.93	-608.93	177.96	1.08
5351.00	12.41	157.61	5295.23	-626.20	-626.20	184.34	2.55
5446.00	11.21	155.92	5388.21	-644.08	-644.08	192.00	1.32
5540.00	11.05	153.98	5480.44	-660.52	-660.52	199.68	0.43
5634.00	11.67	159.43	5572.60	-677.52	-677.52	206.98	1.32
5729.00	10.55	165.15	5665.82	-694.93	-694.93	212.59	1.65
5823.00	10.09	166.06	5758.30	-711.24	-711.24	216.77	0.53
5917.00	10.30	161.29	5850.82	-727.19	-727.19	221.45	0.93
6012.00	9.76	153.86	5944.37	-742.46	-742.46	227.73	1.48
6106.00	11.62	158.63	6036.74	-758.43	-758.43	234.69	2.18
6200.00	11.07	159.09	6128.90	-775.67	-775.67	241.35	0.59
6295.00	10.77	160.90	6222.18	-792.58	-792.58	247.51	0.48
8209.00	87.78	2.70	7534.46	263.28	263.28	386.56	5.11

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
8304.00	88.92	2.85	7537.19	358.13	358.13	391.15	1.21
8398.00	90.74	2.23	7537.46	452.03	452.03	395.31	2.04
8493.00	91.81	2.21	7535.35	546.93	546.93	398.99	1.13
8587.00	91.24	1.69	7532.84	640.84	640.84	402.18	0.82
8682.00	90.81	0.59	7531.14	735.81	735.81	404.07	1.25
8776.00	91.48	0.11	7529.27	829.79	829.79	404.64	0.87
8870.00	91.21	359.06	7527.07	923.76	923.76	403.96	1.15
8965.00	90.03	359.44	7526.04	1018.74	1018.74	402.73	1.30
9059.00	90.13	358.69	7525.90	1112.73	1112.73	401.19	0.81
9154.00	89.80	357.80	7525.96	1207.68	1207.68	398.29	1.00
9248.00	89.19	358.41	7526.78	1301.63	1301.63	395.18	0.91
9343.00	90.03	357.87	7527.42	1396.58	1396.58	392.10	1.05
9437.00	90.67	359.97	7526.84	1490.55	1490.55	390.34	2.33
9532.00	90.47	358.17	7525.90	1585.53	1585.53	388.80	1.91
9626.00	90.24	356.60	7525.32	1679.43	1679.43	384.51	1.69
9721.00	89.70	357.05	7525.37	1774.28	1774.28	379.25	0.73
9815.00	90.23	358.60	7525.43	1868.21	1868.21	375.67	1.75
9909.00	90.07	358.80	7525.18	1962.18	1962.18	373.54	0.28
10004.00	90.10	0.10	7525.04	2057.18	2057.18	372.63	1.37

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
10098.00	89.66	0.74	7525.23	2151.17	2151.17	373.32	0.82
10193.00	90.34	1.95	7525.23	2246.15	2246.15	375.55	1.46
10287.00	90.57	1.23	7524.49	2340.11	2340.11	378.16	0.81
10382.00	90.67	0.93	7523.46	2435.08	2435.08	379.94	0.33
10477.00	89.93	1.44	7522.96	2530.06	2530.06	381.91	0.94
10571.00	90.13	1.16	7522.91	2624.04	2624.04	384.04	0.37
10665.00	89.63	1.15	7523.10	2718.02	2718.02	385.93	0.54
10759.00	90.30	1.12	7523.15	2812.00	2812.00	387.80	0.71
10854.00	89.33	0.35	7523.46	2906.99	2906.99	389.02	1.31
10948.00	89.83	359.66	7524.15	3000.98	3000.98	389.03	0.90
11042.00	90.30	359.77	7524.04	3094.98	3094.98	388.56	0.51
11137.00	89.36	0.28	7524.32	3189.98	3189.98	388.60	1.12
11231.00	89.56	359.96	7525.20	3283.98	3283.98	388.79	0.40
11326.00	89.36	359.24	7526.09	3378.97	3378.97	388.12	0.79
11420.00	89.60	359.57	7526.94	3472.96	3472.96	387.14	0.43
11514.00	89.56	358.49	7527.63	3566.94	3566.94	385.54	1.15
11608.00	89.63	359.13	7528.29	3660.92	3660.92	383.59	0.69
11703.00	89.70	0.34	7528.84	3755.92	3755.92	383.15	1.28
11797.00	89.93	0.82	7529.15	3849.91	3849.91	384.10	0.57
11891.00	89.97	359.51	7529.23	3943.91	3943.91	384.37	1.40

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	°/100ft
11986.00	90.17	359.10	7529.12	4038.90	4038.90	383.21	0.48
12080.00	90.30	358.13	7528.73	4132.87	4132.87	380.94	1.04
12175.00	89.23	359.04	7529.12	4227.84	4227.84	378.60	1.48
12269.00	89.13	358.85	7530.47	4321.81	4321.81	376.87	0.23
12364.00	89.97	359.87	7531.22	4416.80	4416.80	375.81	1.39
12458.00	90.37	359.70	7530.95	4510.80	4510.80	375.45	0.47
12552.00	91.01	359.49	7529.82	4604.79	4604.79	374.78	0.71
12646.00	90.07	358.01	7528.94	4698.76	4698.76	372.74	1.86
12741.00	89.56	355.90	7529.24	4793.62	4793.62	367.69	2.28
12835.00	90.37	357.14	7529.30	4887.44	4887.44	361.99	1.57
12883.00	90.60	357.07	7528.89	4935.38	4935.38	359.57	0.51

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

5" = 100' FEET MD