

5" = 100'

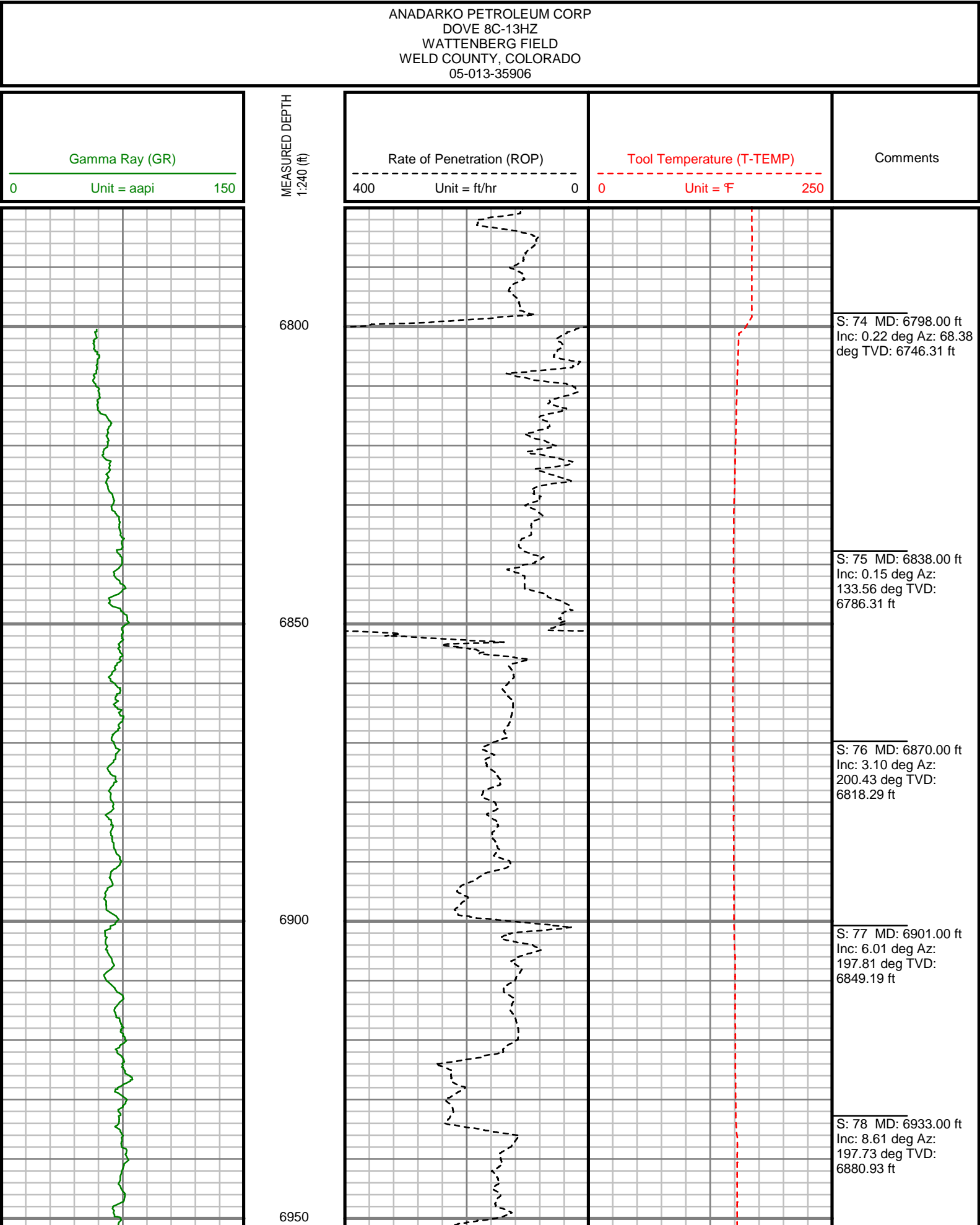
FEET MD

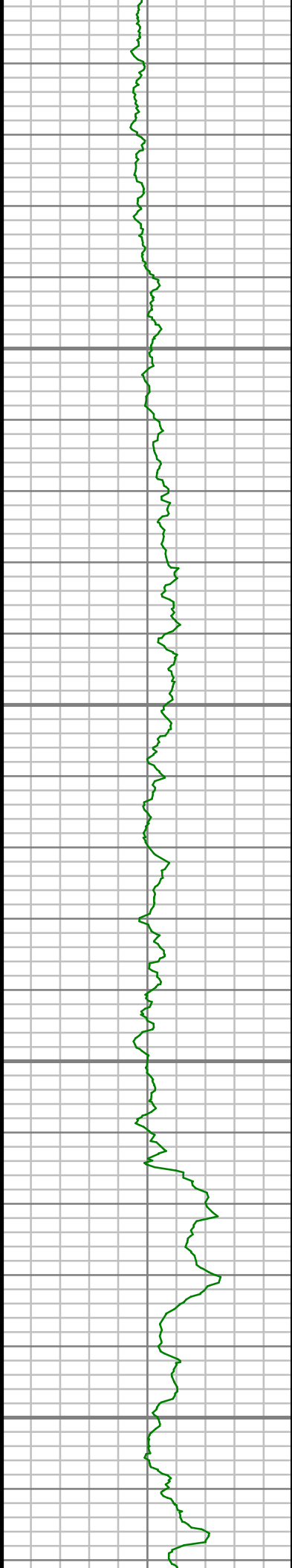
COMPANY : ANADARKO PETROLEUM CORP									
WELL : DOVE 8C-13HZ									
FIELD : WATTENBERG									
COUNTY : WELD									
STATE : COLORADO									
COUNTRY : U.S.A.									
UWI : 05-123-35906									
WELL LOCATION					OTHER SERVICES				
LAT:40°9'32.987"N LONG:104°43'14.524"W					DIRECTIONAL ROP				
N:1301783.37 ft E:3017811.07 ft									
SEC:12 TWP:2N RANGE:66W									
DEPTH REF. : RKB									
REF. HEIGHT : 25.000 ft					RKB to Ground Level				
GROUND LEVEL : 4970.000 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	0	1030	0 - 10	0	6852				
8.75	1030	7764	10 - 90	6852	7764				
6.125	7764	14547	90 - 92	7764	14547				
CASING RECORD									
CASING SIZE in	FROM ft	TO ft							
9.625	0	1030							
7	0	7764							
			DRILLING CO. : H&P						
			RLG : 311						
			LMD UNIT NO. : C-50/46			DISTRICT : Casper			
			SPUD DATE : 06/07/2013						
			LMD START DATE : 06/08/2013			DEPTH : 6852 ft			
			LMD END DATE : 06/17/2013			DEPTH : 14547 ft			
						TOTAL DEPTH : 14547 ft			

Remarks
ANADARKO PETROLEUM CORP PRODUCTION AFE# 2066598
SCIENTIFIC DRILLING INTERNATIONAL JOB# 410613HMP18978
SCIENTIFIC DRILLING INTERNATIONAL WO# 166245
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
REMARK #1: RUN #3 IS REAL-TIME DATA.
FLAT AVERAGE OF 1.0FT. APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE OF 1.0FT. APPLIED TO ROP CURVE
FLAT AVERAGE OF 1.0FT. APPLIED TO TEMPERATURE CURVE
RUN #1: MWD / DIRECTIONAL RUN
SENSORS S/N: PULSER = 128-312 / CONT = 247 / MWD EYE = 0778
BIT TO SENSOR OFFSET: SURVEY = 51.79 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-286 / CONT = 275 / MWD EYE = 0259 / GAMMA RAY = 232
BIT TO SENSOR OFFSETS: SURVEY = 61.07 FT. / GAMMA RAY = 51.82 FT.
RUN #3: MWD / GAMMA RAY / PROPAGATION RESISTIVITY LOGGING RUN
SENSORS S/N: PULSER = 78-142 / CONT = 185 / MWD EYE = 0258 / GAMMA RAY = 395 / PRT = 343
BIT TO SENSOR OFFSETS: SURVEY = 62.86 FT. / GAMMA RAY = 48.11 FT. / RESISTIVITY = 51.61 FT.
RUN #4: MWD / GAMMA RAY / PROPAGATION RESISTIVITY LOGGING RUN
SENSORS S/N: PULSER = 78-024 / CONT = 227 / MWD EYE = 0356 / GAMMA RAY = 385 / PRT = 340

[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.



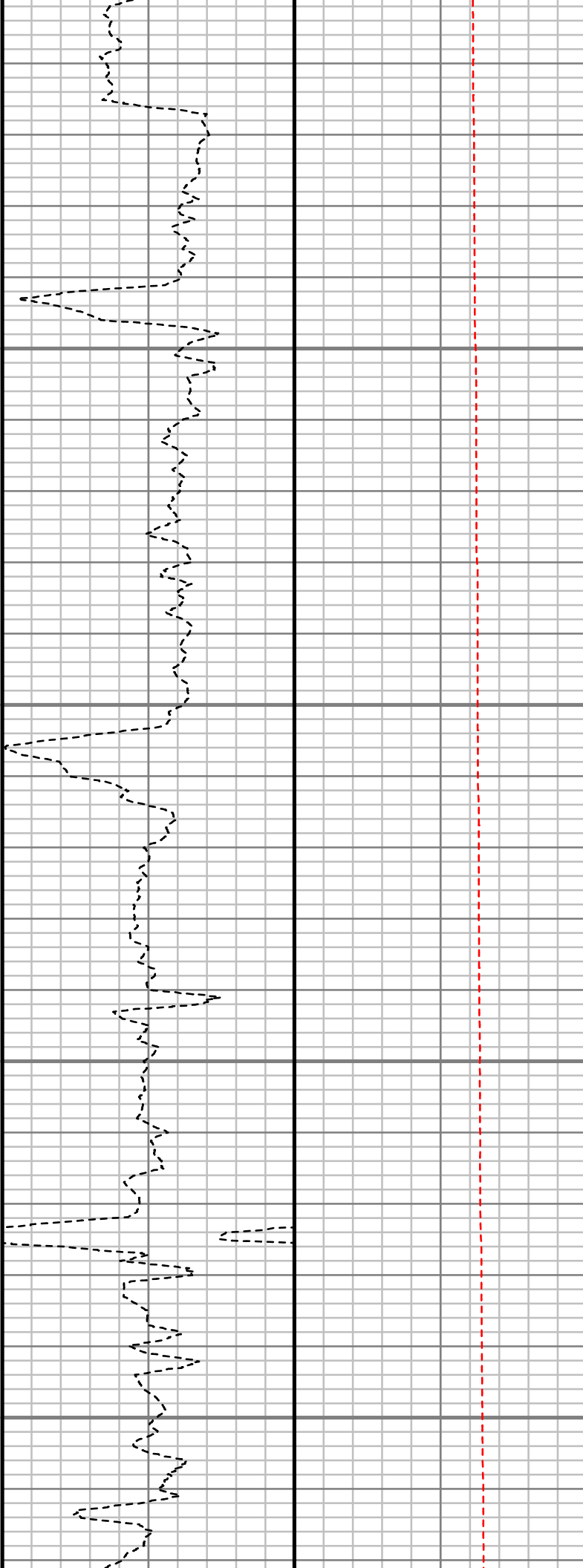


7000

7050

7100

7150



S: 79 MD: 6964.00 ft
Inc: 10.43 deg Az:
191.28 deg TVD:
6911.50 ft

S: 80 MD: 6996.00 ft
Inc: 12.36 deg Az:
181.59 deg TVD:
6942.87 ft

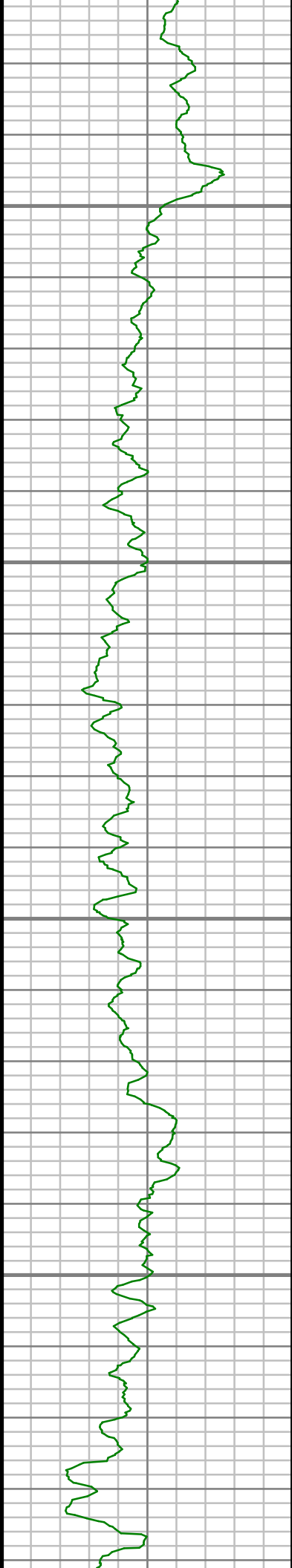
S: 81 MD: 7027.00 ft
Inc: 15.79 deg Az:
174.12 deg TVD:
6972.94 ft

S: 82 MD: 7059.00 ft
Inc: 18.31 deg Az:
171.94 deg TVD:
7003.53 ft

S: 83 MD: 7090.00 ft
Inc: 21.22 deg Az:
167.66 deg TVD:
7032.70 ft

S: 84 MD: 7122.00 ft
Inc: 24.42 deg Az:
168.04 deg TVD:
7062.20 ft

S: 85 MD: 7153.00 ft
Inc: 27.82 deg Az:
169.36 deg TVD:
7090.03 ft

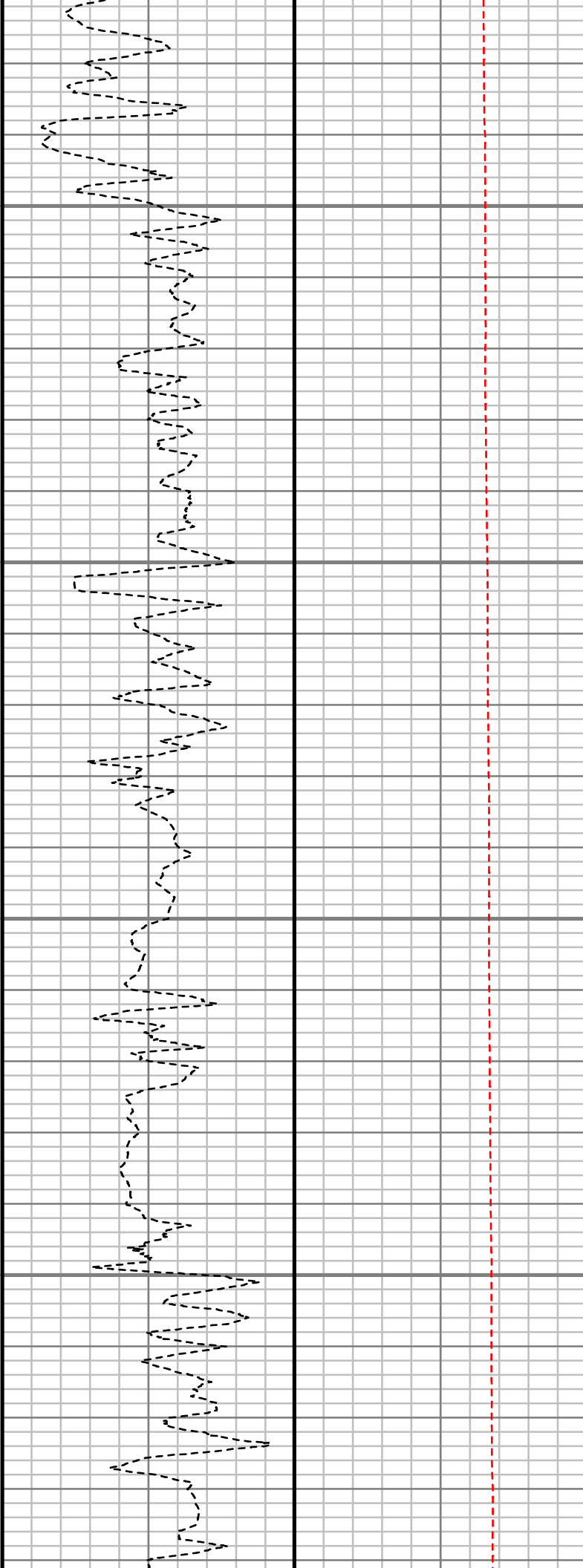


7200

7250

7300

7350



S: 86 MD: 7185.00 ft
Inc: 31.66 deg Az:
171.99 deg TVD:
7117.81 ft

S: 87 MD: 7216.00 ft
Inc: 36.17 deg Az:
174.94 deg TVD:
7143.53 ft

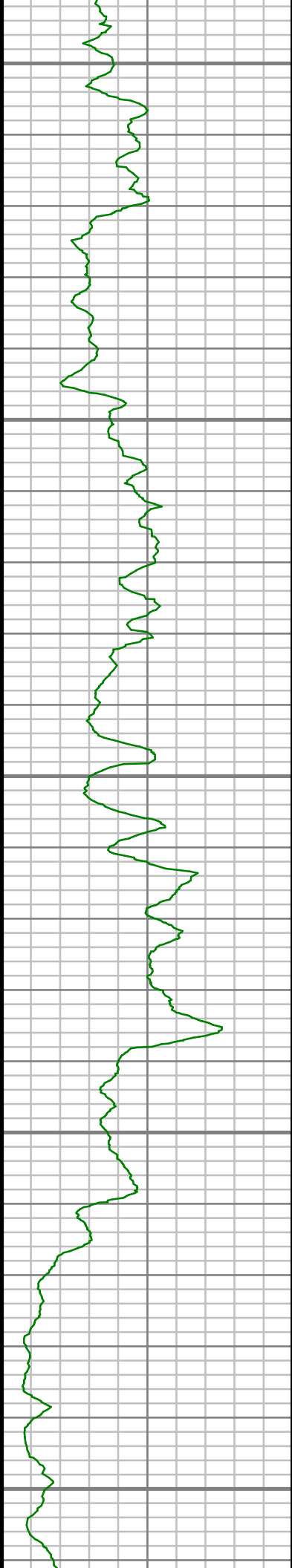
S: 88 MD: 7248.00 ft
Inc: 41.69 deg Az:
177.73 deg TVD:
7168.41 ft

S: 89 MD: 7280.00 ft
Inc: 46.20 deg Az:
178.16 deg TVD:
7191.45 ft

S: 90 MD: 7311.00 ft
Inc: 47.98 deg Az:
178.35 deg TVD:
7212.56 ft

S: 91 MD: 7343.00 ft
Inc: 47.07 deg Az:
178.24 deg TVD:
7234.17 ft

S: 92 MD: 7374.00 ft
Inc: 48.96 deg Az:
178.81 deg TVD:
7254.90 ft



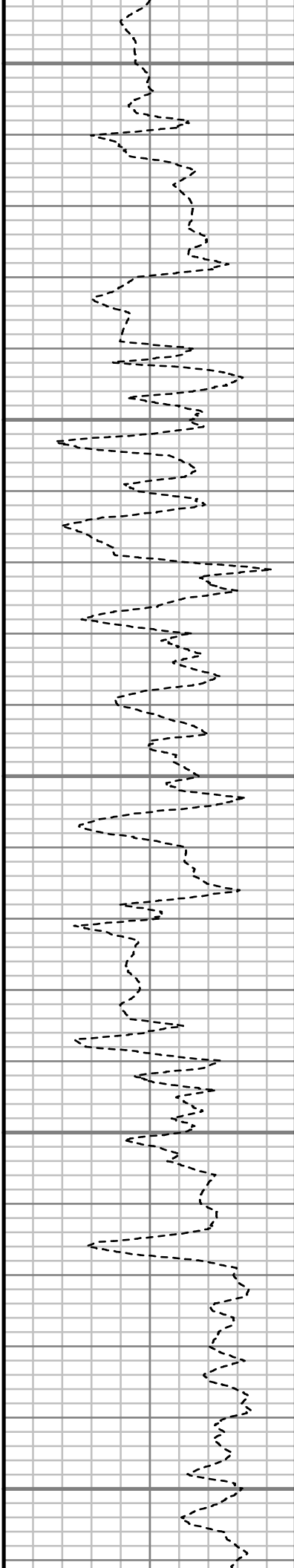
7400

7450

7500

7550

7600



S: 93 MD: 7406.00 ft
Inc: 50.46 deg Az:
179.72 deg TVD:
7275.59 ft

S: 94 MD: 7437.00 ft
Inc: 52.93 deg Az:
181.06 deg TVD:
7294.81 ft

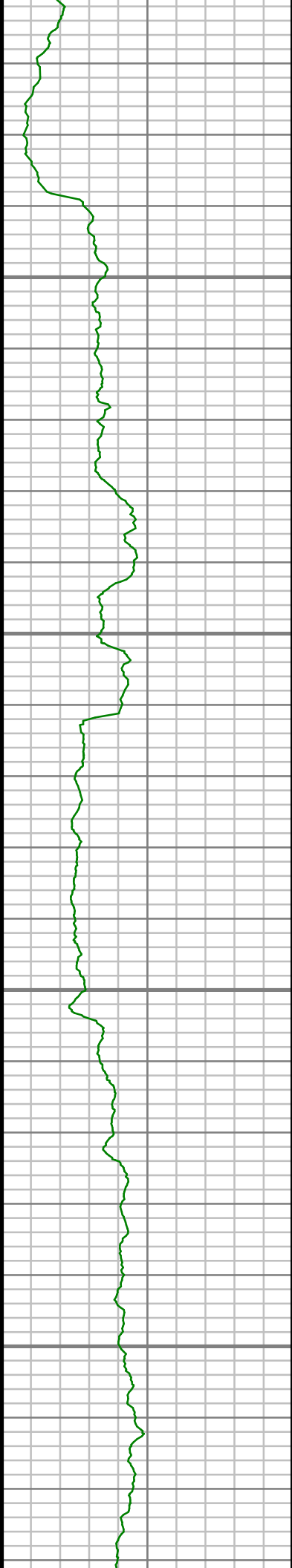
S: 95 MD: 7469.00 ft
Inc: 55.47 deg Az:
181.42 deg TVD:
7313.53 ft

S: 96 MD: 7500.00 ft
Inc: 59.37 deg Az:
181.49 deg TVD:
7330.21 ft

S: 97 MD: 7532.00 ft
Inc: 61.66 deg Az:
180.34 deg TVD:
7345.96 ft

S: 98 MD: 7563.00 ft
Inc: 66.88 deg Az:
178.73 deg TVD:
7359.42 ft

S: 99 MD: 7595.00 ft
Inc: 72.37 deg Az:
179.26 deg TVD:
7370.56 ft

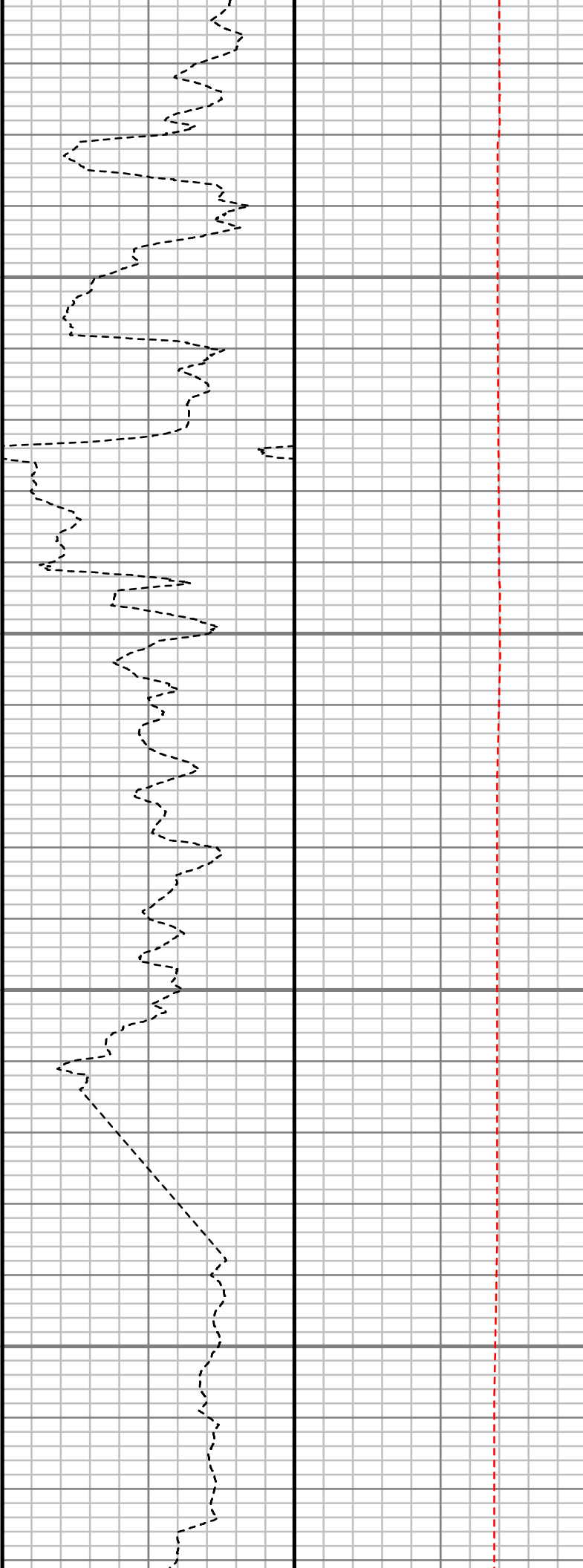


7650

7700

7750

7800



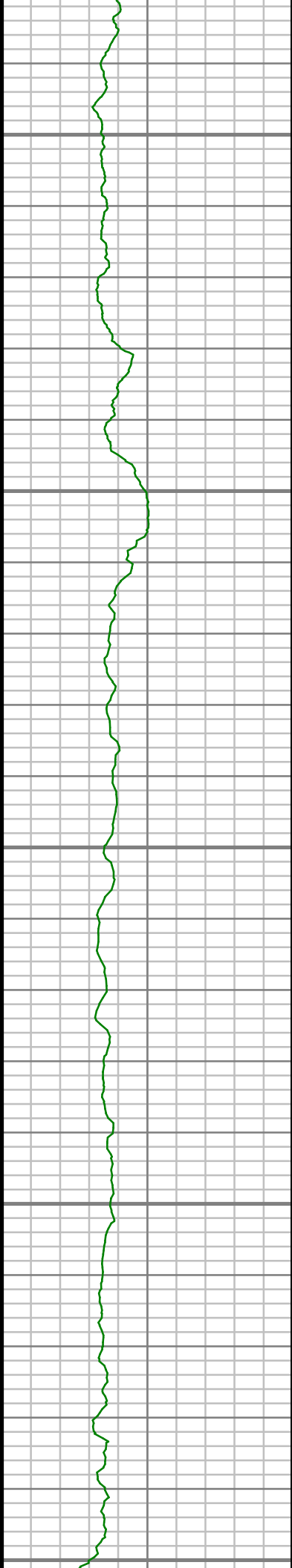
S: 100 MD: 7626.00 ft
Inc: 75.83 deg Az:
180.88 deg TVD:
7379.05 ft

S: 101 MD: 7658.00 ft
Inc: 79.06 deg Az:
180.98 deg TVD:
7386.00 ft

S: 102 MD: 7689.00 ft
Inc: 81.43 deg Az:
181.32 deg TVD:
7391.25 ft

S: 103 MD: 7701.00 ft
Inc: 83.60 deg Az:
181.13 deg TVD:
7392.82 ft

S: 104 MD: 7784.00 ft
Inc: 92.82 deg Az:
181.75 deg TVD:
7395.41 ft



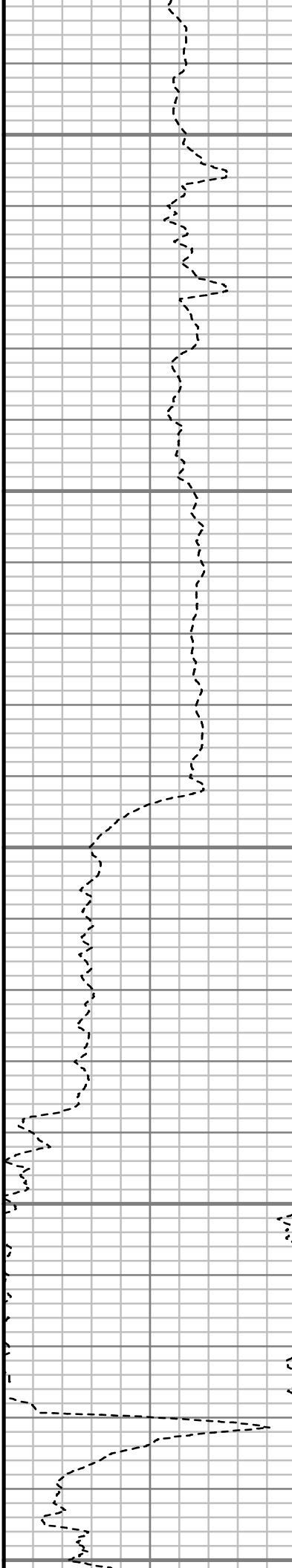
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7900

7950

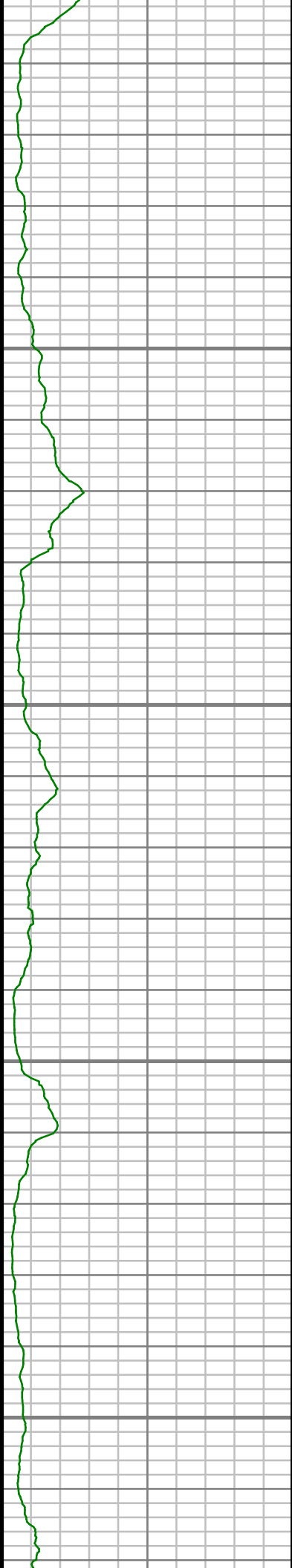
8000

8050



S: 105 MD: 7875.00 ft
Inc: 91.24 deg Az:
181.16 deg TVD:
7392.18 ft

S: 106 MD: 7966.00 ft
Inc: 91.18 deg Az:
179.93 deg TVD:
7390.26 ft

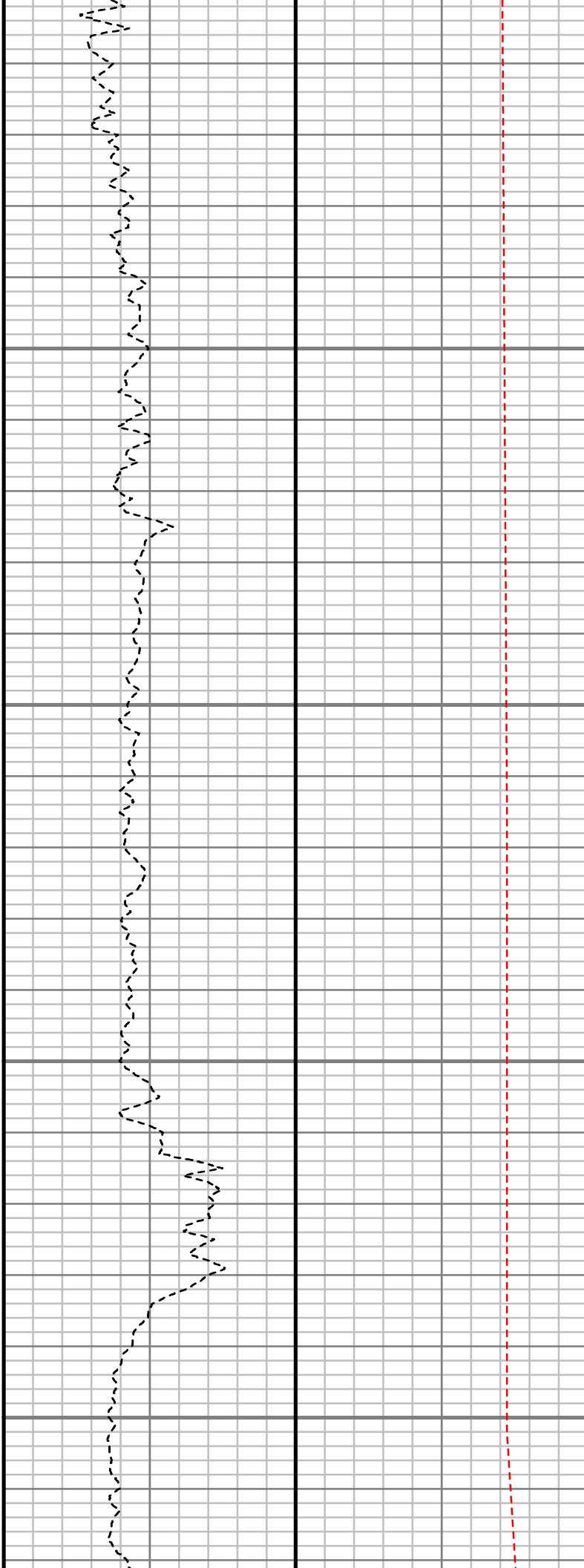


8100

8150

8200

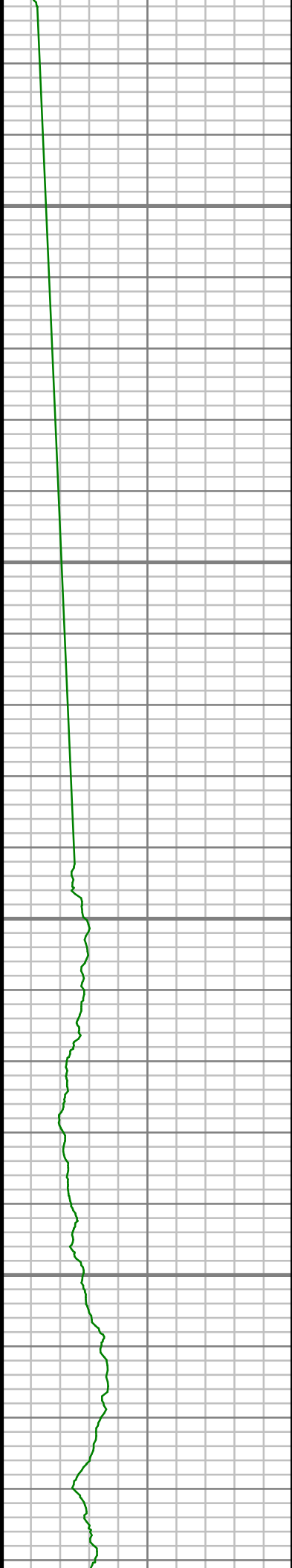
8250



S: 107 MD: 8057.00 ft
Inc: 91.11 deg Az:
179.54 deg TVD:
7388.45 ft

S: 108 MD: 8148.00 ft
Inc: 91.65 deg Az:
178.40 deg TVD:
7386.26 ft

S: 109 MD: 8239.00 ft
Inc: 91.69 deg Az:
179.91 deg TVD:
7383.62 ft

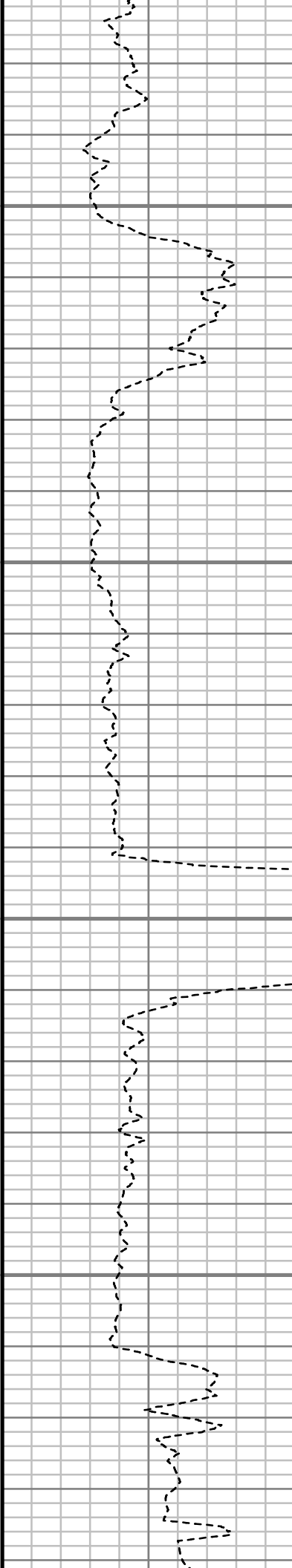


8300

8350

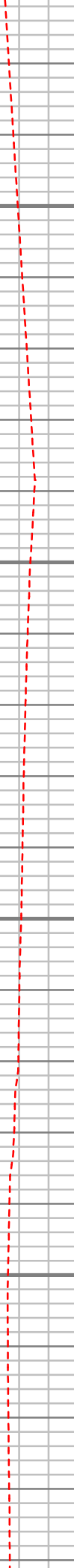
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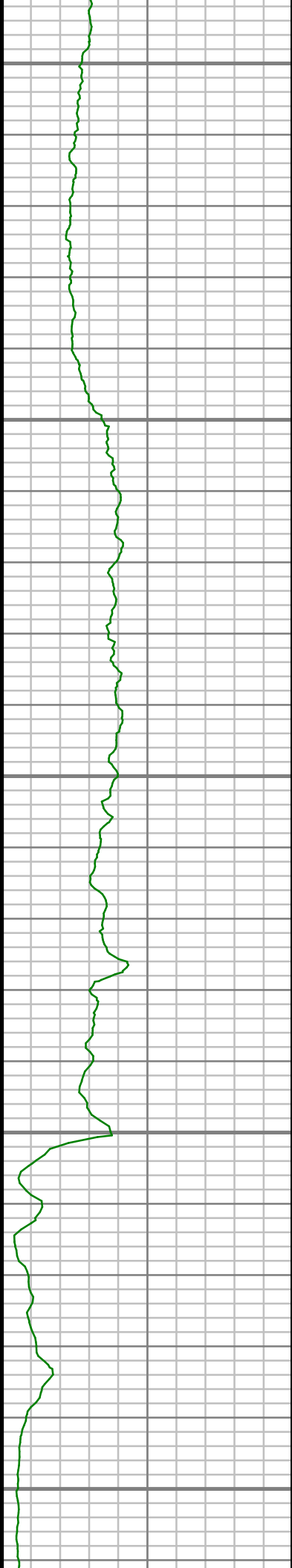
8450



S: 110 MD: 8330.00 ft
Inc: 90.67 deg Az:
181.47 deg TVD:
7381.75 ft

S: 111 MD: 8421.00 ft
Inc: 90.94 deg Az:
181.41 deg TVD:
7380.46 ft





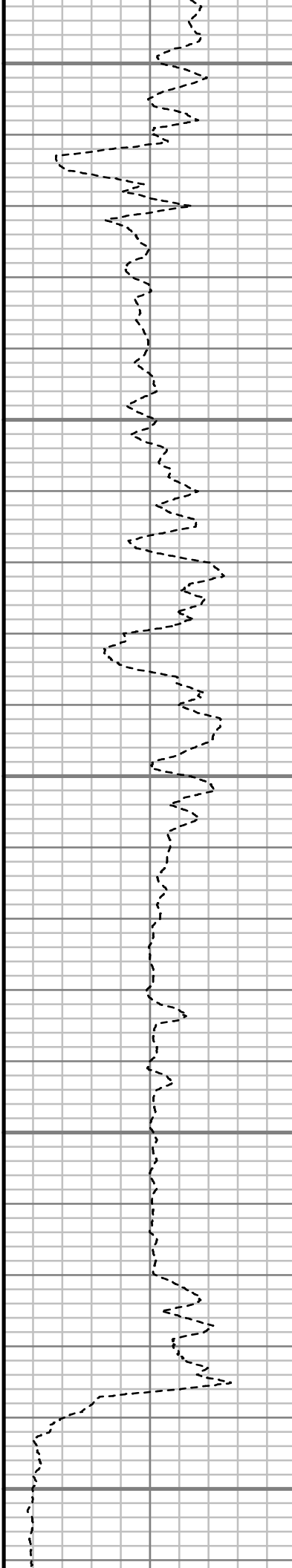
8500

8550

8600

8650

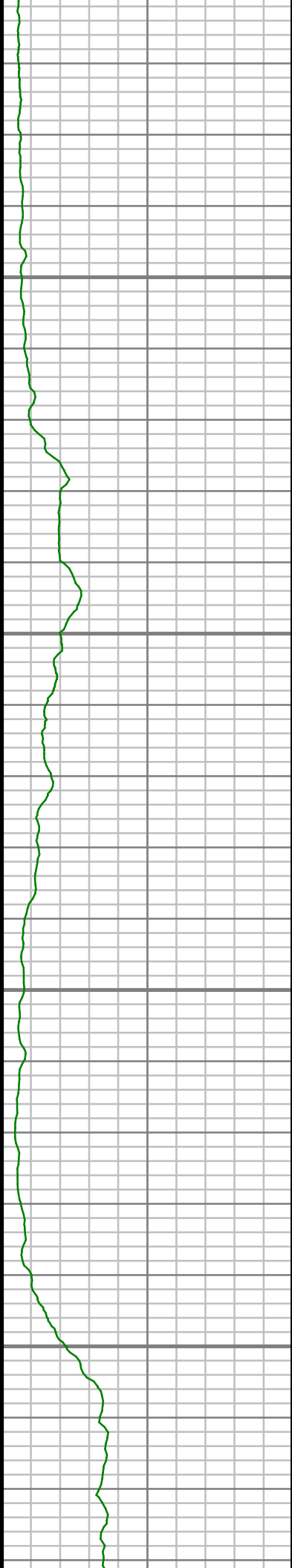
8700



S: 112 MD: 8512.00 ft
Inc: 89.19 deg Az:
181.43 deg TVD:
7380.36 ft

S: 113 MD: 8603.00 ft
Inc: 89.23 deg Az:
180.92 deg TVD:
7381.61 ft

S: 114 MD: 8695.00 ft
Inc: 89.80 deg Az:
182.69 deg TVD:
7382.39 ft

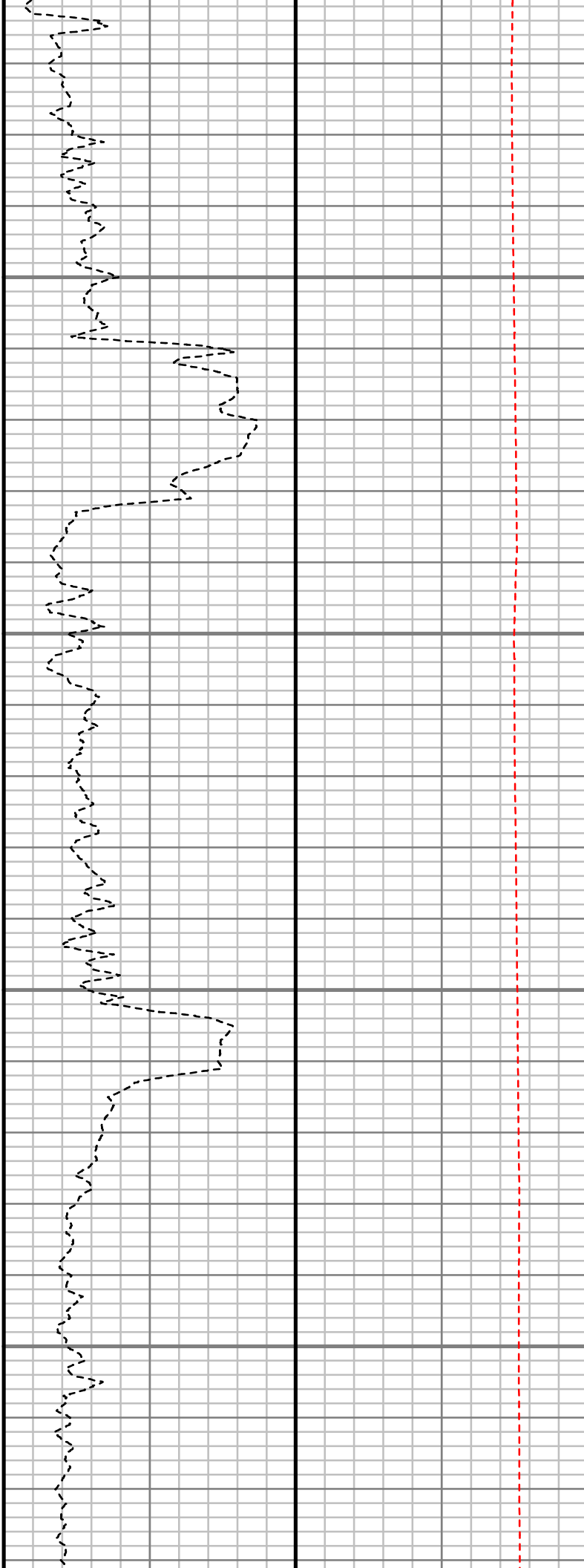


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8800

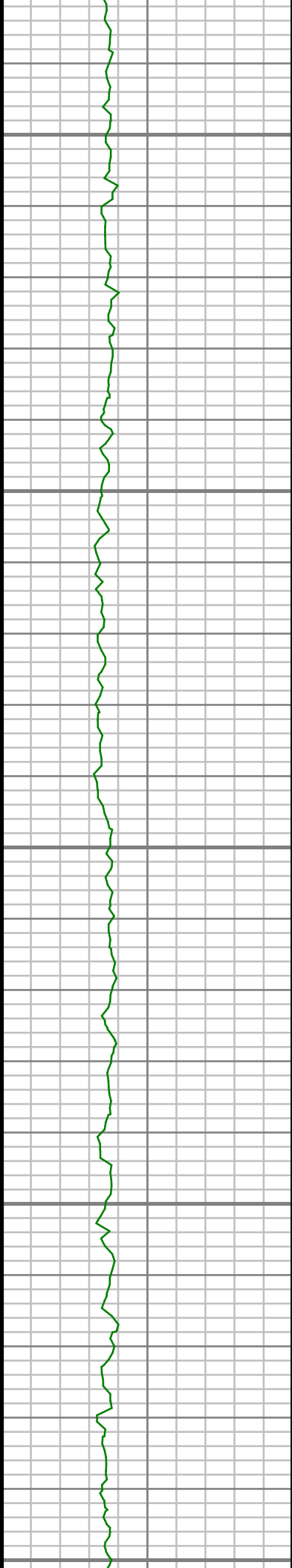
8850

8900



S: 115 MD: 8785.00 ft
Inc: 89.06 deg Az:
181.03 deg TVD:
7383.28 ft

S: 116 MD: 8876.00 ft
Inc: 90.47 deg Az:
181.66 deg TVD:
7383.66 ft



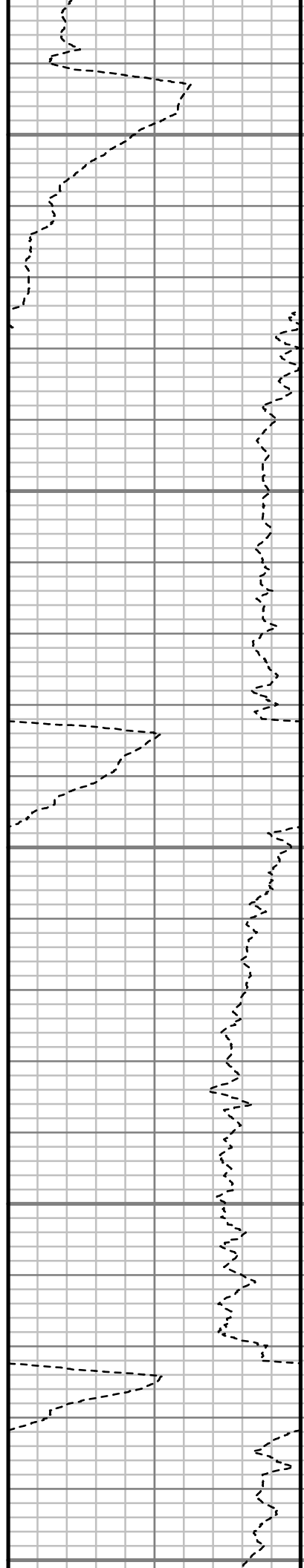
8950

9000

9050

9100

9150



S: 117 MD: 8966.00 ft
Inc: 89.83 deg Az:
180.95 deg TVD:
7383.42 ft

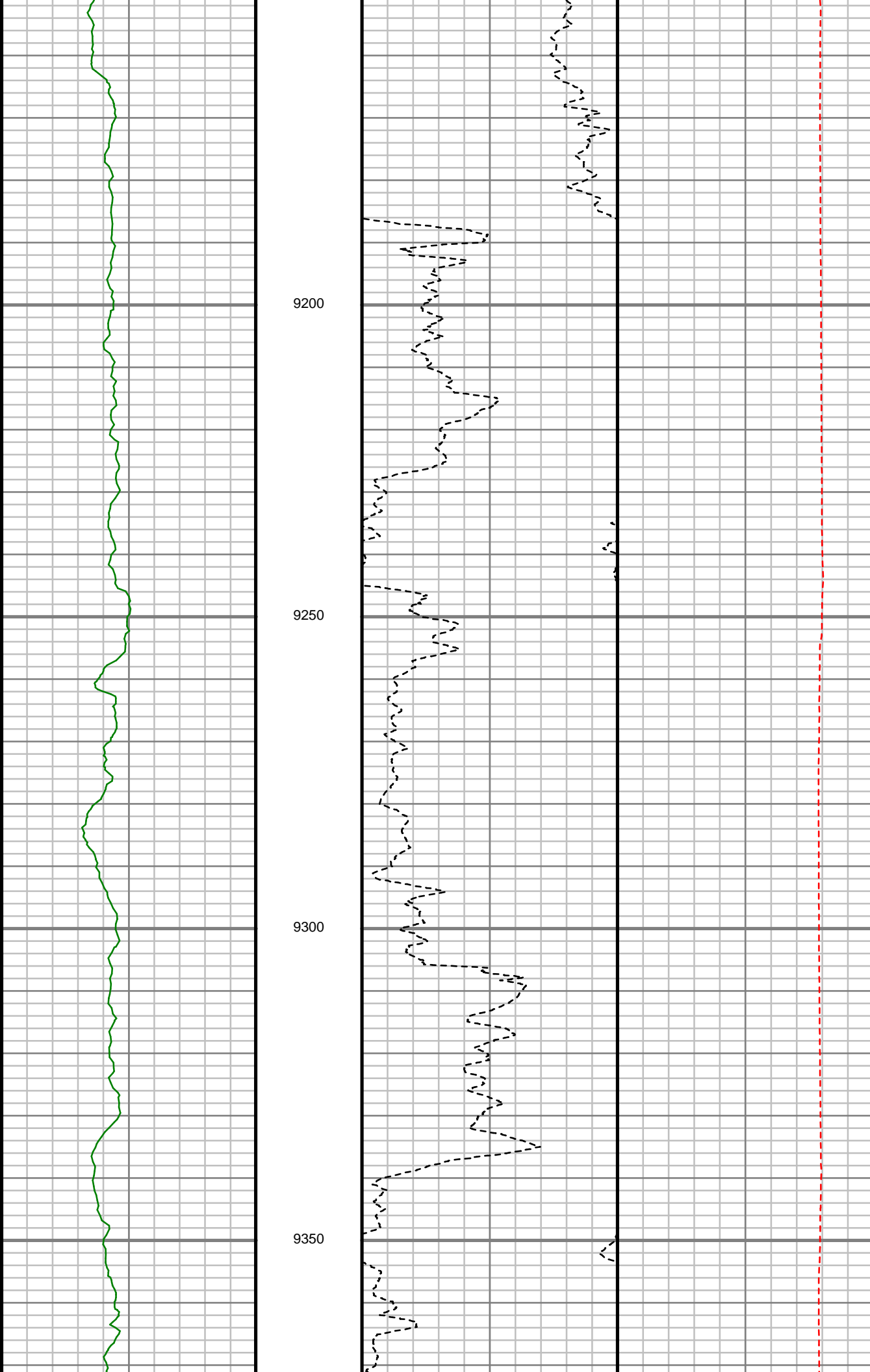
S: 118 MD: 9057.00 ft
Inc: 89.93 deg Az:
180.67 deg TVD:
7383.60 ft

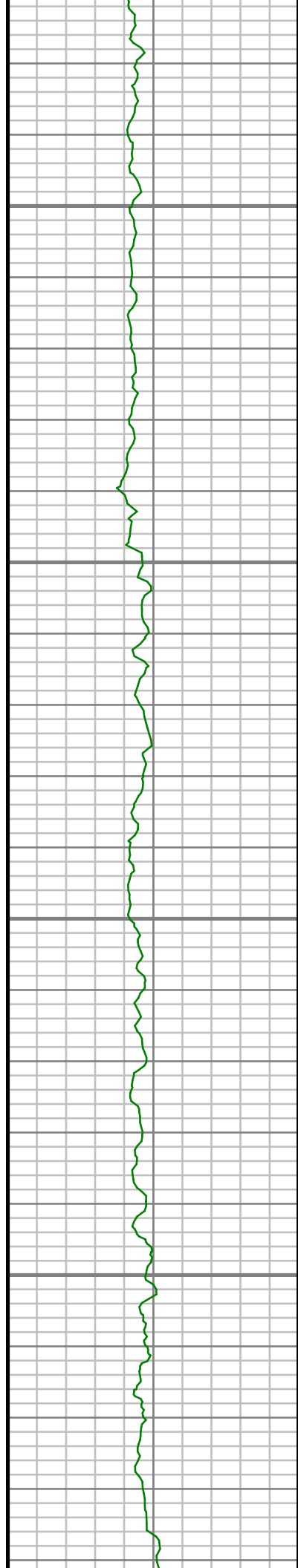
S: 119 MD: 9148.00 ft

Inc: 89.90 deg Az:
180.06 deg TVD:
7383.74 ft

S: 120 MD: 9242.00 ft
Inc: 88.93 deg Az:
177.49 deg TVD:
7384.70 ft

S: 121 MD: 9336.00 ft
Inc: 89.53 deg Az:
179.15 deg TVD:
7385.97 ft



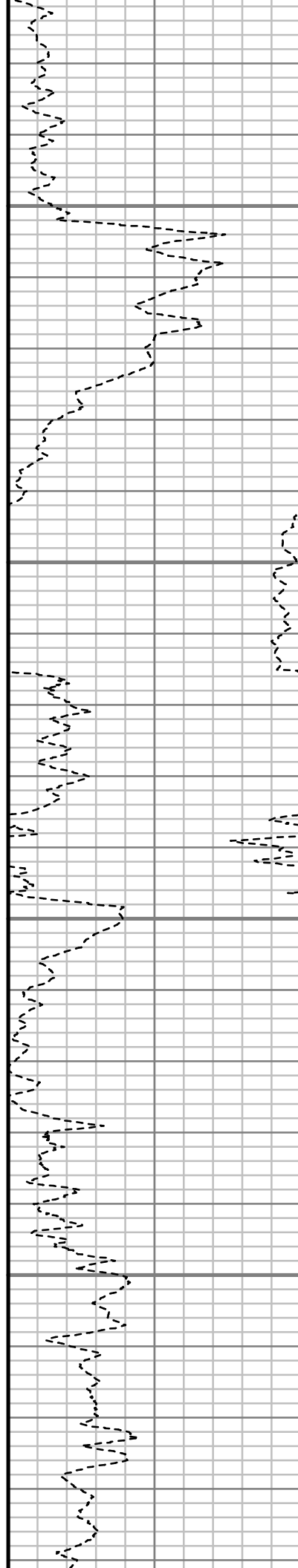


9400

9450

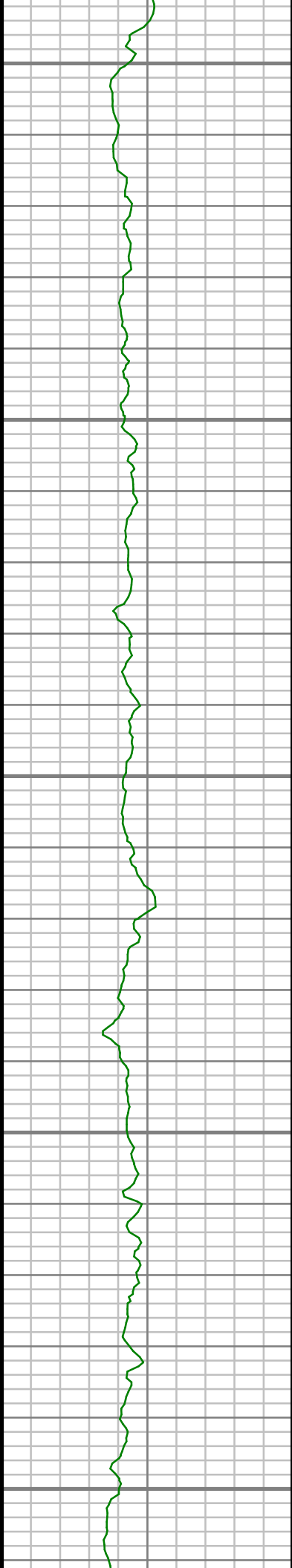
9500

9550



S: 122 MD: 9431.00 ft
Inc: 89.90 deg Az:
180.18 deg TVD:
7386.44 ft

S: 123 MD: 9525.00 ft
Inc: 89.63 deg Az:
178.48 deg TVD:
7386.83 ft



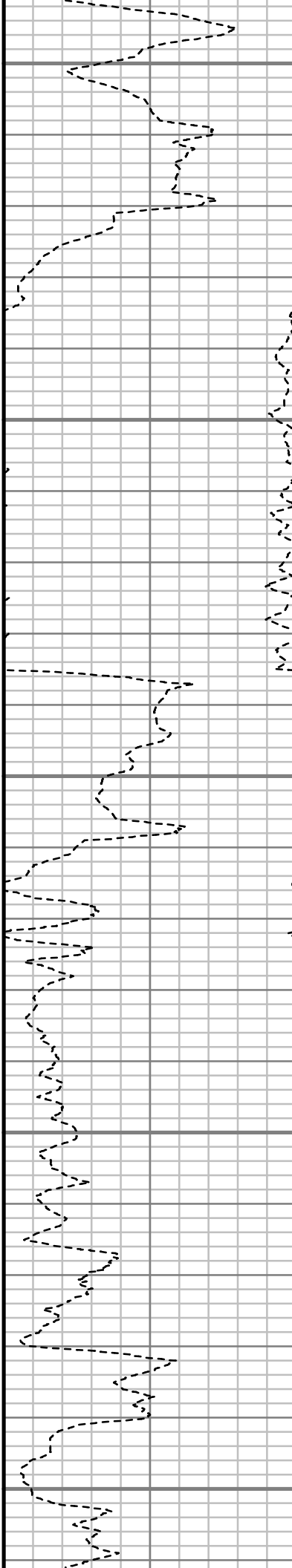
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9650

9700

9750

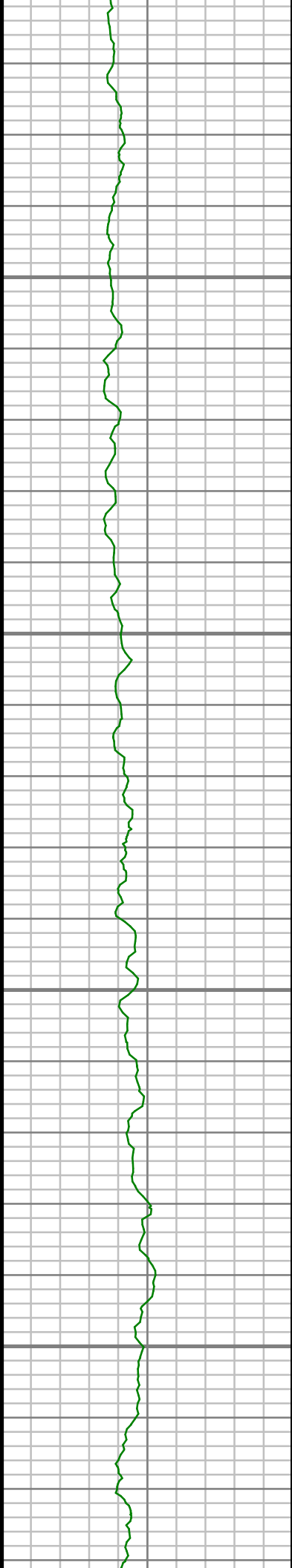
9800



S: 124 MD: 9620.00 ft
Inc: 89.16 deg Az:
179.32 deg TVD:
7387.83 ft

S: 125 MD: 9715.00 ft
Inc: 90.87 deg Az:
180.20 deg TVD:
7387.80 ft

S: 126 MD: 9809.00 ft

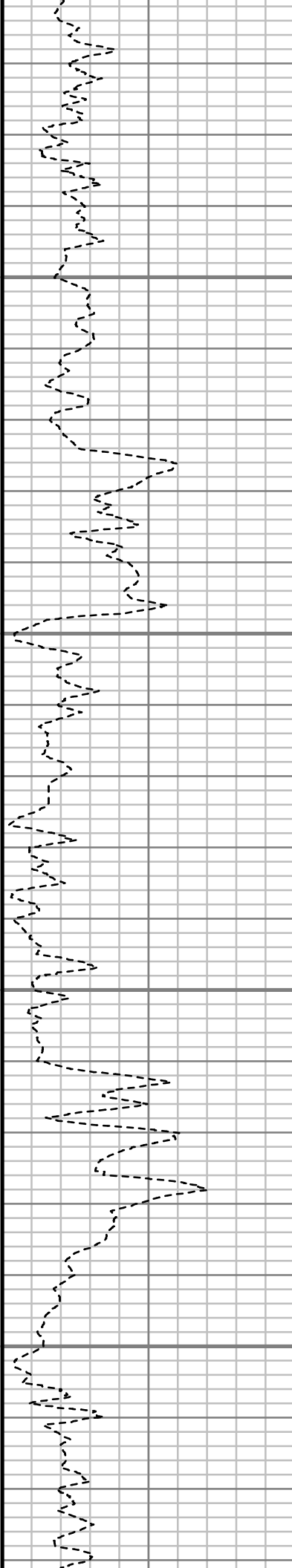


9850

9900

9950

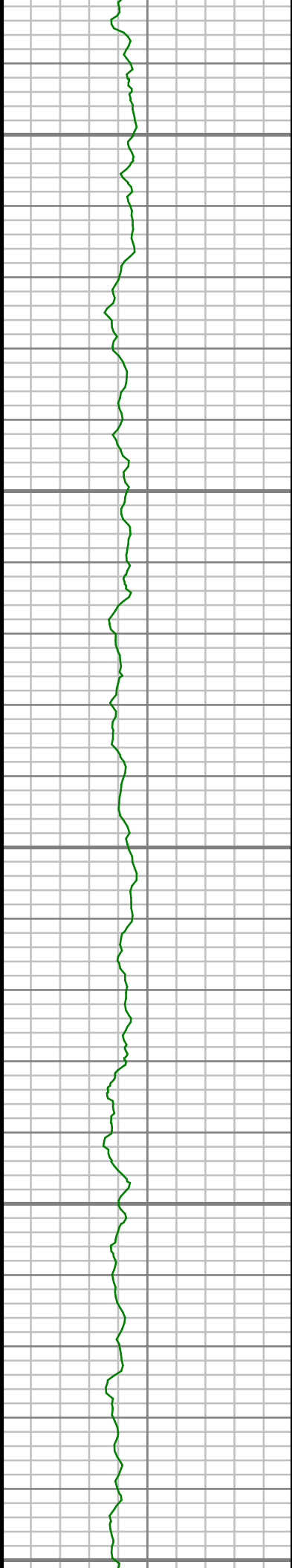
10000



Inc: 89.63 deg Az:
180.39 deg TVD:
7387.39 ft

S: 127 MD: 9904.00 ft
Inc: 90.50 deg Az:
181.36 deg TVD:
7387.28 ft

S: 128 MD: 9998.00 ft
Inc: 90.27 deg Az:
180.16 deg TVD:
7386.65 ft



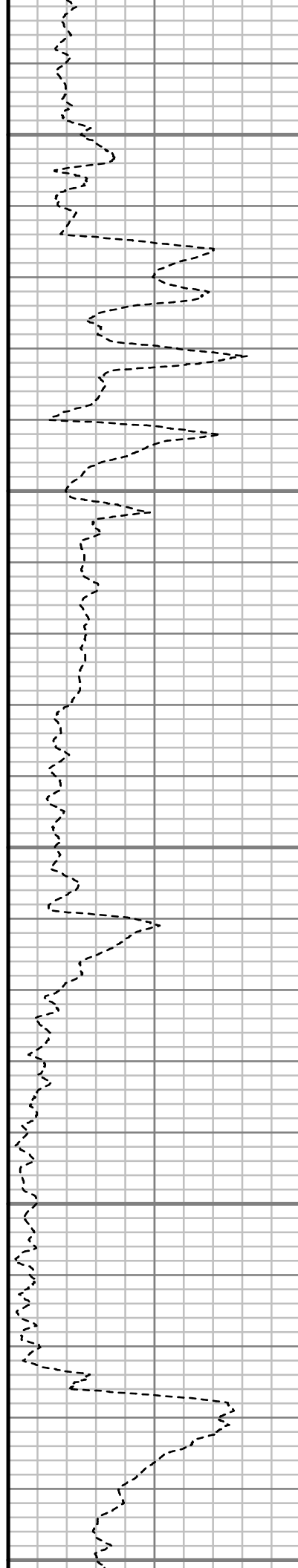
10050

10100

10150

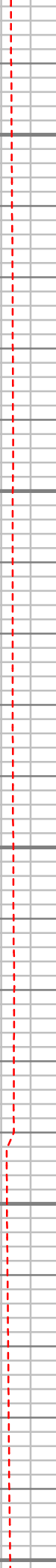
10200

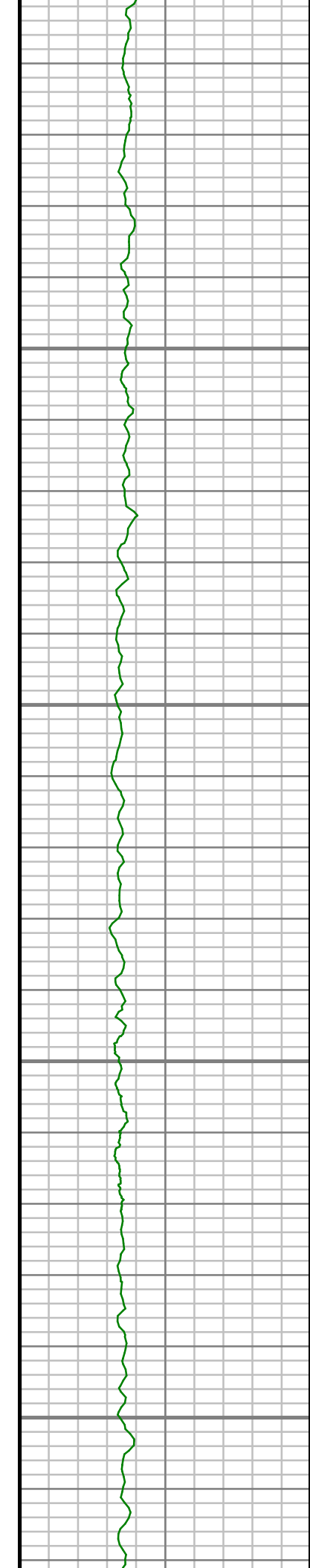
10250



S: 129 MD: 10092.00 ft
Inc: 90.03 deg Az:
181.96 deg TVD:
7386.40 ft

S: 130 MD: 10187.00 ft
Inc: 90.23 deg Az:
181.32 deg TVD:
7386.18 ft



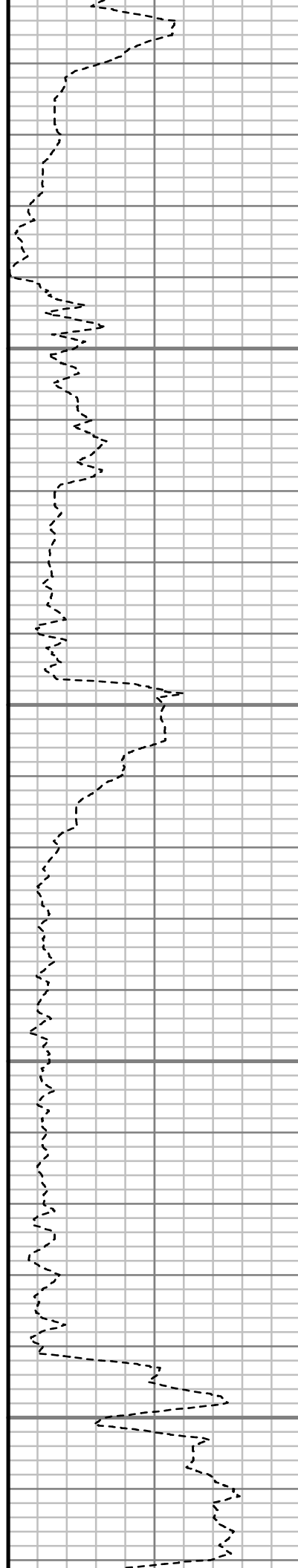


10300

10350

10400

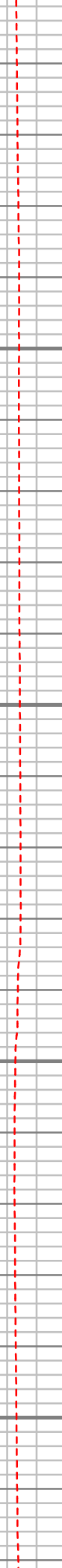
10450

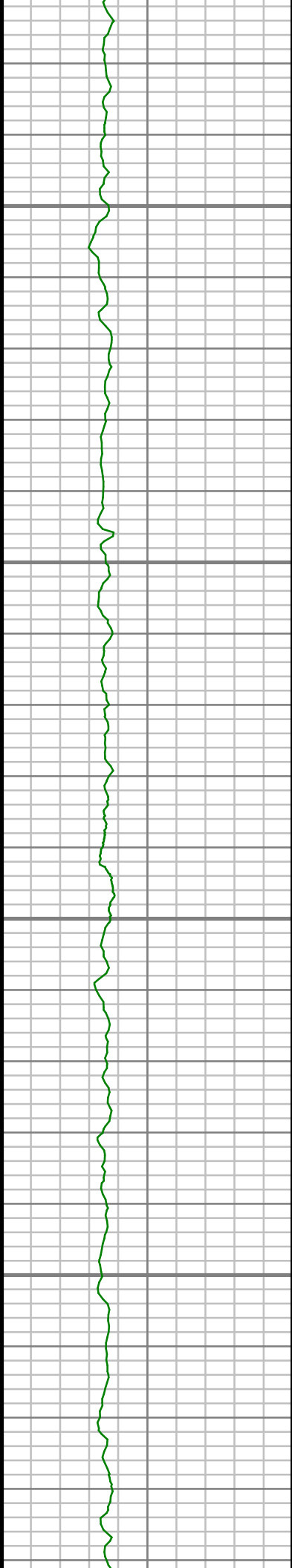


S: 131 MD: 10281.00 ft
Inc: 90.30 deg Az:
181.17 deg TVD:
7385.74 ft

S: 132 MD: 10376.00 ft
Inc: 90.64 deg Az:
179.60 deg TVD:
7384.96 ft

S: 133 MD: 10470.00 ft



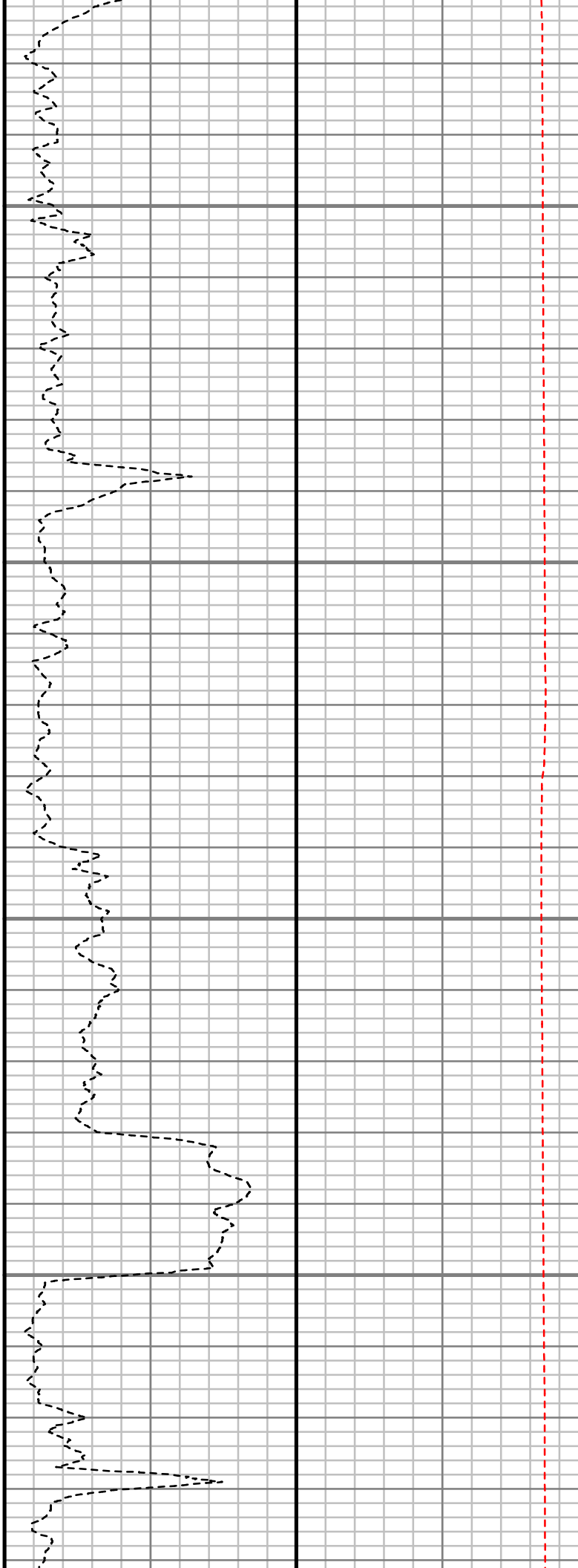


10500

10550

10600

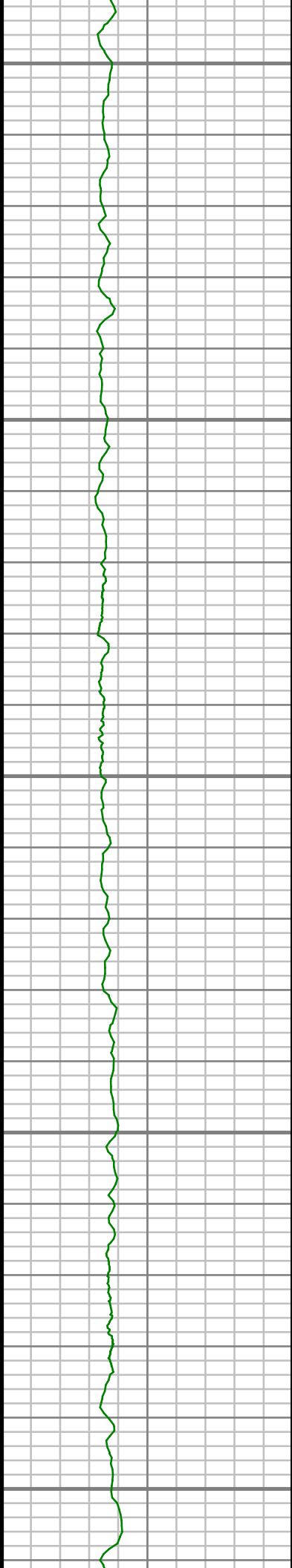
10650



S: 133 MD: 10470.00 ft
Inc: 89.97 deg Az:
180.59 deg TVD:
7384.46 ft

S: 134 MD: 10565.00 ft
Inc: 89.97 deg Az:
179.43 deg TVD:
7384.52 ft

S: 135 MD: 10659.00 ft
Inc: 89.13 deg Az:
180.62 deg TVD:
7385.26 ft



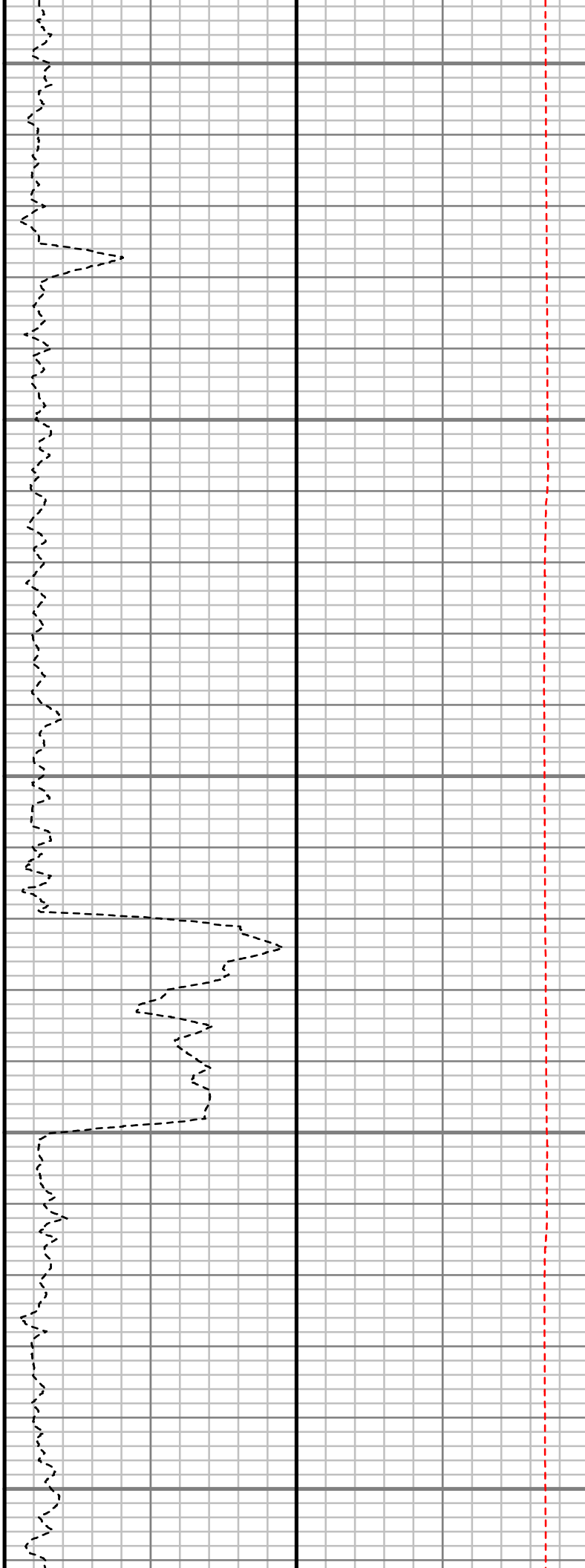
10700

10750

10800

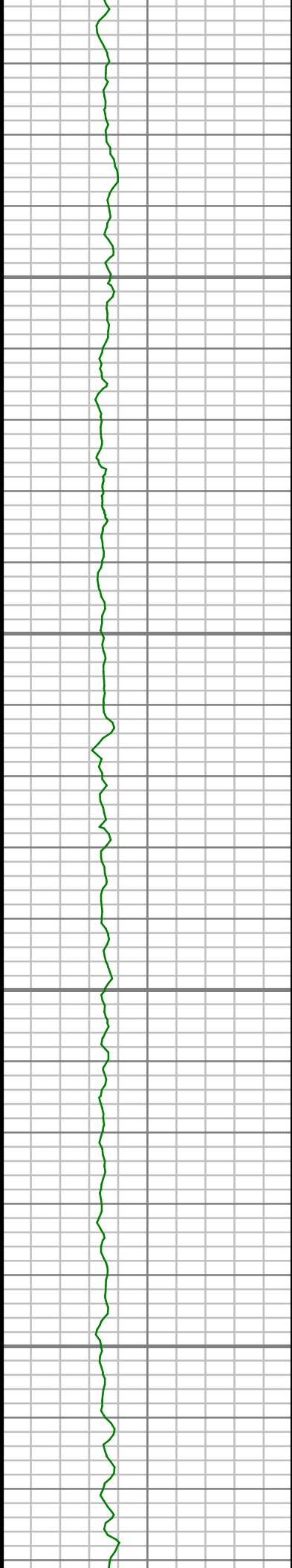
10850

10900



S: 136 MD: 10754.00 ft
Inc: 89.03 deg Az:
179.52 deg TVD:
7386.79 ft

S: 137 MD: 10849.00 ft
Inc: 89.90 deg Az:
180.96 deg TVD:
7387.68 ft

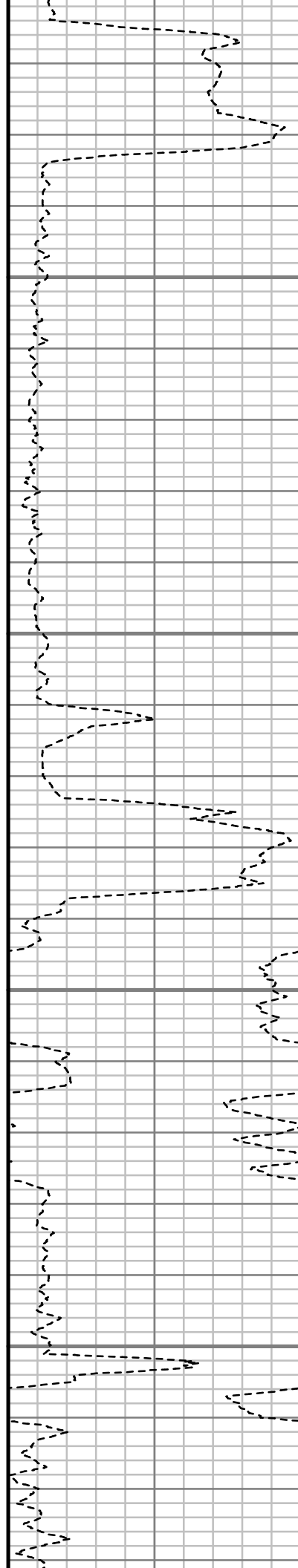


10950

11000

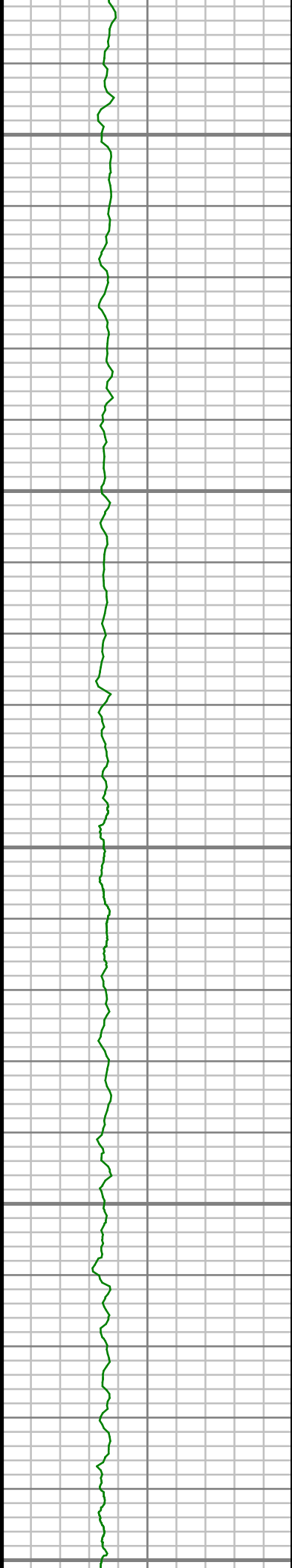
11050

11100



S: 138 MD: 10943.00 ft
Inc: 90.87 deg Az:
181.46 deg TVD:
7387.05 ft

S: 139 MD: 11038.00 ft
Inc: 90.64 deg Az:
179.69 deg TVD:
7385.80 ft



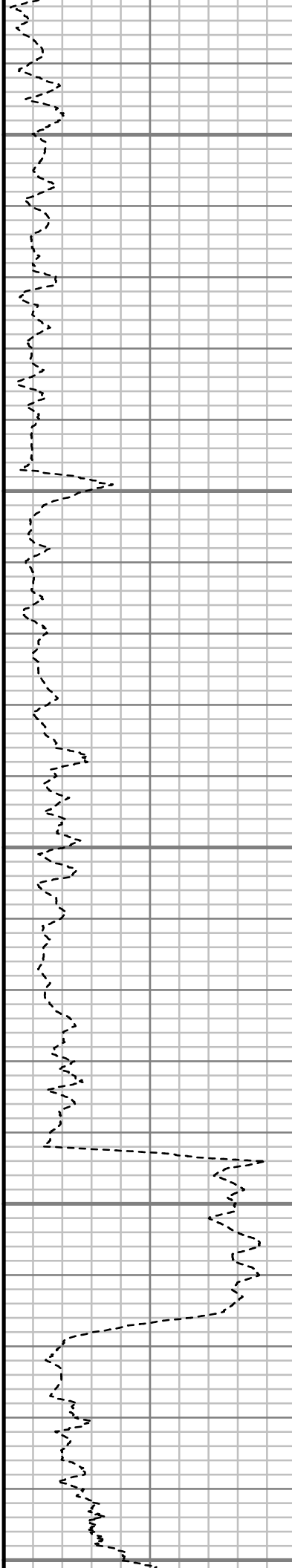
11150

11200

11250

11300

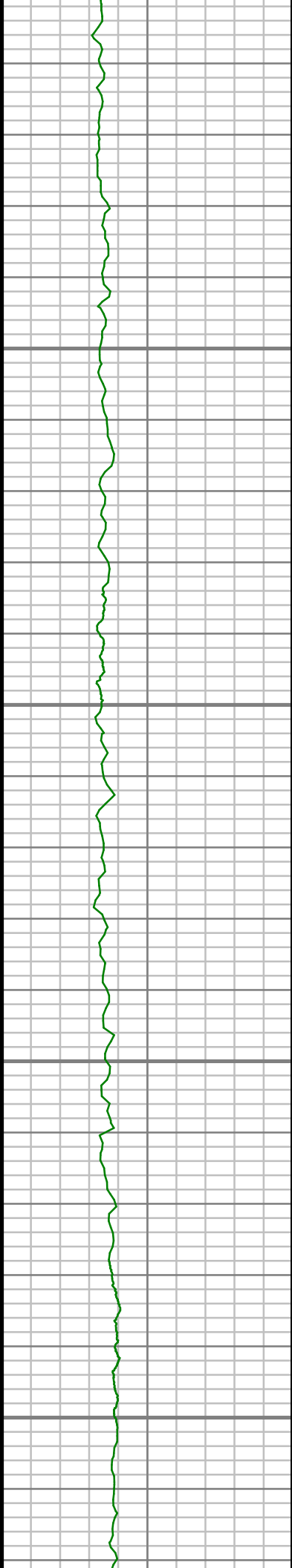
11350



S: 140 MD: 11132.00 ft
Inc: 90.44 deg Az:
180.24 deg TVD:
7384.92 ft

S: 141 MD: 11226.00 ft
Inc: 90.07 deg Az:
178.11 deg TVD:
7384.51 ft

S: 142 MD: 11321.00 ft
Inc: 91.07 deg Az:
179.70 deg TVD:
7383.56 ft

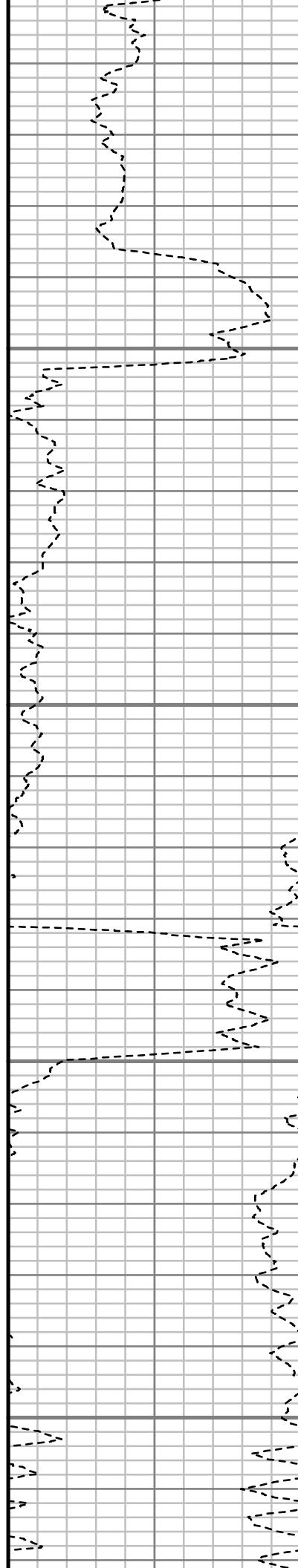


11400

11450

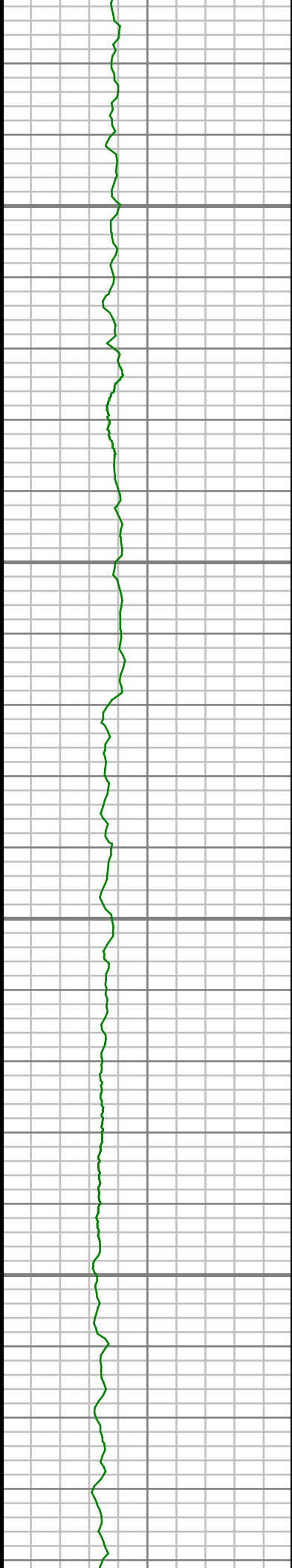
11500

11550



S: 143 MD: 11416.00 ft
Inc: 88.32 deg Az:
179.37 deg TVD:
7384.07 ft

S: 144 MD: 11510.00 ft
Inc: 88.99 deg Az:
179.48 deg TVD:
7386.27 ft

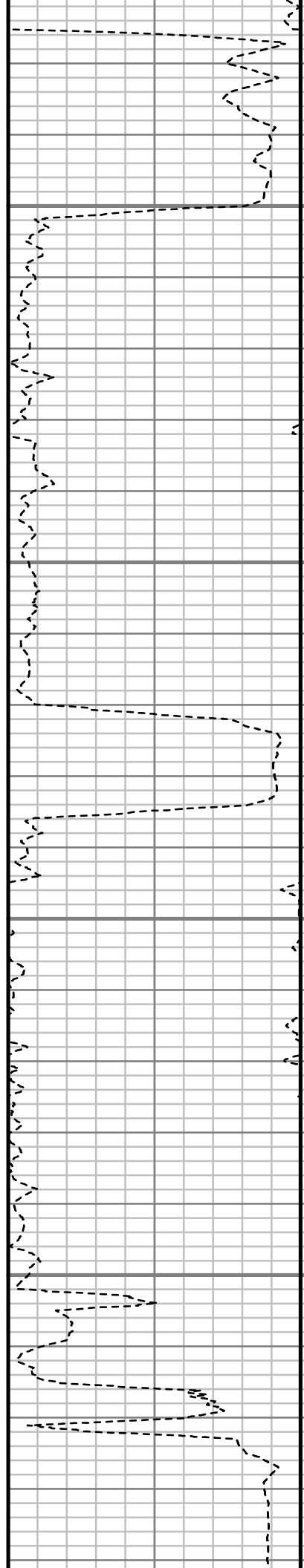


11600

11650

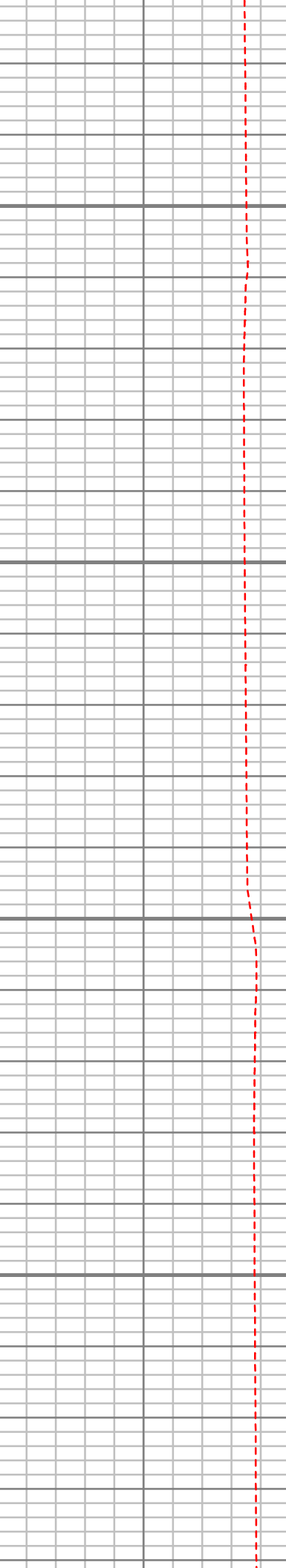
11700

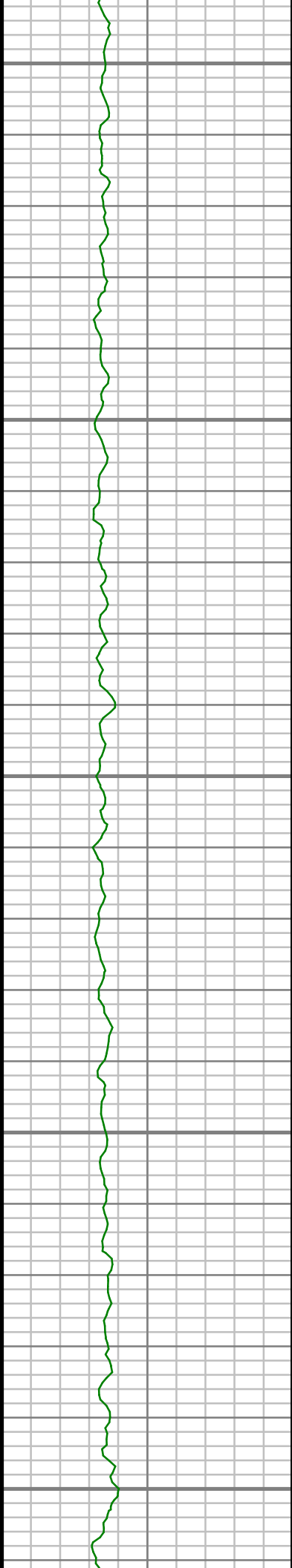
11750



S: 145 MD: 11605.00 ft
Inc: 90.24 deg Az:
179.87 deg TVD:
7386.91 ft

S: 146 MD: 11699.00 ft
Inc: 90.91 deg Az:
180.52 deg TVD:
7385.97 ft





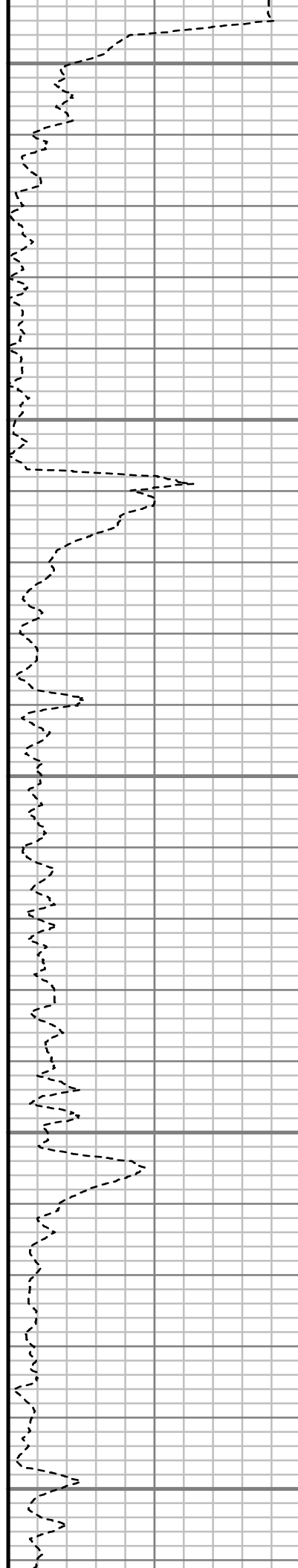
11800

11850

11900

11950

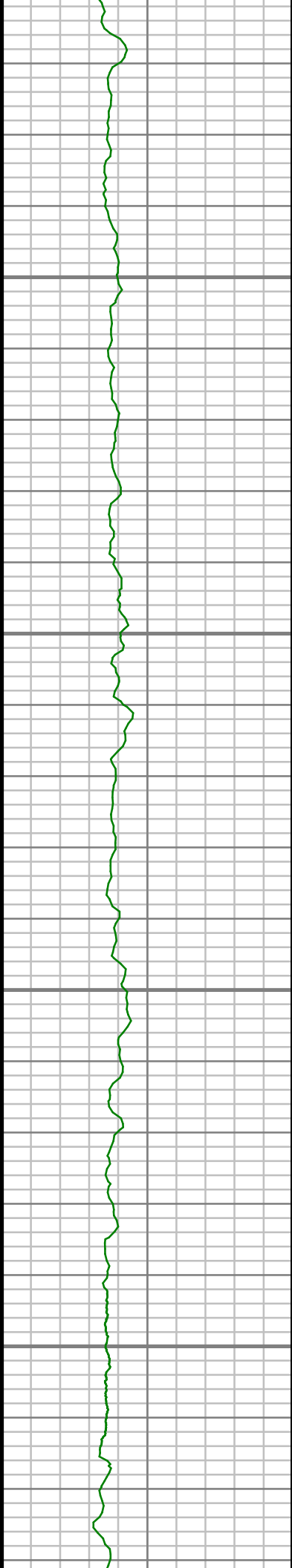
12000



S: 147 MD: 11793.00 ft
Inc: 89.90 deg Az:
180.83 deg TVD:
7385.31 ft

S: 148 MD: 11888.00 ft
Inc: 89.80 deg Az:
180.42 deg TVD:
7385.56 ft

S: 149 MD: 11982.00 ft
Inc: 89.70 deg Az:
180.09 deg TVD:
7385.98 ft

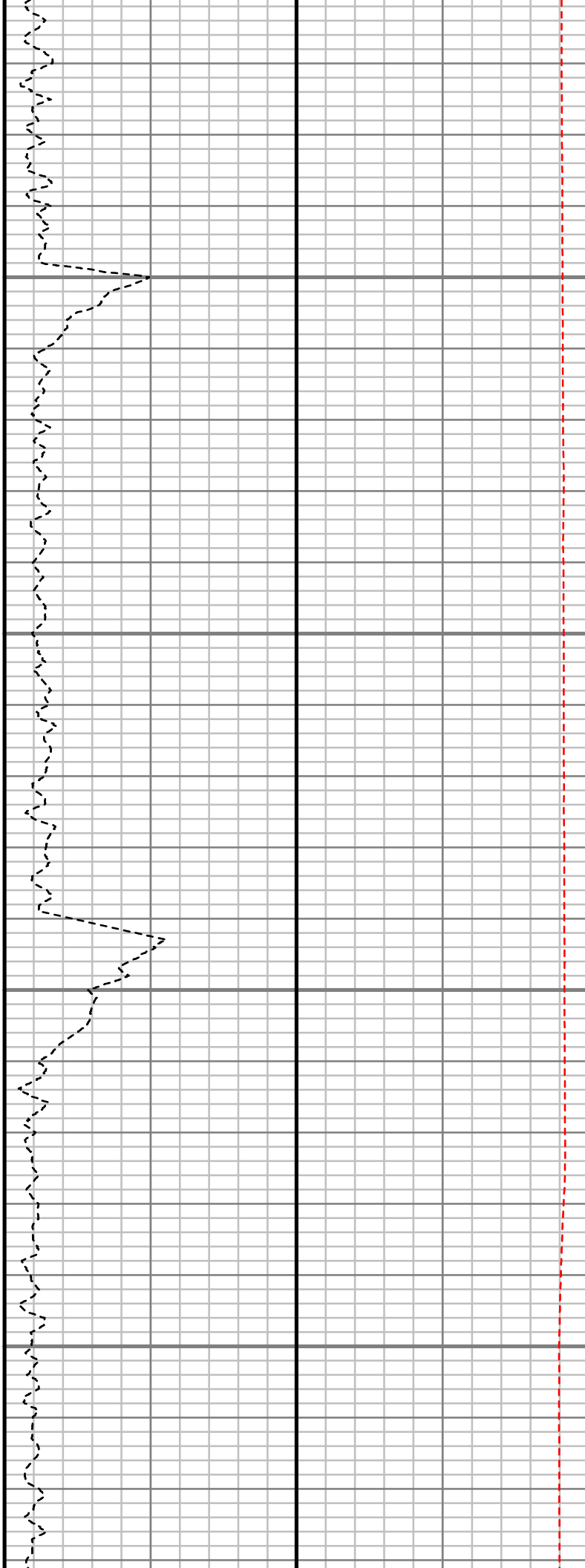


12050

12100

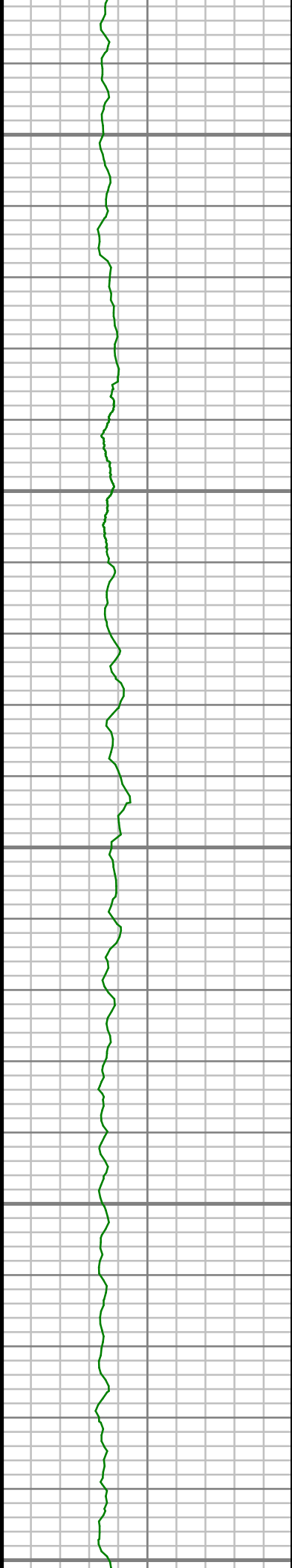
12150

12200



S: 150 MD: 12077.00 ft
Inc: 90.03 deg Az:
179.88 deg TVD:
7386.20 ft

S: 151 MD: 12172.00 ft
Inc: 89.56 deg Az:
179.02 deg TVD:
7386.53 ft



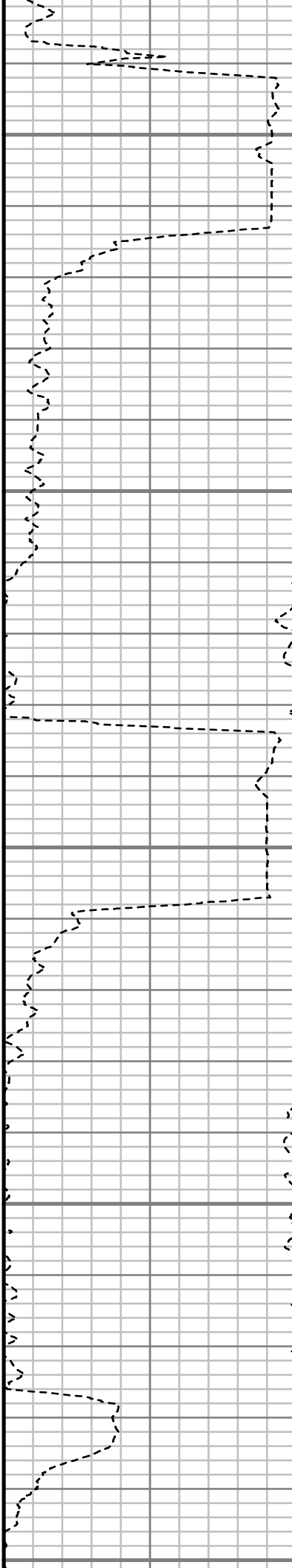
12250

12300

12350

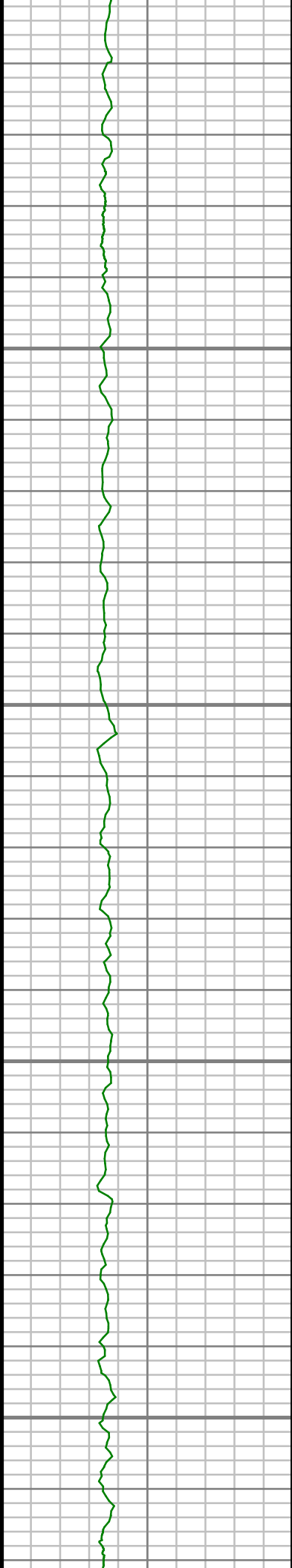
12400

12450



S: 152 MD: 12266.00 ft
Inc: 90.57 deg Az:
179.64 deg TVD:
7386.42 ft

S: 153 MD: 12361.00 ft
Inc: 91.04 deg Az:
181.90 deg TVD:
7385.09 ft

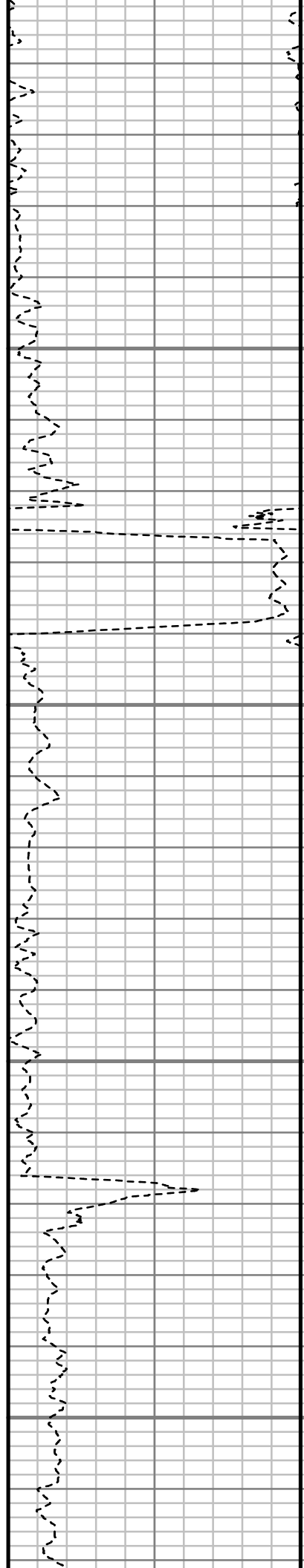


12500

12550

12600

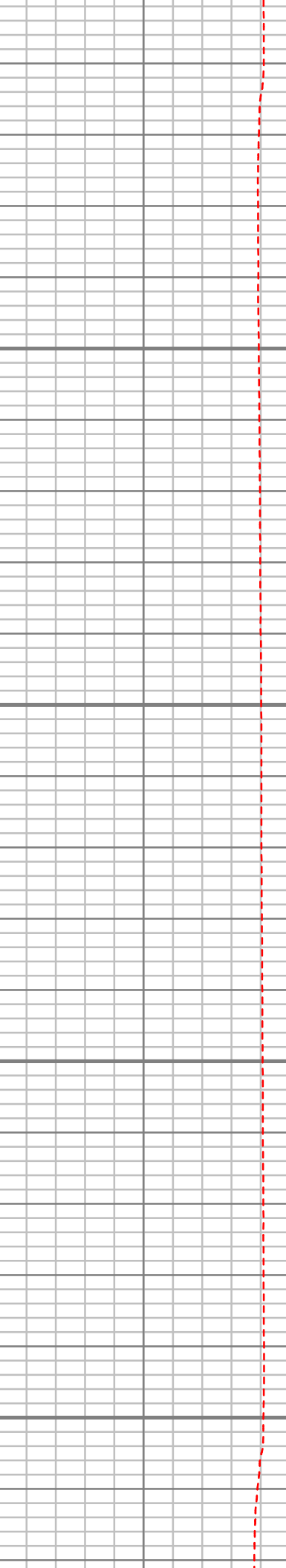
12650

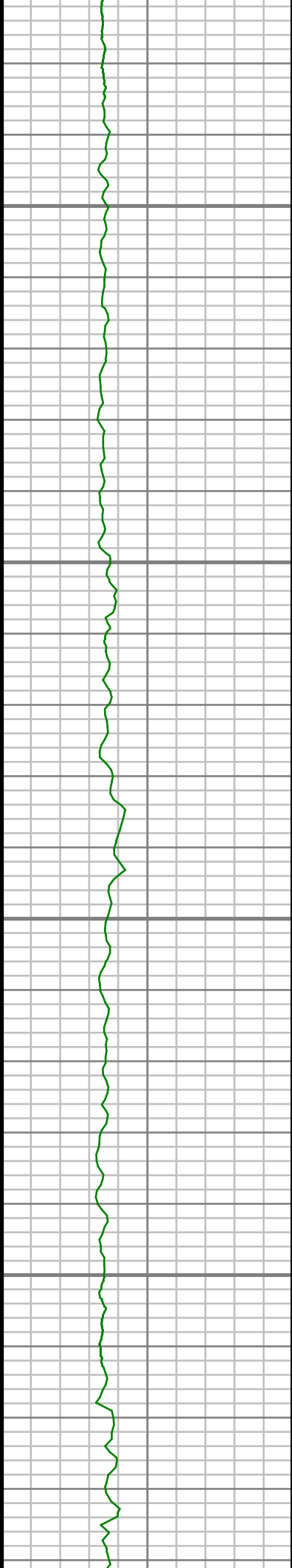


S: 154 MD: 12456.00 ft
Inc: 91.34 deg Az:
181.81 deg TVD:
7383.11 ft

S: 155 MD: 12550.00 ft
Inc: 90.13 deg Az:
179.85 deg TVD:
7381.90 ft

S: 156 MD: 12645.00 ft
Inc: 89.06 deg Az:
178.48 deg TVD:
7382.57 ft



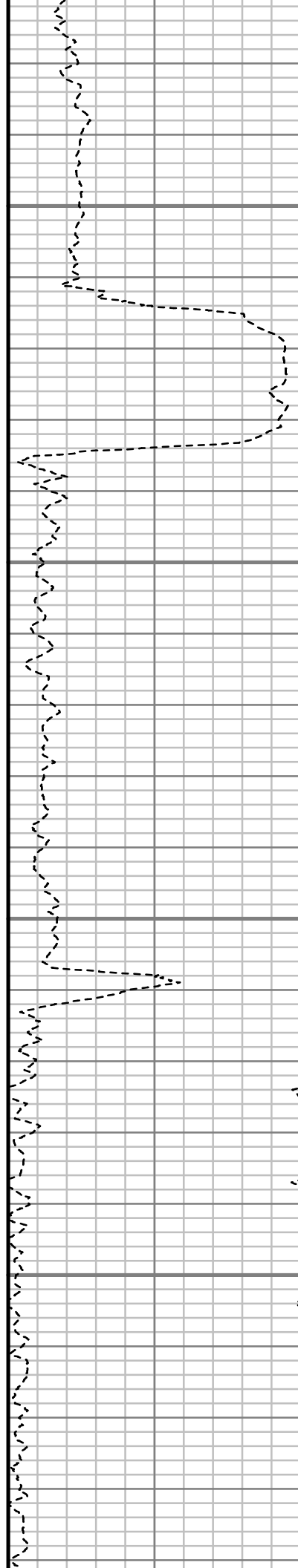


12700

12750

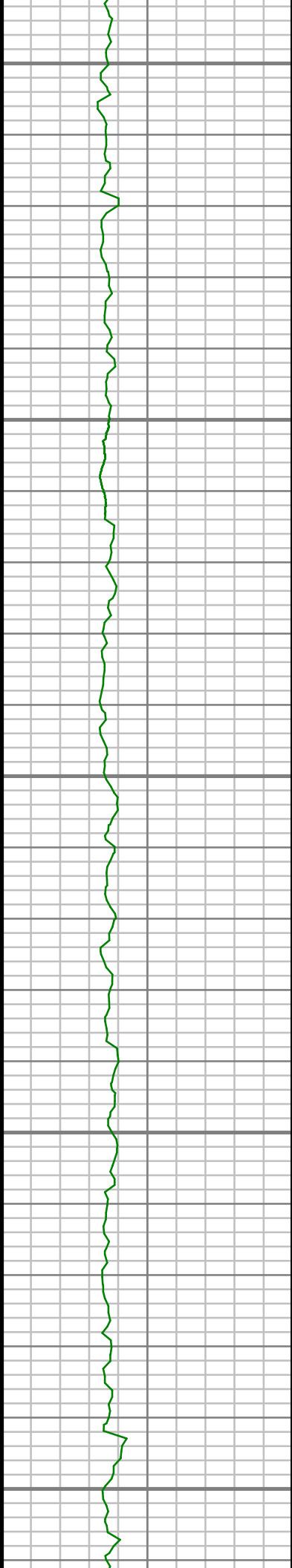
12800

12850



S: 157 MD: 12739.00 ft
Inc: 89.40 deg Az:
180.09 deg TVD:
7383.83 ft

S: 158 MD: 12834.00 ft
Inc: 89.40 deg Az:
179.13 deg TVD:
7384.83 ft



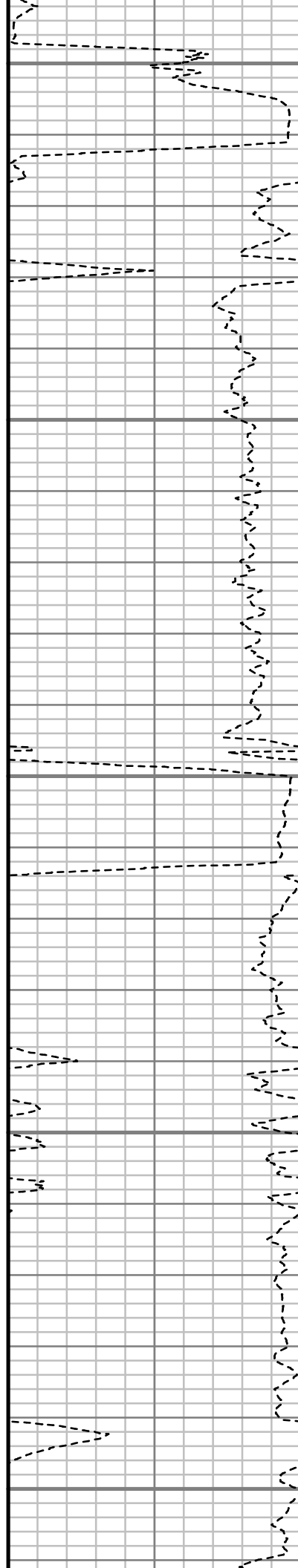
12900

12950

13000

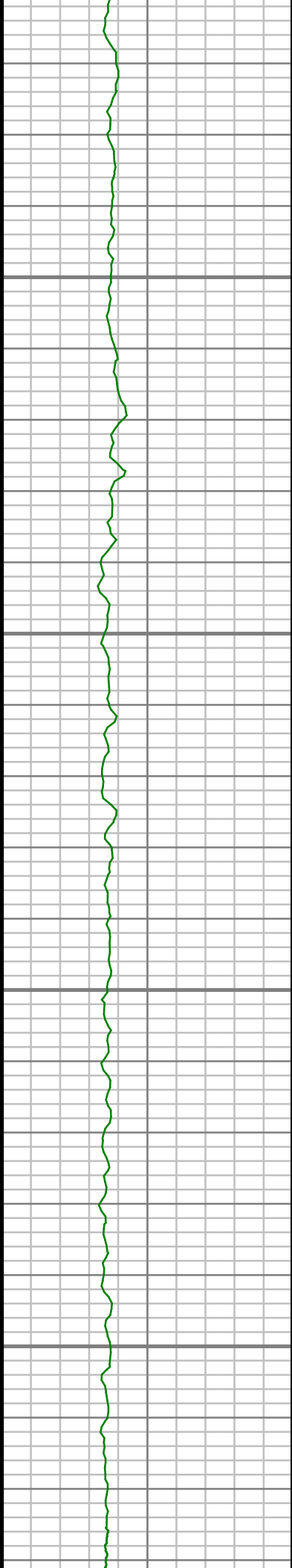
13050

13100



S: 159 MD: 12929.00 ft
Inc: 89.40 deg Az:
179.06 deg TVD:
7385.83 ft

S: 160 MD: 13023.00 ft
Inc: 90.00 deg Az:
180.32 deg TVD:
7386.33 ft

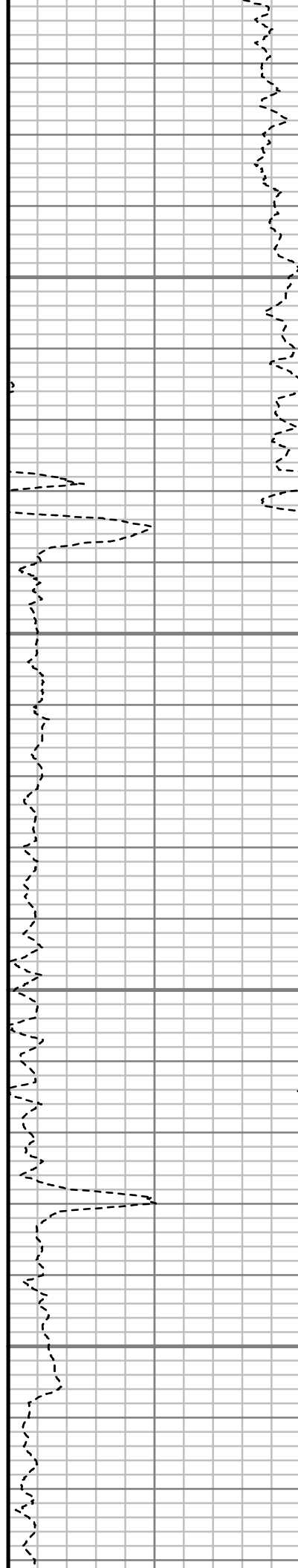


13150

13200

13250

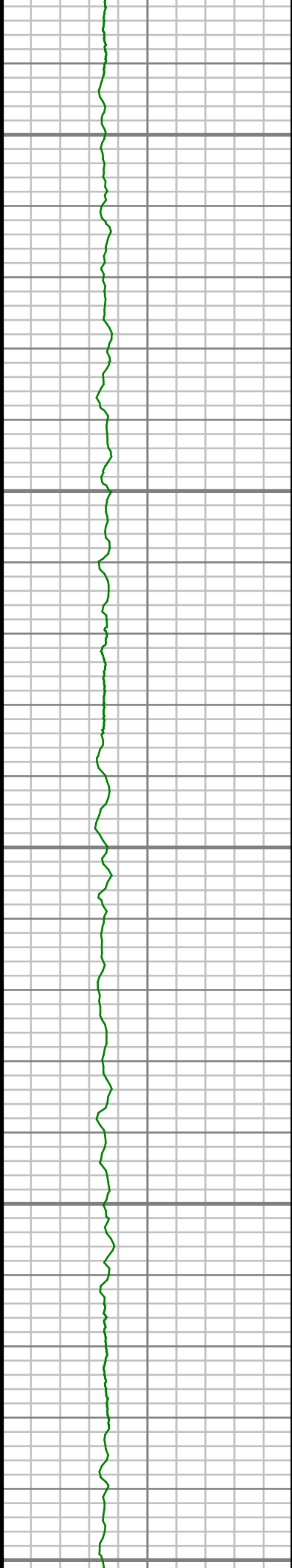
13300



S: 161 MD: 13118.00 ft
Inc: 90.24 deg Az:
179.94 deg TVD:
7386.13 ft

S: 162 MD: 13212.00 ft
Inc: 90.27 deg Az:
179.59 deg TVD:
7385.72 ft

S: 163 MD: 13307.00 ft
Inc: 90.67 deg Az:
178.62 deg TVD:
7384.94 ft



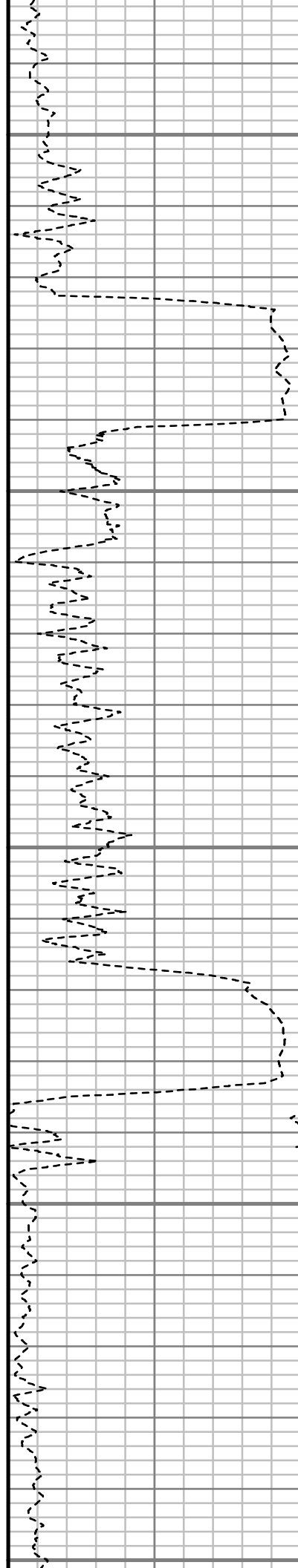
13350

13400

13450

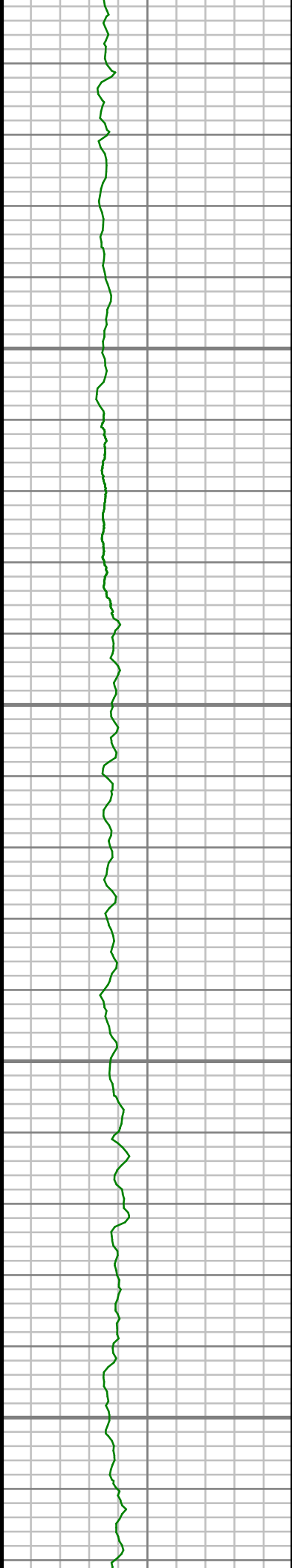
13500

13550



S: 164 MD: 13402.00 ft
Inc: 89.70 deg Az:
179.06 deg TVD:
7384.64 ft

S: 165 MD: 13496.00 ft
Inc: 87.92 deg Az:
178.69 deg TVD:
7386.59 ft

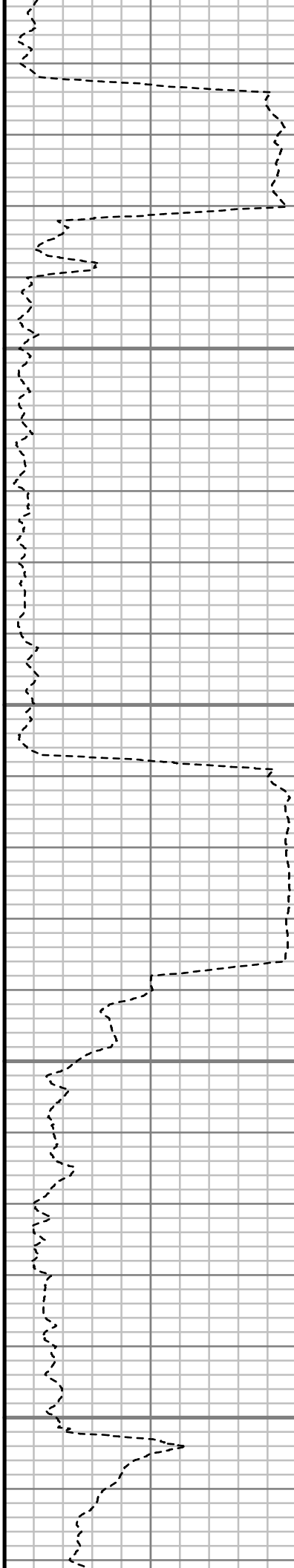


13600

13650

13700

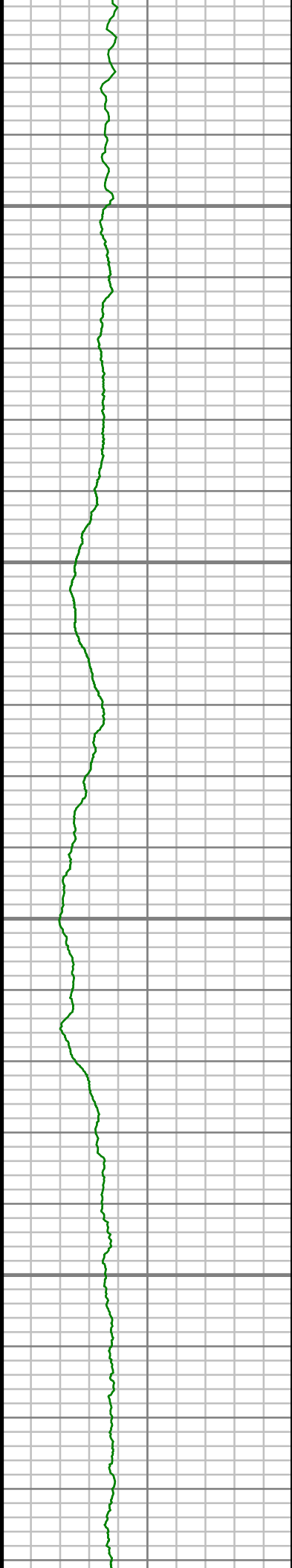
13750



S: 166 MD: 13591.00 ft
Inc: 88.32 deg Az:
178.84 deg TVD:
7389.71 ft

S: 167 MD: 13685.00 ft
Inc: 89.83 deg Az:
180.30 deg TVD:
7391.22 ft



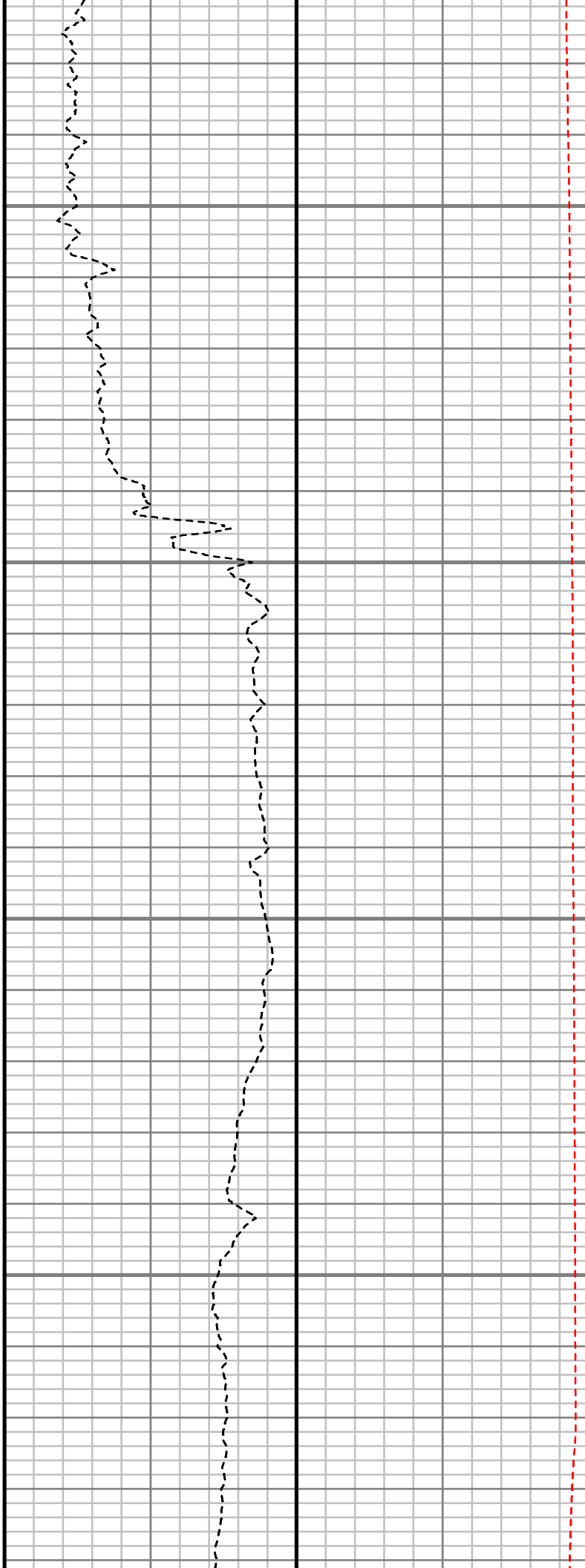


13800

13850

13900

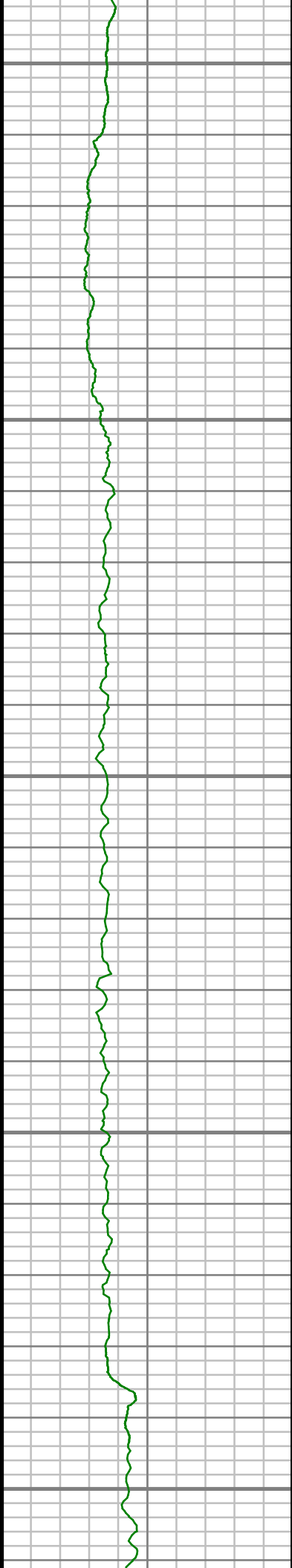
13950



S: 168 MD: 13780.00 ft
Inc: 90.20 deg Az:
181.17 deg TVD:
7391.19 ft

S: 169 MD: 13875.00 ft
Inc: 90.50 deg Az:
180.28 deg TVD:
7390.61 ft

S: 170 MD: 13969.00 ft
Inc: 90.60 deg Az:
179.67 deg TVD:
7389.70 ft



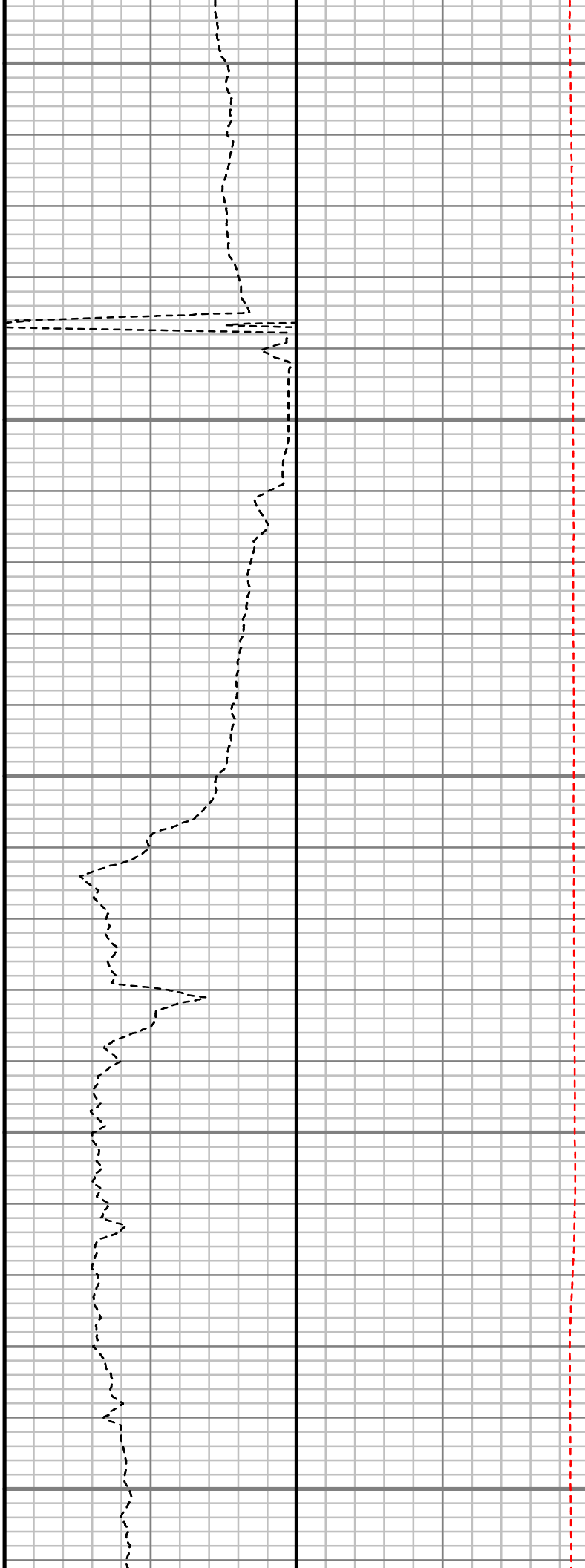
14000

14050

14100

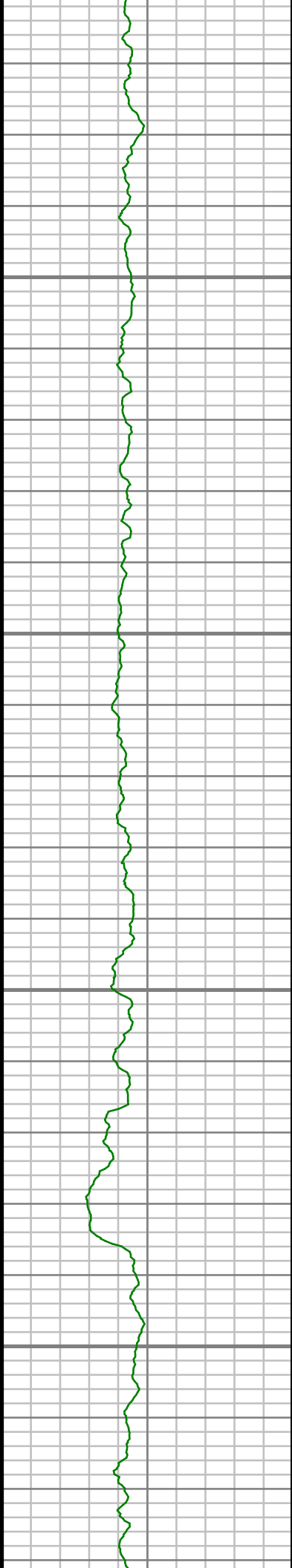
14150

14200



S: 171 MD: 14064.00 ft
Inc: 88.32 deg Az:
181.73 deg TVD:
7390.59 ft

S: 172 MD: 14158.00 ft
Inc: 88.56 deg Az:
180.62 deg TVD:
7393.15 ft

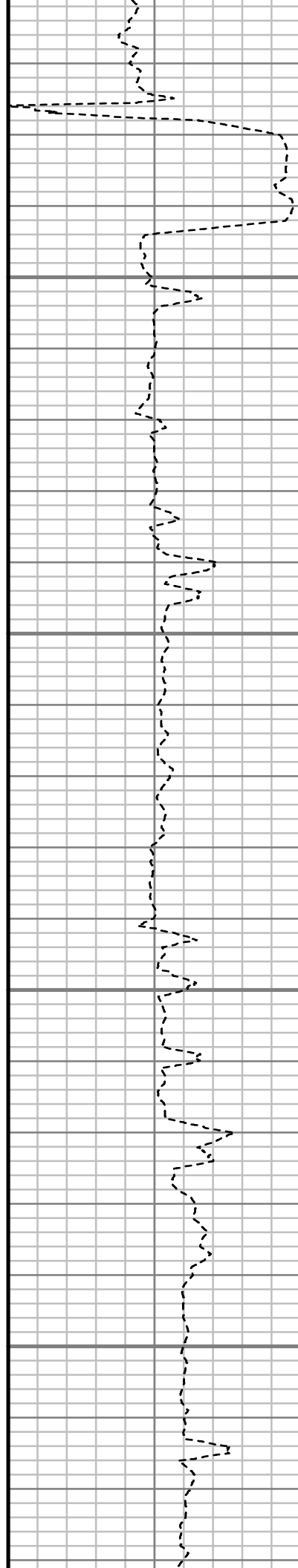


14250

14300

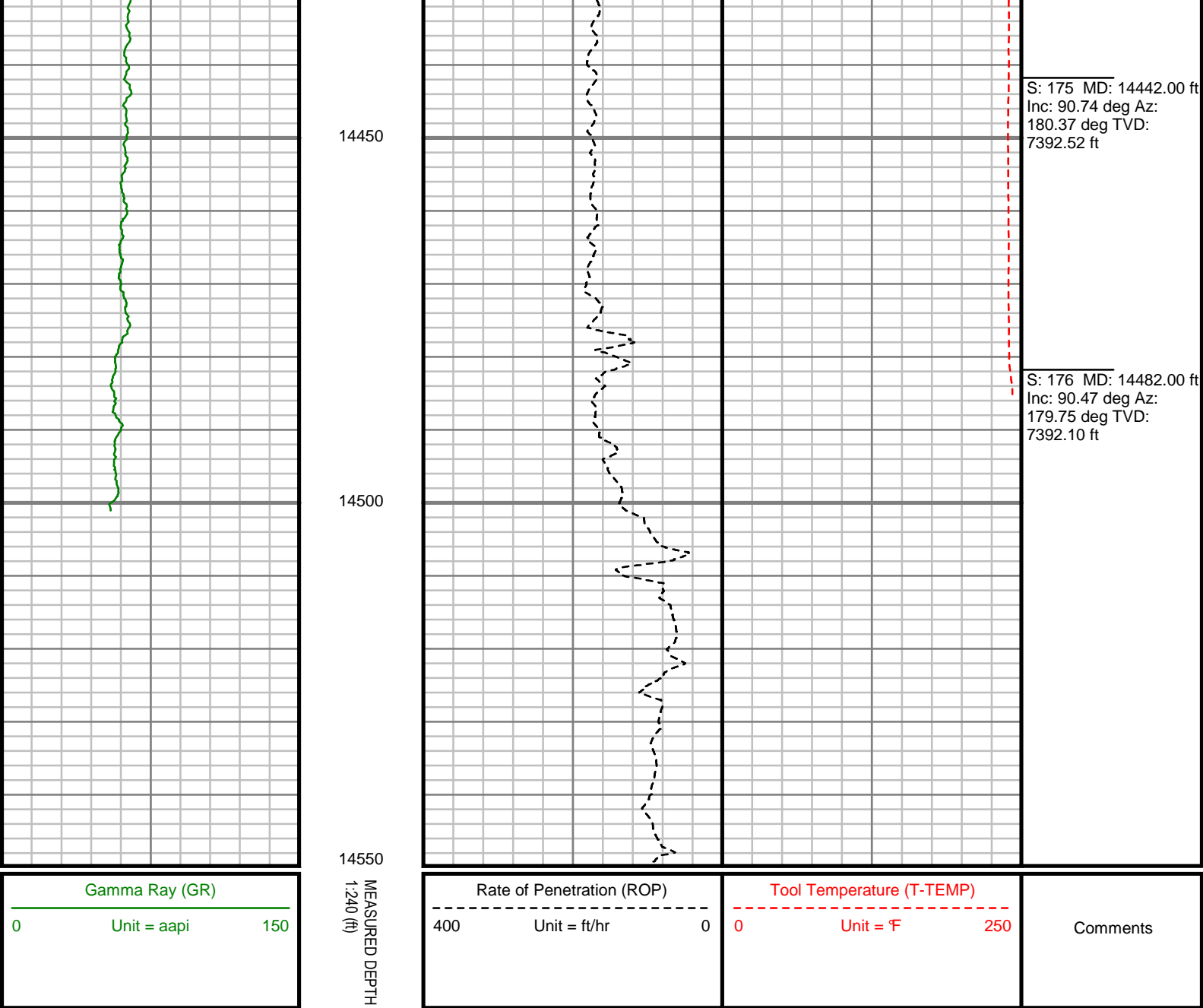
14350

14400



S: 173 MD: 14253.00 ft
Inc: 90.23 deg Az:
181.37 deg TVD:
7394.15 ft

S: 174 MD: 14348.00 ft
Inc: 90.50 deg Az:
181.54 deg TVD:
7393.54 ft





MWD Survey Report
for
ANADARKO PETROLEUM CORP

Well Location	DOVE 27-12 PAD
Well Name	DOVE 8C-13HZ
Rig Name	H&P 311
Survey Date	6/6/2013
Latitude	40°9'32.987"N
B Total	52735, 52757, 52796 NT
Dip	66.93, 66.96, 66.97 deg
Magnetic Declination	8.57 deg
North Reference	True North
Grid Correction	None
Depth Reference	RKB (25.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 180.00Azim (deg)
Definitive Survey	DOVE 8C-13HZ
Operator(s)	J. DENNING, M. SHARKER, M. SMITH

Well Notes

SURVEYS FROM 0 FT. TO 960 FT. WERE ACQUIRED BY MULTISHOT MWD.

SURVEYS FROM 960 FT. TO 14482 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

Survey Report

Well Name: DOVE 8C-13HZ
 Survey: DOVE 8C-13HZ
 Survey Date: 6/6/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Course Length ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	Invalid
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	25.00
125.00	0.43	94.15	125.00	0.03	-0.03	0.37	0.43	100.00
225.00	0.85	99.70	224.99	0.18	-0.18	1.48	0.42	100.00
325.00	0.54	84.72	324.99	0.26	-0.26	2.68	0.36	100.00
425.00	0.20	93.47	424.98	0.23	-0.23	3.32	0.34	100.00
525.00	0.56	111.63	524.98	0.42	-0.42	3.95	0.38	100.00
625.00	0.16	22.39	624.98	0.47	-0.47	4.46	0.58	100.00
725.00	0.24	79.88	724.98	0.30	-0.30	4.72	0.20	100.00
825.00	0.34	180.09	824.98	0.56	-0.56	4.92	0.45	100.00
925.00	0.19	228.36	924.98	0.97	-0.97	4.80	0.26	100.00
960.00	0.39	41.55	959.98	0.92	-0.92	4.84	1.65	35.00
1076.00	0.20	2.42	1075.97	0.42	-0.42	5.11	0.23	116.00
1130.00	0.99	45.46	1129.97	0.00	0.00	5.44	1.58	54.00
1228.00	2.66	72.96	1227.92	-1.27	1.27	8.22	1.88	98.00
1318.00	3.70	66.22	1317.78	-3.05	3.05	12.88	1.22	90.00
1409.00	6.09	58.69	1408.44	-6.74	6.74	19.69	2.71	91.00
1500.00	7.80	56.10	1498.77	-12.69	12.69	28.94	1.92	91.00
1591.00	9.38	55.95	1588.75	-20.29	20.29	40.21	1.73	91.00
1682.00	11.29	57.52	1678.27	-29.23	29.23	53.87	2.12	91.00
1774.00	10.91	54.45	1768.55	-39.12	39.12	68.55	0.76	92.00
1864.00	9.60	53.02	1857.11	-48.59	48.59	81.47	1.48	90.00
1955.00	10.29	53.46	1946.74	-57.99	57.99	94.06	0.77	91.00
2046.00	10.58	56.85	2036.24	-67.40	67.40	107.59	0.74	91.00
2137.00	9.97	52.79	2125.78	-76.73	76.73	120.85	1.04	91.00
2228.00	9.61	56.96	2215.46	-85.63	85.63	133.49	0.87	91.00
2320.00	9.35	67.73	2306.21	-92.65	92.65	146.85	1.95	92.00
2410.00	10.60	63.86	2394.84	-99.07	99.07	161.05	1.58	90.00
2501.00	10.79	62.25	2484.26	-106.73	106.73	176.10	0.39	91.00
2591.00	10.10	65.62	2572.77	-113.91	113.91	190.75	1.02	90.00
2682.00	9.96	62.47	2662.38	-120.84	120.84	205.00	0.62	91.00
2773.00	10.42	59.63	2751.95	-128.64	128.64	219.08	0.75	91.00
2867.00	11.05	56.42	2844.30	-137.92	137.92	233.92	0.92	94.00
2962.00	11.76	58.53	2937.42	-148.01	148.01	249.76	0.87	95.00
3056.00	10.11	56.96	3029.71	-157.51	157.51	264.85	1.79	94.00
3151.00	11.07	62.10	3123.10	-166.32	166.32	279.90	1.41	95.00
3245.00	11.42	61.16	3215.29	-175.04	175.04	296.03	0.43	94.00

Survey Report

Well Name: DOVE 8C-13HZ
Survey: DOVE 8C-13HZ
Survey Date: 6/6/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Course Length ft
3340.00	10.50	59.13	3308.56	-184.02	184.02	311.70	1.05	95.00
3434.00	9.93	57.54	3401.07	-192.76	192.76	325.89	0.68	94.00
3529.00	9.55	59.13	3494.70	-201.20	201.20	339.57	0.49	95.00
3623.00	8.90	57.36	3587.48	-209.13	209.13	352.38	0.75	94.00
3718.00	9.16	63.49	3681.31	-216.47	216.47	365.34	1.05	95.00
3812.00	9.69	60.36	3774.04	-223.72	223.72	378.91	0.78	94.00
3907.00	9.95	63.81	3867.65	-231.29	231.29	393.22	0.68	95.00
4001.00	9.95	64.35	3960.23	-238.39	238.39	407.83	0.10	94.00
4096.00	10.37	59.21	4053.75	-246.32	246.32	422.58	1.05	95.00
4190.00	11.21	61.32	4146.08	-255.04	255.04	437.86	0.98	94.00
4285.00	10.77	54.70	4239.34	-264.60	264.60	453.21	1.41	95.00
4379.00	8.97	49.51	4331.95	-274.44	274.44	465.95	2.13	94.00
4474.00	8.32	41.30	4425.87	-284.41	284.41	476.12	1.47	95.00
4568.00	8.44	42.12	4518.87	-294.64	294.64	485.24	0.19	94.00
4663.00	6.93	49.15	4613.02	-303.56	303.56	494.26	1.87	95.00
4757.00	6.21	53.74	4706.40	-310.28	310.28	502.65	0.95	94.00
4852.00	5.07	58.48	4800.94	-315.52	315.52	510.38	1.30	95.00
4946.00	3.64	57.88	4894.66	-319.28	319.28	516.45	1.52	94.00
5041.00	1.51	87.32	4989.56	-320.95	320.95	520.26	2.57	95.00
5135.00	0.50	20.60	5083.55	-321.39	321.39	521.64	1.48	94.00
5230.00	1.08	3.54	5178.54	-322.68	322.68	521.84	0.65	95.00
5324.00	0.40	177.00	5272.54	-323.23	323.23	521.92	1.58	94.00
5419.00	0.62	189.57	5367.53	-322.39	322.39	521.85	0.25	95.00
5513.00	0.27	73.69	5461.53	-321.96	321.96	521.98	0.82	94.00
5608.00	0.54	107.49	5556.53	-321.89	321.89	522.62	0.37	95.00
5702.00	0.69	166.40	5650.52	-321.21	321.21	523.17	0.66	94.00
5797.00	0.11	237.97	5745.52	-320.61	320.61	523.23	0.70	95.00
5892.00	0.68	216.75	5840.52	-320.11	320.11	522.82	0.61	95.00
5986.00	0.94	171.15	5934.51	-318.90	318.90	522.60	0.72	94.00
6081.00	1.75	171.64	6029.48	-316.69	316.69	522.94	0.85	95.00
6176.00	1.54	170.70	6124.44	-314.00	314.00	523.35	0.23	95.00
6270.00	1.88	140.19	6218.40	-311.57	311.57	524.54	1.02	94.00
6365.00	0.36	284.36	6313.39	-310.44	310.44	525.26	2.30	95.00
6459.00	1.36	161.51	6407.38	-309.46	309.46	525.33	1.68	94.00
6554.00	1.84	154.11	6502.34	-307.01	307.01	526.35	0.55	95.00
6648.00	0.94	154.36	6596.31	-304.96	304.96	527.35	0.96	94.00
6743.00	0.29	126.85	6691.31	-304.11	304.11	527.87	0.74	95.00

Survey Report

Well Name: DOVE 8C-13HZ
Survey: DOVE 8C-13HZ
Survey Date: 6/6/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Course Length ft
6798.00	0.22	68.38	6746.31	-304.07	304.07	528.08	0.46	55.00
6838.00	0.15	133.56	6786.31	-304.06	304.06	528.19	0.53	40.00
6870.00	3.10	200.43	6818.29	-303.22	303.22	527.92	9.52	32.00
6901.00	6.01	197.81	6849.19	-300.89	300.89	527.13	9.39	31.00
6933.00	8.61	197.73	6880.93	-297.01	297.01	525.89	8.15	32.00
6964.00	10.43	191.28	6911.50	-292.05	292.05	524.64	6.79	31.00
6996.00	12.36	181.59	6942.87	-285.78	285.78	523.97	8.46	32.00
7027.00	15.79	174.12	6972.94	-278.27	278.27	524.31	12.50	31.00
7059.00	18.31	171.94	7003.53	-268.96	268.96	525.46	8.12	32.00
7090.00	21.22	167.66	7032.70	-258.66	258.66	527.35	10.49	31.00
7122.00	24.42	168.04	7062.20	-246.53	246.53	529.95	10.00	32.00
7153.00	27.82	169.36	7090.03	-233.15	233.15	532.62	11.14	31.00
7185.00	31.66	171.99	7117.81	-217.48	217.48	535.17	12.66	32.00
7216.00	36.17	174.94	7143.53	-200.31	200.31	537.11	15.49	31.00
7248.00	41.69	177.73	7168.41	-180.25	180.25	538.36	18.09	32.00
7280.00	46.20	178.16	7191.45	-158.07	158.07	539.16	14.13	32.00
7311.00	47.98	178.35	7212.56	-135.37	135.37	539.85	5.77	31.00
7343.00	47.07	178.24	7234.17	-111.78	111.78	540.55	2.87	32.00
7374.00	48.96	178.81	7254.90	-88.75	88.75	541.15	6.26	31.00
7406.00	50.46	179.72	7275.59	-64.34	64.34	541.46	5.17	32.00
7437.00	52.93	181.06	7294.81	-40.02	40.02	541.29	8.64	31.00
7469.00	55.47	181.42	7313.53	-14.07	14.07	540.72	8.01	32.00
7500.00	59.37	181.49	7330.21	12.04	-12.04	540.06	12.59	31.00
7532.00	61.66	180.34	7345.96	39.88	-39.88	539.62	7.78	32.00
7563.00	66.88	178.73	7359.42	67.80	-67.80	539.86	17.49	31.00
7595.00	72.37	179.26	7370.56	97.78	-97.78	540.38	17.24	32.00
7626.00	75.83	180.88	7379.05	127.59	-127.59	540.34	12.22	31.00
7658.00	79.06	180.98	7386.00	158.82	-158.82	539.83	10.12	32.00
7689.00	81.43	181.32	7391.25	189.36	-189.36	539.22	7.70	31.00
7701.00	83.60	181.13	7392.82	201.25	-201.25	538.97	18.17	12.00
7784.00	92.82	181.75	7395.41	284.10	-284.10	536.88	11.13	83.00
7875.00	91.24	181.16	7392.18	375.01	-375.01	534.57	1.85	91.00
7966.00	91.18	179.93	7390.26	465.98	-465.98	533.71	1.36	91.00
8057.00	91.11	179.54	7388.45	556.96	-556.96	534.13	0.43	91.00
8148.00	91.65	178.40	7386.26	647.92	-647.92	535.76	1.39	91.00
8239.00	91.69	179.91	7383.62	738.87	-738.87	537.10	1.65	91.00

Survey Report

Well Name: DOVE 8C-13HZ
Survey: DOVE 8C-13HZ
Survey Date: 6/6/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Course Length ft
8330.00	90.67	181.47	7381.75	829.84	-829.84	536.01	2.05	91.00
8421.00	90.94	181.41	7380.46	920.80	-920.80	533.72	0.30	91.00
8512.00	89.19	181.43	7380.36	1011.77	-1011.77	531.46	1.92	91.00
8603.00	89.23	180.92	7381.61	1102.74	-1102.74	529.59	0.57	91.00
8695.00	89.80	182.69	7382.39	1194.69	-1194.69	526.70	2.02	92.00
8785.00	89.06	181.03	7383.28	1284.63	-1284.63	523.78	2.01	90.00
8876.00	90.47	181.66	7383.66	1375.60	-1375.60	521.64	1.69	91.00
8966.00	89.83	180.95	7383.42	1465.58	-1465.58	519.60	1.06	90.00
9057.00	89.93	180.67	7383.60	1556.57	-1556.57	518.31	0.32	91.00
9148.00	89.90	180.06	7383.74	1647.57	-1647.57	517.73	0.67	91.00
9242.00	88.93	177.49	7384.70	1741.53	-1741.53	519.73	2.93	94.00
9336.00	89.53	179.15	7385.97	1835.48	-1835.48	522.49	1.88	94.00
9431.00	89.90	180.18	7386.44	1930.48	-1930.48	523.04	1.15	95.00
9525.00	89.63	178.48	7386.83	2024.46	-2024.46	524.13	1.83	94.00
9620.00	89.16	179.32	7387.83	2119.44	-2119.44	525.95	1.01	95.00
9715.00	90.87	180.20	7387.80	2214.44	-2214.44	526.34	2.03	95.00
9809.00	89.63	180.39	7387.39	2308.43	-2308.43	525.86	1.34	94.00
9904.00	90.50	181.36	7387.28	2403.42	-2403.42	524.41	1.38	95.00
9998.00	90.27	180.16	7386.65	2497.41	-2497.41	523.16	1.31	94.00
10092.00	90.03	181.96	7386.40	2591.39	-2591.39	521.42	1.93	94.00
10187.00	90.23	181.32	7386.18	2686.35	-2686.35	518.71	0.71	95.00
10281.00	90.30	181.17	7385.74	2780.32	-2780.32	516.67	0.18	94.00
10376.00	90.64	179.60	7384.96	2875.31	-2875.31	516.04	1.69	95.00
10470.00	89.97	180.59	7384.46	2969.31	-2969.31	515.89	1.28	94.00
10565.00	89.97	179.43	7384.52	3064.31	-3064.31	515.86	1.22	95.00
10659.00	89.13	180.62	7385.26	3158.30	-3158.30	515.81	1.55	94.00
10754.00	89.03	179.52	7386.79	3253.29	-3253.29	515.70	1.17	95.00
10849.00	89.90	180.96	7387.68	3348.28	-3348.28	515.30	1.77	95.00
10943.00	90.87	181.46	7387.05	3442.26	-3442.26	513.32	1.17	94.00
11038.00	90.64	179.69	7385.80	3537.24	-3537.24	512.36	1.88	95.00
11132.00	90.44	180.24	7384.92	3631.24	-3631.24	512.42	0.62	94.00
11226.00	90.07	178.11	7384.51	3725.22	-3725.22	513.77	2.29	94.00
11321.00	91.07	179.70	7383.56	3820.19	-3820.19	515.59	1.97	95.00
11416.00	88.32	179.37	7384.07	3915.18	-3915.18	516.36	2.92	95.00
11510.00	88.99	179.48	7386.27	4009.15	-4009.15	517.30	0.73	94.00
11605.00	90.24	179.87	7386.91	4104.14	-4104.14	517.84	1.37	95.00
11699.00	90.91	180.52	7385.97	4198.14	-4198.14	517.52	0.99	94.00

Survey Report

Well Name: DOVE 8C-13HZ
Survey: DOVE 8C-13HZ
Survey Date: 6/6/2013

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS 7100ft	Course Length ft
11793.00	89.90	180.83	7385.31	4292.13	-4292.13	516.41	1.12	94.00
11888.00	89.80	180.42	7385.56	4387.12	-4387.12	515.37	0.45	95.00
11982.00	89.70	180.09	7385.98	4481.12	-4481.12	514.95	0.36	94.00
12077.00	90.03	179.88	7386.20	4576.12	-4576.12	514.97	0.42	95.00
12172.00	89.56	179.02	7386.53	4671.11	-4671.11	515.89	1.03	95.00
12266.00	90.57	179.64	7386.42	4765.10	-4765.10	516.99	1.26	94.00
12361.00	91.04	181.90	7385.09	4860.08	-4860.08	515.71	2.44	95.00
12456.00	91.34	181.81	7383.11	4955.01	-4955.01	512.63	0.33	95.00
12550.00	90.13	179.85	7381.90	5048.98	-5048.98	511.27	2.45	94.00
12645.00	89.06	178.48	7382.57	5143.97	-5143.97	512.66	1.83	95.00
12739.00	89.40	180.09	7383.83	5237.95	-5237.95	513.84	1.75	94.00
12834.00	89.40	179.13	7384.83	5332.94	-5332.94	514.49	1.01	95.00
12929.00	89.40	179.06	7385.83	5427.92	-5427.92	515.99	0.07	95.00
13023.00	90.00	180.32	7386.33	5521.92	-5521.92	516.51	1.49	94.00
13118.00	90.24	179.94	7386.13	5616.92	-5616.92	516.29	0.47	95.00
13212.00	90.27	179.59	7385.72	5710.92	-5710.92	516.69	0.38	94.00
13307.00	90.67	178.62	7384.94	5805.90	-5805.90	518.17	1.10	95.00
13402.00	89.70	179.06	7384.64	5900.88	-5900.88	520.09	1.13	95.00
13496.00	87.92	178.69	7386.59	5994.84	-5994.84	521.93	1.94	94.00
13591.00	88.32	178.84	7389.71	6089.76	-6089.76	523.98	0.46	95.00
13685.00	89.83	180.30	7391.22	6183.74	-6183.74	524.68	2.23	94.00
13780.00	90.20	181.17	7391.19	6278.73	-6278.73	523.47	0.99	95.00
13875.00	90.50	180.28	7390.61	6373.72	-6373.72	522.27	0.99	95.00
13969.00	90.60	179.67	7389.70	6467.72	-6467.72	522.32	0.65	94.00
14064.00	88.32	181.73	7390.59	6562.70	-6562.70	521.15	3.24	95.00
14158.00	88.56	180.62	7393.15	6656.64	-6656.64	519.22	1.21	94.00
14253.00	90.23	181.37	7394.15	6751.62	-6751.62	517.57	1.93	95.00
14348.00	90.50	181.54	7393.54	6846.58	-6846.58	515.16	0.34	95.00
14442.00	90.74	180.37	7392.52	6940.56	-6940.56	513.60	1.27	94.00
14482.00	90.47	179.75	7392.10	6980.56	-6980.56	513.56	1.67	40.00