



GAMMA RAY

5" = 100' FEET MD

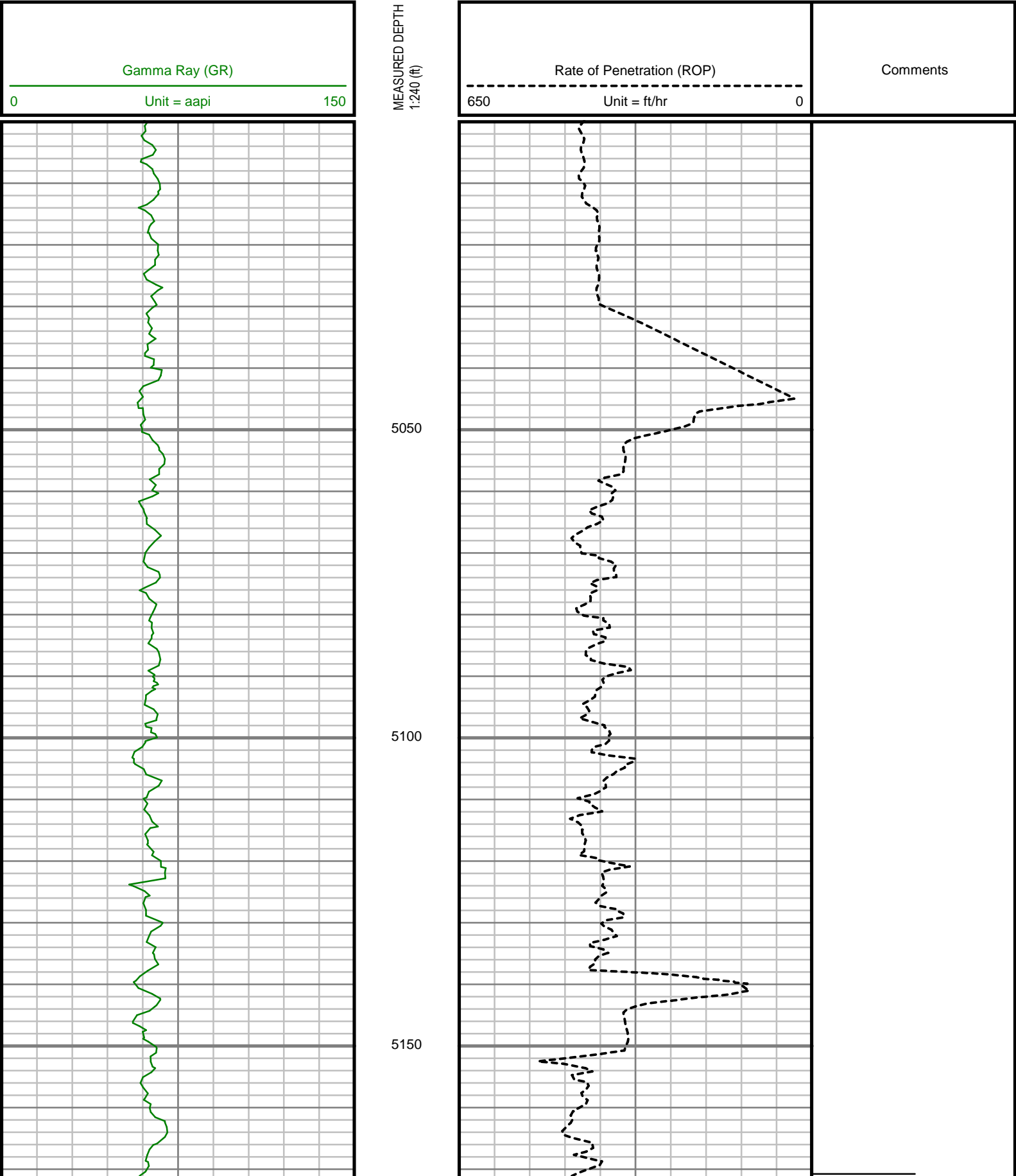
COMPANY : ENCANA OIL & GAS (U.S.A.) INC WELL : MCCONAHAY 1C-34H-H266 FIELD : WATTENBERG COUNTY : U.S.A. STATE : COLORADO COUNTRY : WELD UWI : 05-123-38059						COMPANY : ENCANA OIL & GAS (U.S.A.) INC WELL : MCCONAHAY 1C-34H-H266 FIELD : WATTENBERG COUNTY : U.S.A. STATE : COLORADO COUNTRY : WELD UWI : 05-123-38059					
DEPTH REF. : R.K.B.						OTHER SERVICES					
REF. HEIGHT : 13.000 ft						R.K.B. to Ground Level					
GROUND LEVEL : 5060.000 ft						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	96	1150	0 - 13	96	1150						
8.75	1150	8087	13 - 79	1150	8087						
6.125	8087	11694	79 - 91	8087	11694						
CASING RECORD											
CASING SIZE in	FROM ft	TO ft									
9.625	0	1142									
7	0	8077									
DRILLING CO.: ENSIGN RLG: 124						LMD UNIT NO.: C70-EW4#8DISTRICT: CASPER SPUD DATE: 04/02/2014 LMD START DATE: 04/04/2014 DEPTH: 5000 ft LMD END DATE: 04/12/2014 DEPTH: 11694 ft TOTAL DEPTH: 11694 ft					

Remarks
ENCANA OIL & GAS (U.S.A.) INC PRODUCTION AFE# 13178241
SCIENTIFIC DRILLING INTERNATIONAL JOB# 133900
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN #1: MWD / DIRECTIONAL RUN
SENSORS S/N: CONT = 814 / MWD EYE = 0429
BIT TO SENSOR OFFSET: SURVEY = 59.07 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-183 / CONT = 114/ MWD EYE = 0862/ GAMMA RAY = 1050
BIT TO SENSOR OFFSETS: SURVEY = 62.04 FT. / GAMMA RAY = 48.79 FT.
RUN #3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-375 / CONT = 831 / MWD EYE = 0429 / GAMMA RAY = 1074
BIT TO SENSOR OFFSETS: SURVEY = 66.26 FT. / GAMMA RAY = 53.01 FT.
RUN #4: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-197 / CONT = 114 / MWD EYE = 0862 / GAMMA RAY = 1050
BIT TO SENSOR OFFSETS: SURVEY = 65.00 FT. / GAMMA RAY = 51.75 FT.

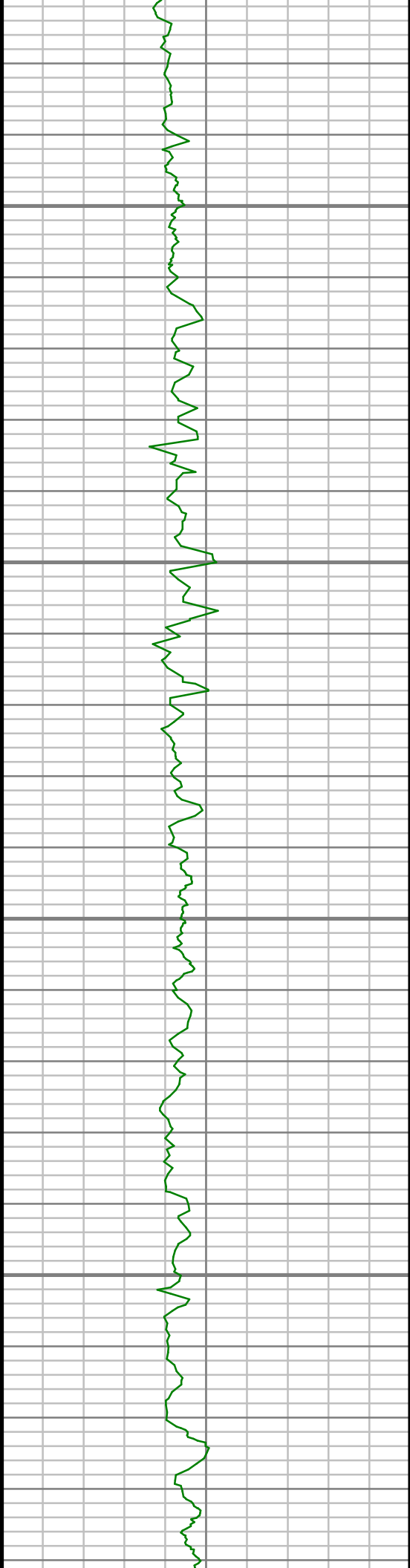
[illegible]

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.

ENCANA OIL AND GAS (U.S.A.) INC  
MCCONAHAY 1C-34H-H266  
WATTENBERG FIELD  
WELD COUNTY,COLORADO  
05-123-38059



S: 30 MD: 5171.00 ft Inc: 10.22  
deg Az: 160.52 deg TVD:  
5076.04 ft

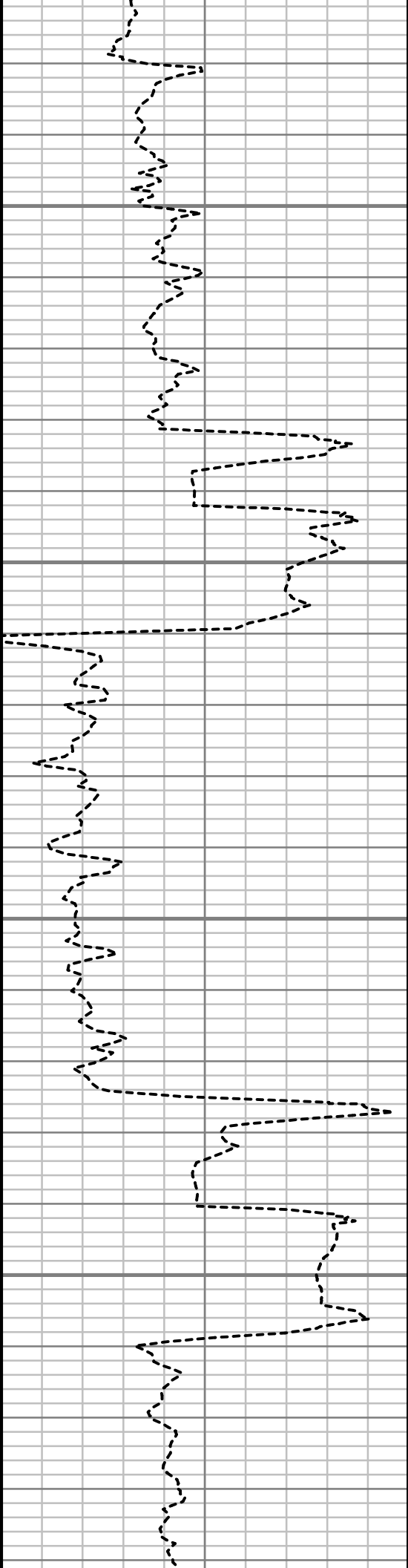


5200

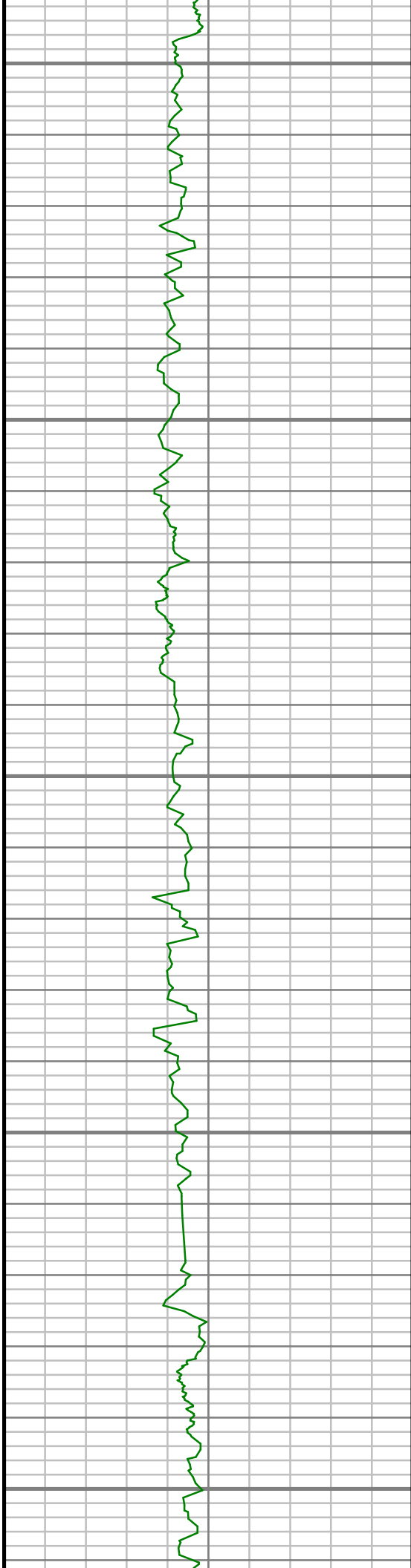
5250

5300

5350



S: 31 MD: 5362.00 ft Inc: 9.07  
deg Az: 142.11 deg TVD:  
5264.38 ft



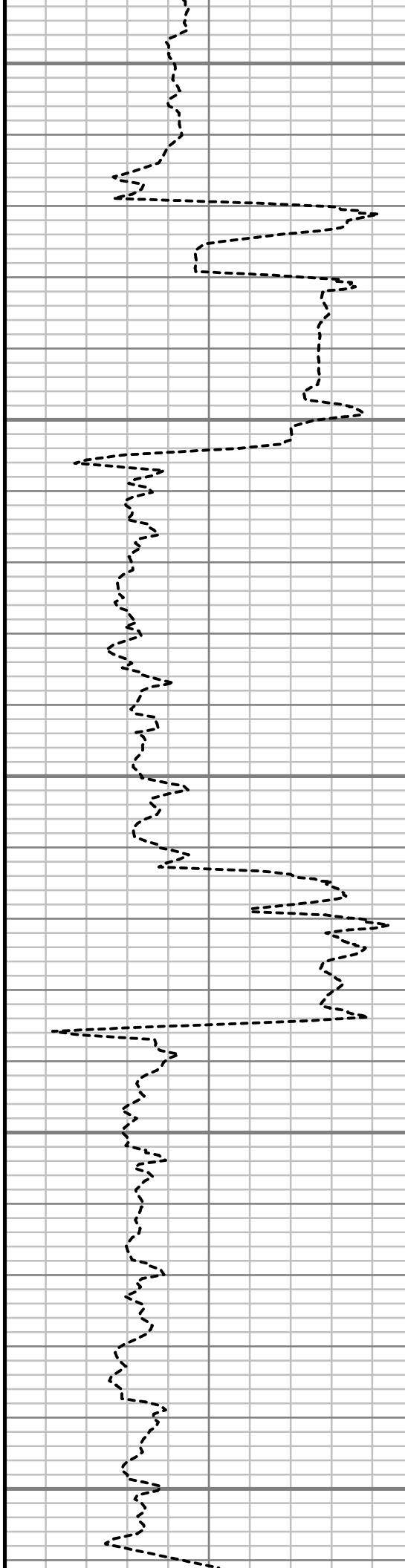
5400

5450

5500

5550

5600



S: 32 MD: 5552.00 ft Inc: 11.01  
deg Az: 147.75 deg TVD:  
5451.47 ft

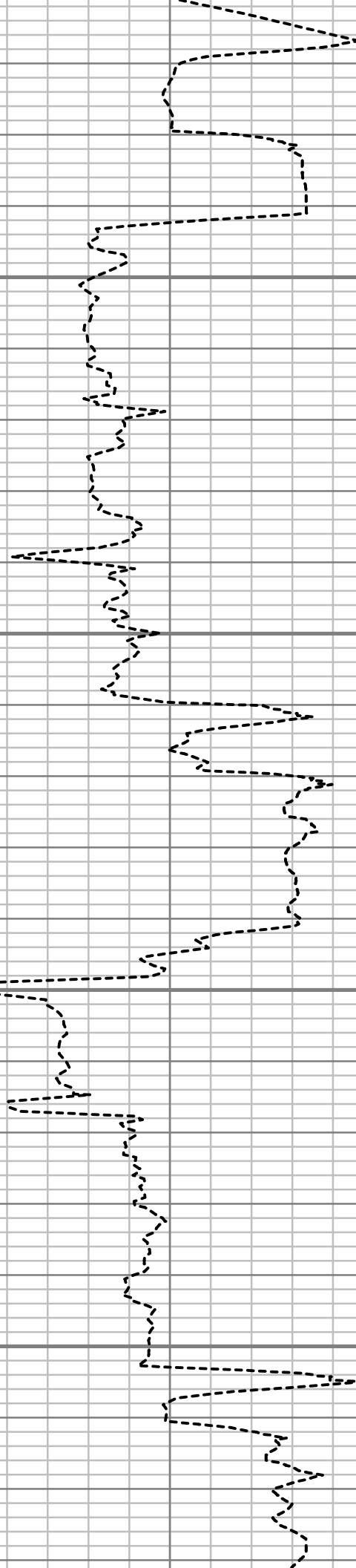


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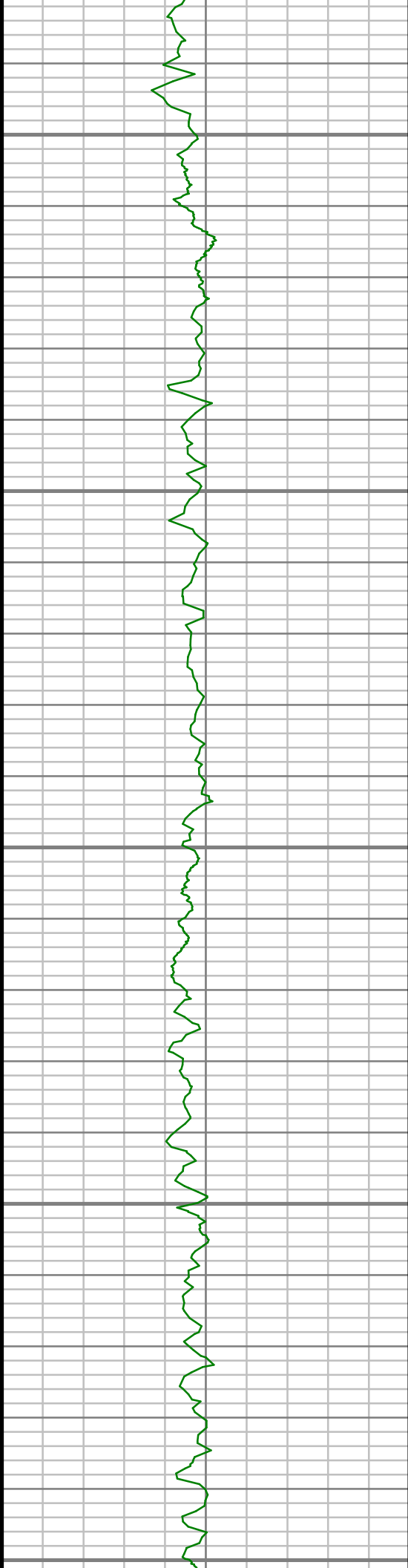
5700

5750

5800



S: 33 MD: 5743.00 ft Inc: 8.19  
deg Az: 157.40 deg TVD:  
5639.78 ft



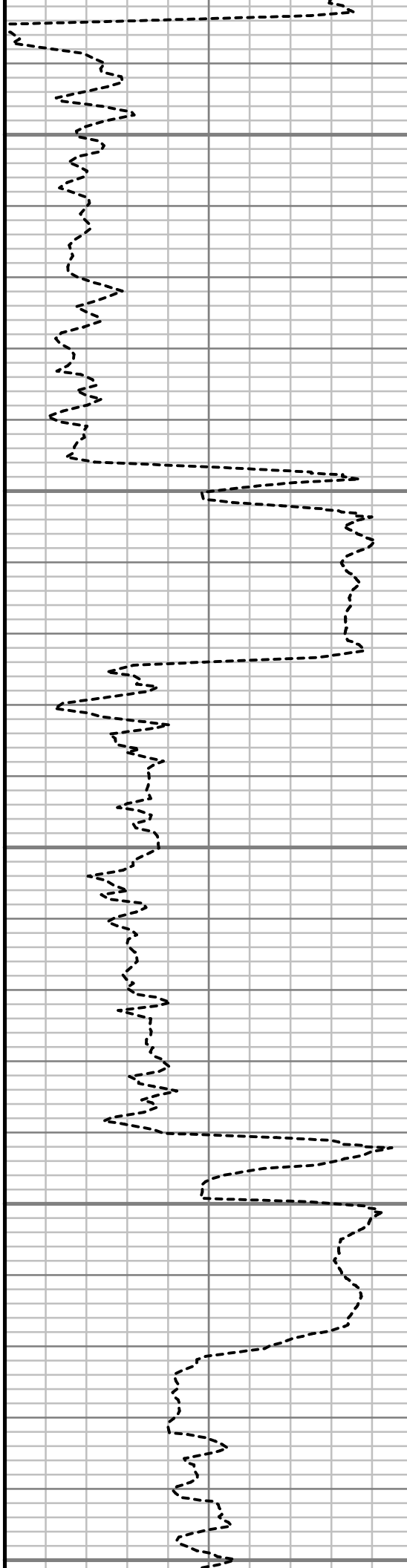
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5900

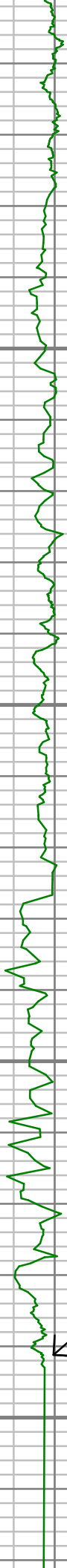
5950

6000

6050



S: 34 MD: 5934.00 ft Inc: 8.42  
deg Az: 139.50 deg TVD:  
5828.81 ft



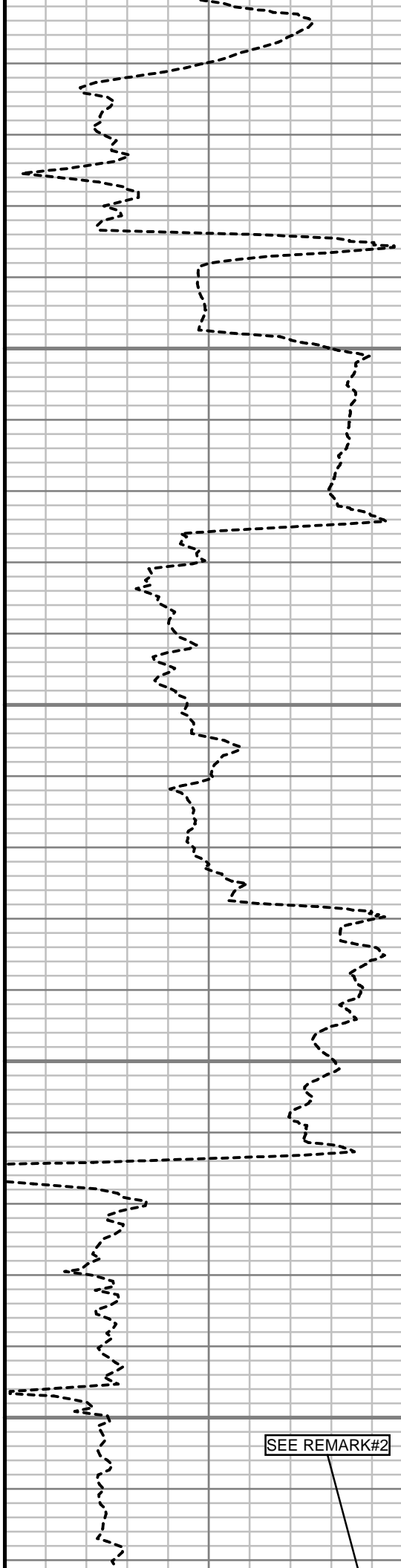
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6150

6200

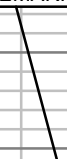
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SEE REMARK#1

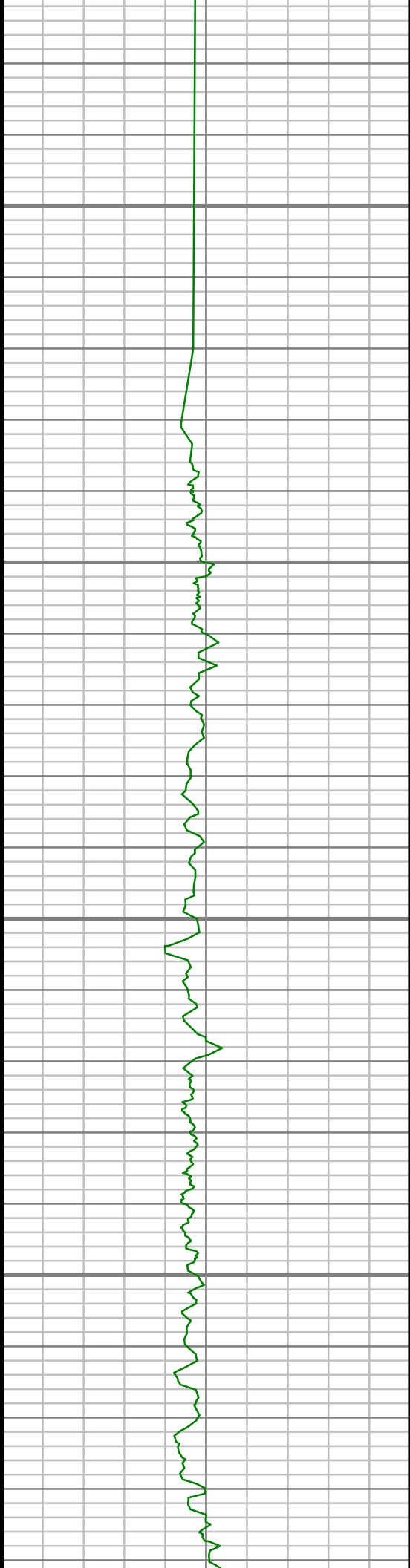


S: 35 MD: 6124.00 ft Inc: 8.50  
deg Az: 148.55 deg TVD:  
6016.76 ft

SEE REMARK#2





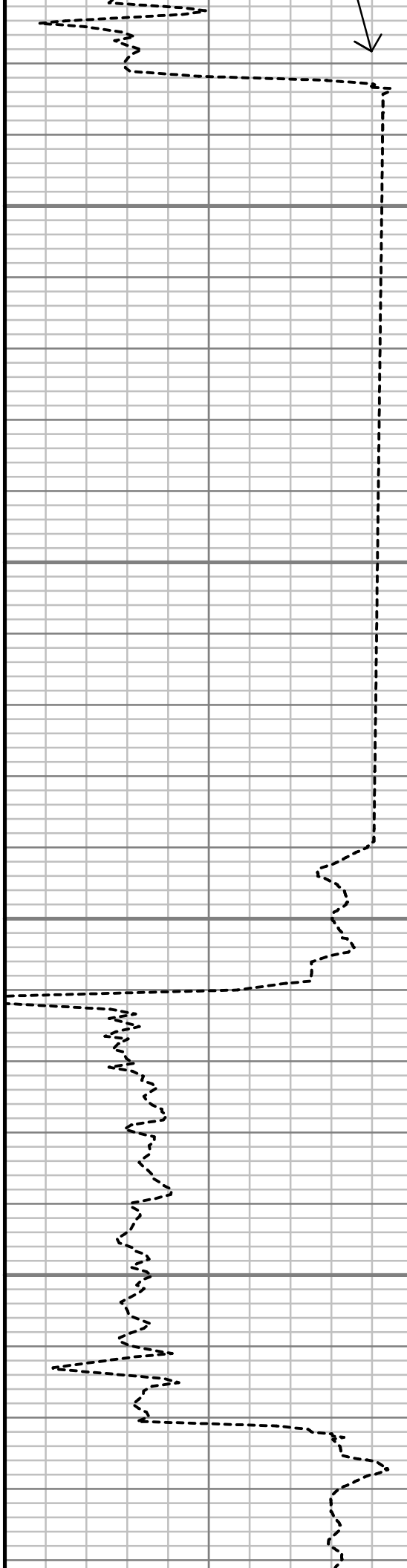


6300

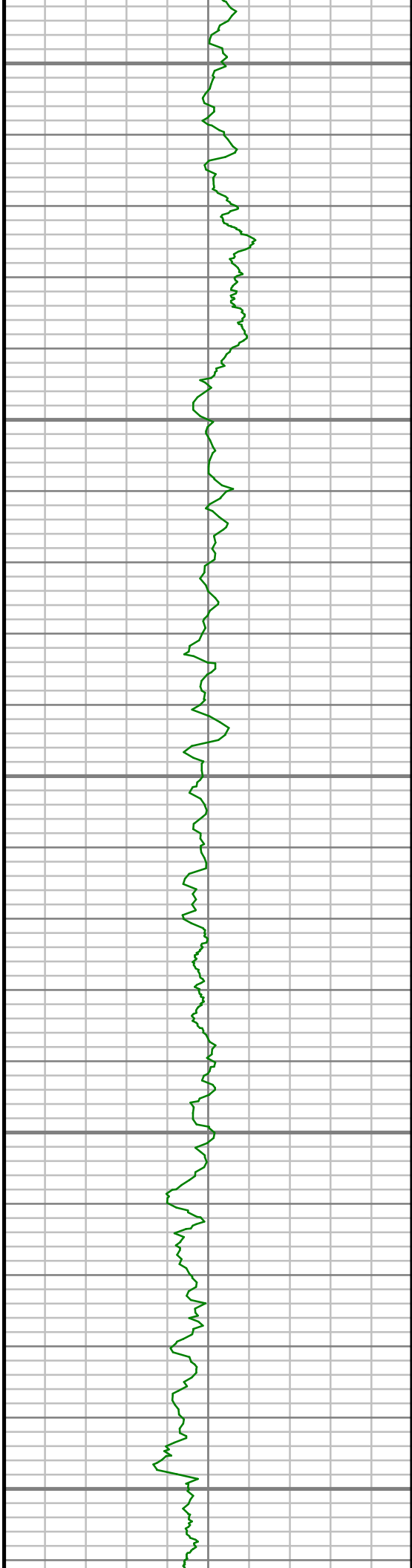
6350

6400

6450



S: 36 MD: 6315.00 ft Inc: 10.83  
deg Az: 147.97 deg TVD:  
6205.03 ft



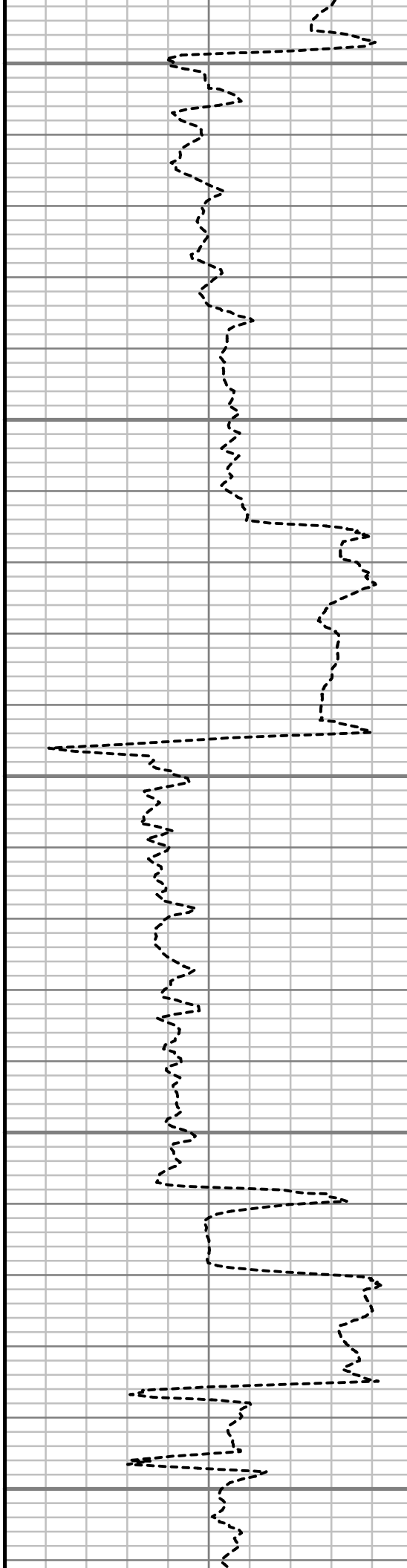
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6550

6600

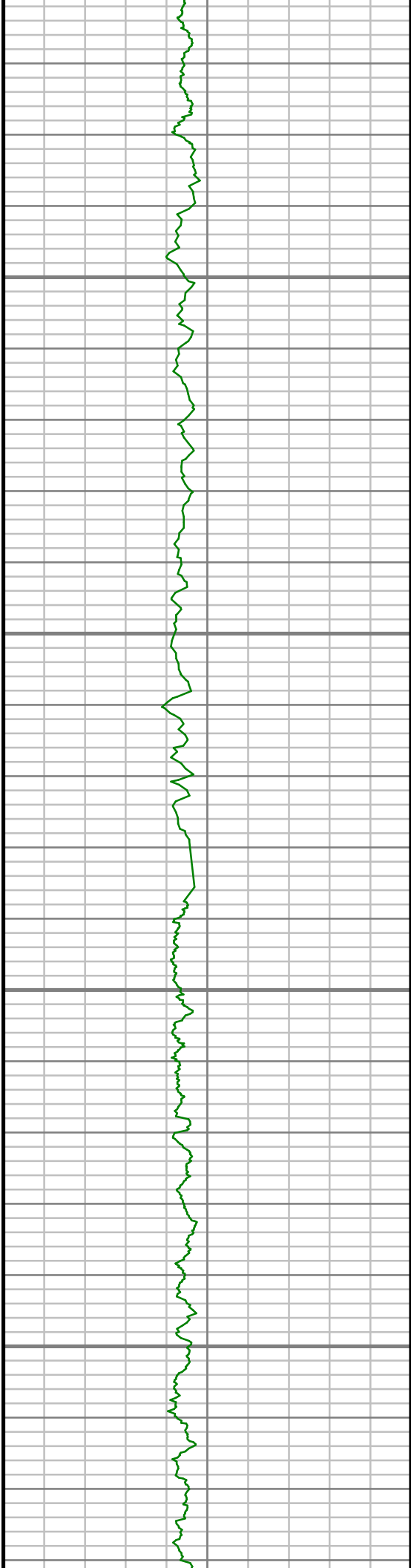
6650

6700



S: 37 MD: 6505.00 ft Inc: 10.16  
deg Az: 152.37 deg TVD:  
6391.86 ft

S: 38 MD: 6696.00 ft Inc: 9.45  
deg Az: 154.12 deg TVD:  
6580.07 ft

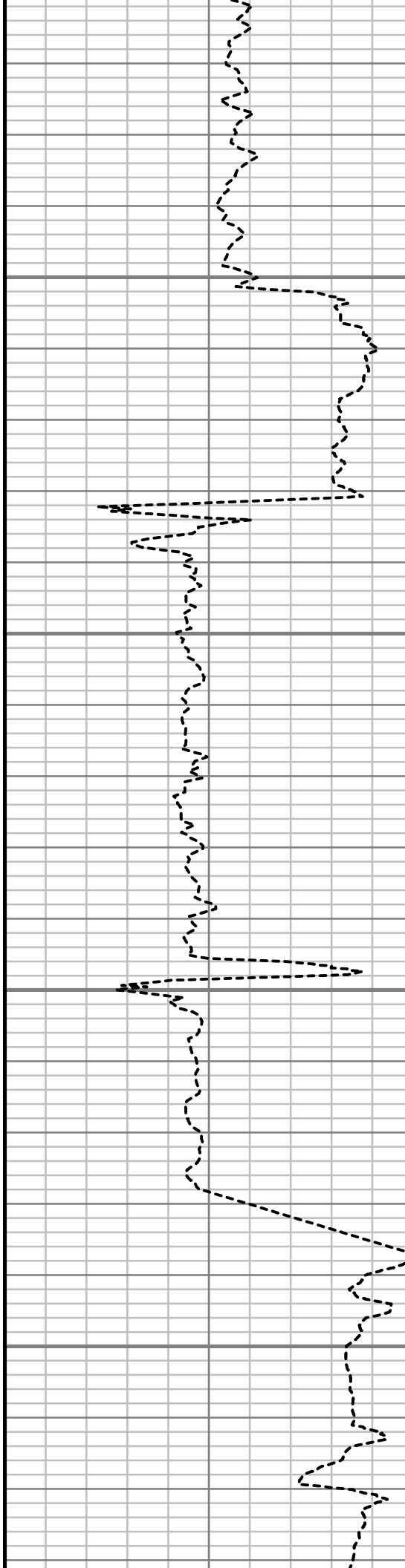


6750

6800

6850

6900



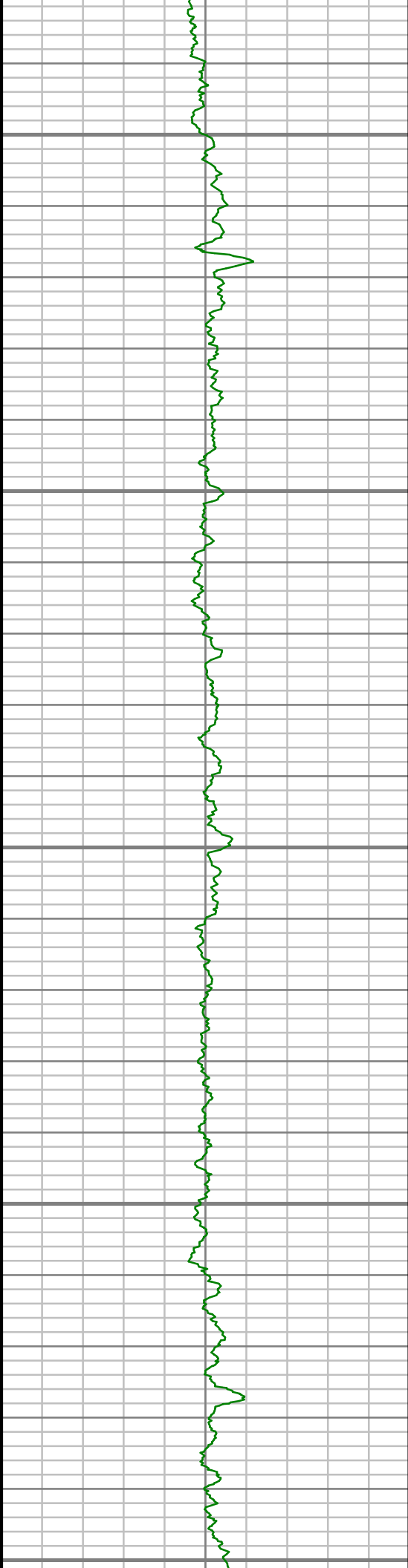
S: 39 MD: 6791.00 ft Inc: 10.34  
deg Az: 158.06 deg TVD:  
6673.65 ft

S: 40 MD: 6823.00 ft Inc: 9.48  
deg Az: 156.12 deg TVD:  
6705.17 ft

S: 41 MD: 6855.00 ft Inc: 8.67  
deg Az: 156.83 deg TVD:  
6736.77 ft

S: 42 MD: 6886.00 ft Inc: 7.84  
deg Az: 157.80 deg TVD:  
6767.45 ft

S: 43 MD: 6918.00 ft Inc: 8.50  
deg Az: 163.34 deg TVD:  
6799.13 ft



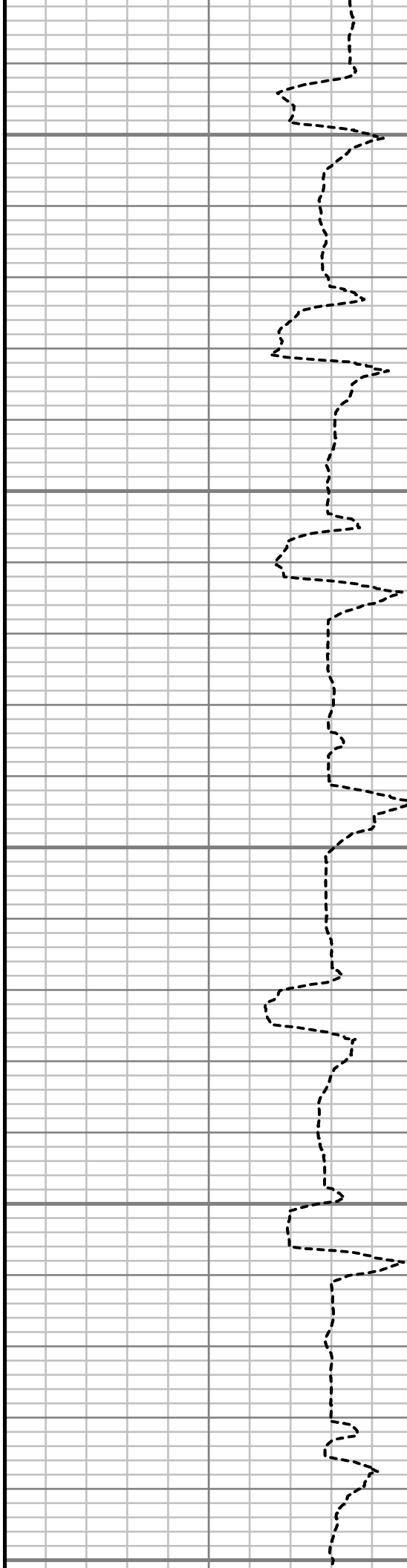
6950

7000

7050

7100

7150



S: 44 MD: 6950.00 ft Inc: 10.38  
deg Az: 173.43 deg TVD:  
6830.69 ft

S: 45 MD: 6982.00 ft Inc: 12.48  
deg Az: 181.27 deg TVD:  
6862.06 ft

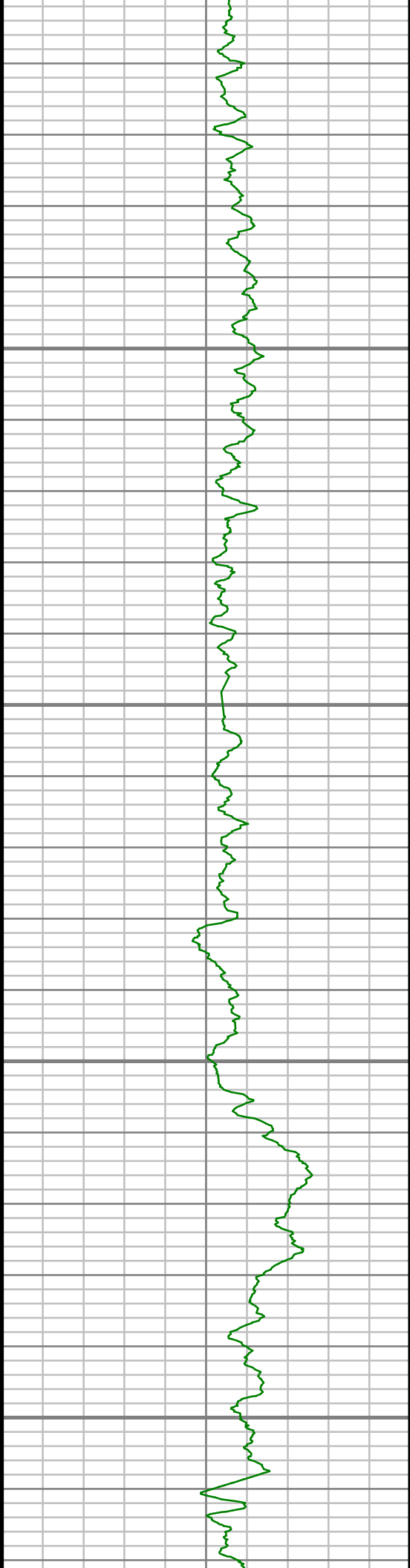
S: 46 MD: 7013.00 ft Inc: 14.35  
deg Az: 187.65 deg TVD:  
6892.21 ft

S: 47 MD: 7045.00 ft Inc: 16.75  
deg Az: 190.87 deg TVD:  
6923.04 ft

S: 48 MD: 7077.00 ft Inc: 18.68  
deg Az: 194.93 deg TVD:  
6953.52 ft

S: 49 MD: 7109.00 ft Inc: 21.04  
deg Az: 199.17 deg TVD:  
6983.62 ft

S: 50 MD: 7140.00 ft Inc: 22.99  
deg Az: 205.64 deg TVD:  
7012.36 ft

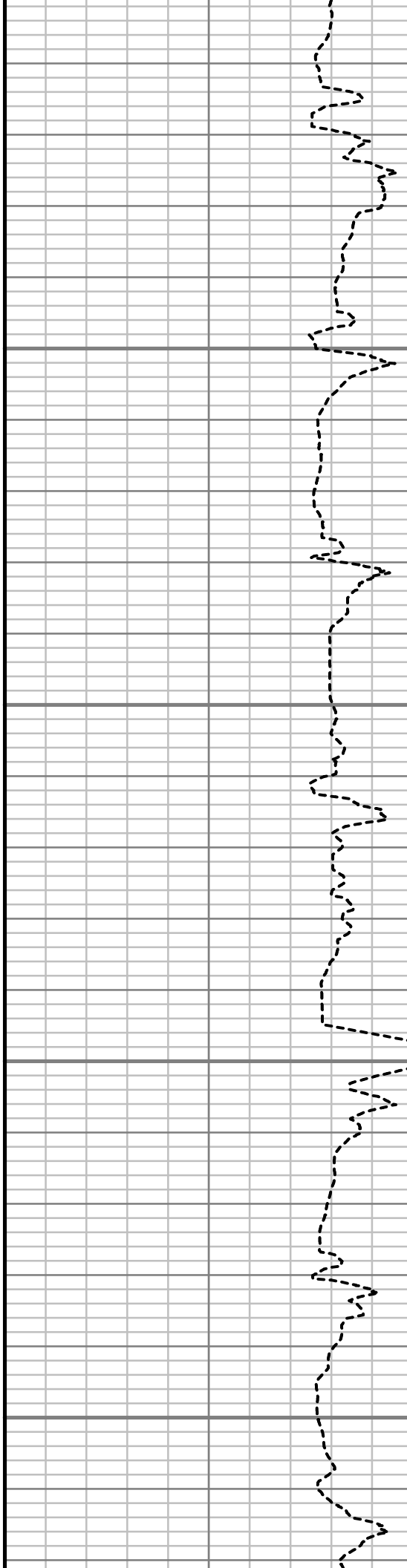


7200

7250

7300

7350



S: 51 MD: 7172.00 ft Inc: 24.09  
deg Az: 210.82 deg TVD:  
7041.70 ft

S: 52 MD: 7204.00 ft Inc: 24.69  
deg Az: 216.45 deg TVD:  
7070.85 ft

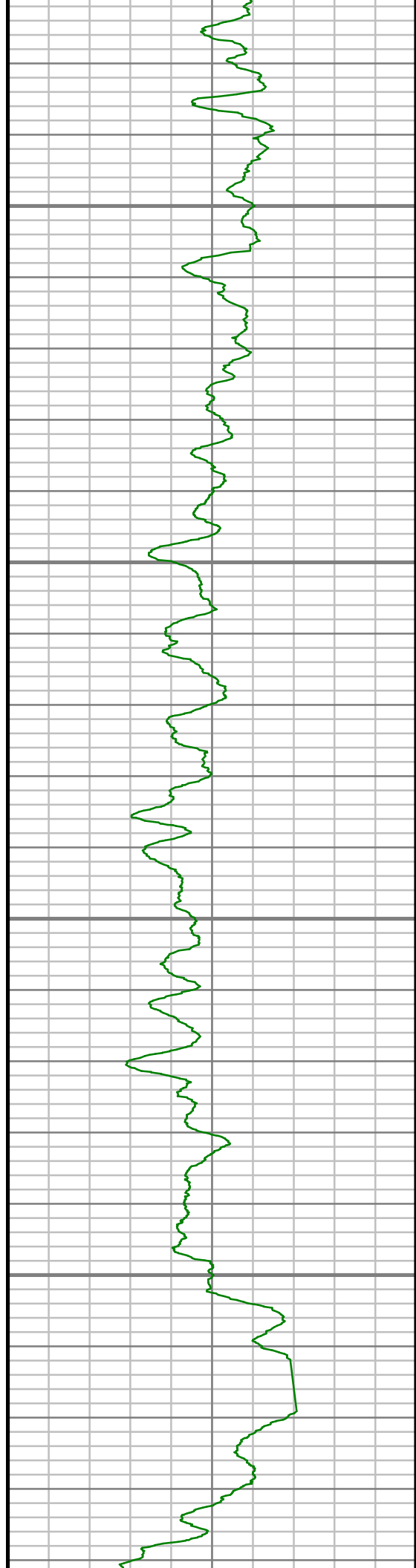
S: 53 MD: 7236.00 ft Inc: 26.76  
deg Az: 223.17 deg TVD:  
7099.68 ft

S: 54 MD: 7268.00 ft Inc: 28.77  
deg Az: 227.79 deg TVD:  
7128.00 ft

S: 55 MD: 7299.00 ft Inc: 31.68  
deg Az: 232.25 deg TVD:  
7154.79 ft

S: 56 MD: 7331.00 ft Inc: 33.39  
deg Az: 238.11 deg TVD:  
7181.77 ft

S: 57 MD: 7363.00 ft Inc: 36.47  
deg Az: 243.99 deg TVD:  
7208.01 ft

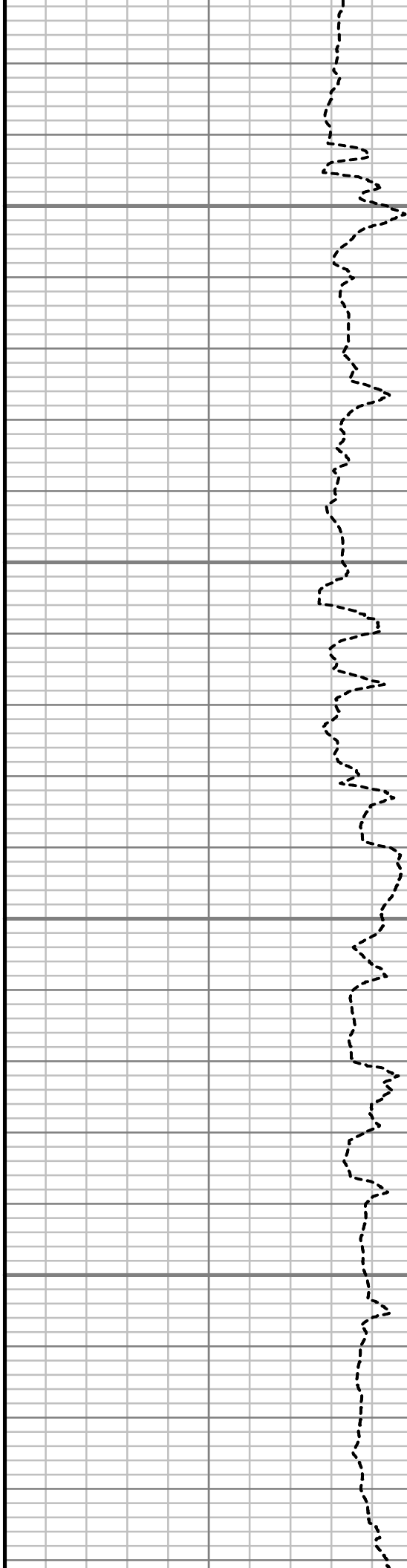


7400

7450

7500

7550



S: 58 MD: 7395.00 ft Inc: 39.27  
deg Az: 247.71 deg TVD:  
7233.27 ft

S: 59 MD: 7427.00 ft Inc: 42.43  
deg Az: 250.45 deg TVD:  
7257.48 ft

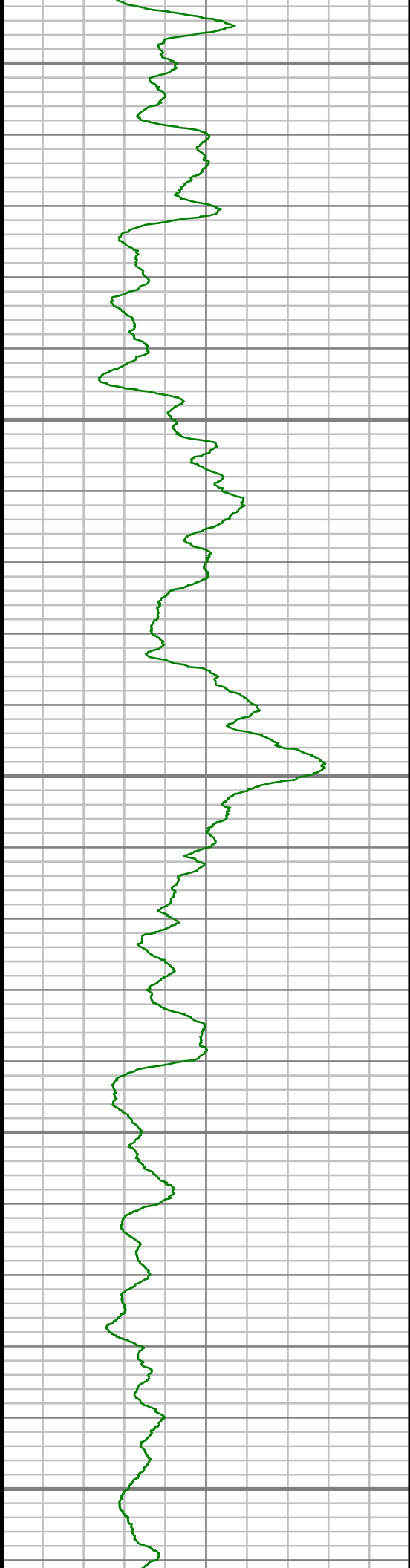
S: 60 MD: 7458.00 ft Inc: 46.79  
deg Az: 255.98 deg TVD:  
7279.55 ft

S: 61 MD: 7490.00 ft Inc: 51.34  
deg Az: 258.66 deg TVD:  
7300.51 ft

S: 62 MD: 7522.00 ft Inc: 53.50  
deg Az: 259.83 deg TVD:  
7320.03 ft

S: 63 MD: 7554.00 ft Inc: 54.80  
deg Az: 260.04 deg TVD:  
7338.77 ft

S: 64 MD: 7585.00 ft Inc: 55.70  
deg Az: 260.41 deg TVD:  
7356.44 ft



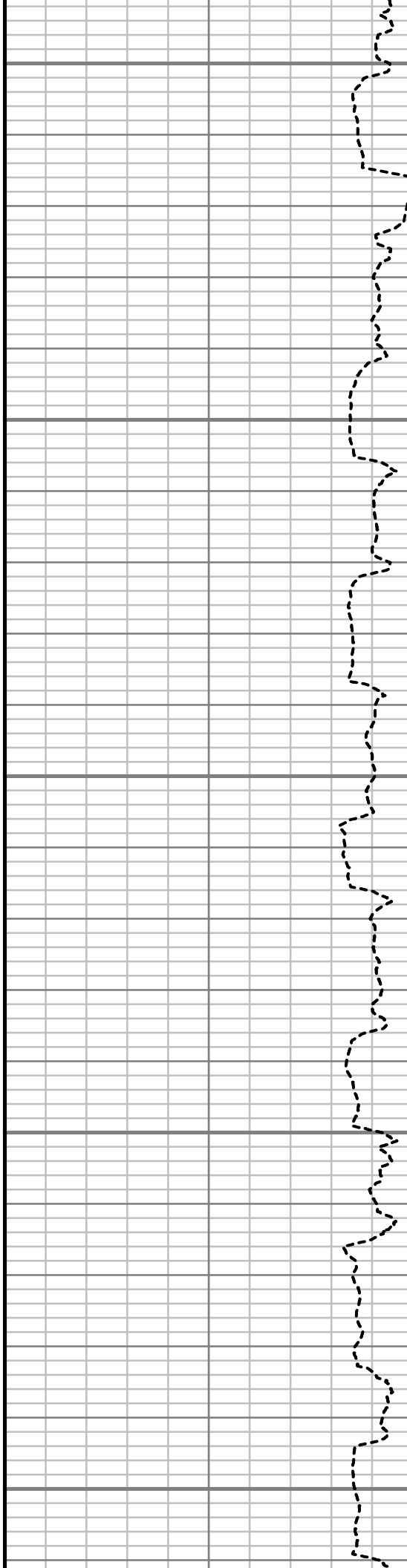
7600

7650

7700

7750

7800



S: 65 MD: 7617.00 ft Inc: 56.56  
deg Az: 262.01 deg TVD:  
7374.27 ft

S: 66 MD: 7649.00 ft Inc: 56.98  
deg Az: 265.00 deg TVD:  
7391.81 ft

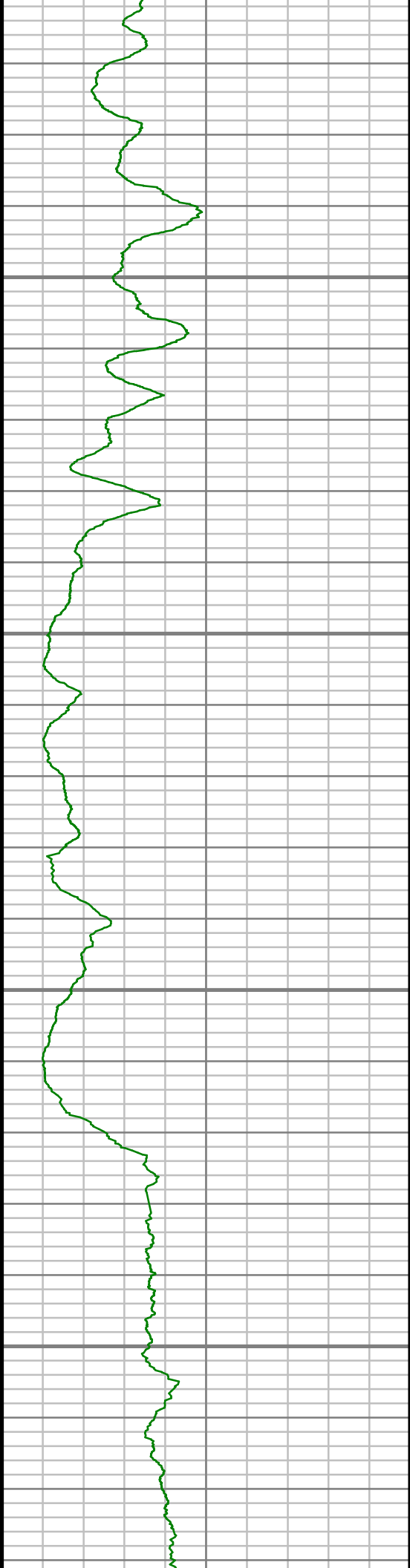
S: 67 MD: 7681.00 ft Inc: 58.82  
deg Az: 266.24 deg TVD:  
7408.81 ft

S: 68 MD: 7713.00 ft Inc: 61.22  
deg Az: 267.96 deg TVD:  
7424.80 ft

S: 69 MD: 7744.00 ft Inc: 62.94  
deg Az: 268.08 deg TVD:  
7439.32 ft

S: 70 MD: 7776.00 ft Inc: 64.64  
deg Az: 268.24 deg TVD:  
7453.45 ft

S: 71 MD: 7808.00 ft Inc: 66.24  
deg Az: 268.36 deg TVD:  
7467.58 ft

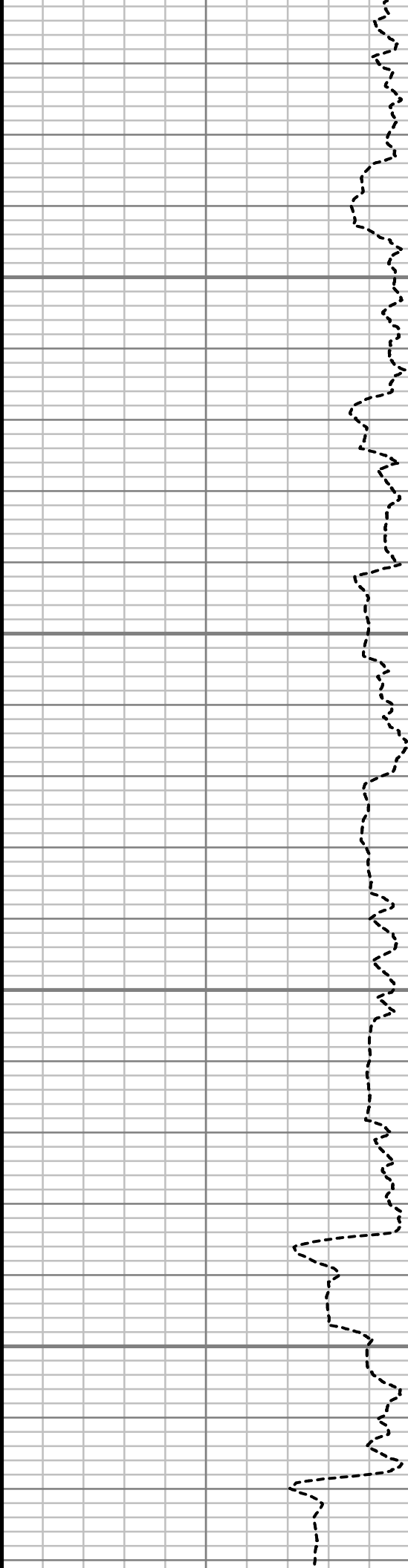


7850

7900

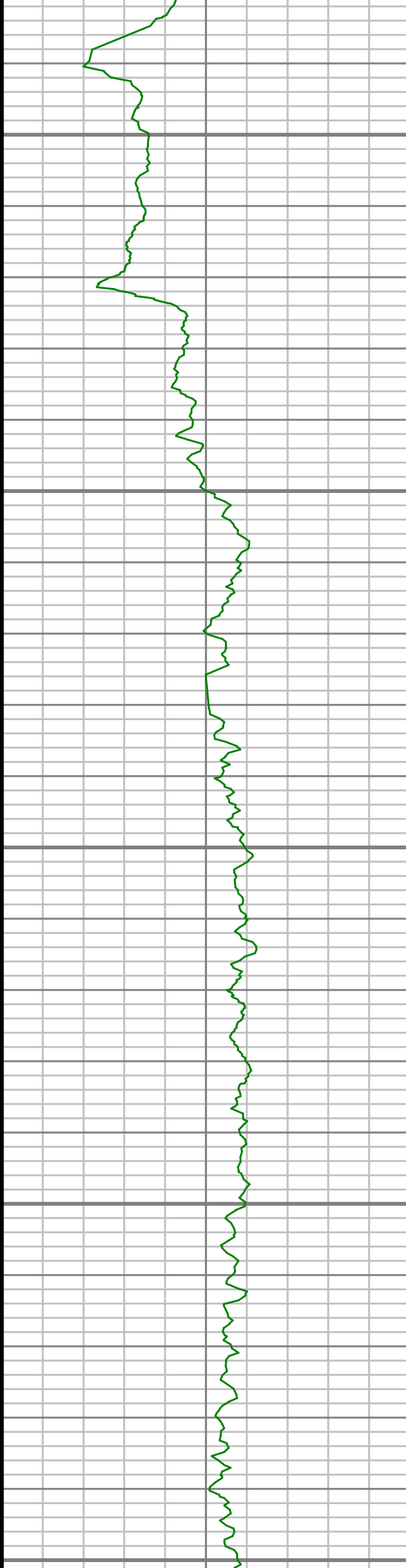
7950

8000



deg Az: 268.02 deg TVD: 7466.75 ft	
S: 72	MD: 7839.00 ft Inc: 68.92 deg Az: 267.93 deg TVD: 7478.57 ft
S: 73	MD: 7871.00 ft Inc: 71.57 deg Az: 267.43 deg TVD: 7489.39 ft
S: 74	MD: 7903.00 ft Inc: 73.93 deg Az: 267.20 deg TVD: 7498.88 ft
S: 75	MD: 7935.00 ft Inc: 75.68 deg Az: 267.41 deg TVD: 7507.26 ft
S: 76	MD: 7967.00 ft Inc: 77.72 deg Az: 267.91 deg TVD: 7514.62 ft
S: 77	MD: 7998.00 ft Inc: 79.47 deg Az: 268.68 deg TVD: 7520.75 ft
S: 78	MD: 8019.00 ft Inc: 81.07 deg Az: 269.16 deg TVD: 7524.30 ft





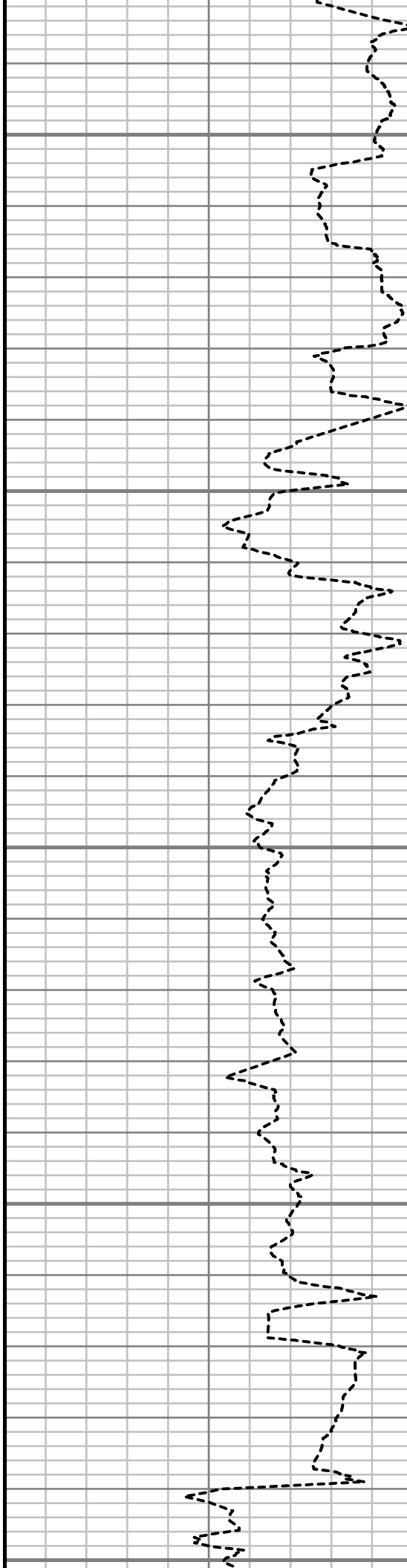
8050

8100

8150

8200

8250



S: 79 MD: 8146.00 ft Inc: 87.41  
deg Az: 269.63 deg TVD:  
7537.04 ft

S: 80 MD: 8241.00 ft Inc: 89.40  
deg Az: 270.72 deg TVD:  
7539.69 ft

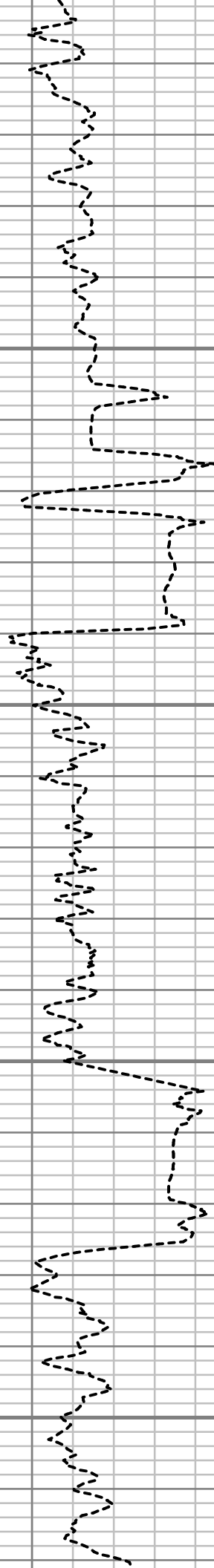


8300

8350

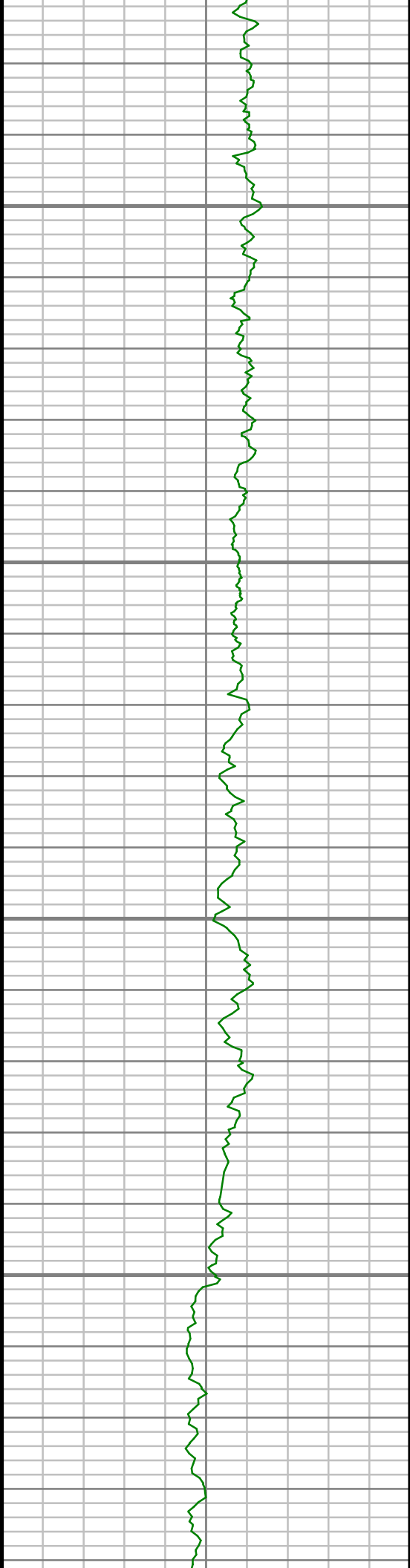
8400

8450



S: 81 MD: 8337.00 ft Inc: 89.97  
deg Az: 271.00 deg TVD:  
7540.22 ft

S: 82 MD: 8432.00 ft Inc: 91.44  
deg Az: 272.00 deg TVD:  
7539.05 ft

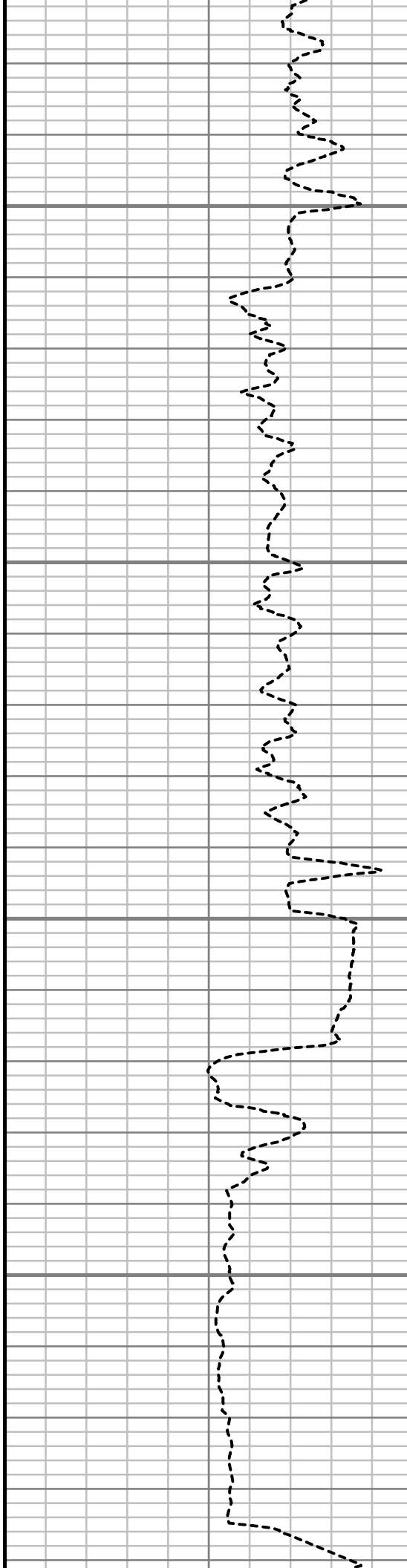


8500

8550

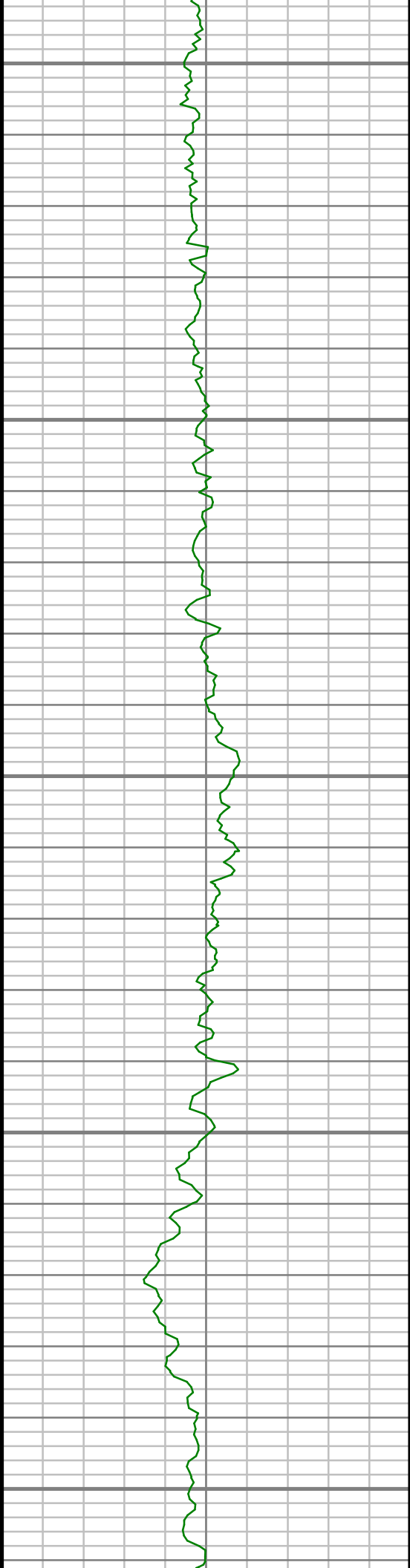
8600

8650



S: 83 MD: 8527.00 ft Inc: 90.37  
deg Az: 271.65 deg TVD:  
7537.55 ft

S: 84 MD: 8623.00 ft Inc: 91.85  
deg Az: 272.47 deg TVD:  
7535.69 ft



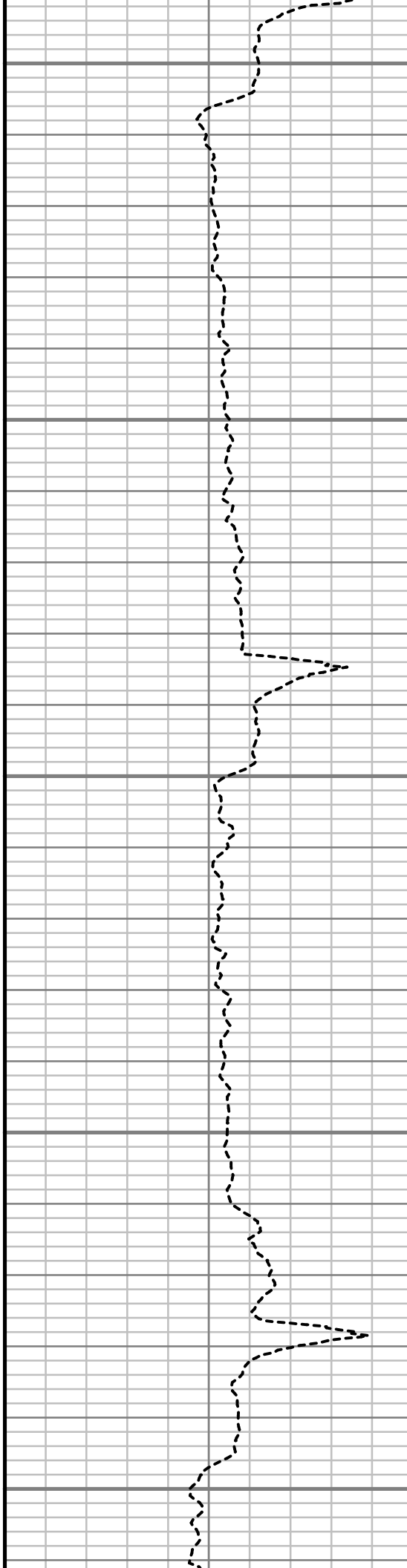
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8750

8800

8850

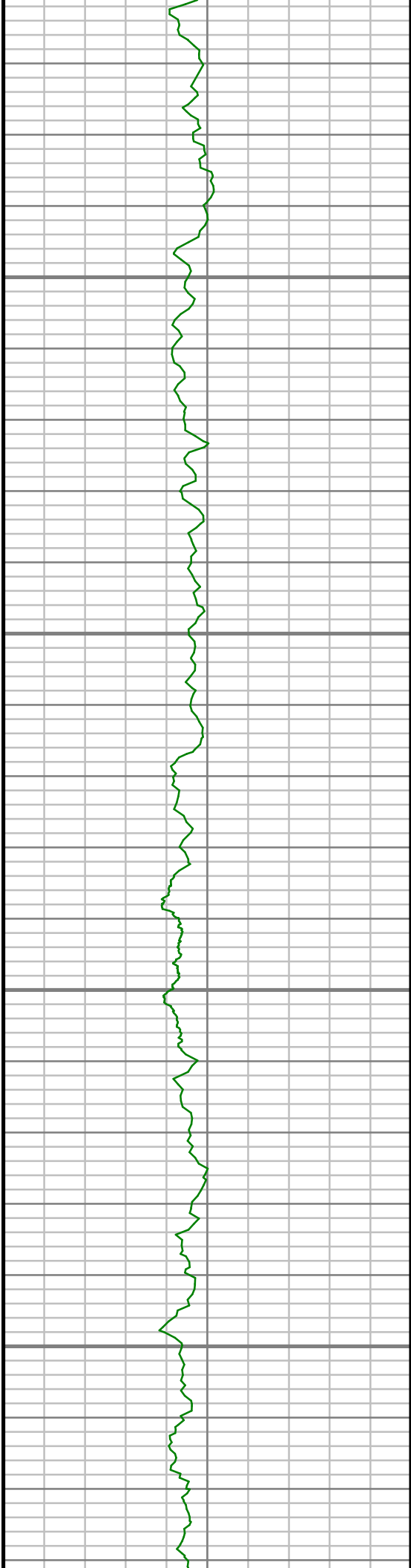
8900



S: 85 MD: 8718.00 ft Inc: 91.51  
deg Az: 272.50 deg TVD:  
7532.90 ft

S: 86 MD: 8813.00 ft Inc: 91.28  
deg Az: 272.02 deg TVD:  
7530.59 ft

S: 87 MD: 8908.00 ft Inc: 91.18  
deg Az: 271.50 deg TVD:  
7528.10 ft

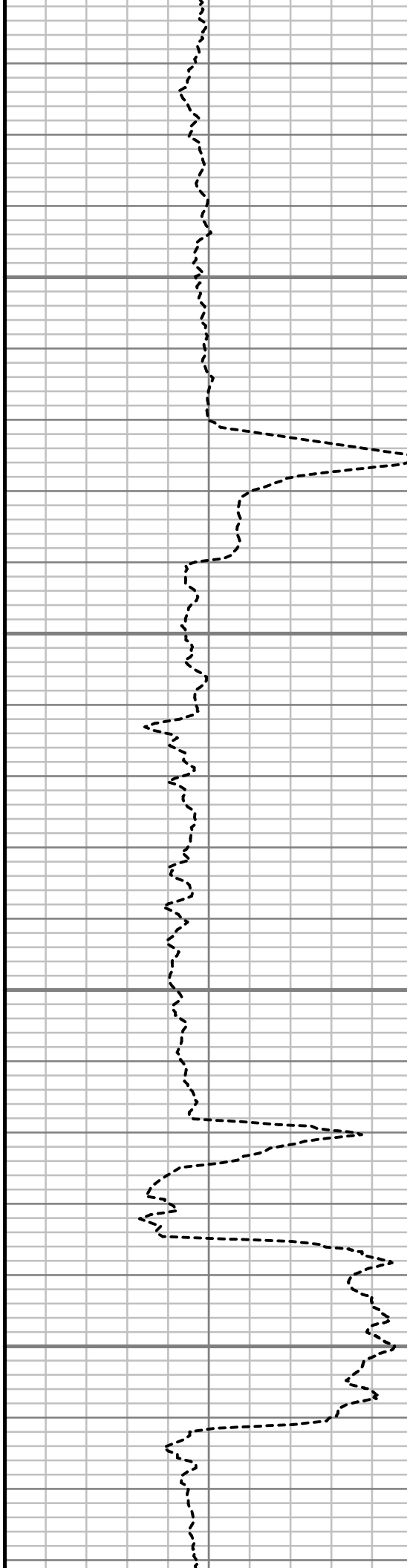


8950

9000

9050

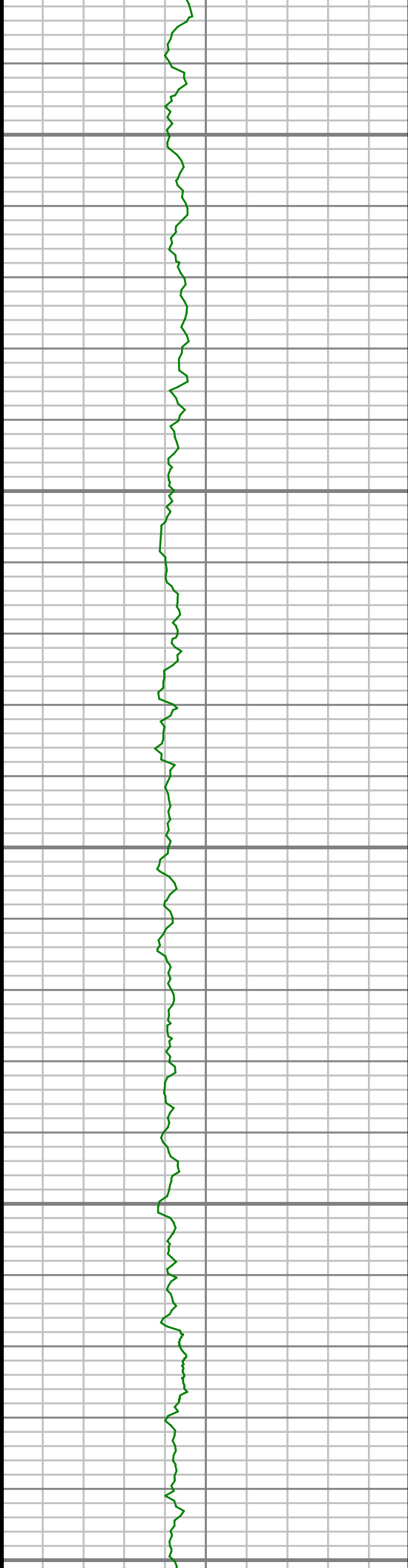
9100



deg Az: 2/2.46 deg TVD:  
7528.56 ft

S: 88 MD: 9004.00 ft Inc: 91.07  
deg Az: 272.85 deg TVD:  
7526.67 ft

S: 89 MD: 9099.00 ft Inc: 90.34  
deg Az: 272.40 deg TVD:  
7525.50 ft



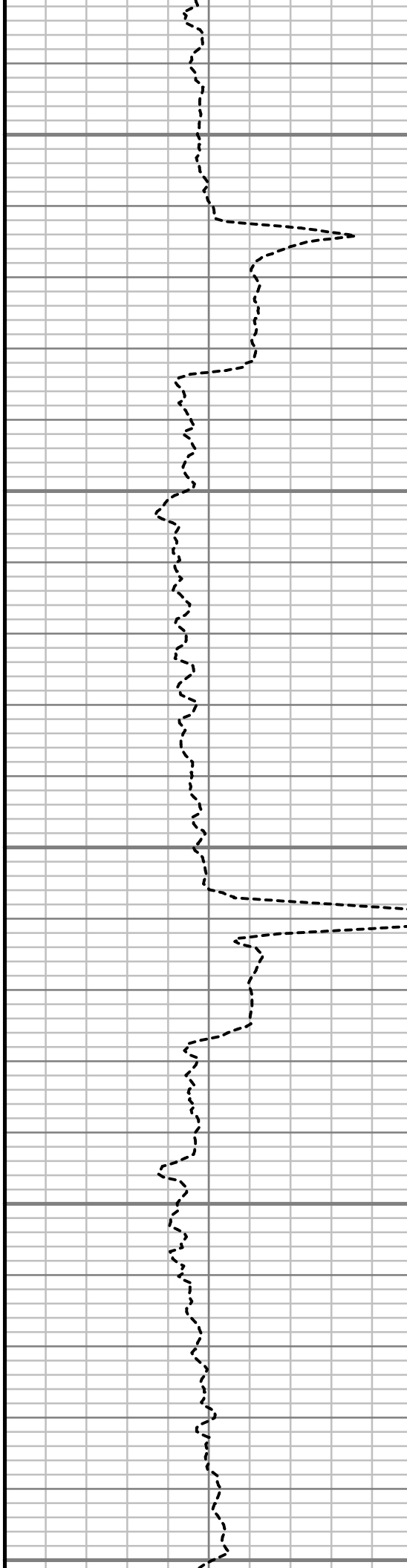
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9200

9250

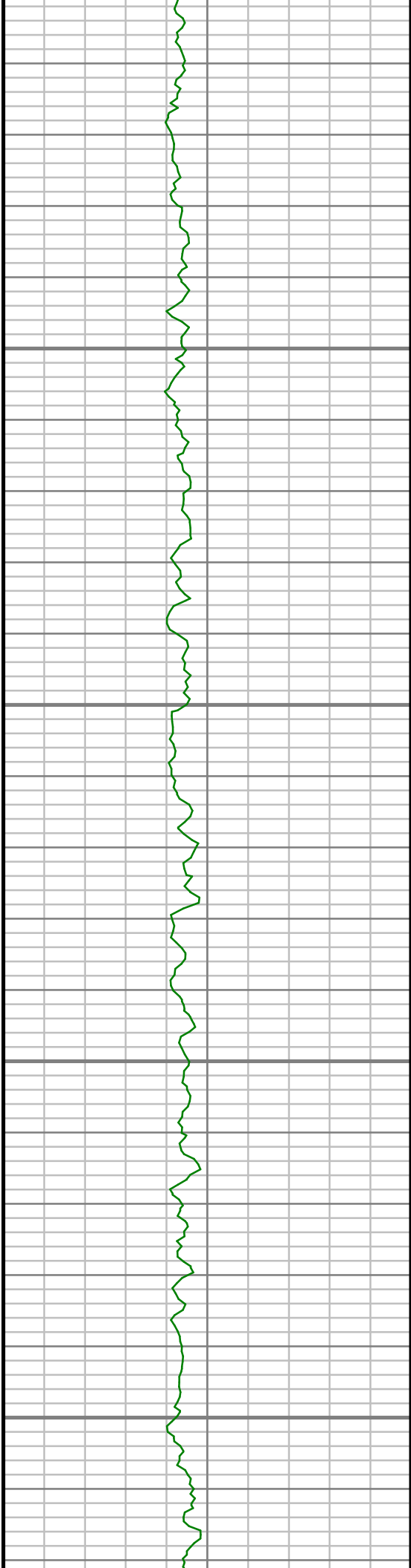
9300

9350



S: 90 MD: 9194.00 ft Inc: 89.63  
deg Az: 272.12 deg TVD:  
7525.53 ft

S: 91 MD: 9290.00 ft Inc: 89.03  
deg Az: 271.13 deg TVD:  
7526.65 ft

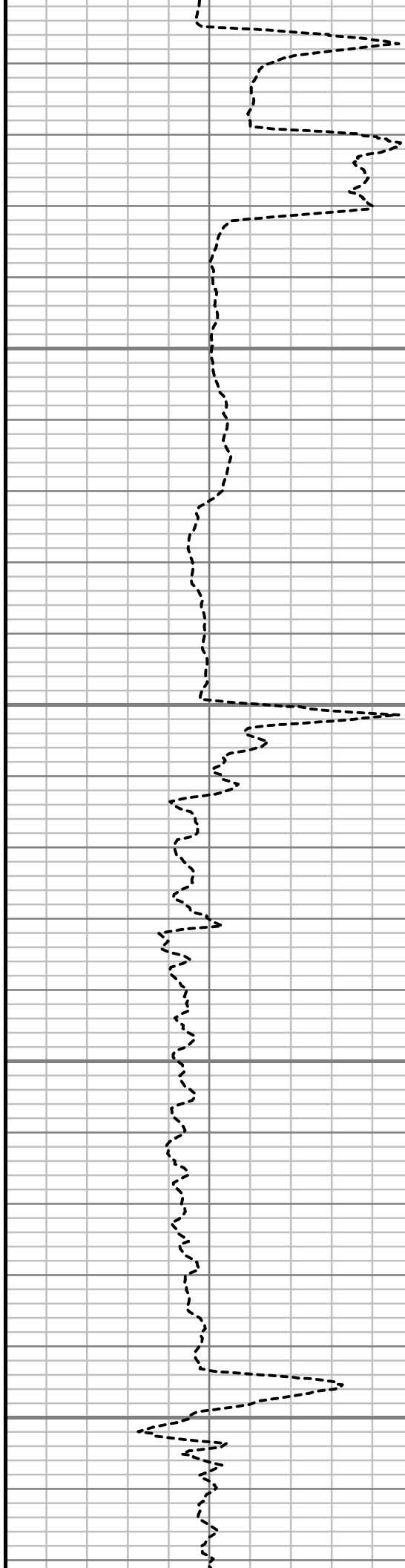


9400

9450

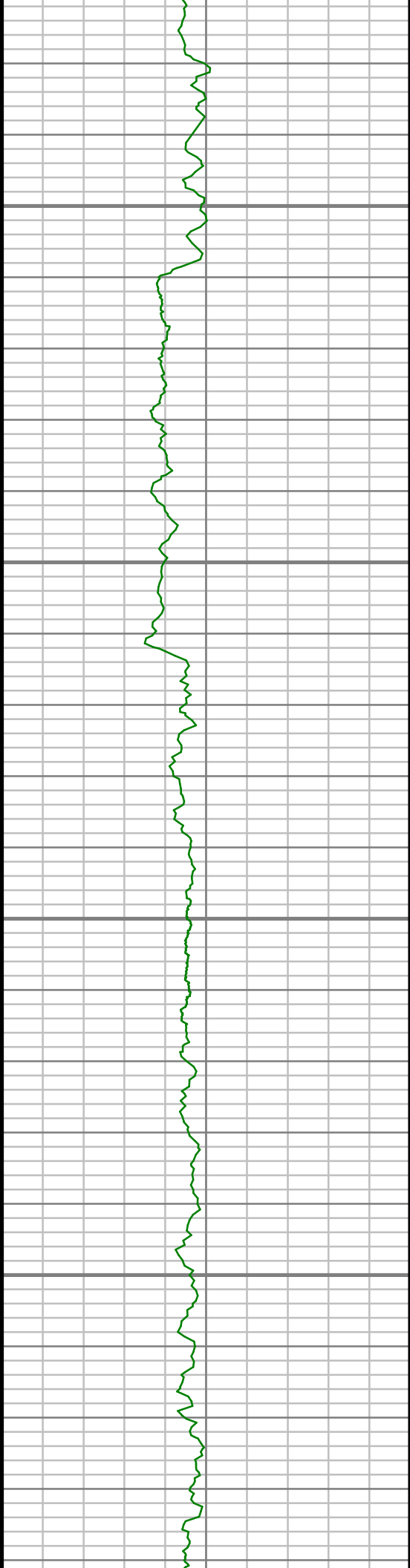
9500

9550



S: 92 MD: 9385.00 ft Inc: 89.53  
deg Az: 271.68 deg TVD:  
7527.85 ft

S: 93 MD: 9480.00 ft Inc: 89.73  
deg Az: 272.77 deg TVD:  
7528.46 ft

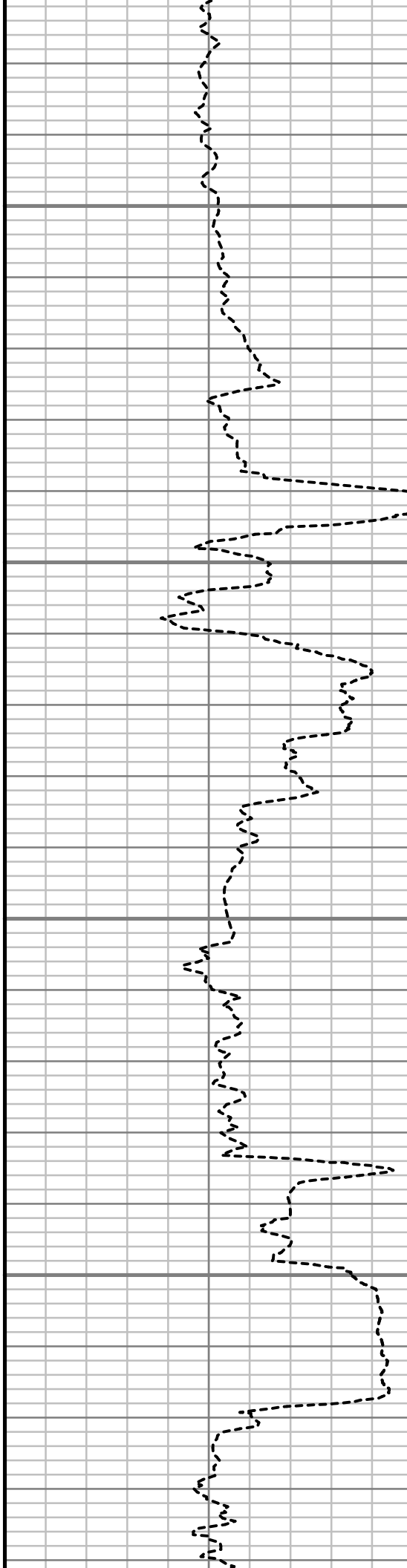


9600

9650

9700

9750

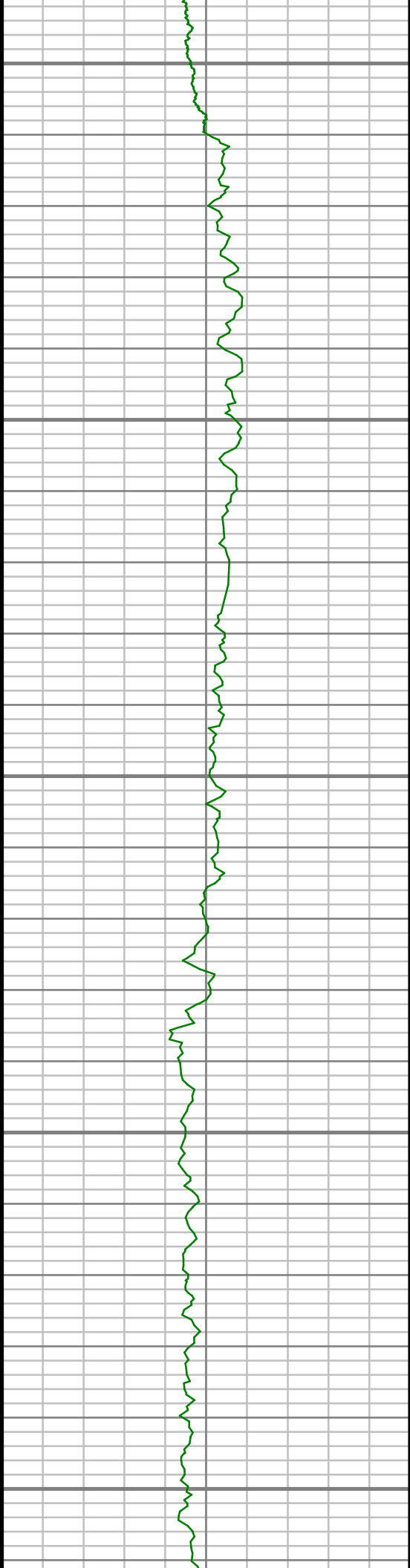


S: 94 MD: 9575.00 ft Inc: 89.03  
deg Az: 272.74 deg TVD:  
7529.49 ft

S: 95 MD: 9671.00 ft Inc: 89.53  
deg Az: 273.37 deg TVD:  
7530.70 ft

S: 96 MD: 9766.00 ft Inc: 88.99  
deg Az: 271.55 deg TVD:  
7531.93 ft





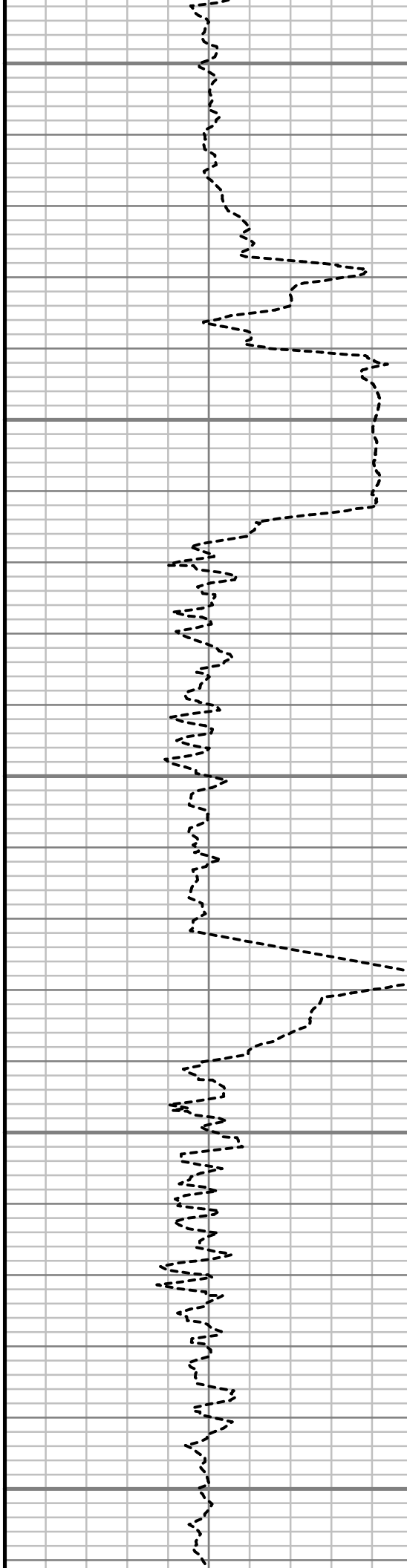
9800

9850

9900

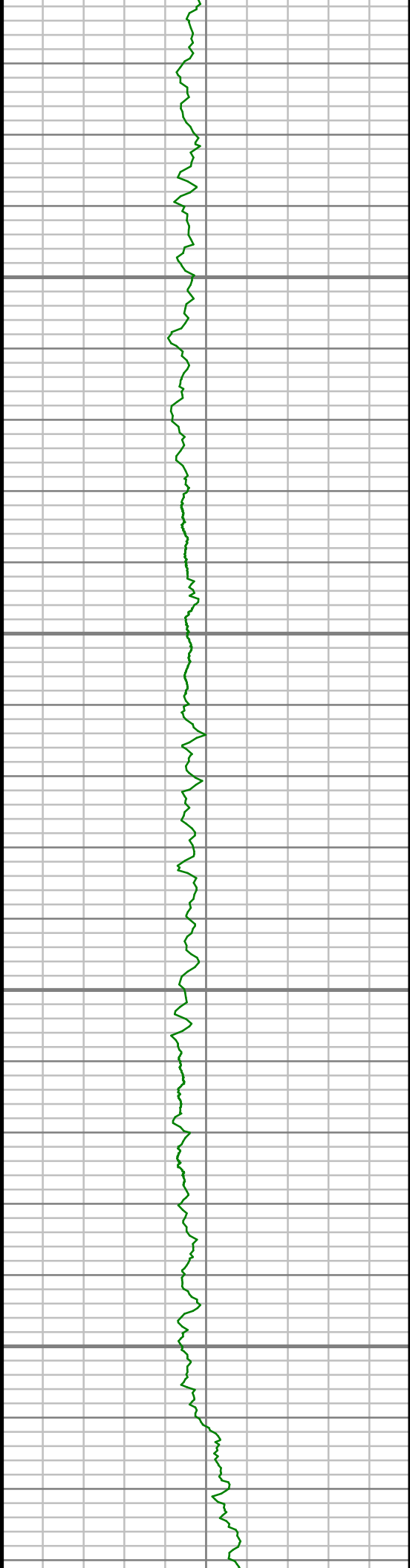
9950

10000



S: 97 MD: 9861.00 ft Inc: 90.57  
deg Az: 271.98 deg TVD:  
7532.29 ft

S: 98 MD: 9956.00 ft Inc: 90.77  
deg Az: 271.89 deg TVD:  
7531.18 ft

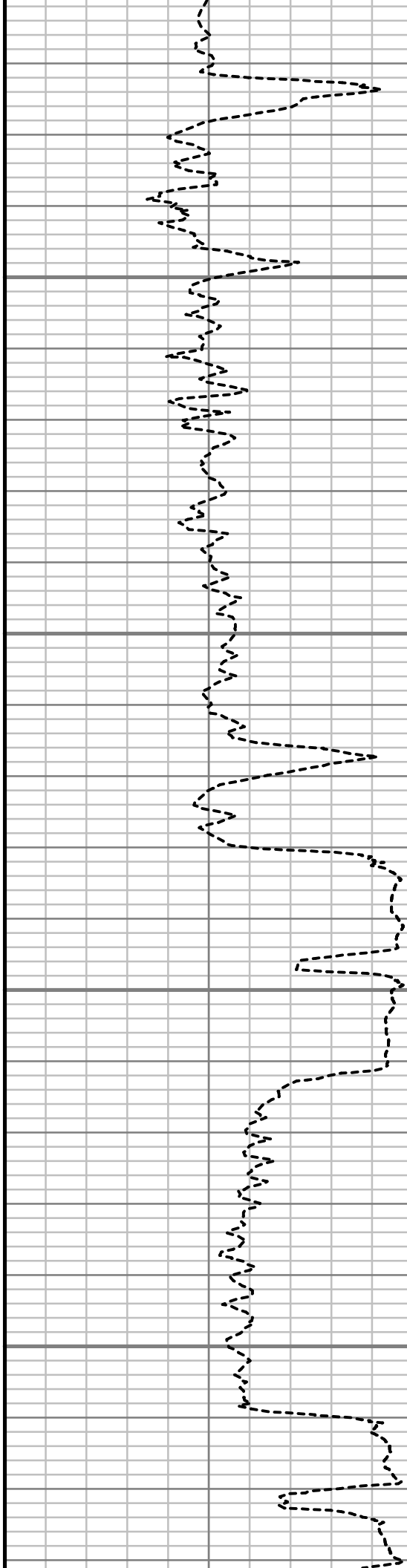


10050

10100

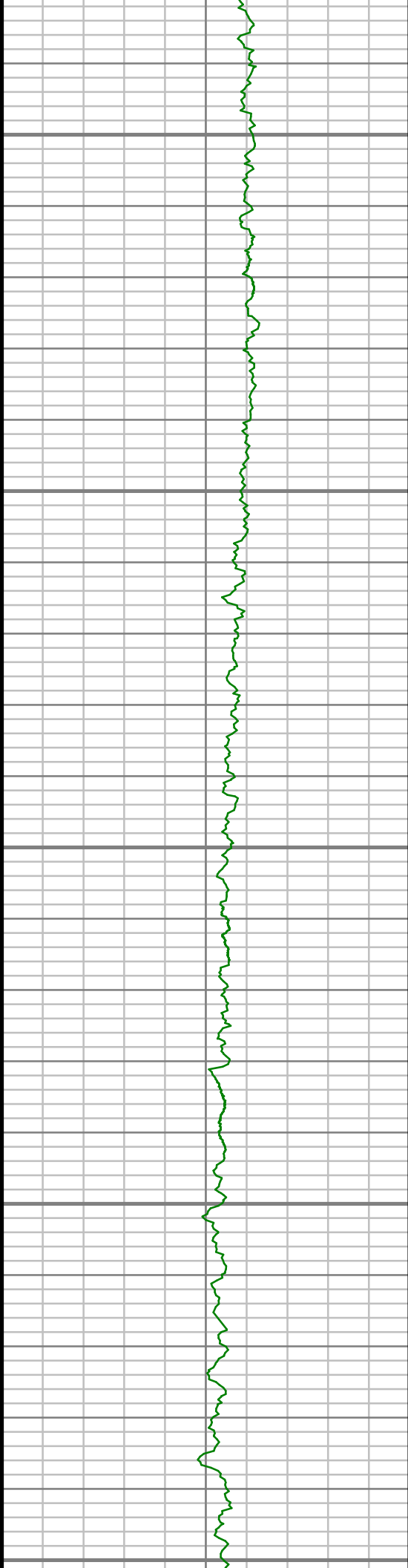
10150

10200



S: 99 MD: 10052.00 ft Inc:  
90.94 deg Az: 273.23 deg TVD:  
7529.74 ft

S: 100 MD: 10147.00 ft Inc:  
88.11 deg Az: 272.06 deg TVD:  
7530.53 ft



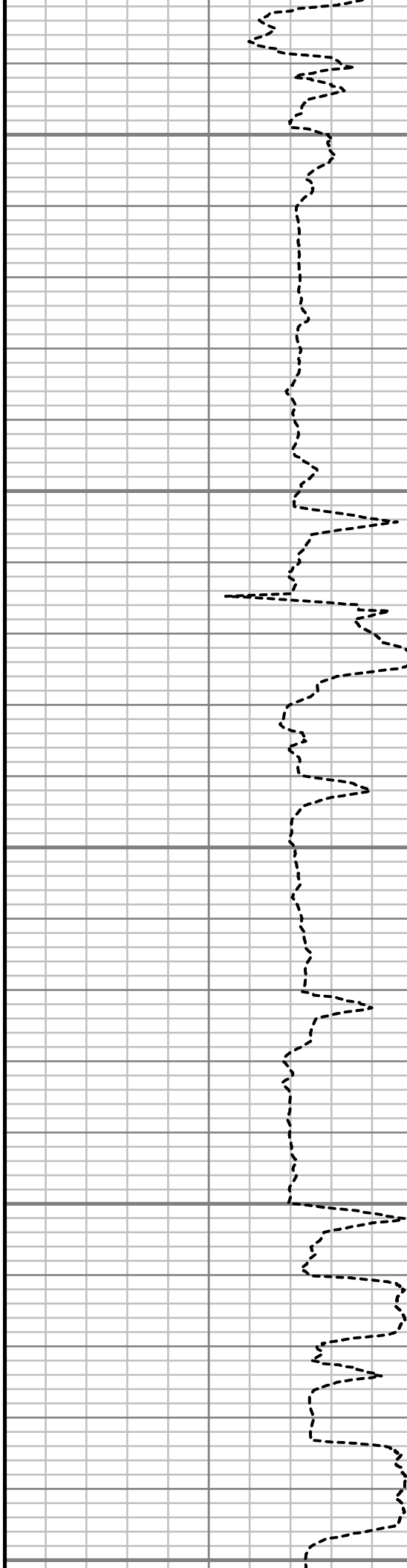
10250

10300

10350

10400

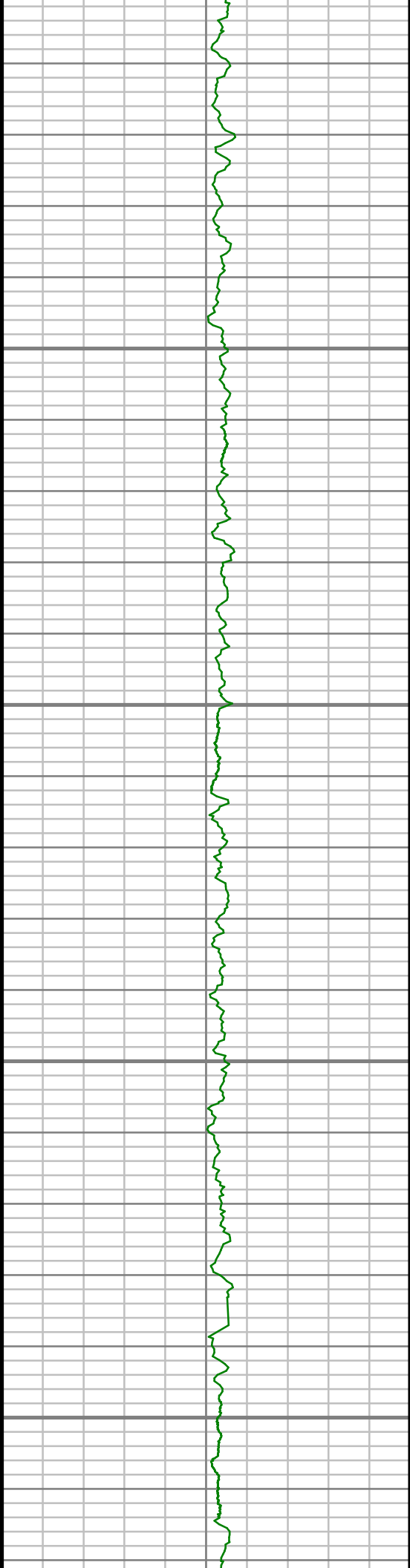
10450



S: 101 MD: 10242.00 ft Inc:  
88.42 deg Az: 271.97 deg TVD:  
7533.40 ft

S: 102 MD: 10337.00 ft Inc:  
88.82 deg Az: 271.54 deg TVD:  
7535.68 ft

S: 103 MD: 10433.00 ft Inc:  
89.23 deg Az: 271.21 deg TVD:  
7537.32 ft

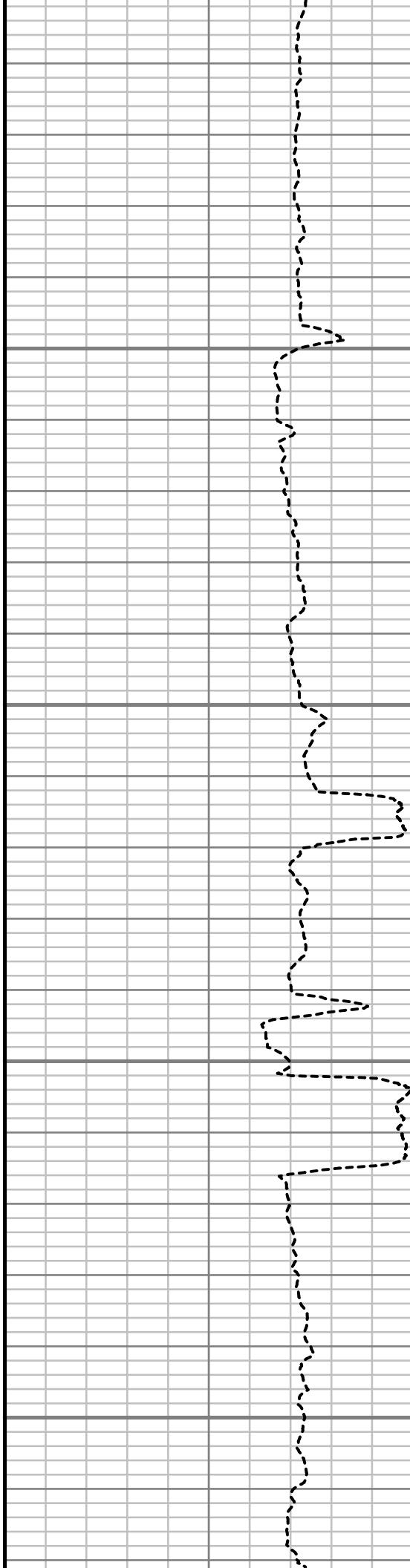


10500

10550

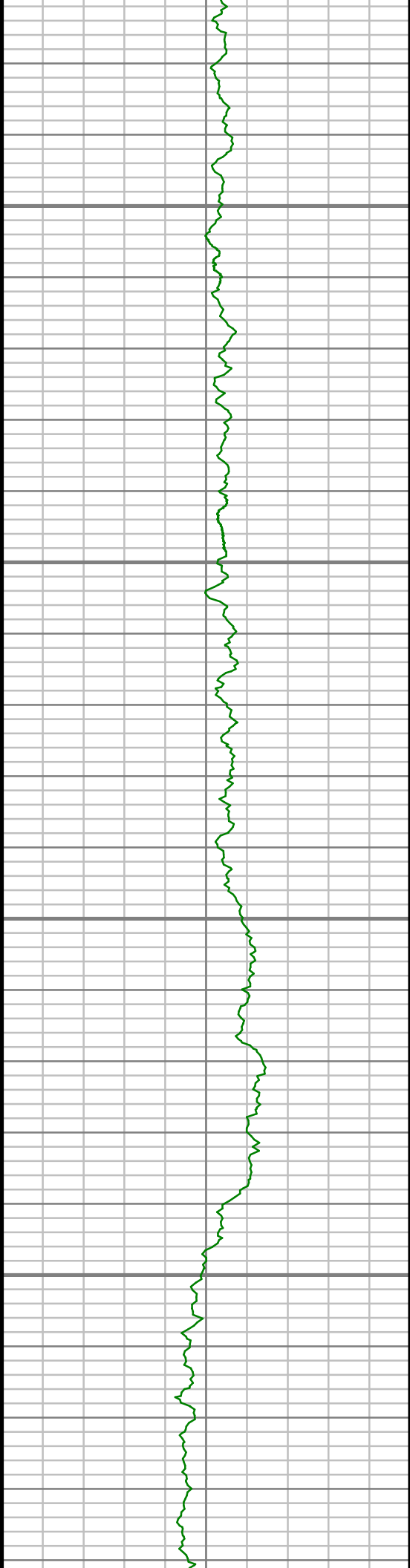
10600

10650



S: 104 MD: 10528.00 ft Inc:  
89.93 deg Az: 271.35 deg TVD:  
7538.01 ft

S: 105 MD: 10623.00 ft Inc:  
89.66 deg Az: 269.69 deg TVD:  
7538.35 ft

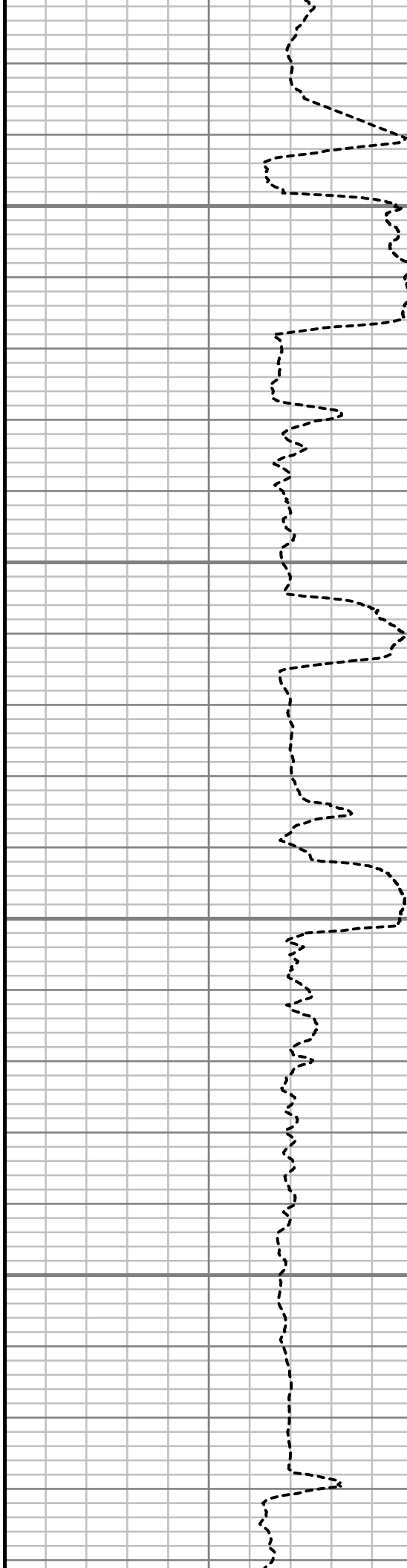


10700

10750

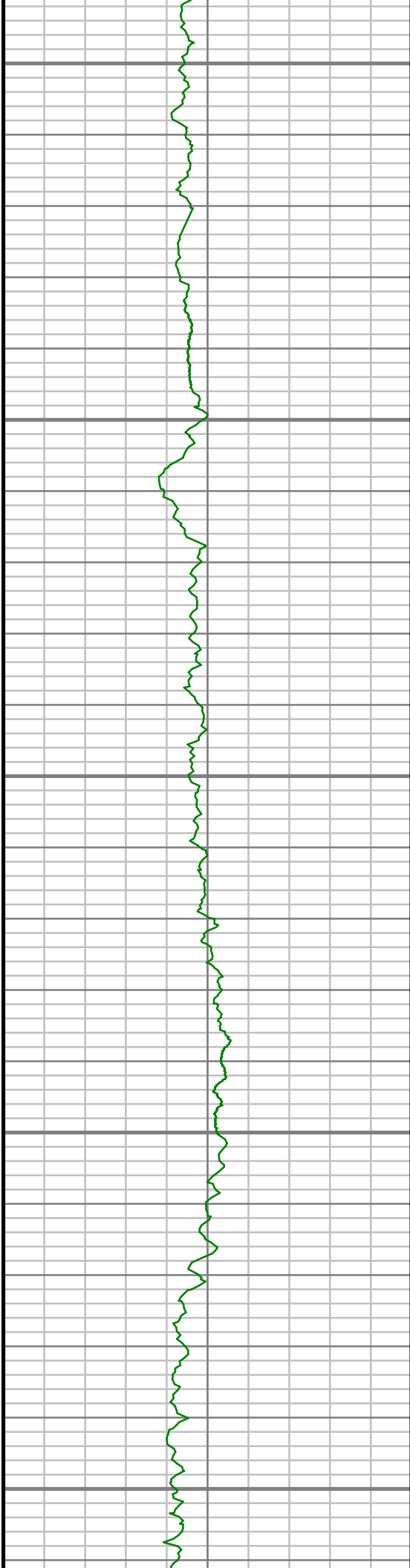
10800

10850



S: 106 MD: 10718.00 ft Inc:  
90.47 deg Az: 268.26 deg TVD:  
7538.24 ft

S: 107 MD: 10813.00 ft Inc:  
91.45 deg Az: 267.14 deg TVD:  
7536.65 ft



10900

10950

11000

11050

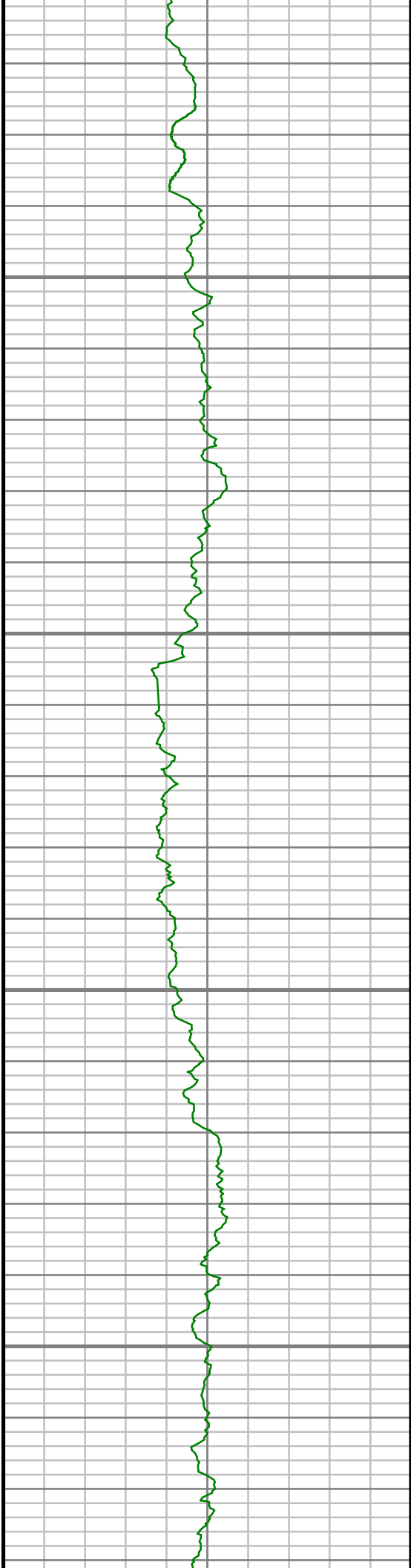
11100



S: 108 MD: 10909.00 ft Inc:  
91.75 deg Az: 266.69 deg TVD:  
7533.98 ft

S: 109 MD: 11004.00 ft Inc:  
90.37 deg Az: 266.59 deg TVD:  
7532.22 ft

S: 110 MD: 11099.00 ft Inc:  
90.13 deg Az: 267.53 deg TVD:  
7531.80 ft

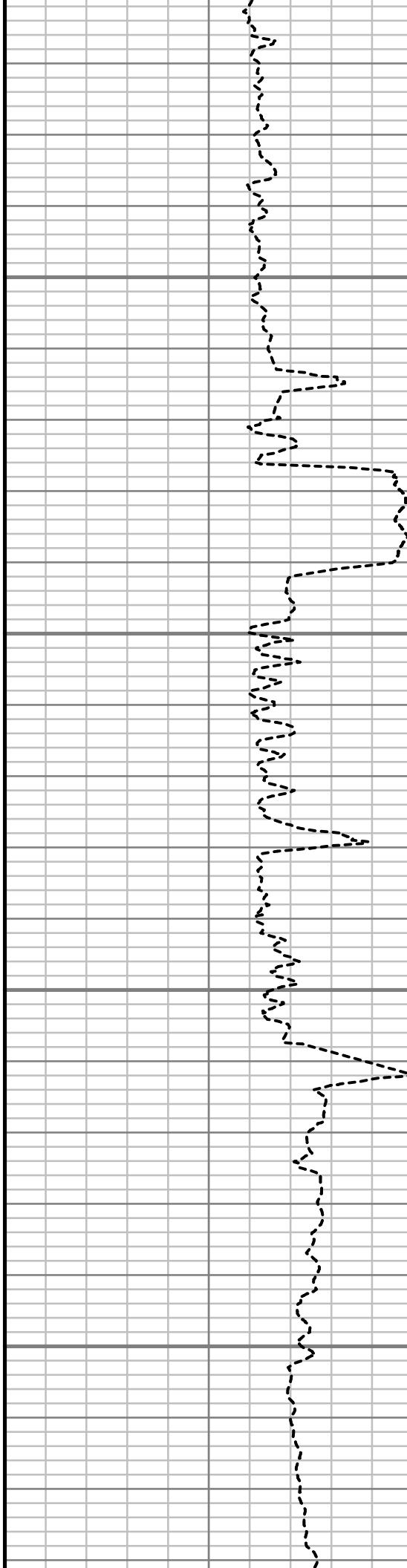


11150

11200

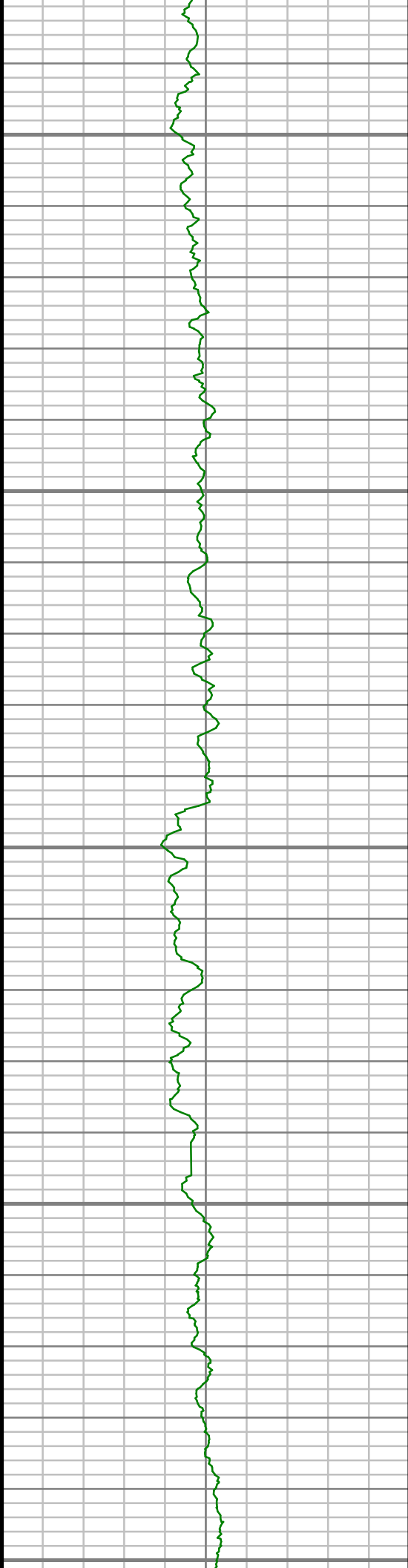
11250

11300



S: 111 MD: 11194.00 ft Inc:  
88.93 deg Az: 268.05 deg TVD:  
7532.58 ft

S: 112 MD: 11290.00 ft Inc:  
89.09 deg Az: 268.03 deg TVD:  
7534.24 ft



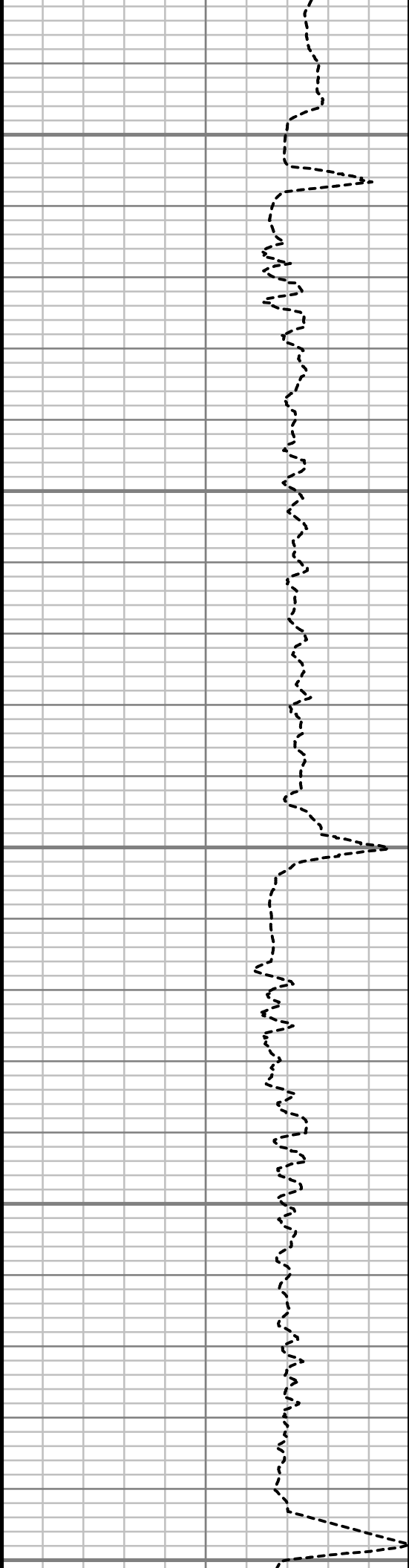
11350

11400

11450

11500

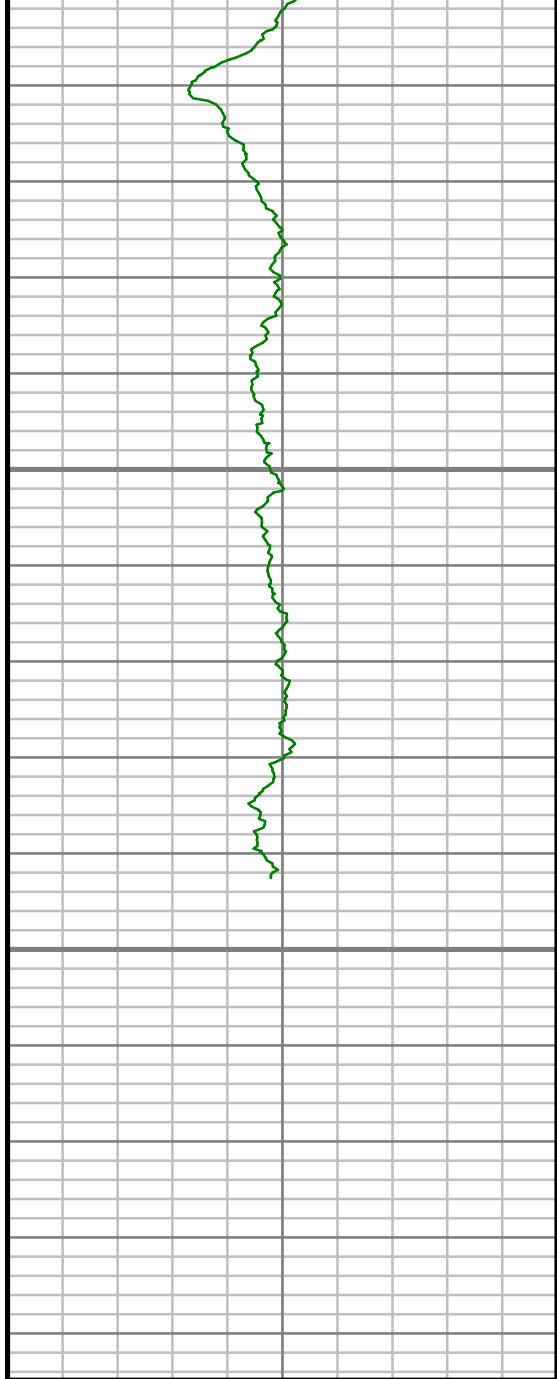
11550



S: 113 MD: 11385.00 ft Inc:  
89.39 deg Az: 267.46 deg TVD:  
7535.50 ft

S: 114 MD: 11480.00 ft Inc:  
89.29 deg Az: 267.34 deg TVD:  
7536.58 ft



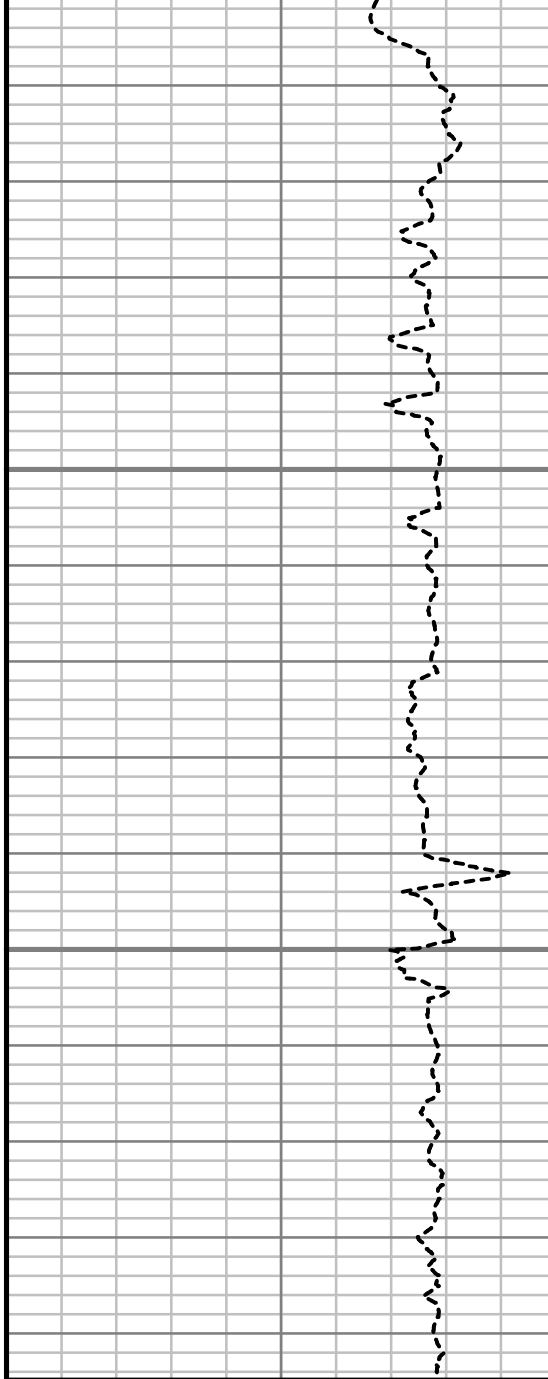


Gamma Ray (GR)		
0	Unit = aapi	150

11600

11650

MEASURED DEPTH  
1:240 (ft)



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

S: 115 MD: 11576.00 ft Inc:  
89.53 deg Az: 267.15 deg TVD:  
7537.57 ft

S: 116 MD: 11627.00 ft Inc:  
89.63 deg Az: 266.64 deg TVD:  
7537.94 ft

Comments

## MWD Survey Report

Well Location	McCONAHAY
Well Name	McCONAHAY 1C-34H-H266
Survey Date	4/2/2014
Latitude	40°5'52.764"N
Longitude	104°45'27.828"W
Btotal	52594 nT
Dip	66.70 deg
Magnetic Declination	8.50 deg
North Reference	True North
Grid Correction	None
Depth Reference	R.K.B. (13.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 260.00Azim (deg)
Operator(s)	A. NEJAD, J. SMITH, M. SMITH

### Well Notes

MD	Inc	Azim	TVD	VS	+N-S	+E-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
455.00	1.89	121.56	454.92	-5.63	-3.94	6.41	121.56	7.52	0.42
548.00	3.37	119.24	547.82	-8.90	-6.08	10.11	121.02	11.79	1.59
641.00	4.31	129.30	640.61	-13.29	-9.63	15.20	122.36	17.99	1.24
733.00	6.14	140.15	732.22	-18.00	-15.60	21.02	126.57	26.18	2.25
826.00	8.84	146.01	824.42	-23.38	-25.34	28.21	131.94	37.92	3.01
920.00	11.11	144.72	916.99	-30.19	-38.73	37.48	135.94	53.90	2.42
1012.00	13.00	150.11	1006.96	-37.49	-54.94	47.76	139.00	72.80	2.39
1089.00	12.09	153.29	1082.13	-42.76	-69.65	55.70	141.35	89.19	1.49
1188.00	11.27	150.35	1179.08	-48.99	-87.32	65.15	143.27	108.95	1.02
1373.00	12.01	149.57	1360.27	-61.79	-119.63	83.84	144.98	146.09	0.40
1559.00	11.57	146.58	1542.35	-75.96	-151.89	103.92	145.62	184.04	0.40
1745.00	13.88	154.84	1723.78	-89.22	-187.66	123.69	146.61	224.76	1.58
1931.00	15.68	155.16	1903.62	-101.50	-230.68	143.74	148.07	271.79	0.97
2122.00	15.64	158.04	2087.52	-113.45	-277.99	164.21	149.43	322.87	0.41
2312.00	15.08	158.29	2270.73	-123.77	-324.71	182.94	150.60	372.70	0.30
2503.00	13.13	160.53	2455.97	-132.39	-368.25	199.36	151.57	418.76	1.06
2693.00	11.38	159.29	2641.63	-139.42	-406.13	213.19	152.30	458.69	0.93
2884.00	9.23	151.66	2829.55	-147.75	-437.25	227.13	152.55	492.72	1.33

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	Closure Direction deg	Closure Distance ft	DLS °/100ft
3075.00	9.16	147.74	3018.10	-158.33	-463.59	242.51	152.39	523.19	0.33
3265.00	9.90	142.78	3205.47	-171.53	-489.40	260.47	151.98	554.40	0.58
3456.00	9.78	147.98	3393.67	-185.13	-516.24	279.01	151.61	586.81	0.47
3646.00	9.71	146.20	3580.92	-197.65	-543.24	296.49	151.38	618.89	0.16
3837.00	9.00	141.38	3769.38	-211.31	-568.30	314.77	151.02	649.65	0.56
4027.00	10.77	126.43	3956.59	-230.66	-590.45	338.33	150.19	680.51	1.63
4218.00	10.40	132.31	4144.35	-253.49	-612.65	365.43	149.19	713.36	0.60
4409.00	13.97	145.66	4331.05	-273.53	-643.30	391.18	148.70	752.90	2.37
4599.00	12.35	149.21	4516.06	-290.19	-679.69	414.52	148.62	796.12	0.95
4790.00	11.09	153.92	4703.08	-302.53	-713.73	433.05	148.75	834.83	0.83
4980.00	12.90	154.02	4888.93	-313.43	-749.21	450.37	148.99	874.16	0.95
5171.00	10.22	160.52	5076.04	-322.09	-784.36	465.36	149.32	912.02	1.56
5362.00	9.07	142.11	5264.38	-331.93	-812.23	480.27	149.40	943.60	1.71
5552.00	11.01	147.75	5451.47	-345.81	-839.40	499.15	149.26	976.60	1.14
5743.00	8.19	157.40	5639.78	-355.68	-867.40	514.12	149.34	1008.32	1.69
5934.00	8.42	139.50	5828.81	-365.75	-890.60	528.43	149.32	1035.57	1.35
6124.00	8.50	148.55	6016.76	-377.94	-913.15	544.79	149.18	1063.32	0.70
6315.00	10.83	147.97	6205.03	-389.83	-940.41	561.67	149.15	1095.37	1.22

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	Closure Direction deg	Closure Distance ft	DLS °/100ft
6505.00	10.16	152.37	6391.86	-401.60	-970.39	578.90	149.18	1129.95	0.55
6696.00	9.45	154.12	6580.07	-410.99	-999.42	593.56	149.29	1162.39	0.40
6791.00	10.34	158.06	6673.65	-414.89	-1014.35	600.15	149.39	1178.59	1.18
6823.00	9.48	156.12	6705.17	-416.12	-1019.42	602.29	149.42	1184.05	2.88
6855.00	8.67	156.83	6736.77	-417.30	-1024.05	604.31	149.45	1189.06	2.55
6886.00	7.84	157.80	6767.45	-418.28	-1028.15	606.03	149.48	1193.47	2.71
6918.00	8.50	163.34	6799.13	-419.02	-1032.44	607.53	149.53	1197.93	3.20
6950.00	10.38	173.43	6830.69	-419.12	-1037.57	608.54	149.61	1202.86	7.80
6982.00	12.48	181.27	6862.06	-418.27	-1043.89	608.79	149.75	1208.44	8.16
7013.00	14.35	187.65	6892.21	-416.45	-1051.05	608.20	149.94	1214.34	7.69
7045.00	16.75	190.87	6923.04	-413.60	-1059.51	606.81	150.20	1220.97	7.97
7077.00	18.68	194.93	6953.52	-409.80	-1068.99	604.62	150.51	1228.13	7.16
7109.00	21.04	199.17	6983.62	-404.84	-1079.37	601.41	150.87	1235.61	8.63
7140.00	22.99	205.64	7012.36	-398.60	-1090.09	596.96	151.29	1242.84	10.04
7172.00	24.09	210.82	7041.70	-390.69	-1101.34	590.91	151.78	1249.85	7.31
7204.00	24.69	216.45	7070.85	-381.57	-1112.32	583.59	152.32	1256.12	7.50
7236.00	26.76	223.17	7099.68	-370.96	-1122.95	574.69	152.90	1261.46	11.18
7268.00	28.77	227.79	7128.00	-358.68	-1133.38	564.05	153.54	1265.98	9.19

MD	Inc	Azim	TVD	VS	+N-S	+E-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
7299.00	31.68	232.25	7154.79	-345.15	-1143.38	552.09	154.23	1269.70	11.86
7331.00	33.39	238.11	7181.77	-329.54	-1153.18	537.96	154.99	1272.49	11.20
7363.00	36.47	243.99	7208.01	-312.22	-1162.01	521.93	155.81	1273.84	14.26
7395.00	39.27	247.71	7233.27	-293.18	-1170.02	504.01	156.70	1273.96	11.27
7427.00	42.43	250.45	7257.48	-272.63	-1177.48	484.46	157.64	1273.25	11.36
7458.00	46.79	255.98	7279.55	-251.03	-1183.72	463.62	158.61	1271.28	18.82
7490.00	51.34	258.66	7300.51	-226.89	-1189.01	440.05	159.69	1267.83	15.56
7522.00	53.50	259.83	7320.03	-201.54	-1193.74	415.13	160.82	1263.86	7.36
7554.00	54.80	260.04	7338.77	-175.60	-1198.27	389.60	161.99	1260.02	4.09
7585.00	55.70	260.41	7356.44	-150.13	-1202.60	364.49	163.14	1256.62	3.08
7617.00	56.56	262.01	7374.27	-123.57	-1206.65	338.24	164.34	1253.16	4.95
7649.00	56.98	265.00	7391.81	-96.85	-1209.68	311.65	165.55	1249.18	7.93
7681.00	58.82	266.24	7408.81	-69.88	-1211.74	284.62	166.78	1244.72	6.61
7713.00	61.22	267.96	7424.80	-42.38	-1213.14	256.94	168.04	1240.05	8.83
7744.00	62.94	268.08	7439.32	-15.25	-1214.08	229.56	169.29	1235.60	5.57
7776.00	64.64	268.24	7453.45	13.16	-1215.01	200.87	170.61	1231.50	5.32
7808.00	66.24	268.02	7466.75	41.98	-1215.95	171.78	171.96	1228.03	5.02
7839.00	68.92	267.93	7478.57	70.35	-1216.97	143.15	173.29	1225.36	8.66

MD	Inc	Azim	TVD	VS	+N-S	+E-W	Closure Direction	Closure Distance	DLS
ft	deg	deg	ft	ft	ft	ft	deg	ft	°/100ft
7871.00	71.57	267.43	7489.39	100.20	-1218.19	113.06	174.70	1223.42	8.40
7903.00	73.93	267.20	7498.88	130.51	-1219.62	82.53	176.13	1222.41	7.43
7935.00	75.68	267.41	7507.26	161.14	-1221.07	51.69	177.58	1222.16	5.50
7967.00	77.72	267.91	7514.62	192.00	-1222.34	20.57	179.04	1222.52	6.56
7998.00	79.47	268.68	7520.75	222.07	-1223.24	-9.80	180.46	1223.28	6.15
8019.00	81.07	269.16	7524.30	242.51	-1223.63	-30.49	181.43	1224.01	7.91
8146.00	87.41	269.63	7537.04	367.11	-1224.96	-156.78	187.29	1234.95	5.01
8241.00	89.40	270.72	7539.69	460.57	-1224.67	-251.74	191.62	1250.27	2.38
8337.00	89.97	271.00	7540.22	554.85	-1223.23	-347.73	195.87	1271.69	0.66
8432.00	91.44	272.00	7539.05	647.94	-1220.74	-442.68	199.93	1298.53	1.88
8527.00	90.37	271.65	7537.55	740.91	-1217.72	-537.62	203.82	1331.12	1.19
8623.00	91.85	272.47	7535.69	834.77	-1214.27	-633.54	207.55	1369.61	1.76
8718.00	91.51	272.50	7532.90	927.48	-1210.16	-728.41	211.04	1412.47	0.36
8813.00	91.28	272.02	7530.59	1020.29	-1206.41	-823.30	214.31	1460.57	0.56
8908.00	91.18	272.46	7528.56	1113.11	-1202.69	-918.21	217.36	1513.14	0.47
9004.00	91.07	272.85	7526.67	1206.75	-1198.25	-1014.09	220.24	1569.77	0.42
9099.00	90.34	272.40	7525.50	1299.45	-1193.90	-1108.98	222.89	1629.49	0.91
9194.00	89.63	272.12	7525.53	1392.28	-1190.15	-1203.91	225.33	1692.88	0.80

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	Closure Direction deg	Closure Distance ft	DLS °/100ft
9290.00	89.03	271.13	7526.65	1486.31	-1187.43	-1299.86	227.59	1760.58	1.20
9385.00	89.53	271.68	7527.85	1579.42	-1185.10	-1394.82	229.65	1830.30	0.78
9480.00	89.73	272.77	7528.46	1672.26	-1181.41	-1489.75	231.58	1901.34	1.16
9575.00	89.03	272.74	7529.49	1764.91	-1176.85	-1584.63	233.40	1973.83	0.74
9671.00	89.53	273.37	7530.70	1858.42	-1171.73	-1680.49	235.11	2048.65	0.84
9766.00	88.99	271.55	7531.93	1951.17	-1167.65	-1775.39	236.67	2124.95	2.01
9861.00	90.57	271.98	7532.29	2044.18	-1164.73	-1870.34	238.09	2203.35	1.72
9956.00	90.77	271.89	7531.18	2137.12	-1161.53	-1965.28	239.42	2282.86	0.23
10052.00	90.94	273.23	7529.74	2230.81	-1157.24	-2061.17	240.69	2363.81	1.40
10147.00	88.11	272.06	7530.53	2323.49	-1152.86	-2156.05	241.87	2444.92	3.22
10242.00	88.42	271.97	7533.40	2416.37	-1149.52	-2250.95	242.95	2527.48	0.34
10337.00	88.82	271.54	7535.68	2509.35	-1146.61	-2345.88	243.95	2611.10	0.61
10433.00	89.23	271.21	7537.32	2603.44	-1144.31	-2441.84	244.89	2696.66	0.55
10528.00	89.93	271.35	7538.01	2696.61	-1142.18	-2536.81	245.76	2782.08	0.76
10623.00	89.66	269.69	7538.35	2790.00	-1141.31	-2631.80	246.56	2868.62	1.77
10718.00	90.47	268.26	7538.24	2883.84	-1143.01	-2726.78	247.26	2956.66	1.74
10813.00	91.45	267.14	7536.65	2977.97	-1146.83	-2821.69	247.88	3045.84	1.56
10909.00	91.75	266.69	7533.98	3073.23	-1152.00	-2917.51	248.45	3136.71	0.56

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	Closure Direction deg	Closure Distance ft	DLS °/100ft
11004.00	90.37	266.59	7532.22	3167.58	-1157.57	-3012.33	248.98	3227.09	1.45
11099.00	90.13	267.53	7531.80	3261.85	-1162.44	-3107.20	249.49	3317.53	1.02
11194.00	88.93	268.05	7532.58	3355.97	-1166.11	-3202.13	249.99	3407.85	1.38
11290.00	89.09	268.03	7534.24	3451.01	-1169.39	-3298.06	250.48	3499.24	0.18
11385.00	89.39	267.46	7535.50	3545.14	-1173.12	-3392.97	250.93	3590.05	0.68
11480.00	89.29	267.34	7536.58	3639.34	-1177.43	-3487.87	251.35	3681.25	0.17
11576.00	89.53	267.15	7537.57	3734.57	-1182.04	-3583.75	251.75	3773.66	0.31
11627.00	89.63	266.64	7537.94	3785.20	-1184.80	-3634.68	251.95	3822.91	1.02

5" = 100' FEET MD