

5" = 100' FEET MD

COMPANY : BILL BARRET CORP.  
 WELL : ANSCHUTZ STATE 5-62-22-1609C2  
 FIELD : WATTENBERG  
 COUNTY : WELD  
 STATE : COLORADO  
 COUNTRY : U.S.A.  
 UWI : 05-123-41754

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WELL LOCATION  
 LAT:40°23'13.560"N LONG:104°19'5.452"W  
 N:1386054.72 Ft E:3329201.72 Ft  
 SEC:22 TWP:5N RANGE:62W  
 OTHER SERVICES  
 DIRECTIONAL  
 ROP

DEPTH REF. : RKB  
 REF. HEIGHT : 16.000 Ft  
 GROUND LEVEL : 4719.000 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
8.75			0 - 13	823	6001
6.125			0 - 87	6001	6815
			87 - 93	6815	XXX
CASING RECORD					
CASING SIZE in	FROM Ft	TO Ft			
9.625	0	823			
7	0	6798			

DRILLING CO. : CADDE  
 RIG : 24  
 LMD UNIT NO. : MWD-00267-DISTRICT : CASPER  
 SPUD DATE : 09/21/2015  
 LMD START DATE : 09/23/15  
 LMD END DATE :  
 DEPTH : 4000 Ft  
 DEPTH :  
 TOTAL DEPTH :

Run Data			
RUN NUMBER	1	2	3
START DATE	09/23/2015	09/24/2015	09/25/2015
START TIME	0500	1100	1930
END DATE	09/24/2015	09/25/2015	XX
END TIME	1100	0400	XX
DEPTH IN (ft)	823	6001	6815
DEPTH OUT (ft)	6001	6815	XXX
LOG TOP (ft)	4000	5944	6759
LOG BOTTOM (ft)	5944	6759	XXX
HOLE SIZE (in)	8.75	8.75	6.125
MUD DATA @ (ft)	1034	6001	15293
MUD TYPE	WATER-BASED	WATER-BASED	WATER-BASED
DENSITY (lb / gal)	8.5	9.7	9.2
VISCOSITY (s / qt)	28	36	32
pH	12.3	8.4	8.5
FLUID LOSS (cm3 / 30)	-	-	-
SALINITY (ppm)	-	-	-
Rm (ohmm @ deg F)	-	-	-
Rmf (ohmm @ deg F)	-	-	-
MAX TEMP (deg F)	165	168	XXX
Rm @ MAX TEMP (ohmm)	-	-	-
LWD ENGINEER #1	C. CHRISTMAN	C. CHRISTMAN	C. CHRISTMAN
LWD ENGINEER #2	Z. BROWN	Z. BROWN	Z. BROWN
LWD ENGINEER #3	-	-	-
LOG WITNESS #1	T. BARNES	T. BARNES	T. BARNES
LOG WITNESS #2	K. KNIGHT	K. KNIGHT	K. KNIGHT



All interpretations are 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.

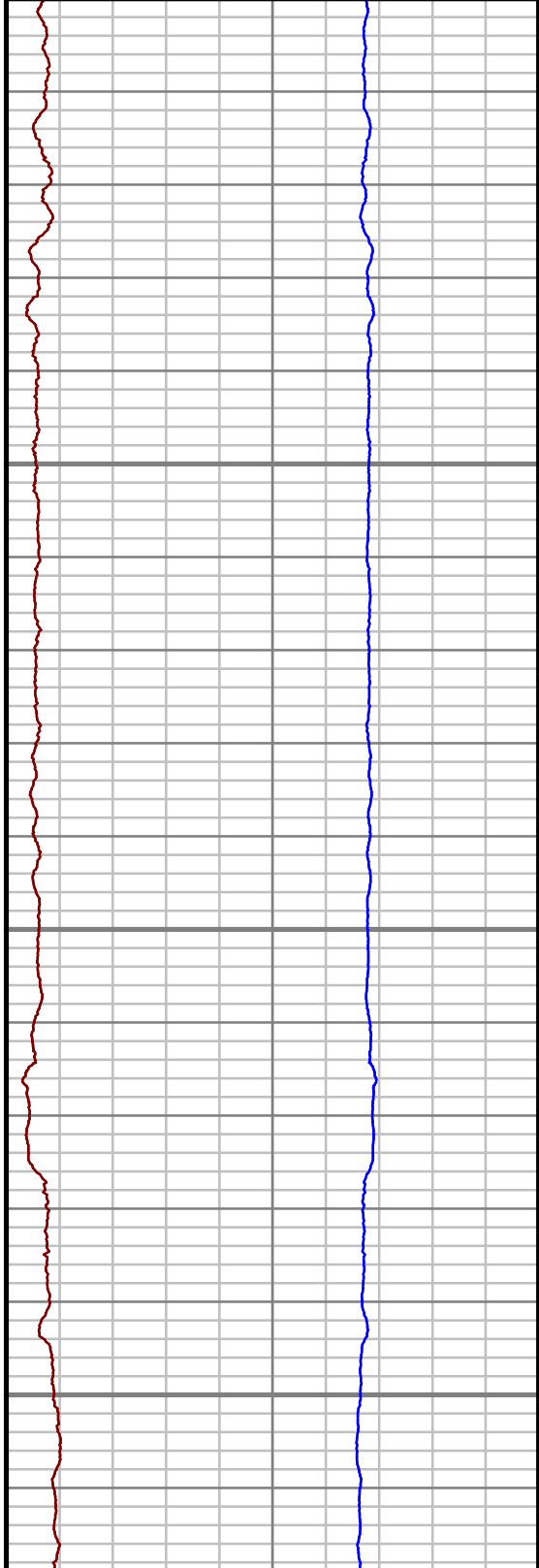
BILL BARRETT CORP.  
 ANSCHUTZ STATE 05-62-22-1609C2  
 WATTENBERG FIELD  
 WELD COUNTY, COLORADO  
 05-123-41754

Gamma Ray (GR)		
0	Unit = aapi	150
Rate of Penetration (ROP)		
0	Unit = ft/hr	1000

MEASURED DEPTH  
 1:240 (ft)

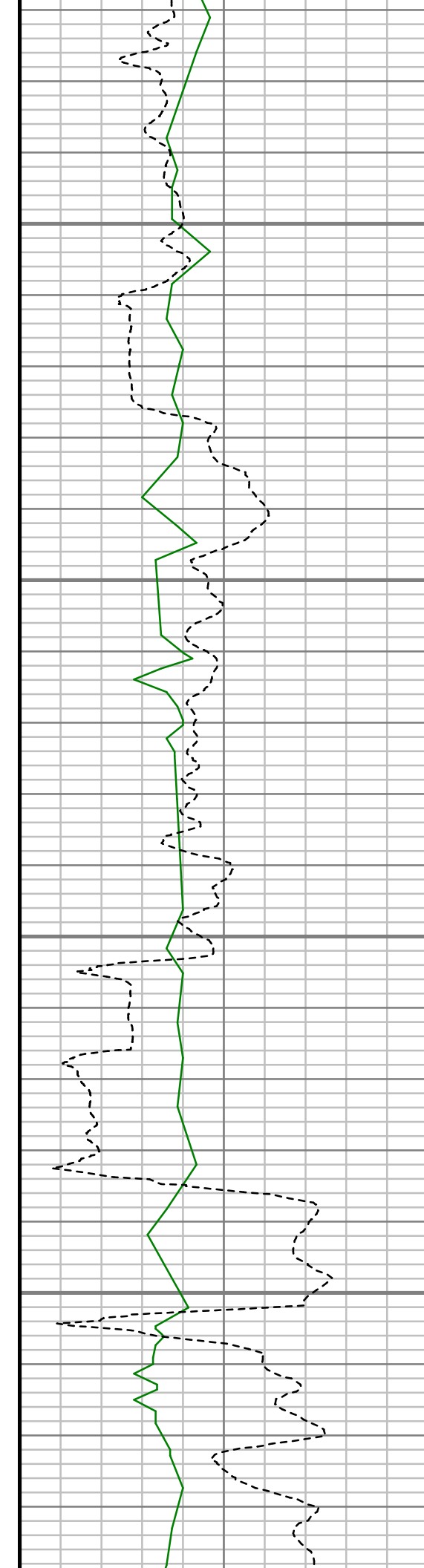
Hookload (max) (HKLX)		
0	Unit = kip	200
Weight-on-Bit (surf,max) (WOBX)		
0	Unit = kip	100

Comments



S: 35 MD: 4051.00 ft Inc: 11.23  
 deg Az: 333.33 deg TVD: 4001.60 ft

S: 36 MD: 4146.00 ft Inc: 10.29  
 deg Az: 334.38 deg TVD: 4094.93 ft

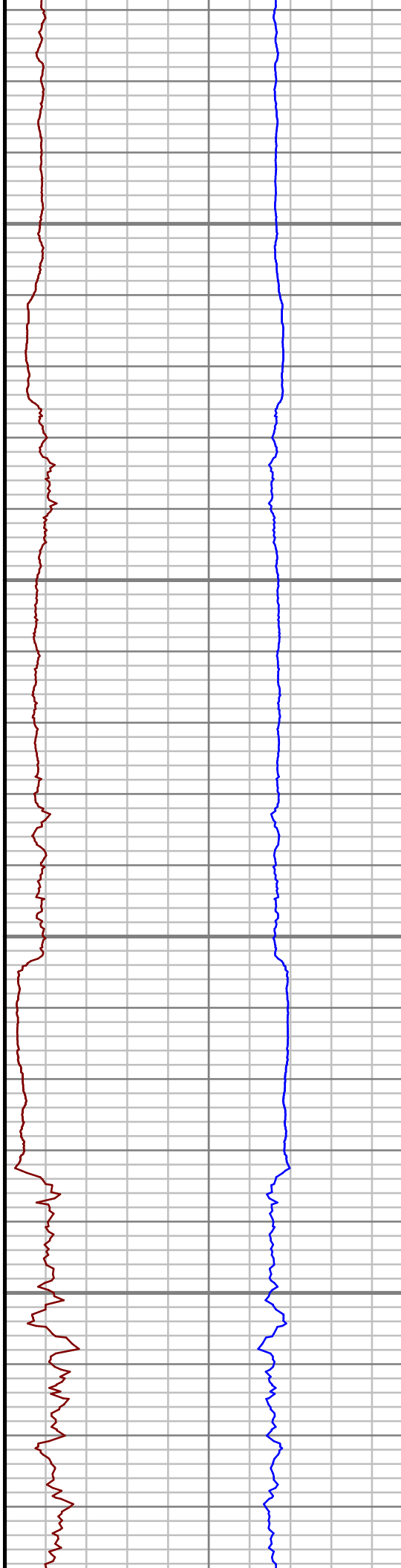


4200

4250

4300

4350



S: 37 MD: 4240.00 ft Inc: 9.44  
deg Az: 333.42 deg TVD:  
4187.54 ft

S: 38 MD: 4335.00 ft Inc: 9.60  
deg Az: 334.48 deg TVD:  
4281.23 ft



4400

4450

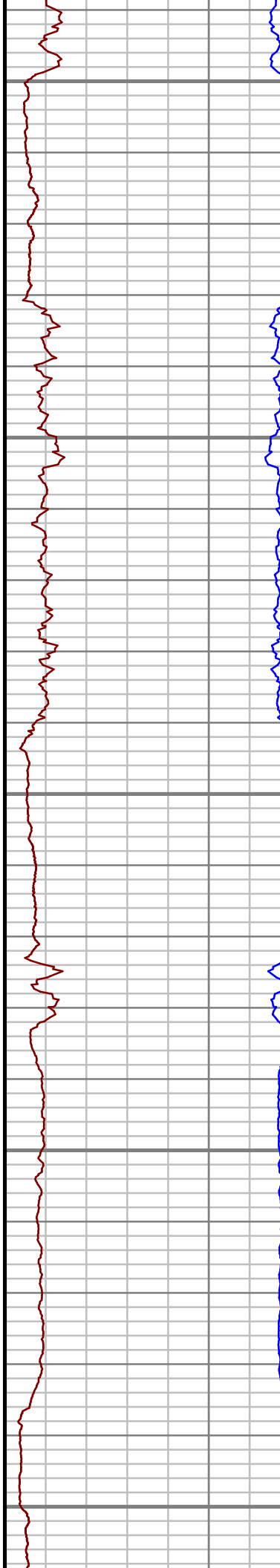
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4550

4600

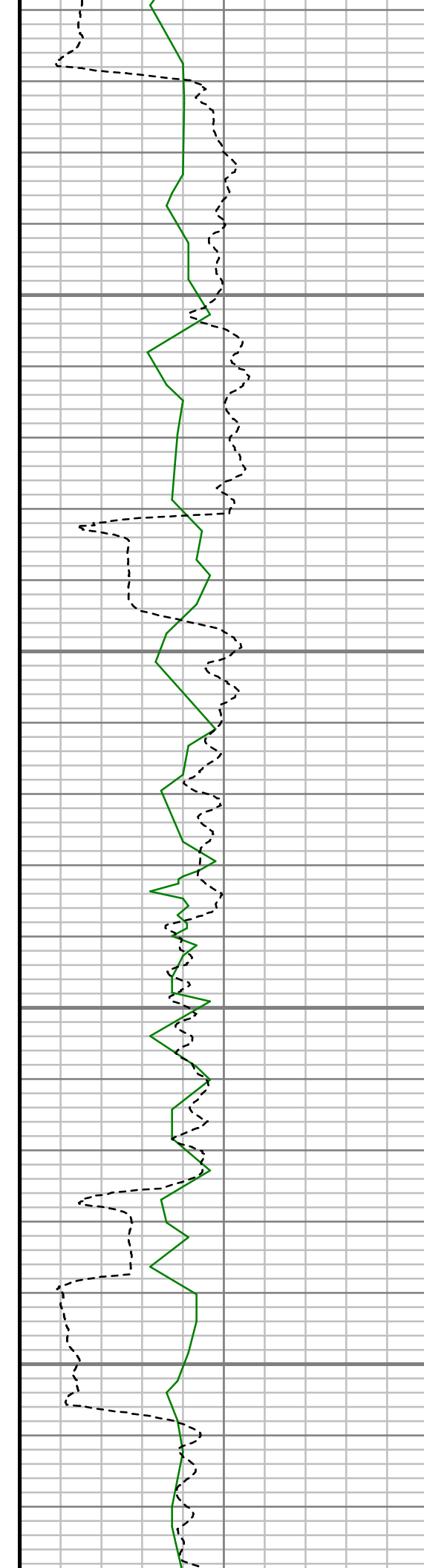
S: 39 MD: 4429.00 ft Inc: 10.08  
deg Az: 336.09 deg TVD:  
4373.85 ft

S: 40 MD: 4523.00 ft Inc: 9.95  
deg Az: 335.23 deg TVD:  
4466.42 ft



S: 39 MD: 4429.00 ft Inc: 10.08  
deg Az: 336.09 deg TVD:  
4373.85 ft

S: 40 MD: 4523.00 ft Inc: 9.95  
deg Az: 335.23 deg TVD:  
4466.42 ft

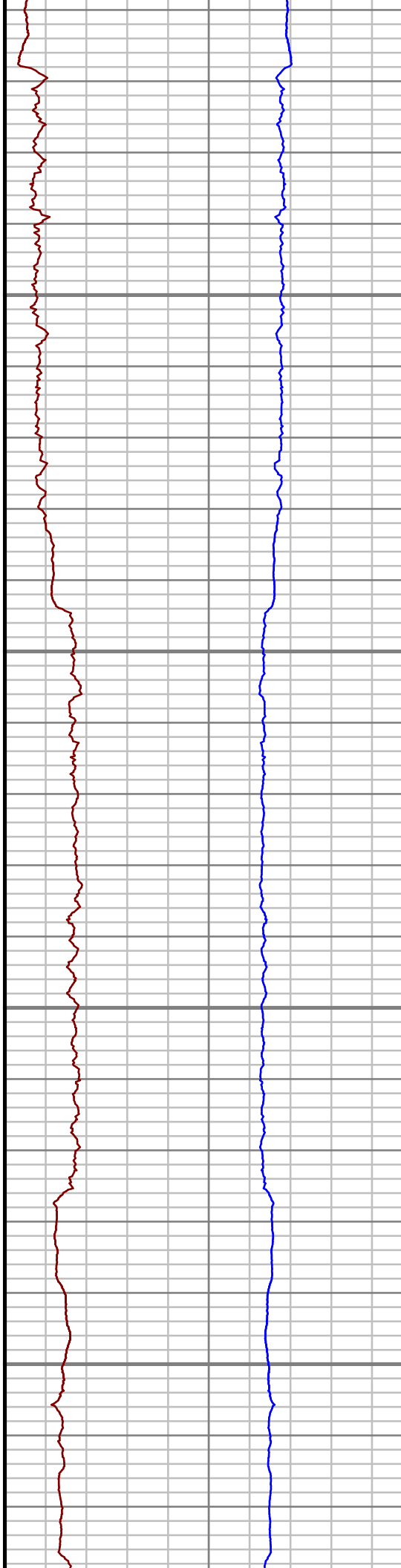


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4700

4750

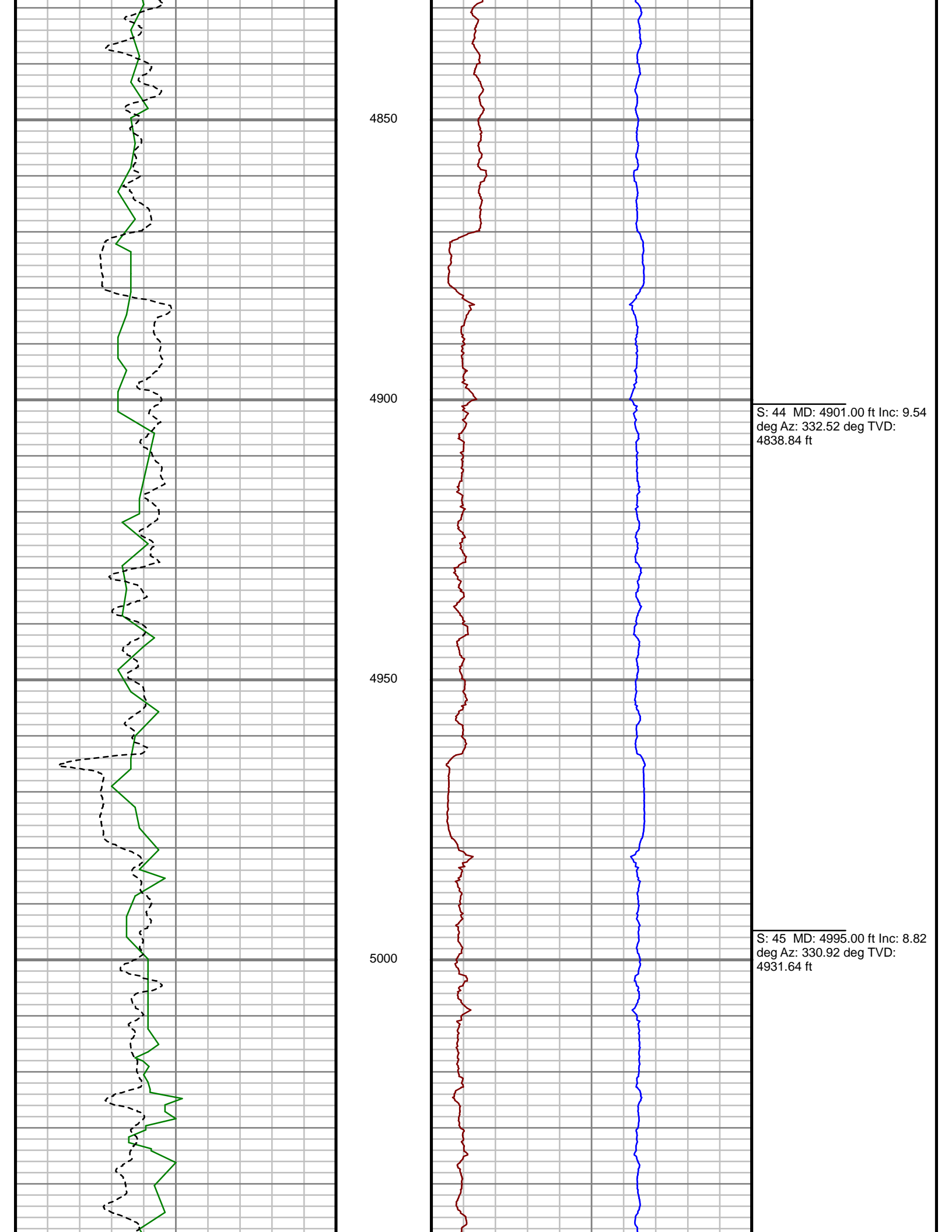
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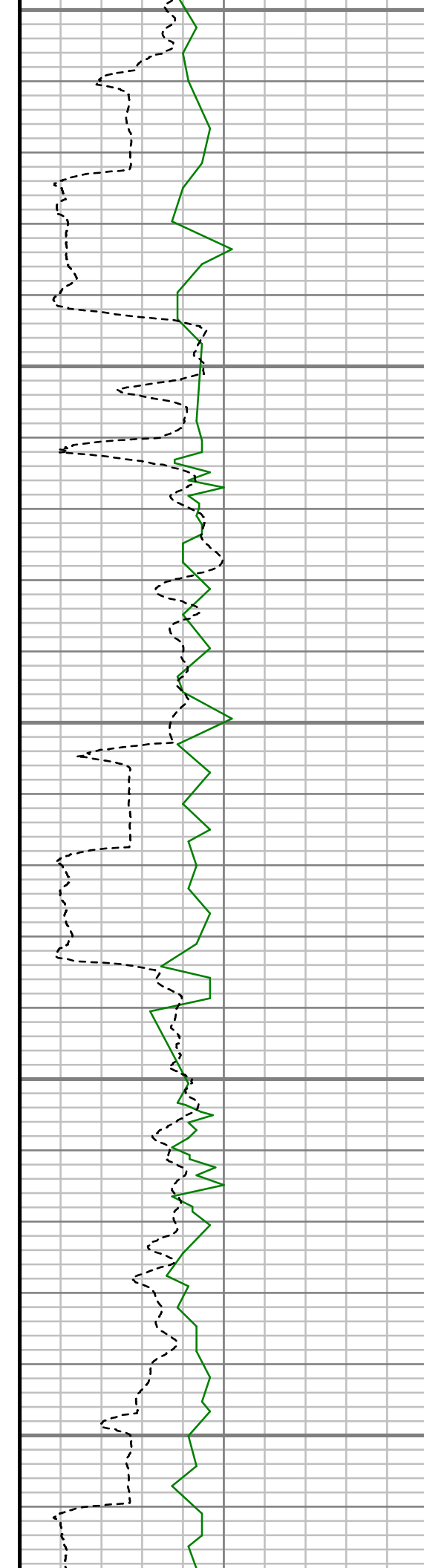


S: 41 MD: 4617.00 ft Inc: 10.29  
deg Az: 334.57 deg TVD:  
4558.95 ft

S: 42 MD: 4711.00 ft Inc: 9.71  
deg Az: 333.12 deg TVD:  
4651.53 ft

S: 43 MD: 4805.00 ft Inc: 9.66  
deg Az: 335.19 deg TVD:  
4744.19 ft





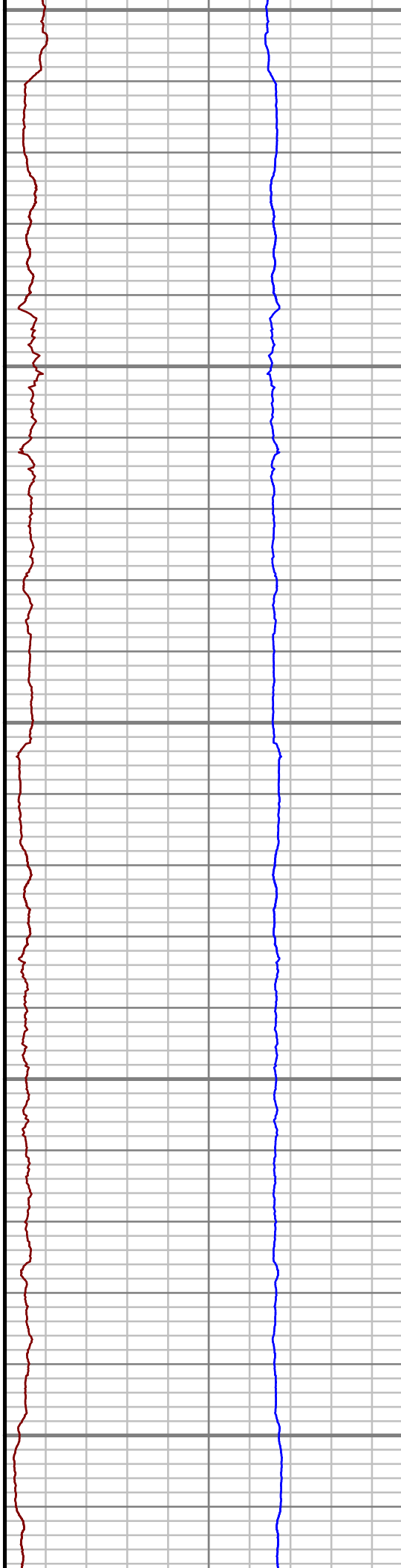
5050

5100

5150

5200

5250



S: 46 MD: 5090.00 ft Inc: 7.64  
deg Az: 336.04 deg TVD:  
5025.66 ft

S: 47 MD: 5184.00 ft Inc: 5.93  
deg Az: 337.29 deg TVD:  
5119.00 ft

S: 48 MD: 5278.00 ft Inc: 4.20  
deg Az: 345.25 deg TVD:  
5212.63 ft

5300

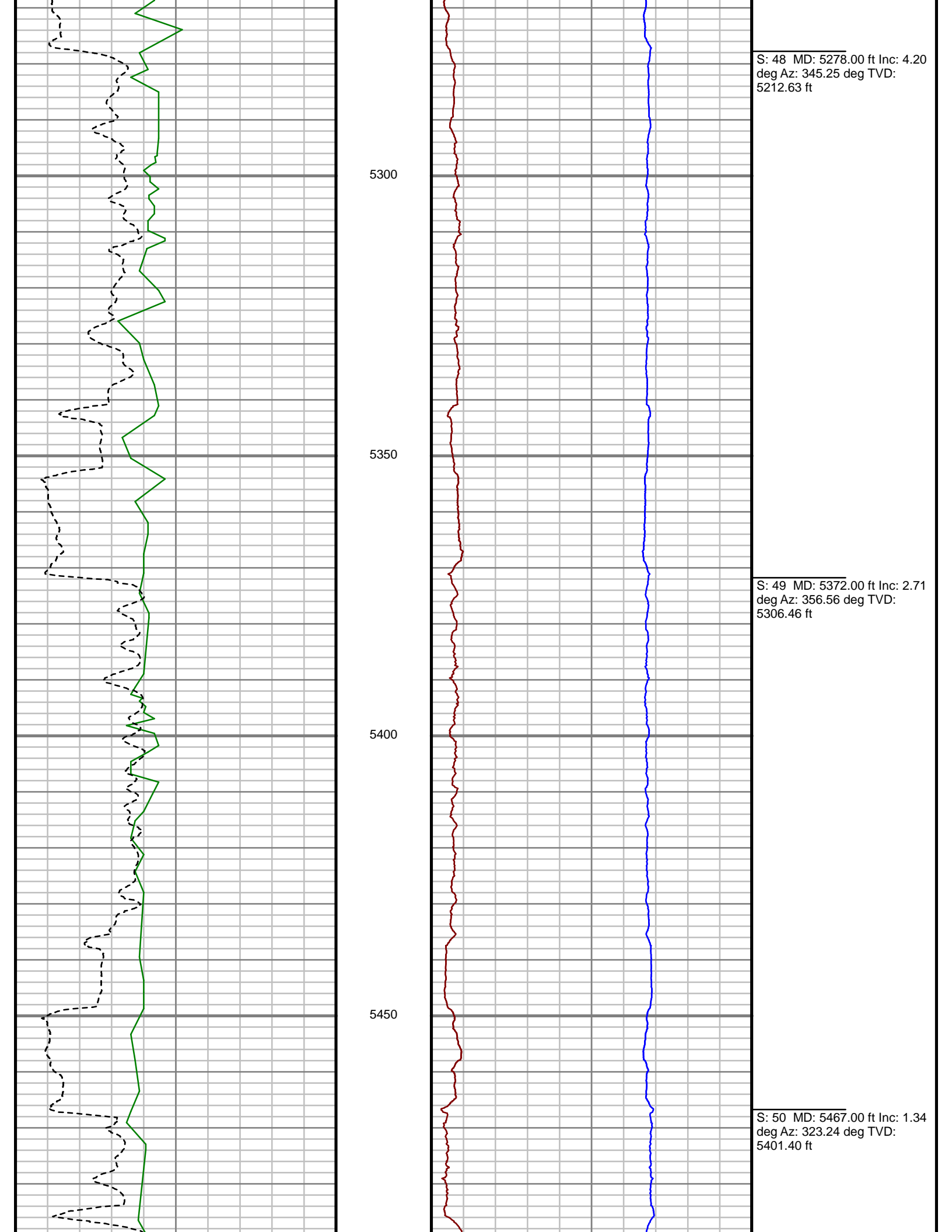
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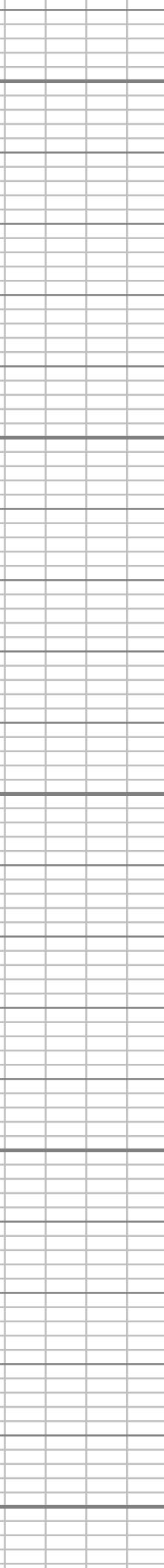
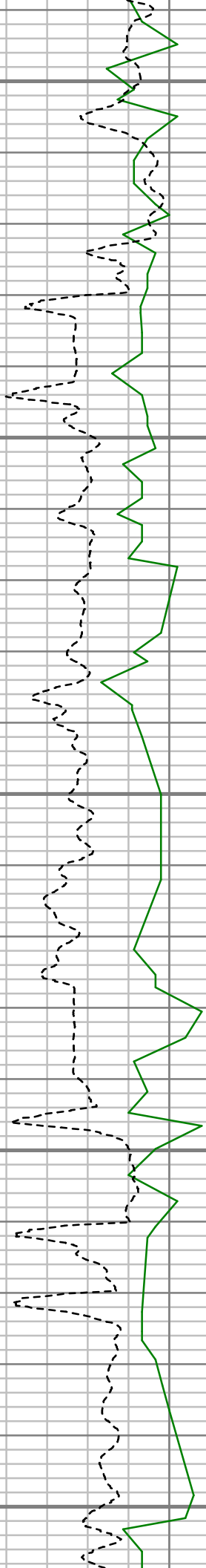
5400

5450

S: 49 MD: 5372.00 ft Inc: 2.71  
deg Az: 356.56 deg TVD:  
5306.46 ft

S: 50 MD: 5467.00 ft Inc: 1.34  
deg Az: 323.24 deg TVD:  
5401.40 ft





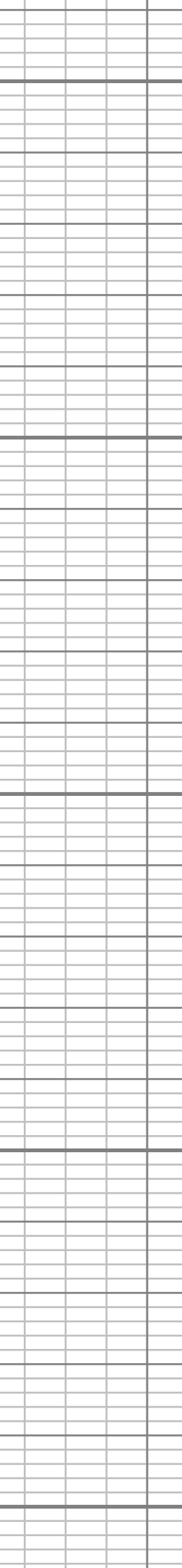
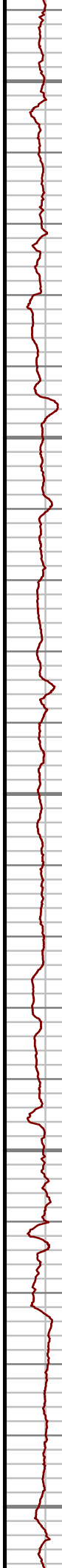
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5550

5600

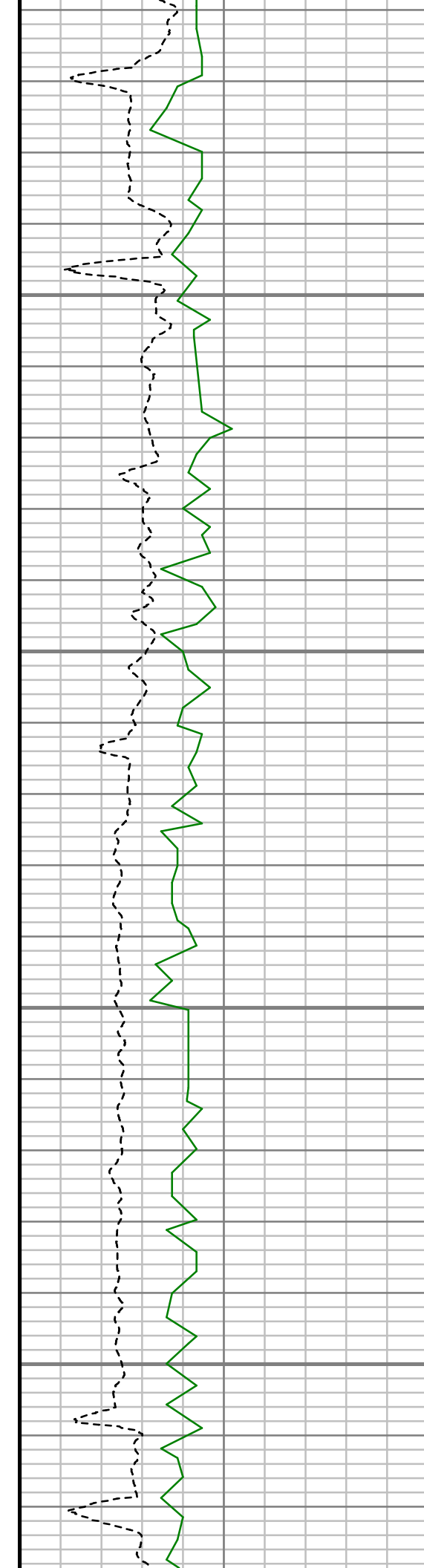
5650

5700



S: 51 MD: 5561.00 ft Inc: 0.74  
deg Az: 316.28 deg TVD:  
5495.38 ft

S: 52 MD: 5655.00 ft Inc: 0.84  
deg Az: 336.79 deg TVD:  
5589.37 ft

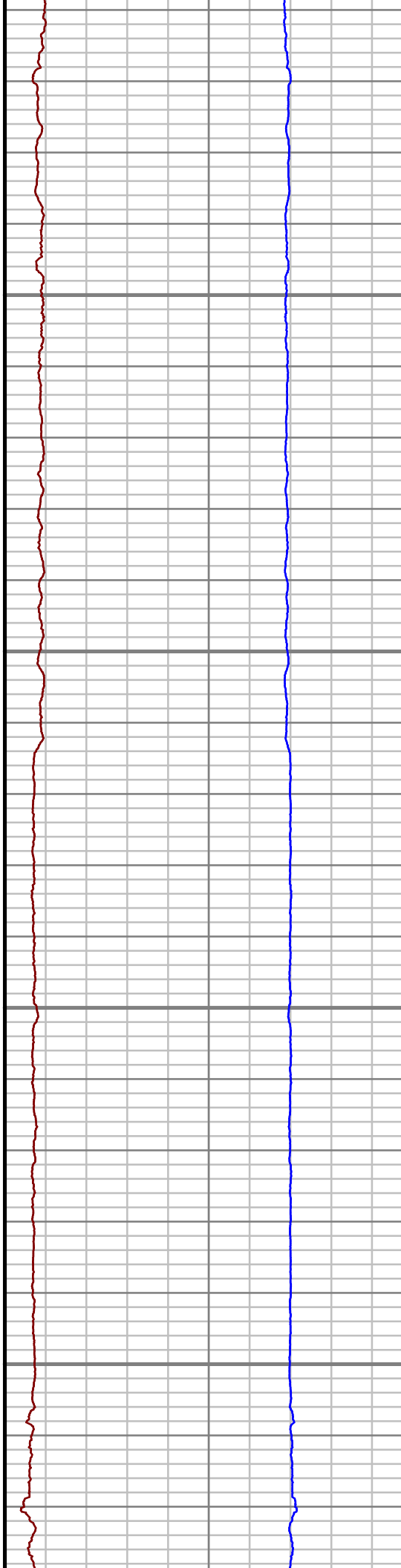


5750

5800

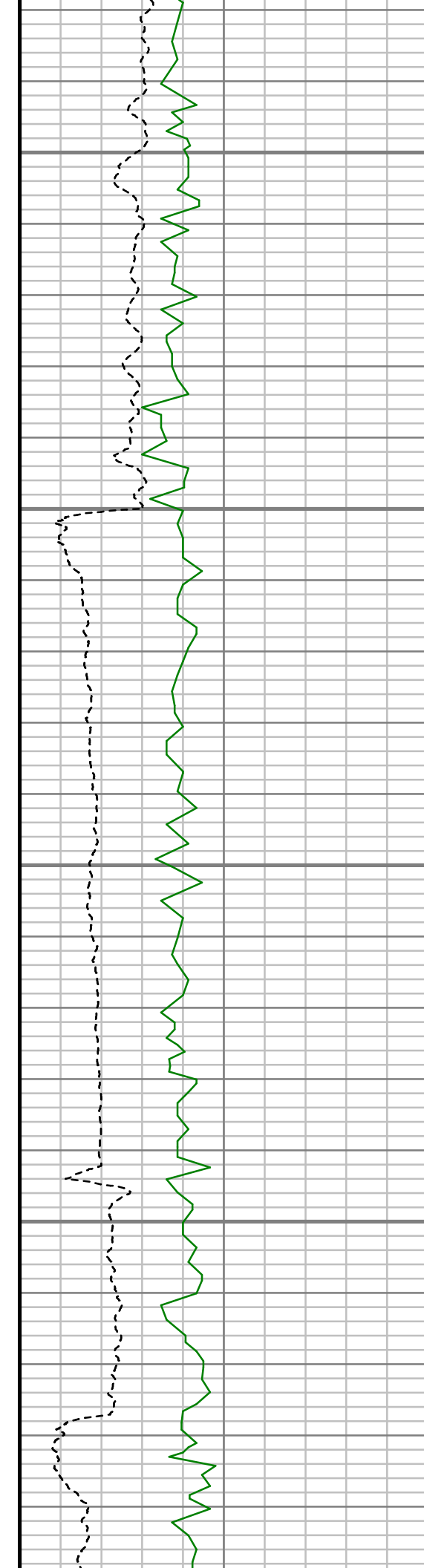
5850

5900



S: 53 MD: 5749.00 ft Inc: 0.33  
deg Az: 343.14 deg TVD:  
5683.37 ft

S: 54 MD: 5843.00 ft Inc: 0.51  
deg Az: 334.46 deg TVD:  
5777.37 ft

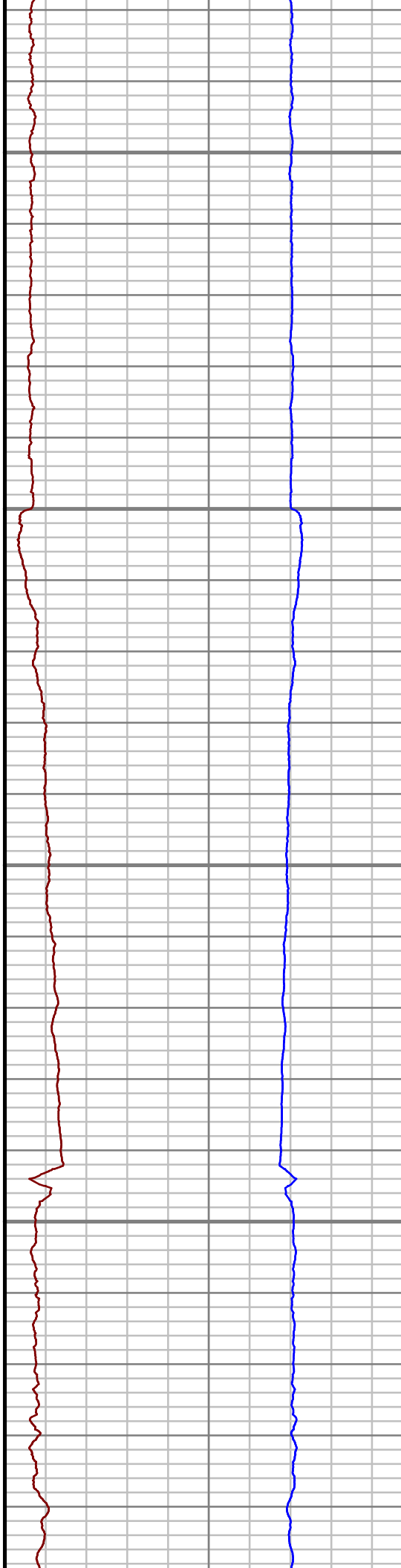


5950

6000

6050

6100



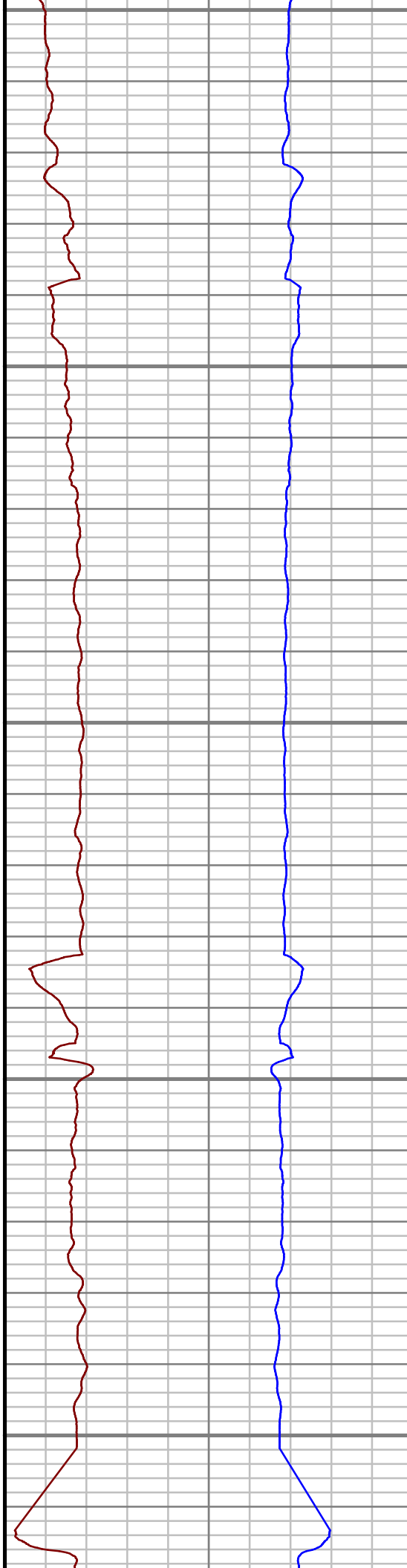
S: 55 MD: 5938.00 ft Inc: 0.61  
deg Az: 0.35 deg TVD: 5872.36  
ft

S: 56 MD: 6032.00 ft Inc: 5.09  
deg Az: 84.91 deg TVD:  
5966.23 ft

S: 57 MD: 6126.00 ft Inc: 12.59  
deg Az: 87.46 deg TVD:  
6059.05 ft

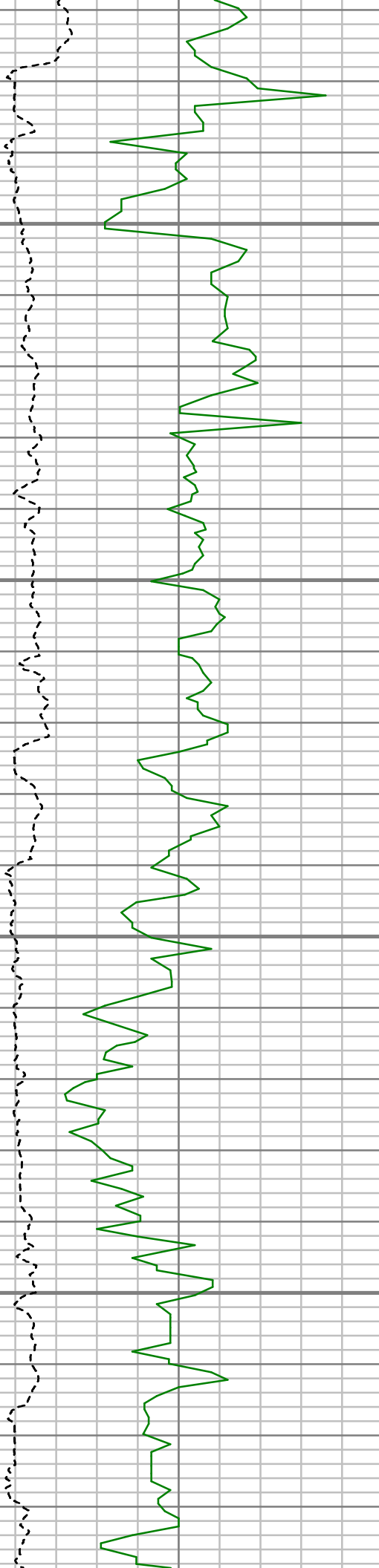


6150  
6200  
6250  
6300  
6350



S: 58 MD: 6221.00 ft Inc: 23.77  
deg Az: 90.99 deg TVD:  
6149.17 ft

S: 59 MD: 6315.00 ft Inc: 37.78  
deg Az: 90.82 deg TVD:  
6229.73 ft



6400

6450

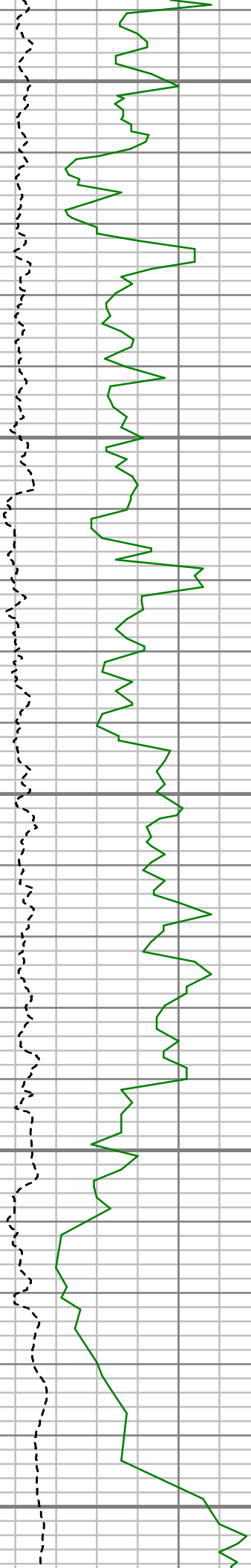
6500

6550



S: 60 MD: 6410.00 ft Inc: 47.17  
deg Az: 94.39 deg TVD:  
6299.73 ft

S: 61 MD: 6504.00 ft Inc: 56.34  
deg Az: 87.46 deg TVD:  
6357.91 ft



6600

6650

6700

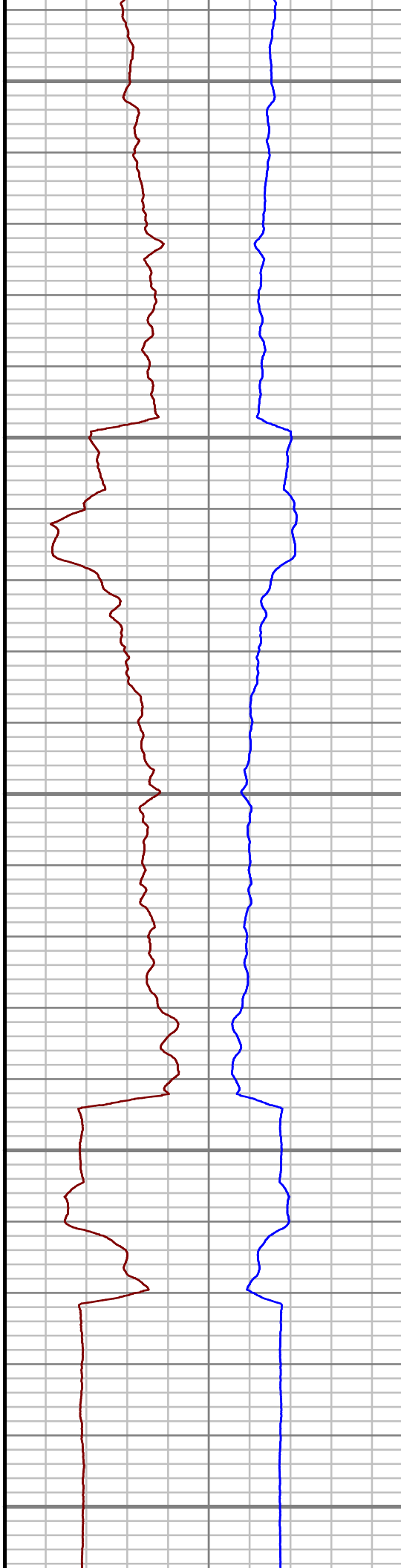
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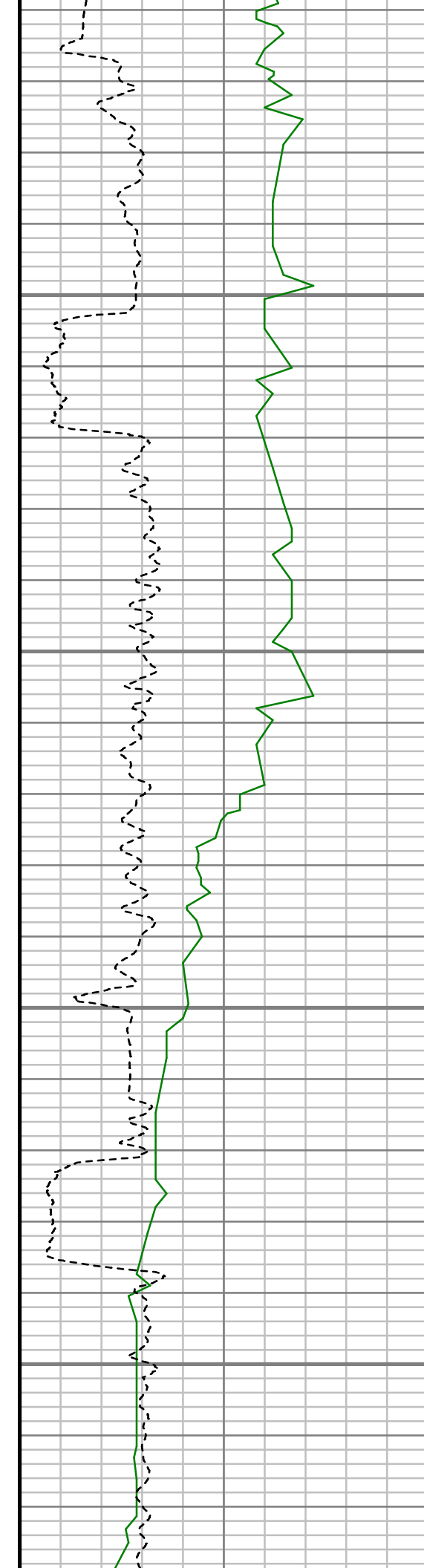
6800

S: 62 MD: 6598.00 ft Inc: 66.98  
deg Az: 85.70 deg TVD:  
6402.46 ft

S: 63 MD: 6692.00 ft Inc: 79.68  
deg Az: 85.84 deg TVD:  
6429.37 ft

S: 64 MD: 6753.00 ft Inc: 87.02  
deg Az: 89.57 deg TVD:  
6436.44 ft



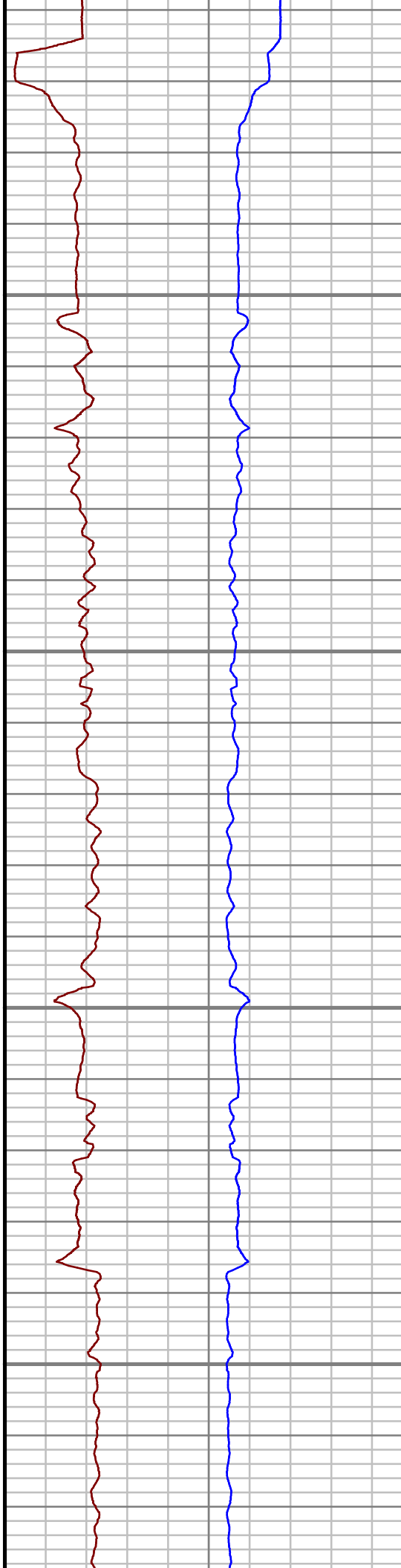


6850

6900

6950

7000



S: 65 MD: 6888.00 ft Inc: 91.71  
deg Az: 91.76 deg TVD:  
6437.94 ft

S: 66 MD: 6983.00 ft Inc: 91.48  
deg Az: 90.22 deg TVD:  
6435.30 ft

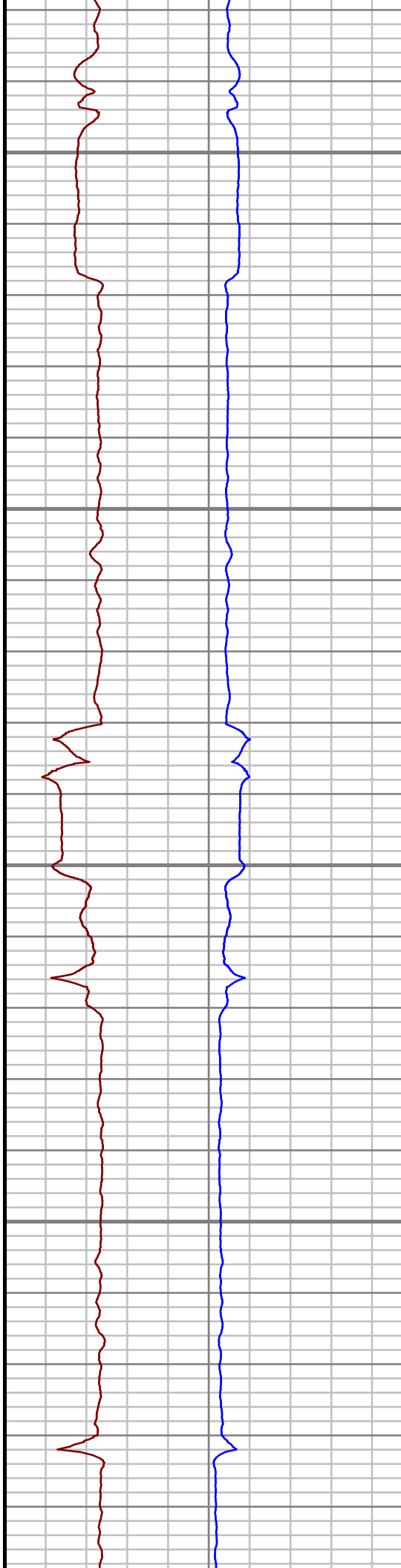


7050

7100

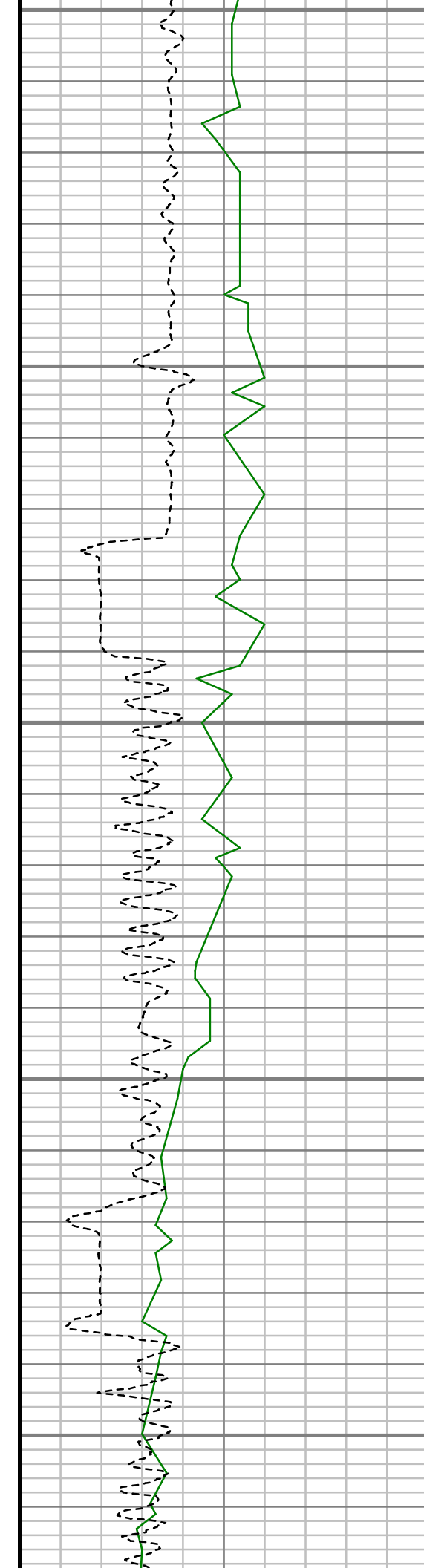
7150

7200



S: 67 MD: 7077.00 ft Inc: 91.95  
deg Az: 90.10 deg TVD:  
6432.49 ft

S: 68 MD: 7171.00 ft Inc: 90.50  
deg Az: 89.69 deg TVD:  
6430.48 ft



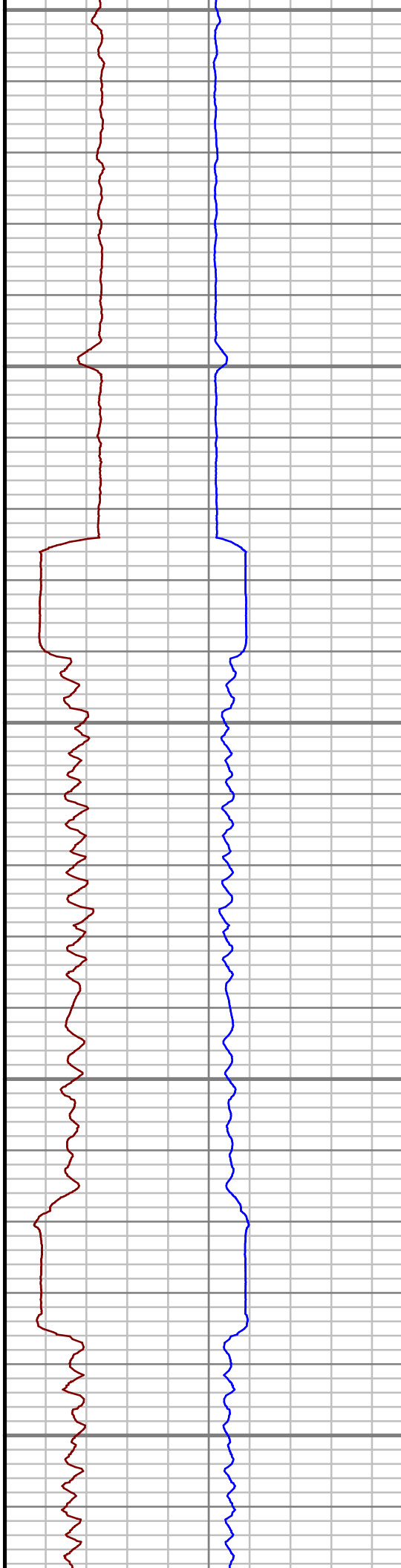
7250

7300

7350

7400

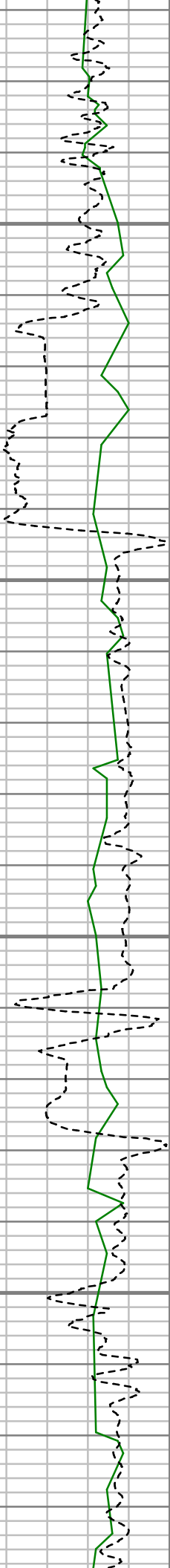
7450



S: 69 MD: 7265.00 ft Inc: 90.74  
deg Az: 89.29 deg TVD:  
6429.46 ft

S: 70 MD: 7360.00 ft Inc: 90.67  
deg Az: 89.36 deg TVD:  
6428.29 ft

S: 71 MD: 7454.00 ft Inc: 91.01  
deg Az: 90.18 deg TVD:  
6426.91 ft

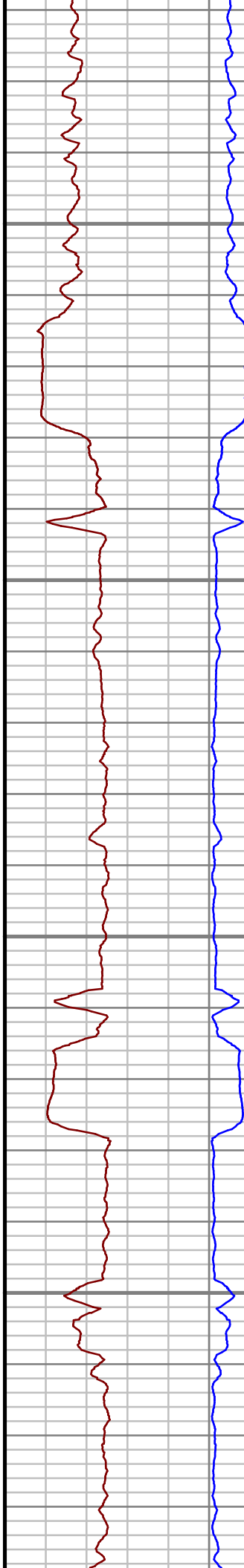


7500

7550

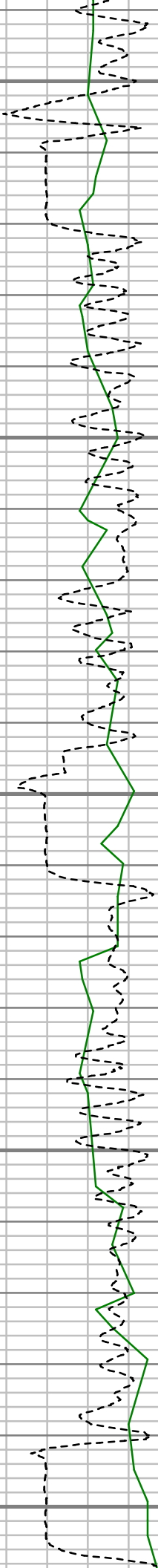
7600

7650



S: 72 MD: 7549.00 ft Inc: 90.50  
deg Az: 89.55 deg TVD:  
6425.66 ft

S: 73 MD: 7643.00 ft Inc: 90.30  
deg Az: 89.56 deg TVD:  
6425.00 ft



7700

7750

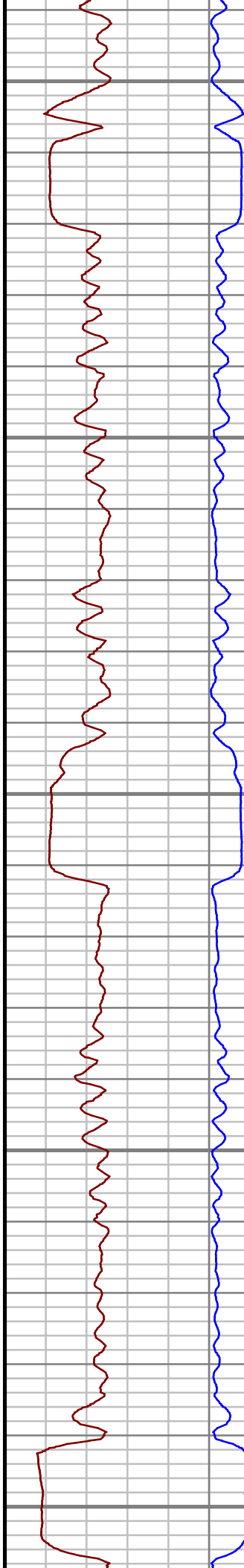
7800

7850

7900

S: 74 MD: 7737.00 ft Inc: 90.34  
deg Az: 89.86 deg TVD:  
6424.48 ft

S: 75 MD: 7832.00 ft Inc: 90.47  
deg Az: 89.61 deg TVD:  
6423.81 ft



S: 76 MD: 7926.00 ft Inc: 91.14  
deg Az: 90.00 deg TVD:  
6422.49 ft

7950

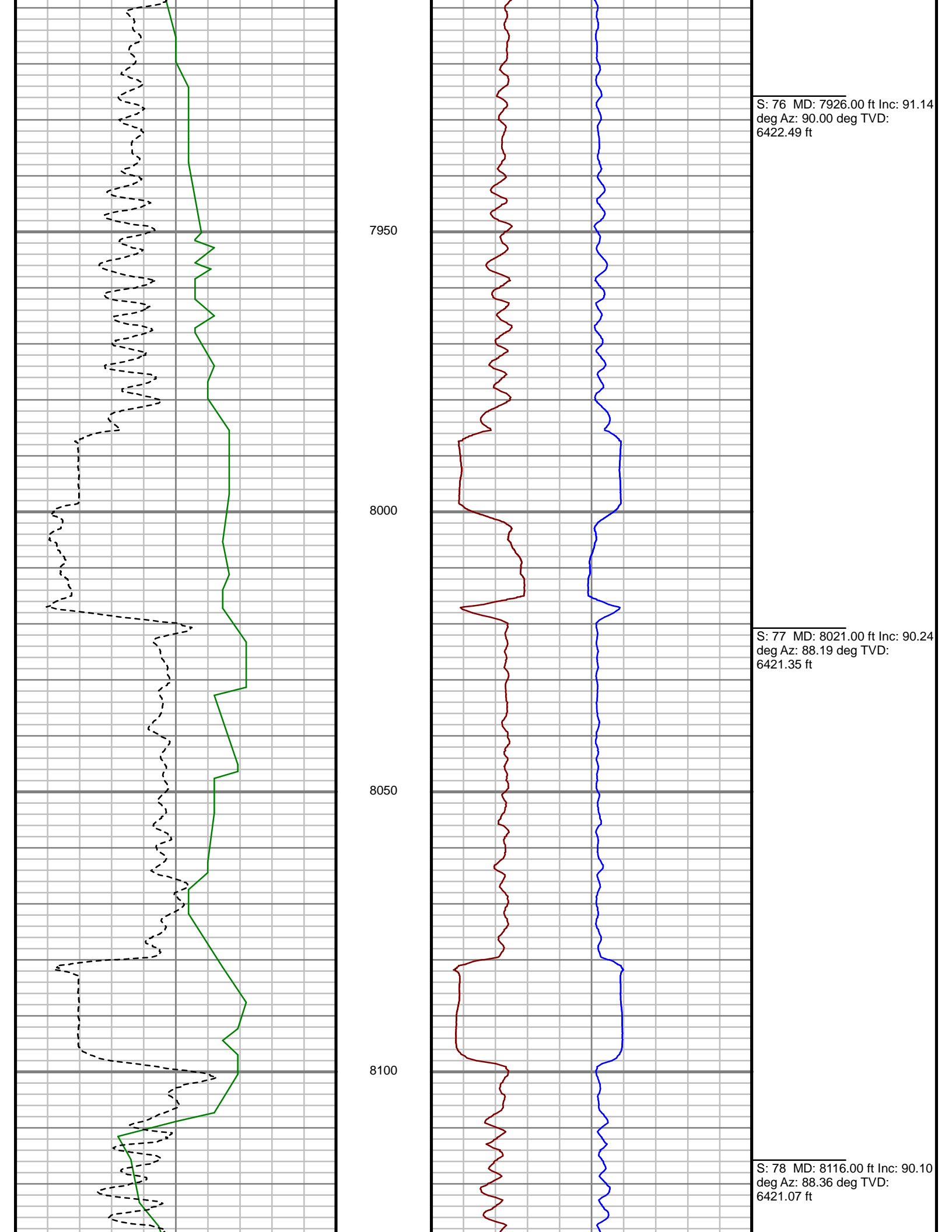
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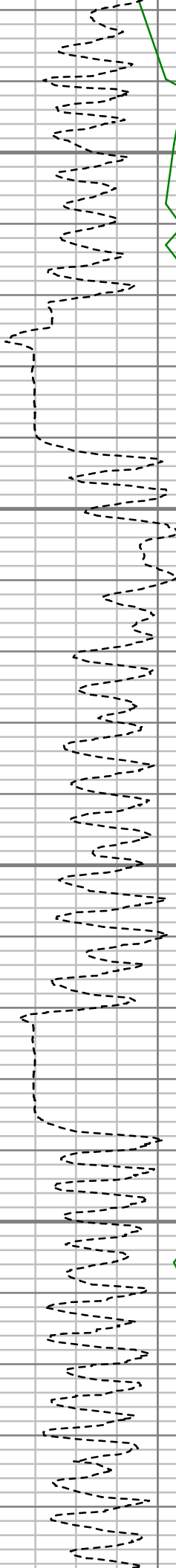
8050

8100

S: 77 MD: 8021.00 ft Inc: 90.24  
deg Az: 88.19 deg TVD:  
6421.35 ft

S: 78 MD: 8116.00 ft Inc: 90.10  
deg Az: 88.36 deg TVD:  
6421.07 ft





8150

8200

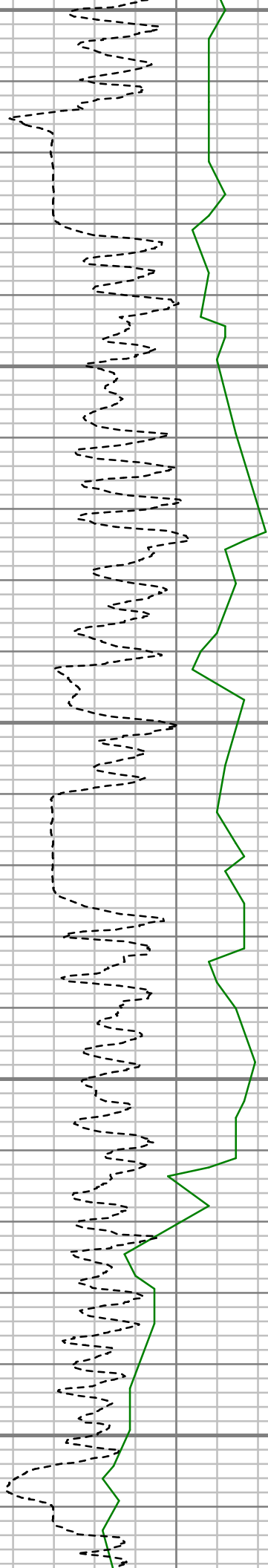
8250

8300



S: 79 MD: 8211.00 ft Inc: 90.20  
deg Az: 87.80 deg TVD:  
6420.82 ft

S: 80 MD: 8306.00 ft Inc: 90.47  
deg Az: 88.52 deg TVD:  
6420.26 ft



8350

8400

8450

8500

8550



S: 81 MD: 8399.00 ft Inc: 90.07  
deg Az: 88.52 deg TVD:  
6419.82 ft

S: 82 MD: 8494.00 ft Inc: 90.74  
deg Az: 88.24 deg TVD:  
6419.16 ft



8600

8650

8700

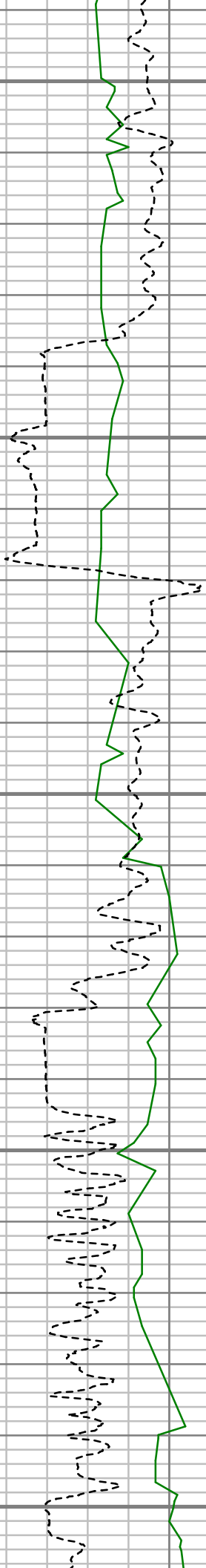
8750

S: 83 MD: 8589.00 ft Inc: 91.81  
deg Az: 88.74 deg TVD:  
6417.04 ft

S: 84 MD: 8683.00 ft Inc: 91.38  
deg Az: 88.25 deg TVD:  
6414.42 ft

S: 85 MD: 8777.00 ft Inc: 91.44  
deg Az: 88.32 deg TVD:  
6412.11 ft





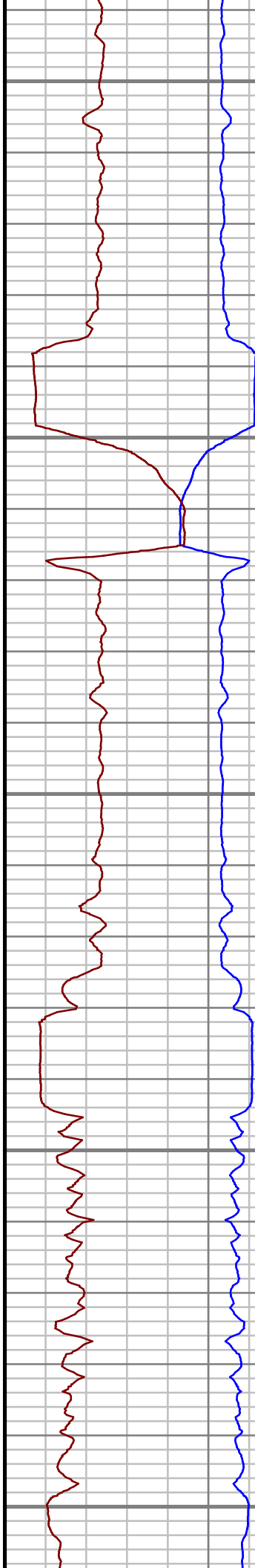
8800

8850

8900

8950

9000



S: 86 MD: 8871.00 ft Inc: 90.44  
deg Az: 87.34 deg TVD:  
6410.57 ft

S: 87 MD: 8966.00 ft Inc: 90.94  
deg Az: 87.65 deg TVD:  
6409.43 ft



9050

9100

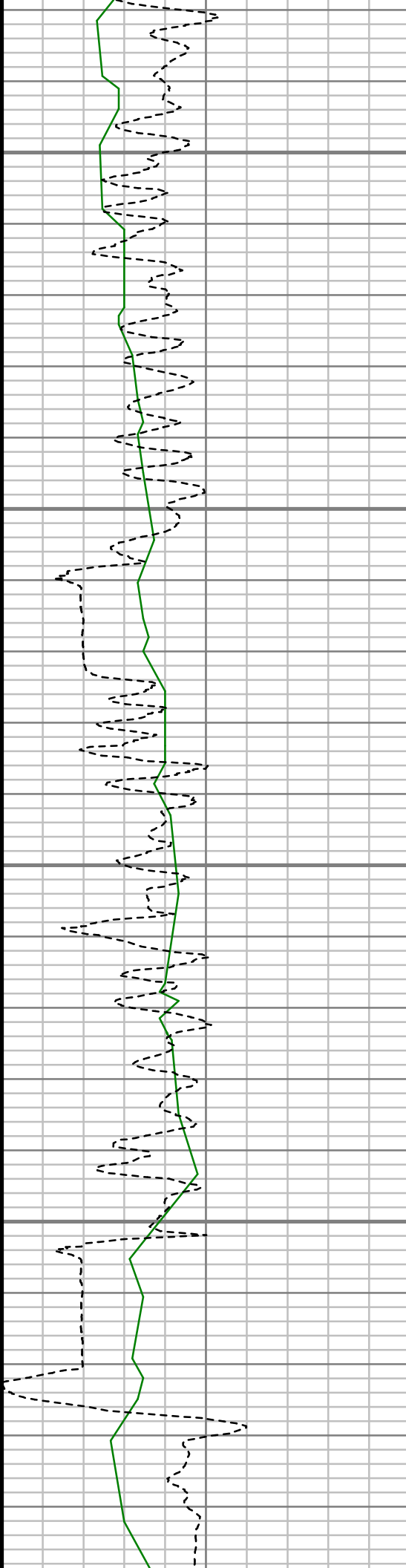
9150

9200



S: 88 MD: 9060.00 ft Inc: 89.46  
deg Az: 87.06 deg TVD:  
6409.10 ft

S: 89 MD: 9155.00 ft Inc: 89.77  
deg Az: 87.26 deg TVD:  
6409.74 ft



9250

9300

9350

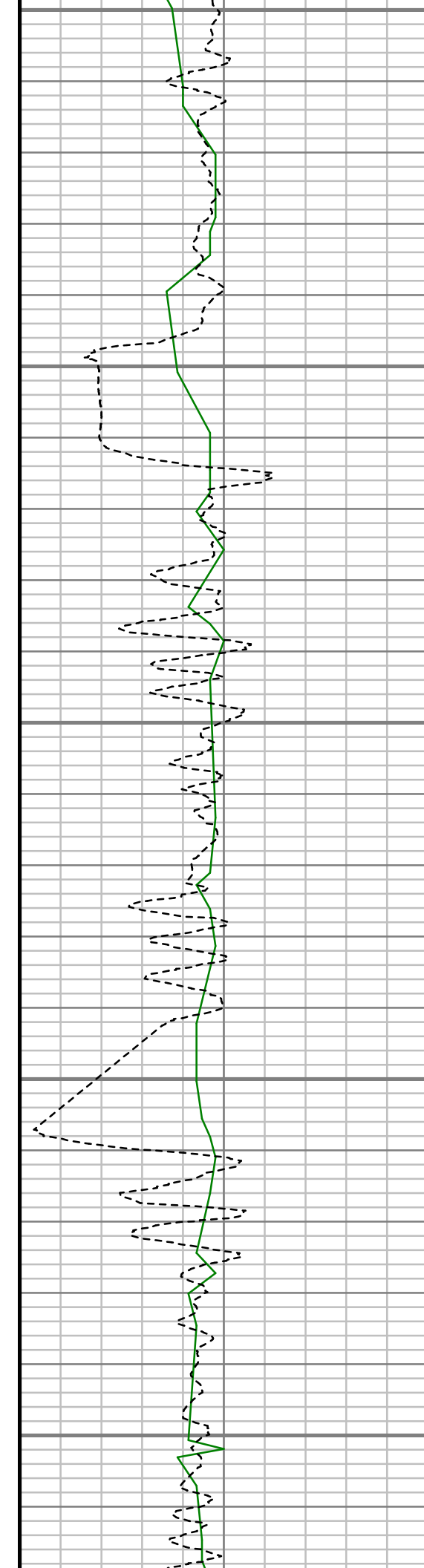
9400



S: 90 MD: 9249.00 ft Inc: 90.20  
deg Az: 88.07 deg TVD:  
6409.77 ft

S: 91 MD: 9344.00 ft Inc: 90.77  
deg Az: 87.28 deg TVD:  
6408.96 ft

S: 92 MD: 9438.00 ft Inc: 90.54  
deg Az: 87.81 deg TVD:  
6407.89 ft



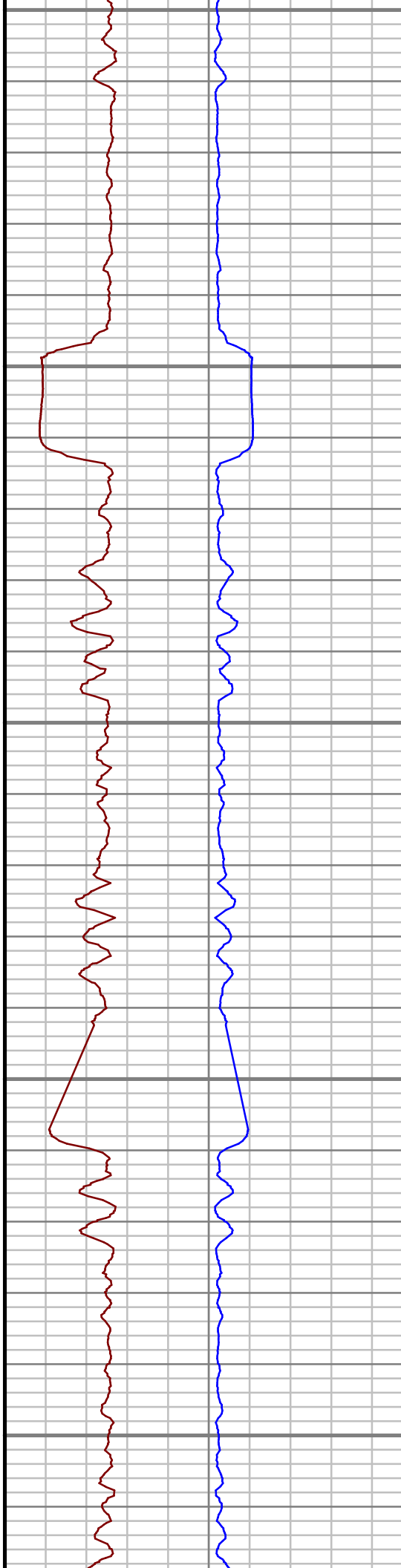
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9500

9550

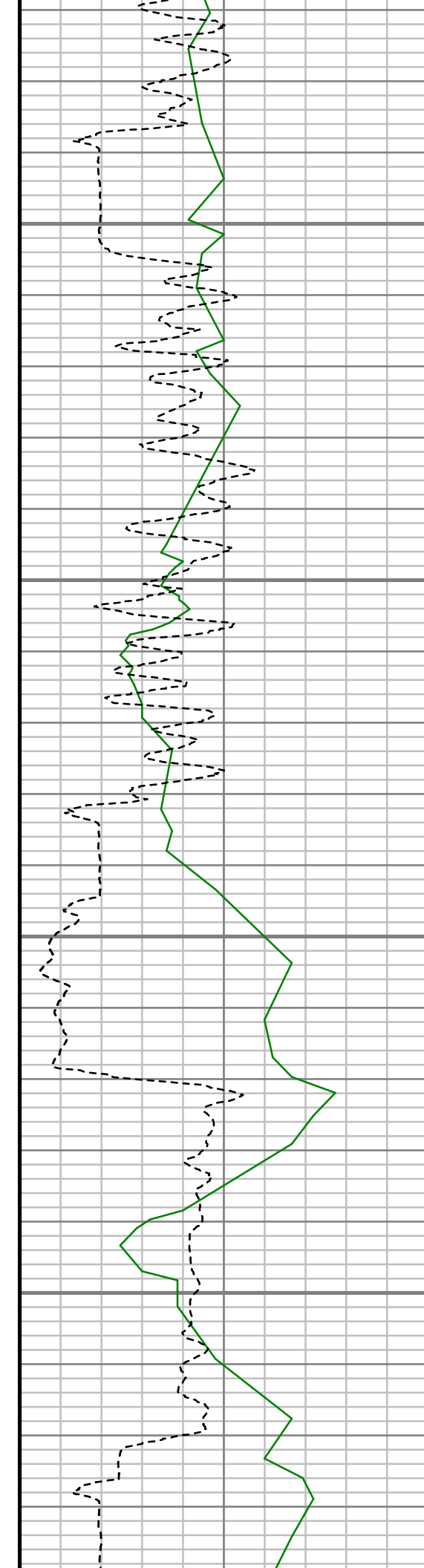
9600

9650



S: 93 MD: 9533.00 ft Inc: 90.84  
deg Az: 87.97 deg TVD:  
6406.74 ft

S: 94 MD: 9628.00 ft Inc: 90.71  
deg Az: 87.34 deg TVD:  
6405.46 ft

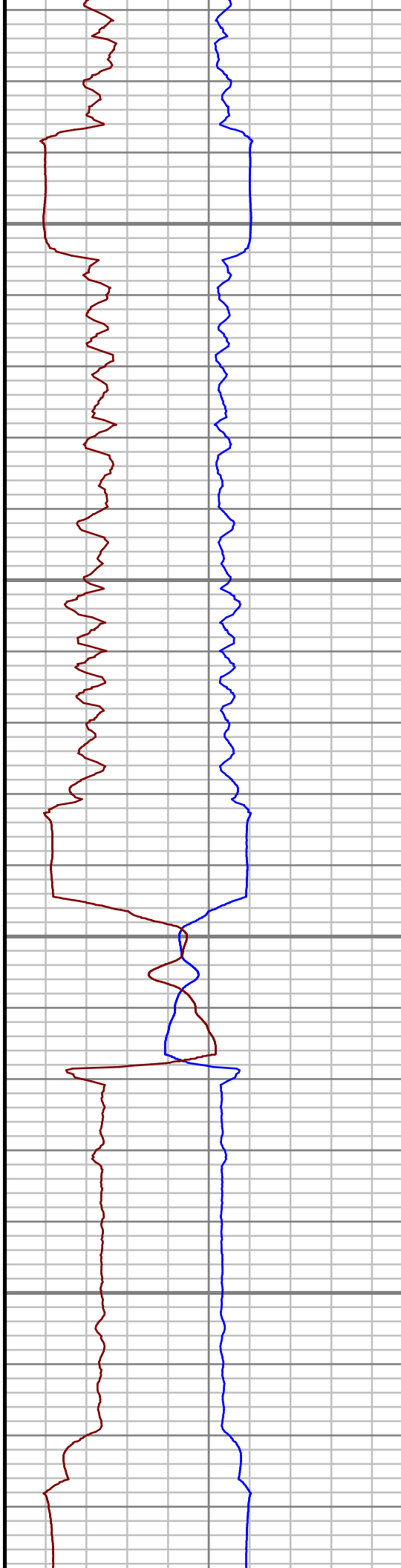


9700

9750

9800

9850

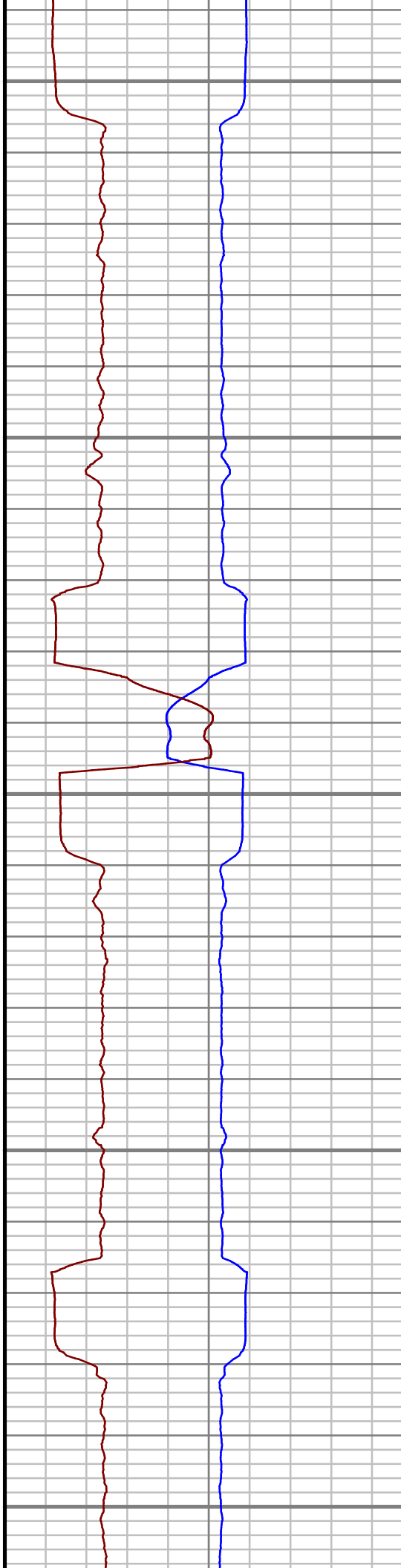


S: 95 MD: 9723.00 ft Inc: 90.87  
deg Az: 86.39 deg TVD:  
6404.16 ft

S: 96 MD: 9817.00 ft Inc: 89.90  
deg Az: 88.91 deg TVD:  
6403.52 ft



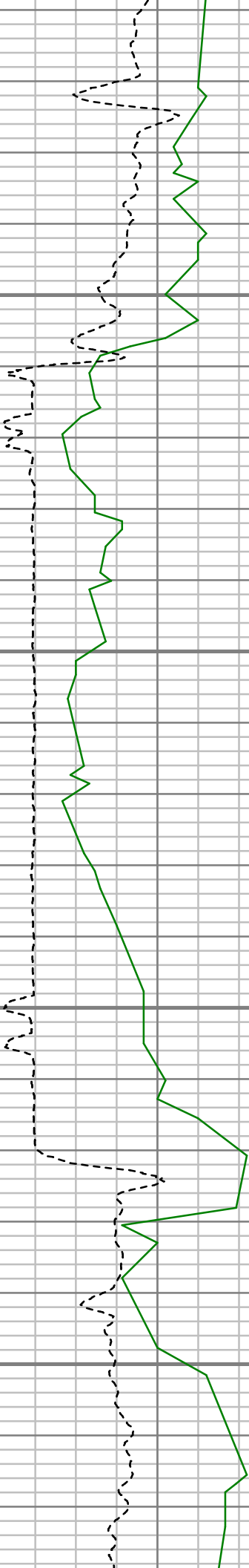
9900  
9950  
10000  
10050  
10100



S: 97 MD: 9912.00 ft Inc: 89.90  
deg Az: 88.78 deg TVD:  
6403.69 ft

S: 98 MD: 10006.00 ft Inc:  
90.37 deg Az: 90.15 deg TVD:  
6403.47 ft

S: 99 MD: 10101.00 ft Inc:  
90.70 deg Az: 89.99 deg TVD:  
6402.58 ft



10150

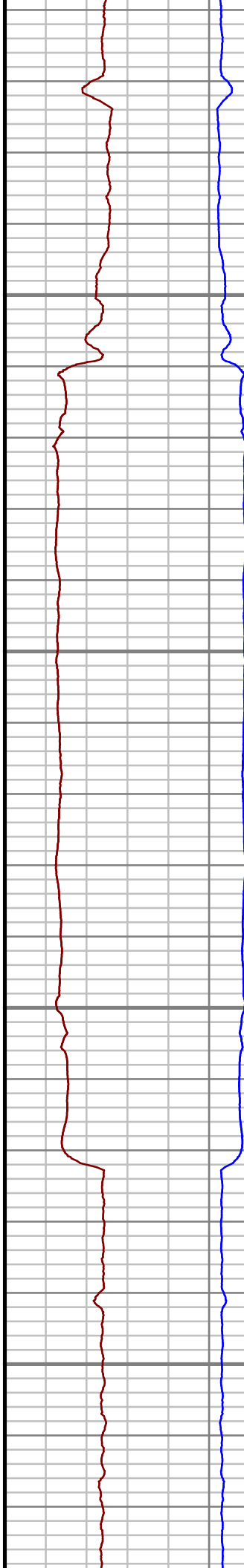
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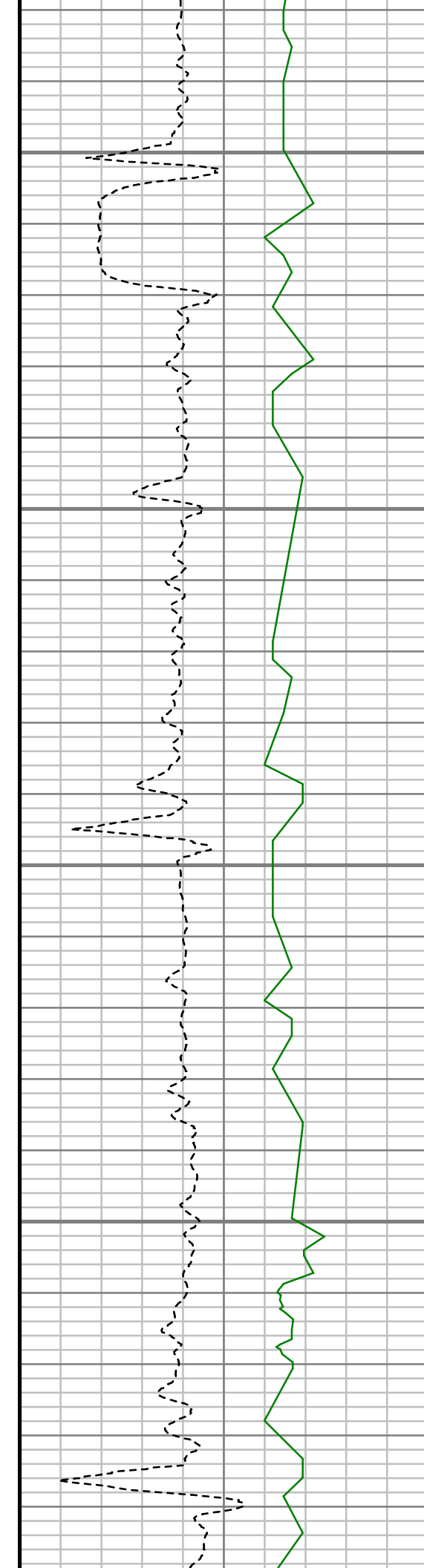
10250

10300

S: 100 MD: 10195.00 ft Inc:  
90.67 deg Az: 90.08 deg TVD:  
6401.45 ft

S: 101 MD: 10289.00 ft Inc:  
90.97 deg Az: 90.02 deg TVD:  
6400.10 ft



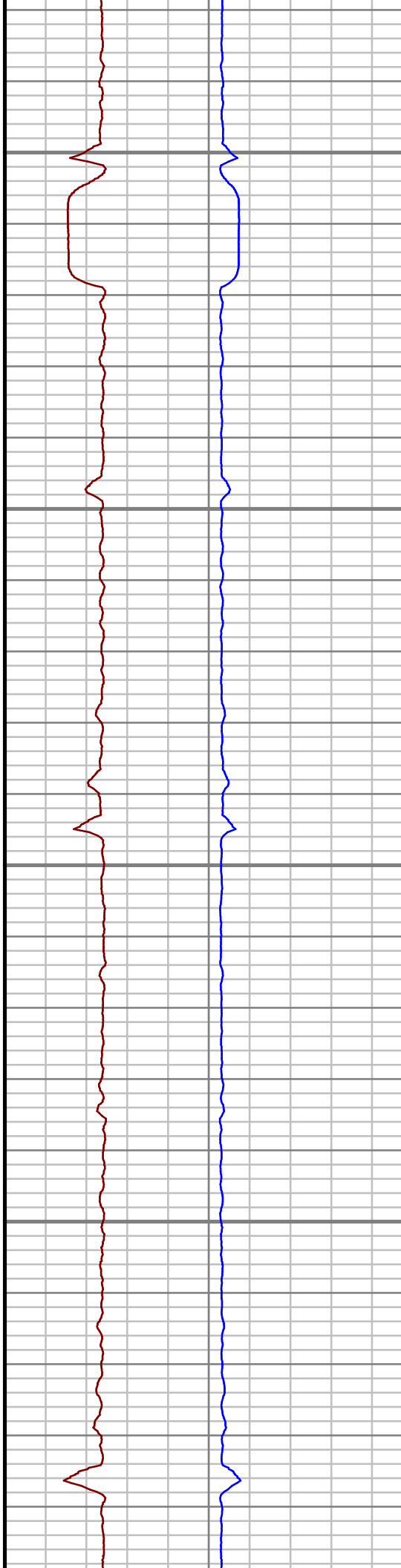


10350

10400

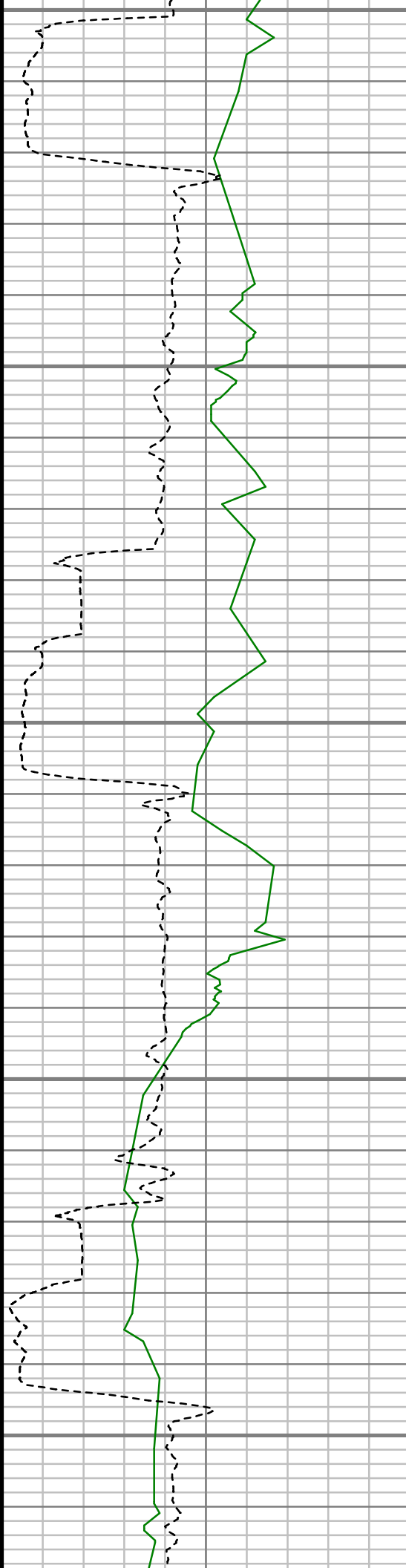
10450

10500



S: 102 MD: 10384.00 ft Inc:  
91.18 deg Az: 90.49 deg TVD:  
6398.32 ft

S: 103 MD: 10476.00 ft Inc:  
91.91 deg Az: 90.42 deg TVD:  
6395.84 ft



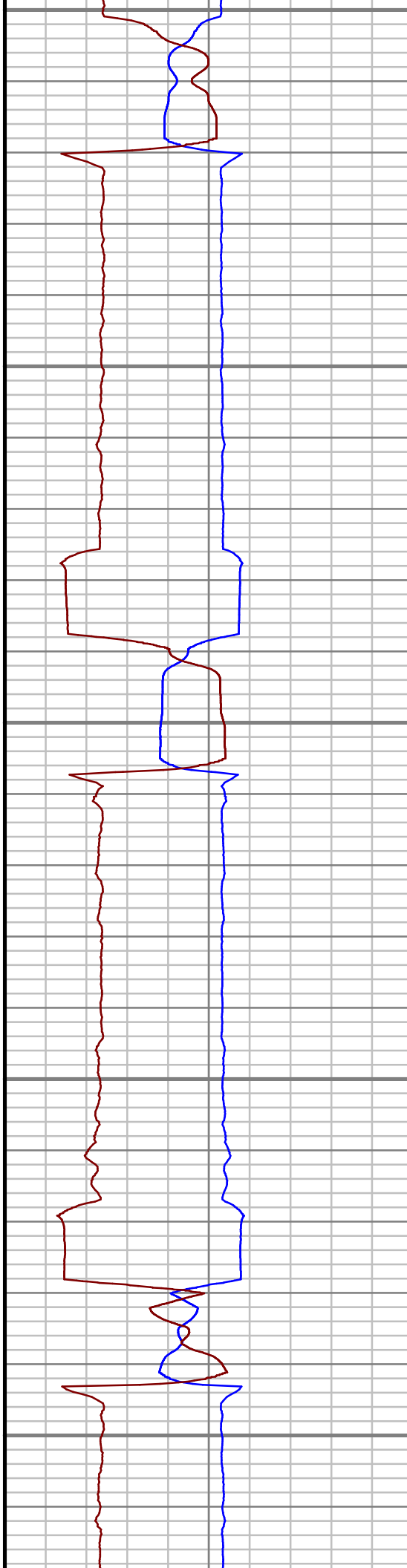
10550

10600

10650

10700

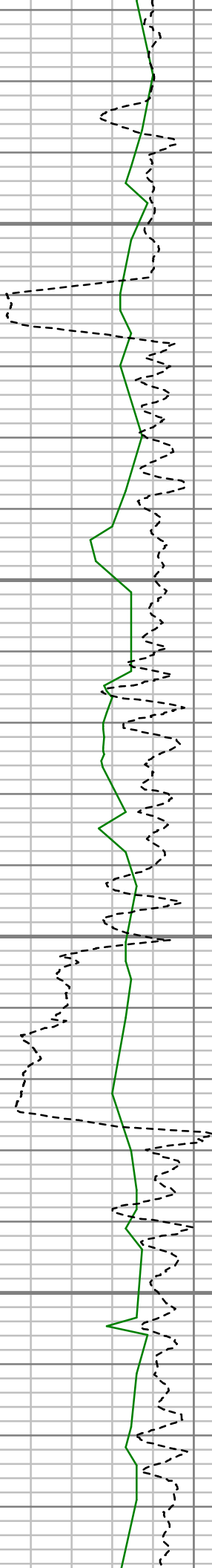
10750



S: 104 MD: 10567.00 ft Inc:  
90.94 deg Az: 90.71 deg TVD:  
6393.57 ft

S: 105 MD: 10658.00 ft Inc:  
91.07 deg Az: 88.65 deg TVD:  
6391.97 ft

S: 106 MD: 10750.00 ft Inc:  
89.50 deg Az: 89.62 deg TVD:  
6391.51 ft

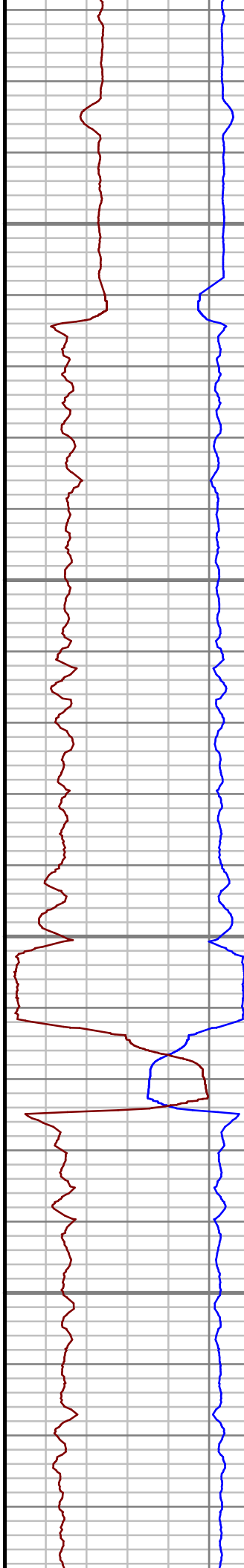


10800

10850

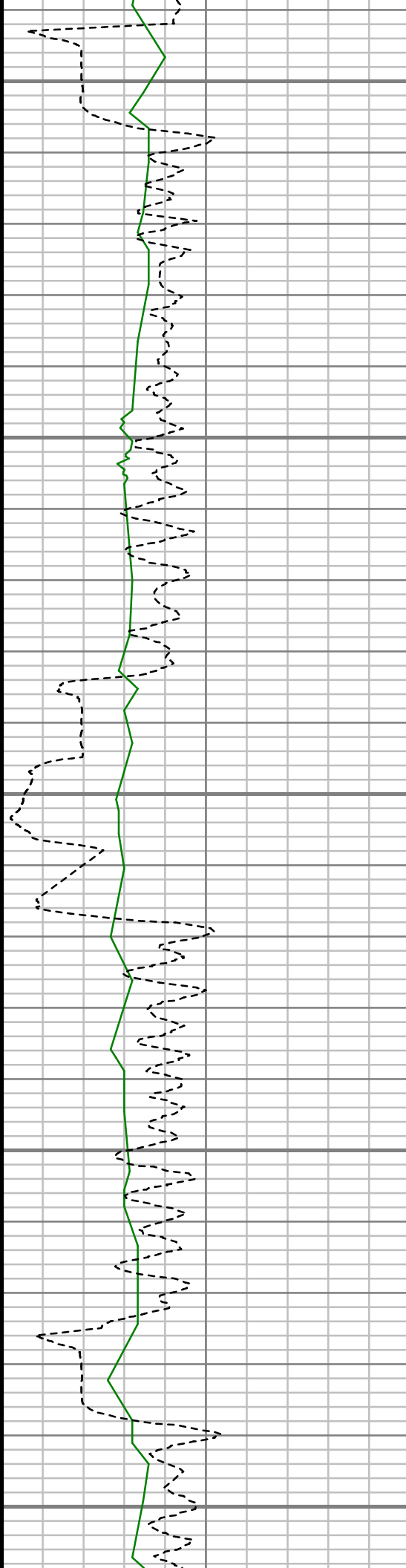
10900

10950



S: 107 MD: 10842.00 ft Inc:  
89.09 deg Az: 90.73 deg TVD:  
6392.64 ft

S: 108 MD: 10933.00 ft Inc:  
90.24 deg Az: 91.09 deg TVD:  
6393.18 ft



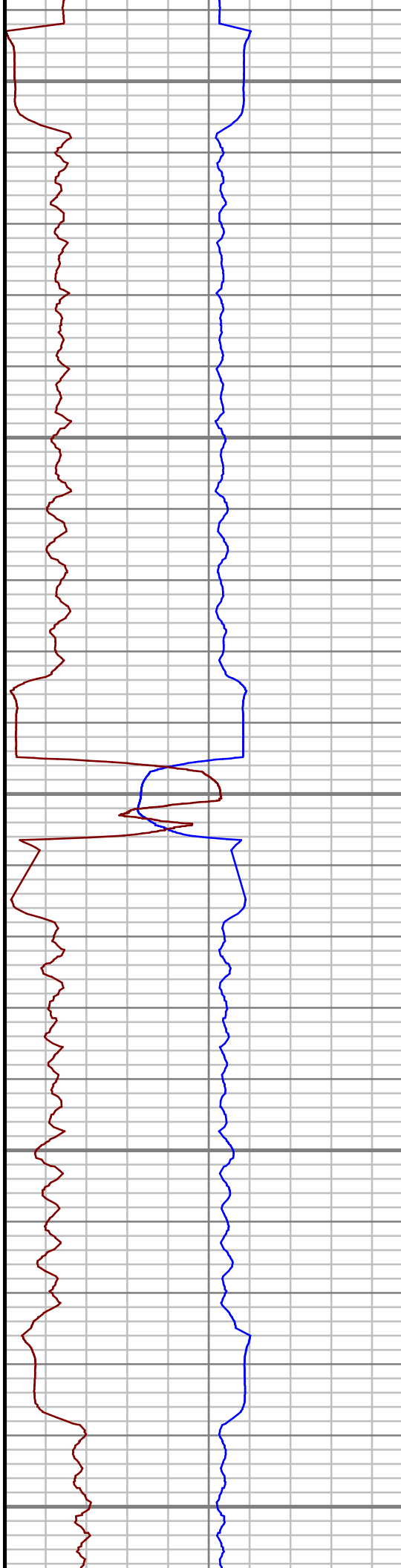
11000

11050

11100

11150

11200

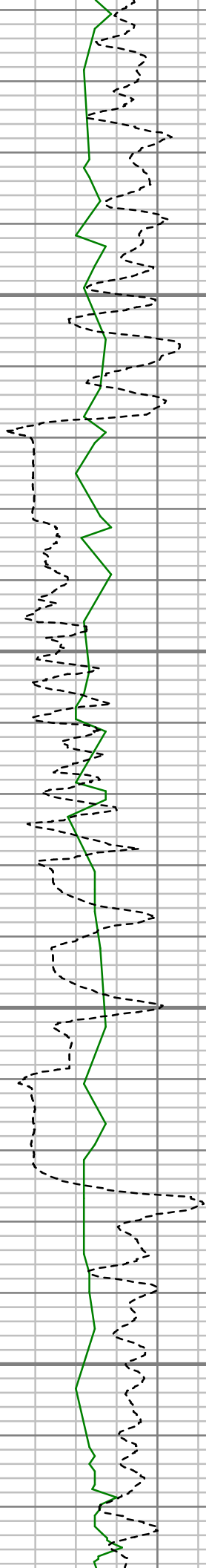


S: 109 MD: 11025.00 ft Inc:  
90.44 deg Az: 91.51 deg TVD:  
6392.64 ft

S: 110 MD: 11116.00 ft Inc:  
90.37 deg Az: 89.66 deg TVD:  
6392.00 ft

S: 111 MD: 11200.00 ft Inc:

S: 111 MD: 11208.00 ft Inc:  
89.97 deg Az: 88.98 deg TVD:  
6391.73 ft

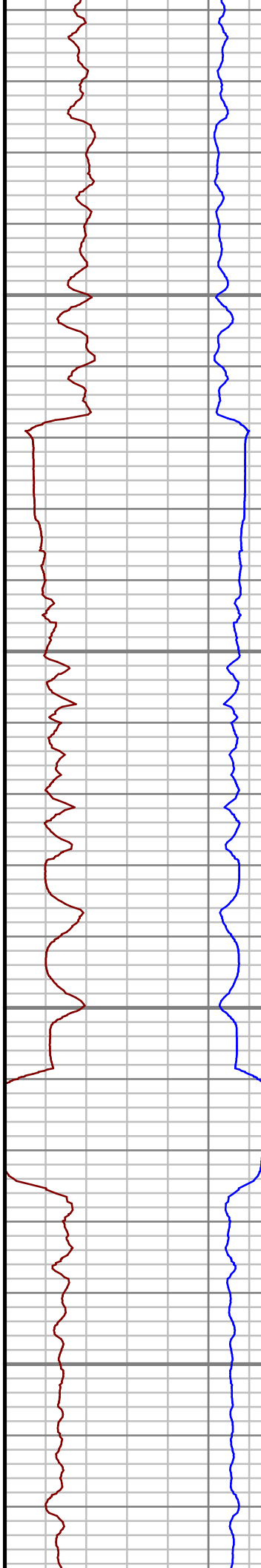


11250

11300

11350

11400



S: 112 MD: 11300.00 ft Inc:  
90.70 deg Az: 87.70 deg TVD:  
6391.19 ft

S: 113 MD: 11391.00 ft Inc:  
90.54 deg Az: 86.34 deg TVD:  
6390.20 ft

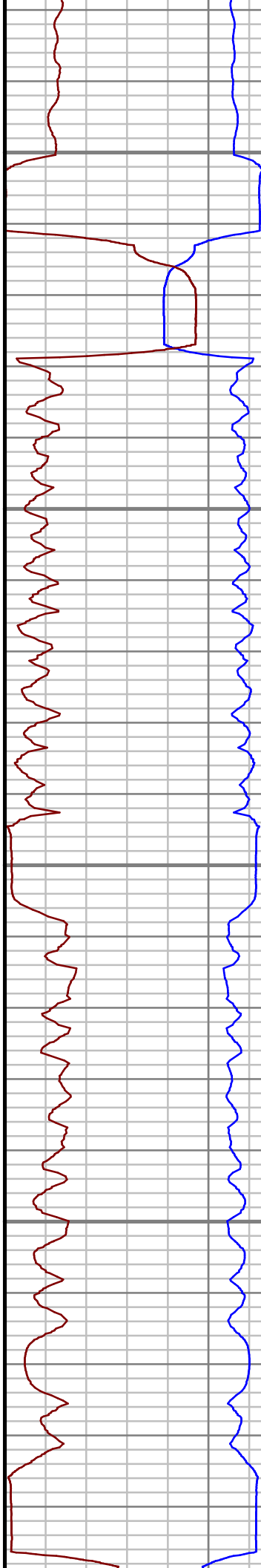


11450

11500

11550

11600



S: 114 MD: 11483.00 ft Inc:  
90.17 deg Az: 87.09 deg TVD:  
6389.64 ft

S: 115 MD: 11575.00 ft Inc:  
90.67 deg Az: 85.75 deg TVD:  
6388.96 ft

11650

11700

11750

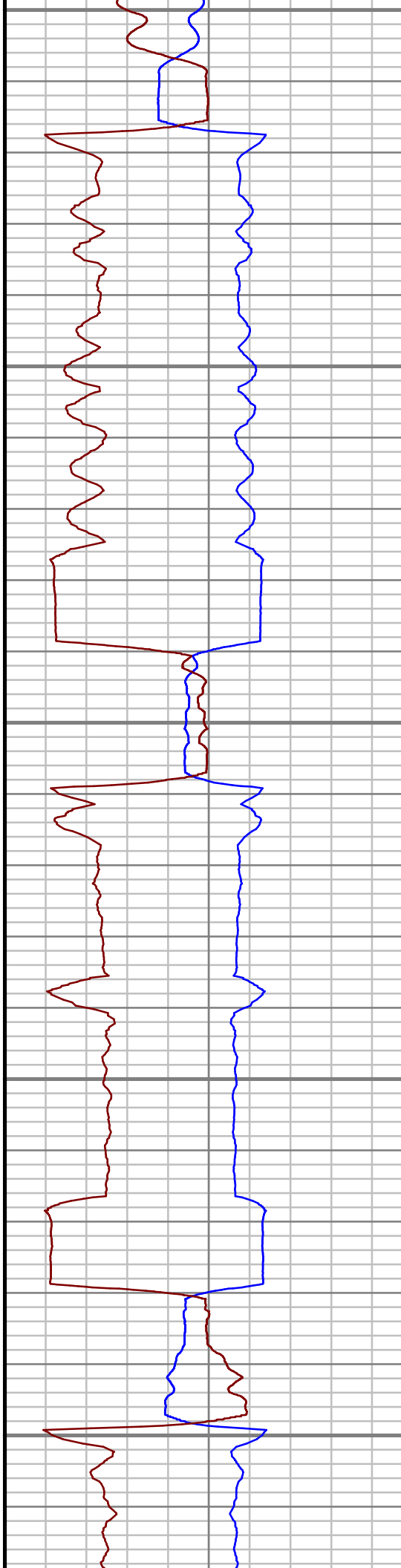
11800

11850

S: 116 MD: 11666.00 ft Inc: 89.87 deg Az: 86.42 deg TVD: 6388.54 ft

S: 117 MD: 11758.00 ft Inc: 90.24 deg Az: 86.39 deg TVD: 6388.46 ft

S: 118 MD: 11849.00 ft Inc: 90.17 deg Az: 87.44 deg TVD: 6388.14 ft



11650

S: 116 MD: 11666.00 ft Inc: 89.87 deg Az: 86.42 deg TVD: 6388.54 ft

11700

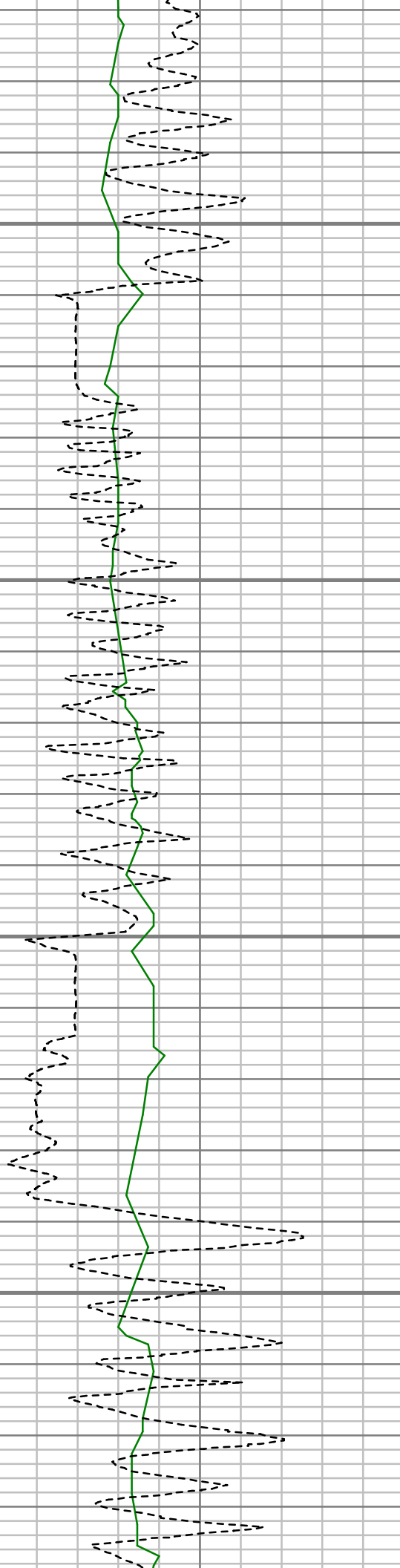
11750

S: 117 MD: 11758.00 ft Inc: 90.24 deg Az: 86.39 deg TVD: 6388.46 ft

11800

11850

S: 118 MD: 11849.00 ft Inc: 90.17 deg Az: 87.44 deg TVD: 6388.14 ft

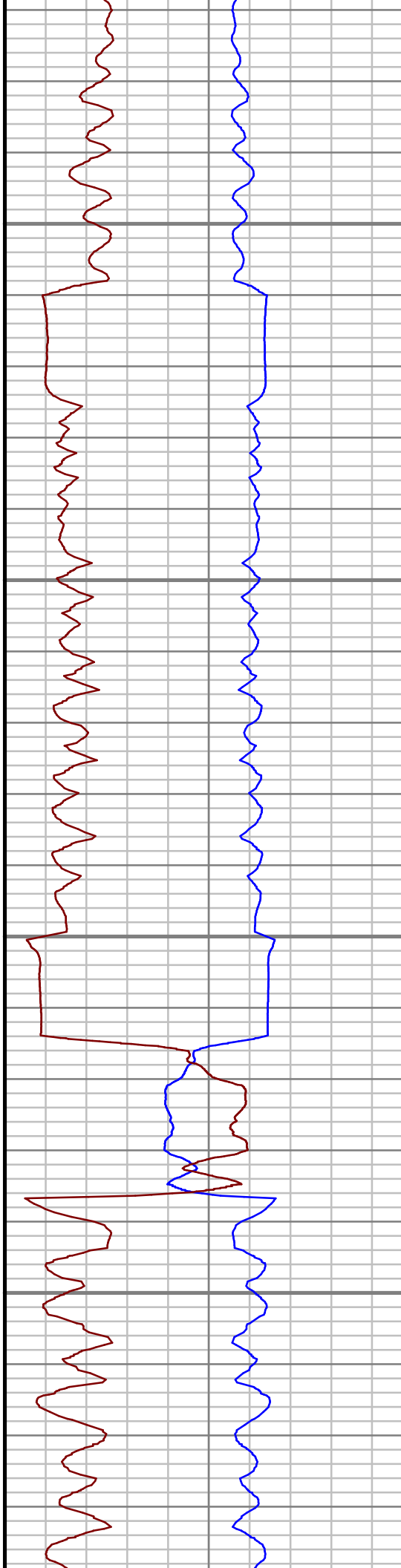


11900

11950

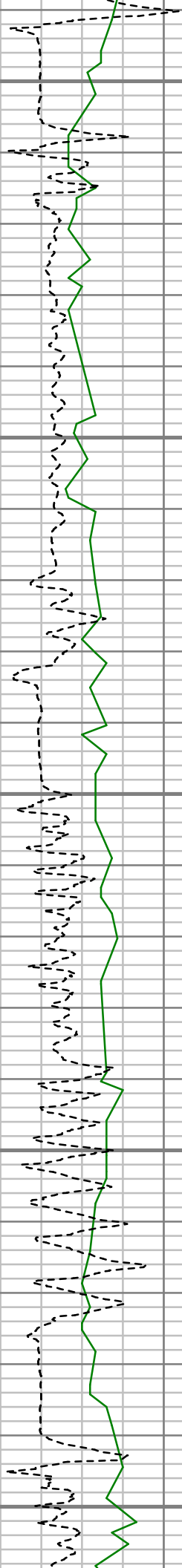
12000

12050



S: 119 MD: 11941.00 ft Inc:  
89.97 deg Az: 87.14 deg TVD:  
6388.03 ft

S: 120 MD: 12032.00 ft Inc:  
90.50 deg Az: 89.11 deg TVD:  
6387.66 ft



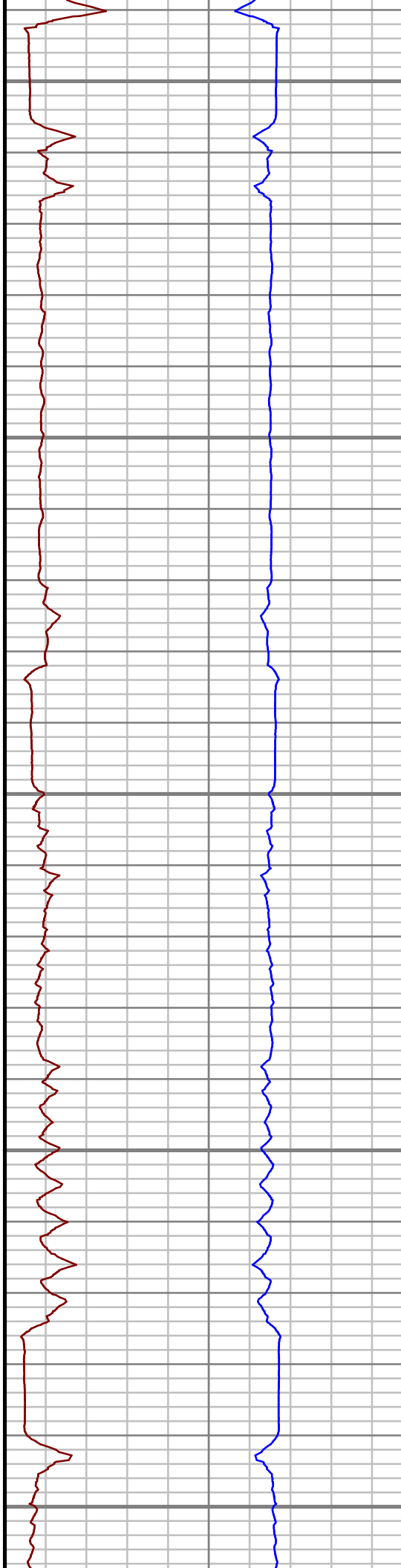
12100

12150

12200

12250

12300



S: 121 MD: 12123.00 ft Inc:  
90.60 deg Az: 88.71 deg TVD:  
6386.78 ft

S: 122 MD: 12215.00 ft Inc:  
91.31 deg Az: 89.04 deg TVD:  
6385.24 ft

S: 123 MD: 12307.00 ft Inc:

90.77 deg Az: 89.06 deg TVD:  
6383.57 ft

12350

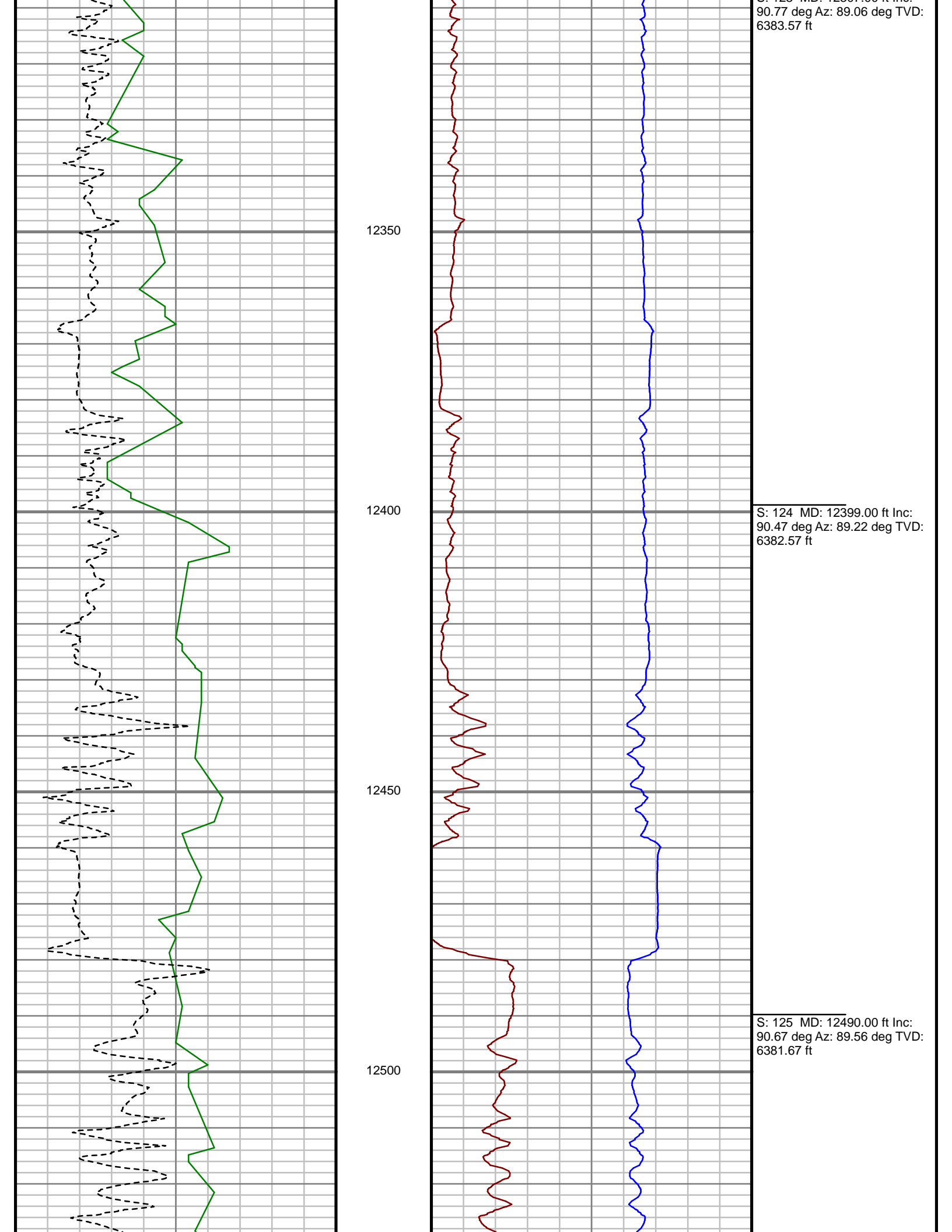
12400

12450

12500

S: 124 MD: 12399.00 ft Inc:  
90.47 deg Az: 89.22 deg TVD:  
6382.57 ft

S: 125 MD: 12490.00 ft Inc:  
90.67 deg Az: 89.56 deg TVD:  
6381.67 ft



12550

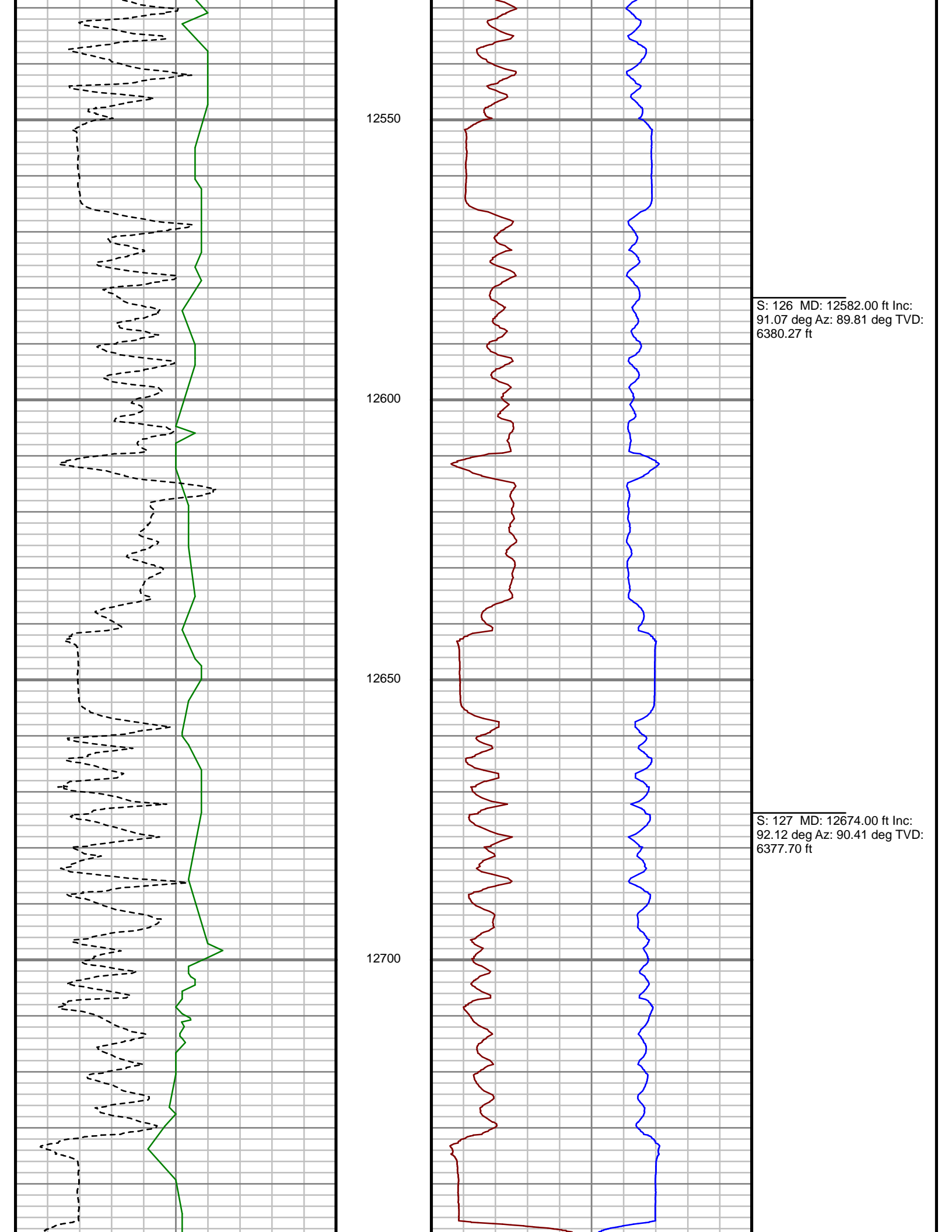
12600

12650

12700

S: 126 MD: 12582.00 ft Inc:  
91.07 deg Az: 89.81 deg TVD:  
6380.27 ft

S: 127 MD: 12674.00 ft Inc:  
92.12 deg Az: 90.41 deg TVD:  
6377.70 ft



12750

12800

12850

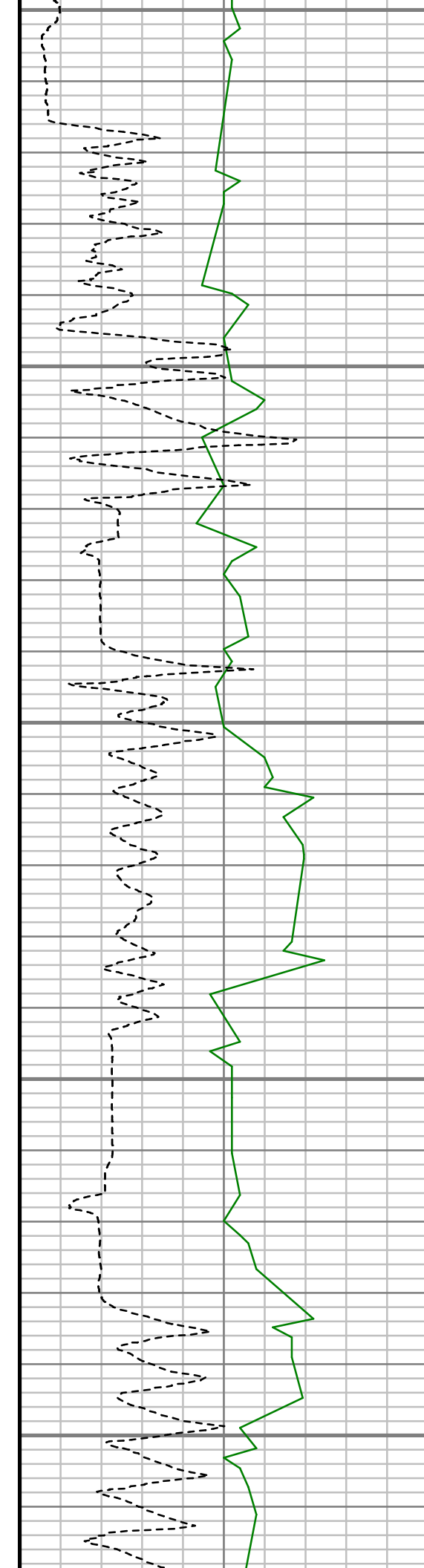
12900

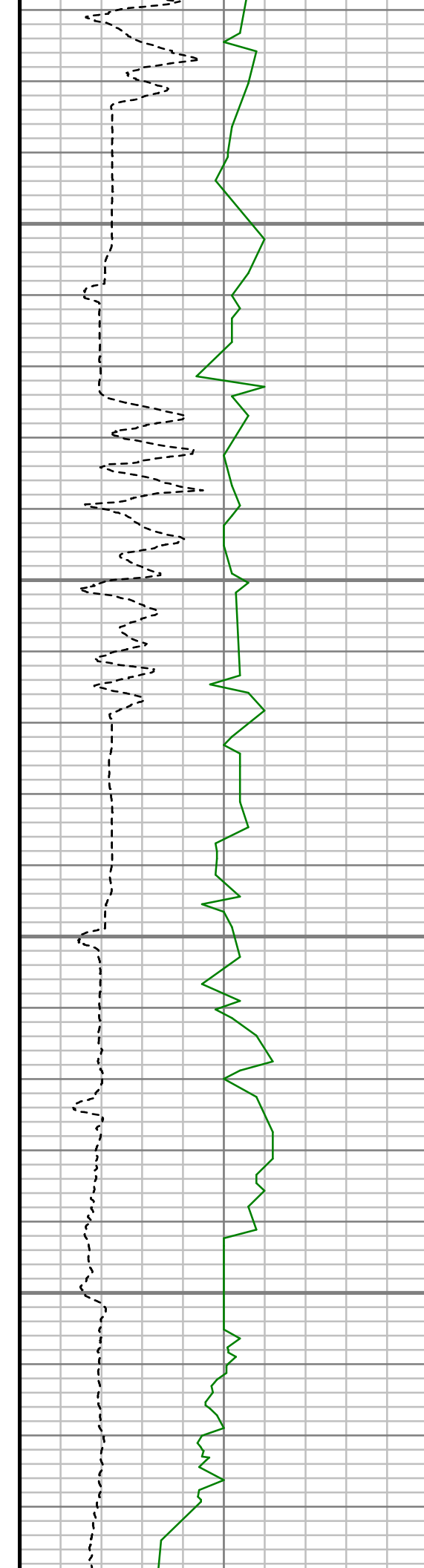
12950

S: 128 MD: 12765.00 ft Inc:  
90.97 deg Az: 89.11 deg TVD:  
6375.25 ft

S: 129 MD: 12857.00 ft Inc:  
90.81 deg Az: 89.23 deg TVD:  
6373.82 ft

S: 130 MD: 12949.00 ft Inc:  
90.54 deg Az: 89.40 deg TVD:  
6372.75 ft



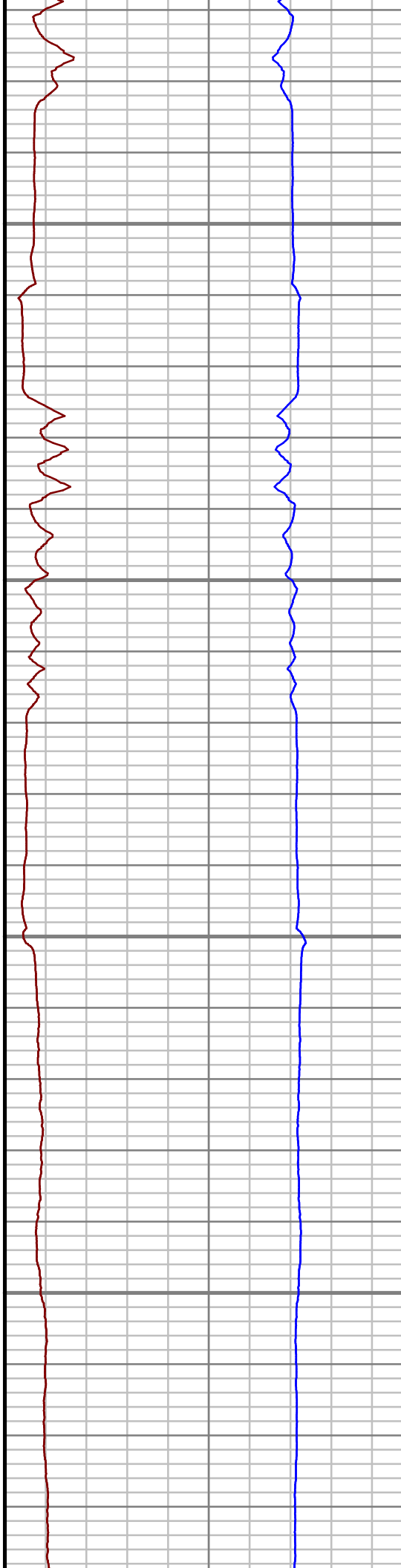


13000

13050

13100

13150



S: 131 MD: 13040.00 ft Inc:  
91.41 deg Az: 90.15 deg TVD:  
6371.20 ft

S: 132 MD: 13132.00 ft Inc:  
92.72 deg Az: 91.13 deg TVD:  
6367.89 ft



13200

13250

13300

13350

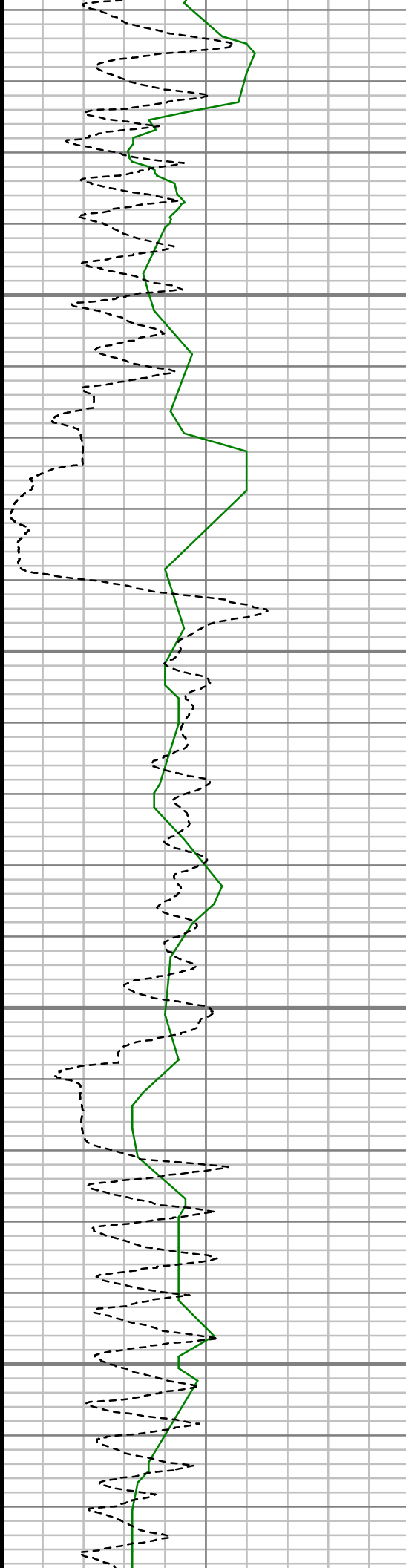
13400



S: 133 MD: 13222.00 ft Inc:  
91.44 deg Az: 90.87 deg TVD:  
6364.62 ft

S: 134 MD: 13316.00 ft Inc:  
90.47 deg Az: 90.95 deg TVD:  
6363.05 ft

S: 135 MD: 13407.00 ft Inc:

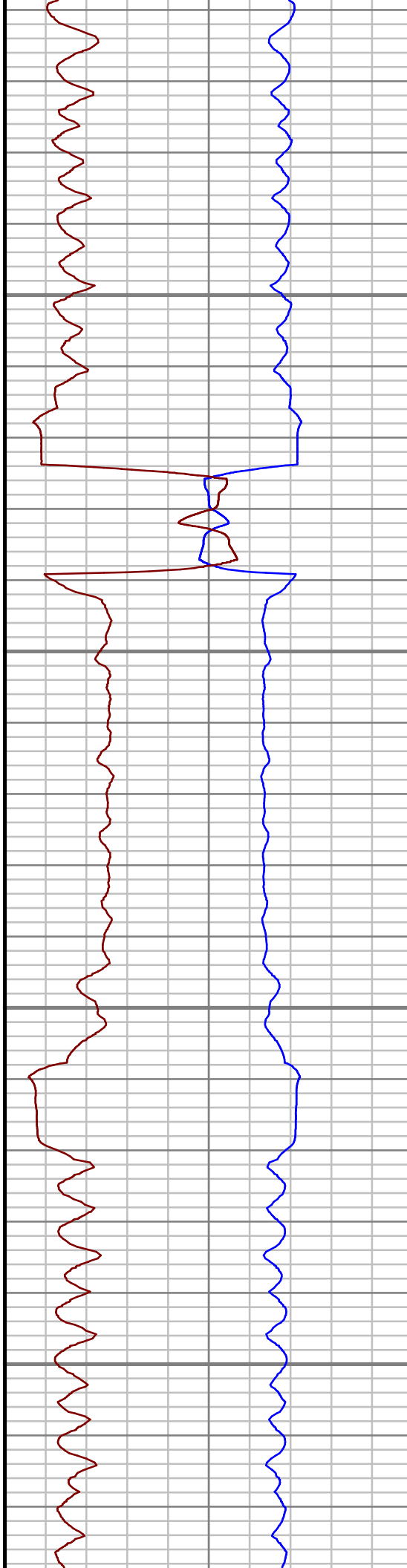


13450

13500

13550

13600



90.64 deg Az: 91.17 deg TVD:  
6362.17 ft

S: 136 MD: 13499.00 ft Inc:  
90.10 deg Az: 89.40 deg TVD:  
6361.58 ft

S: 137 MD: 13591.00 ft Inc:  
90.00 deg Az: 89.14 deg TVD:  
6361.50 ft

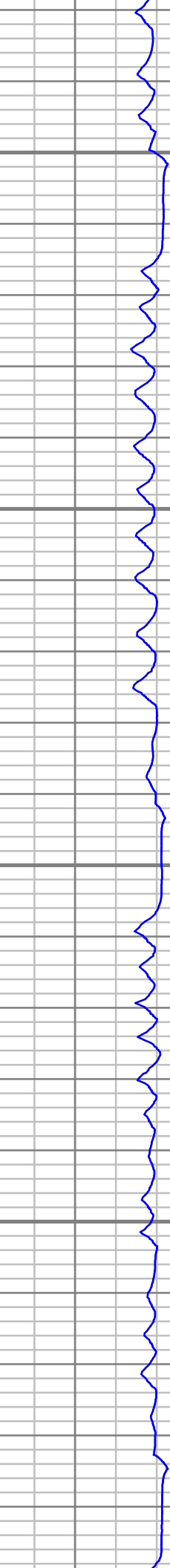
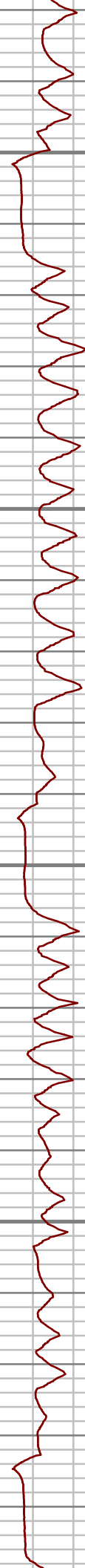


13650

13700

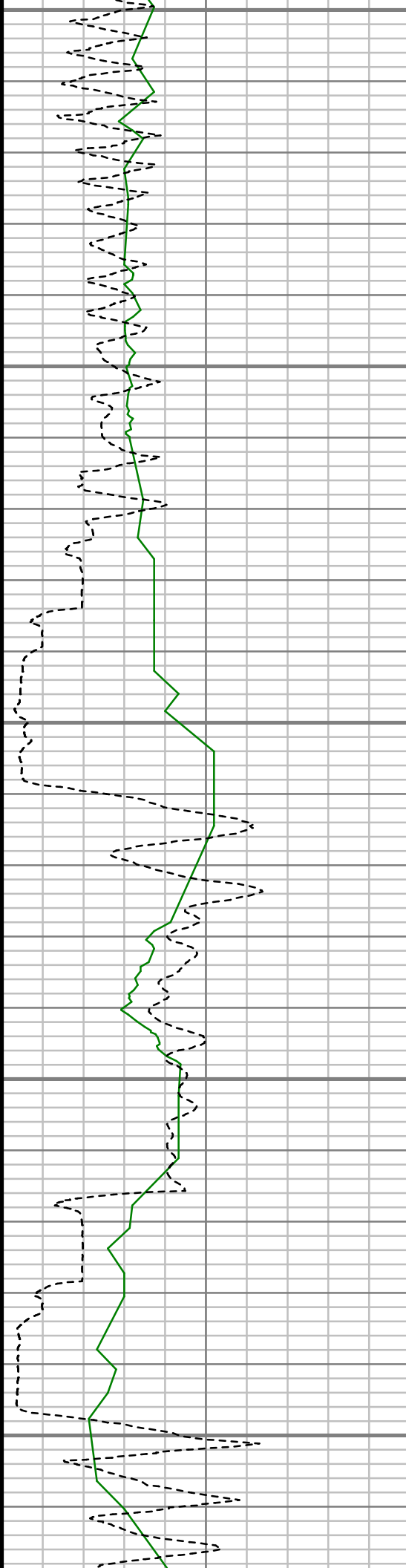
13750

13800



S: 138 MD: 13683.00 ft Inc:  
90.27 deg Az: 89.67 deg TVD:  
6361.28 ft

S: 139 MD: 13774.00 ft Inc:  
90.34 deg Az: 89.69 deg TVD:  
6360.80 ft



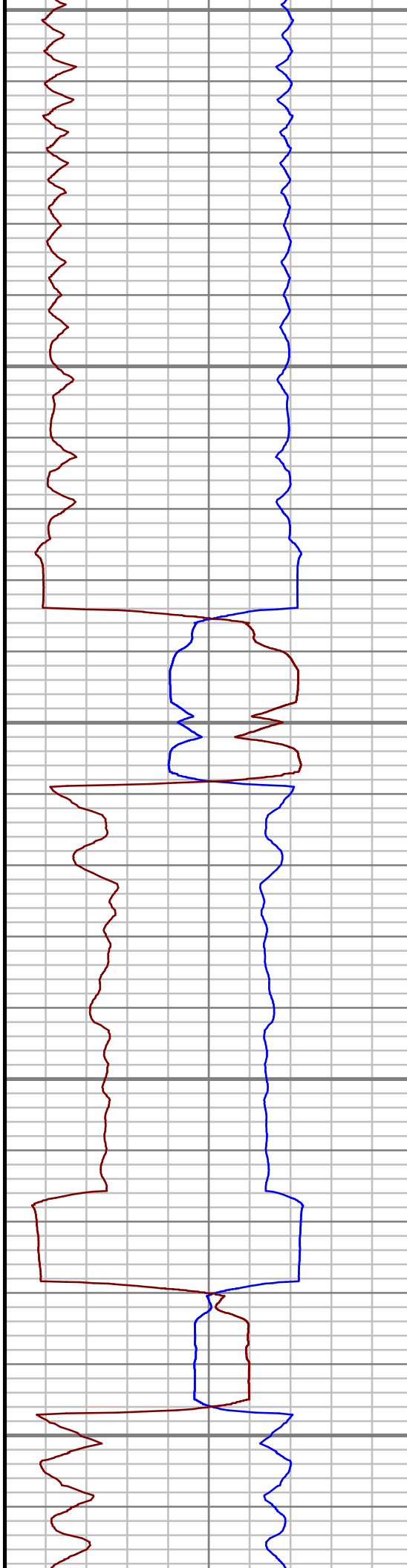
13850

13900

13950

14000

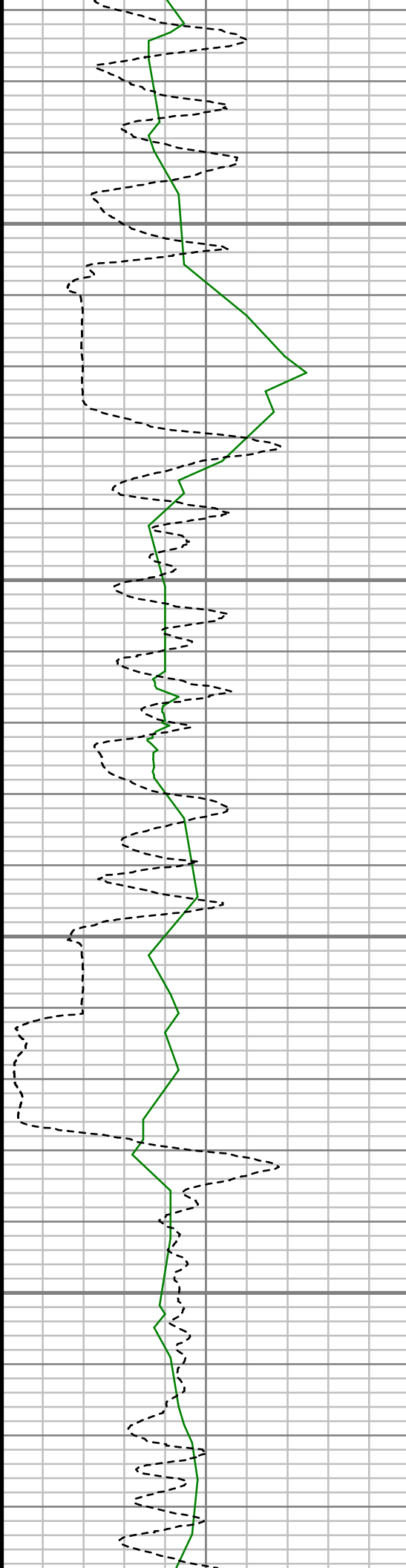
14050



S: 140 MD: 13865.00 ft Inc:  
91.68 deg Az: 89.73 deg TVD:  
6359.21 ft

S: 141 MD: 13957.00 ft Inc:  
91.21 deg Az: 89.39 deg TVD:  
6356.89 ft

S: 142 MD: 14048.00 ft Inc:  
90.54 deg Az: 88.17 deg TVD:  
6355.51 ft

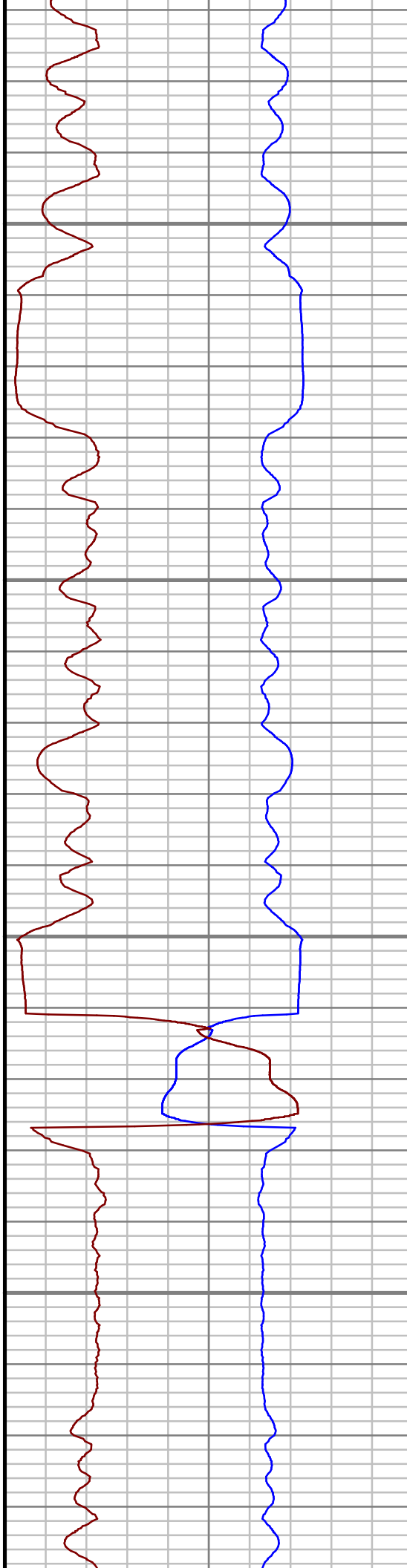


14100

14150

14200

14250



S: 143 MD: 14139.00 ft Inc:  
90.77 deg Az: 88.74 deg TVD:  
6354.47 ft

S: 144 MD: 14231.00 ft Inc:  
89.77 deg Az: 87.83 deg TVD:  
6354.04 ft



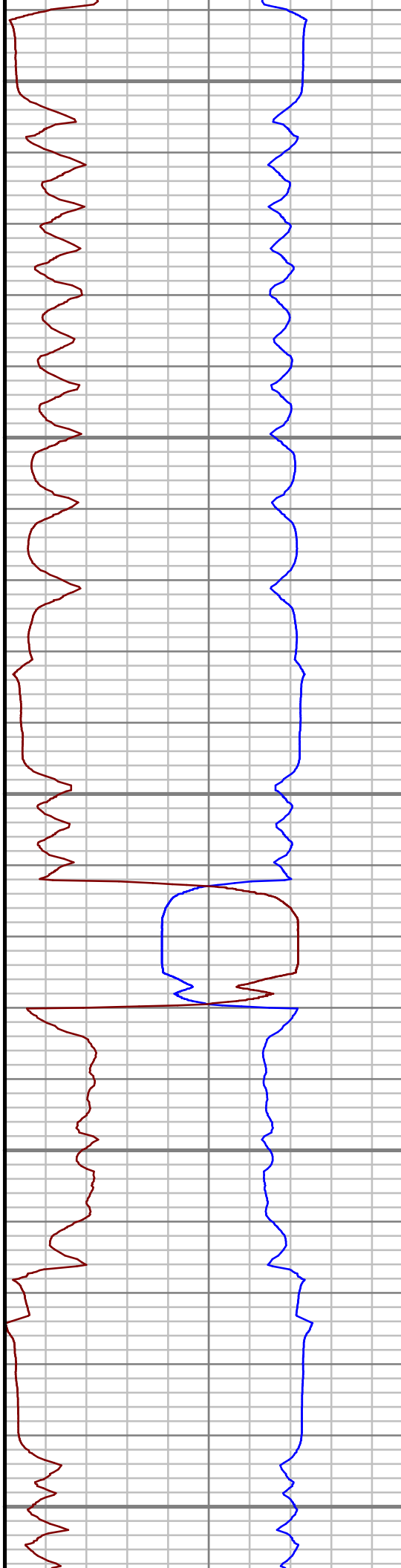
14300

14350

14400

14450

14500



S: 145 MD: 14323.00 ft Inc:  
90.47 deg Az: 88.48 deg TVD:  
6353.85 ft

S: 146 MD: 14415.00 ft Inc:  
90.54 deg Az: 89.14 deg TVD:  
6353.04 ft

S: 147 MD: 14506.00 ft Inc:

90.13 deg Az: 89.22 deg TVD:  
6352.51 ft

14550

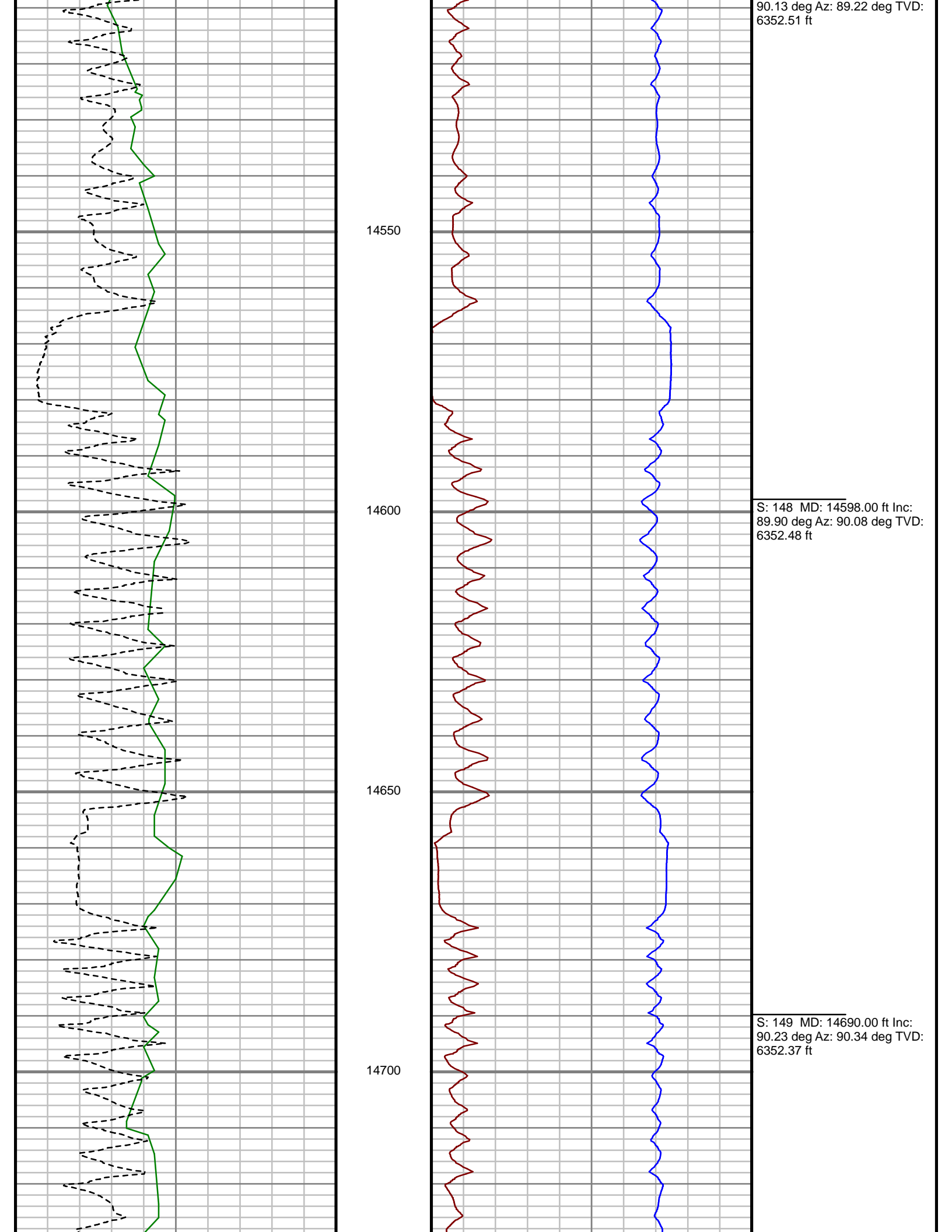
14600

14650

14700

S: 148 MD: 14598.00 ft Inc:  
89.90 deg Az: 90.08 deg TVD:  
6352.48 ft

S: 149 MD: 14690.00 ft Inc:  
90.23 deg Az: 90.34 deg TVD:  
6352.37 ft





14750

14800

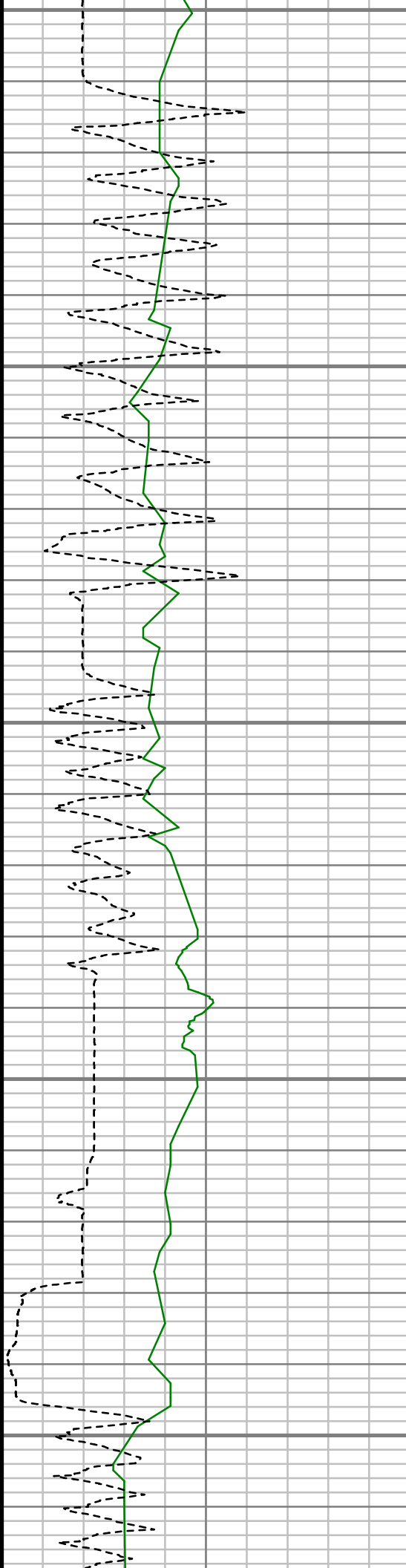
14850

14900



S: 150 MD: 14781.00 ft Inc:  
90.44 deg Az: 91.74 deg TVD:  
6351.84 ft

S: 151 MD: 14873.00 ft Inc:  
90.37 deg Az: 88.76 deg TVD:  
6351.20 ft



14950

15000

15050

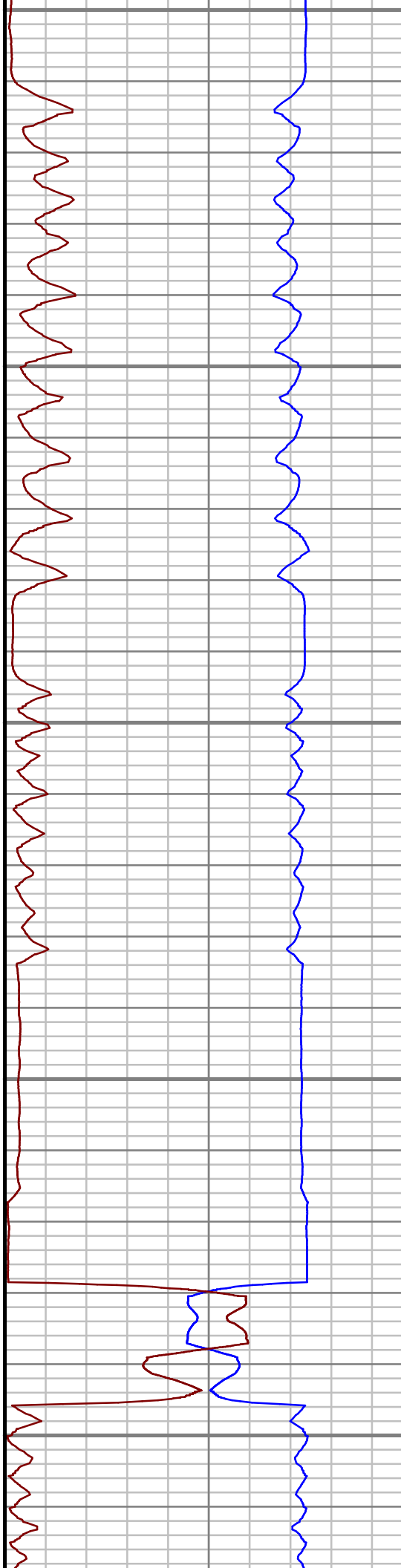
15100

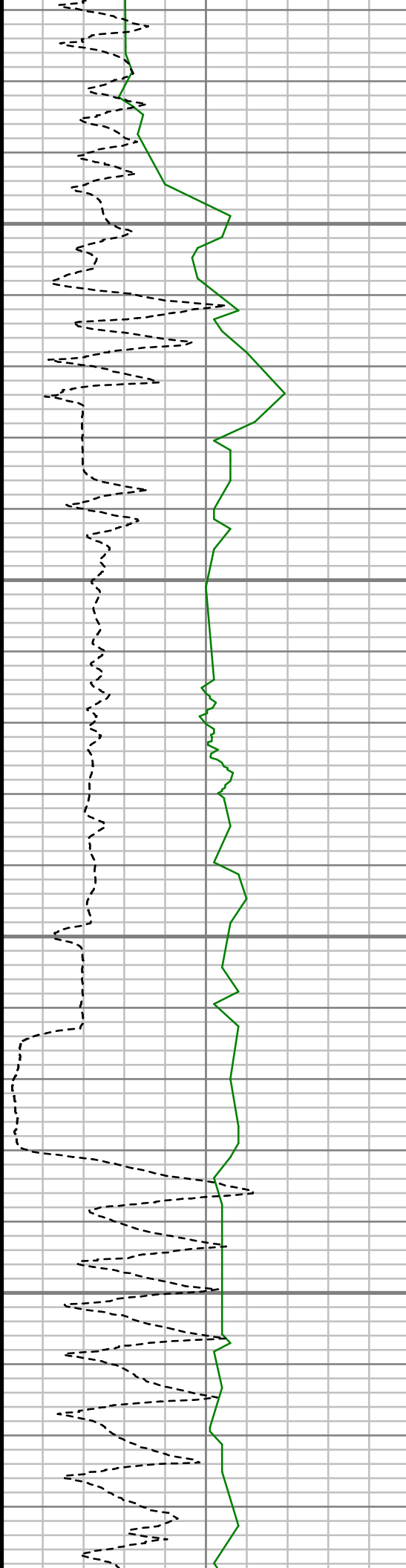
15150

S: 152 MD: 14965.00 ft Inc:  
90.33 deg Az: 88.39 deg TVD:  
6350.63 ft

S: 153 MD: 15056.00 ft Inc:  
91.31 deg Az: 89.35 deg TVD:  
6349.33 ft

S: 154 MD: 15148.00 ft Inc:  
89.26 deg Az: 89.28 deg TVD:  
6348.87 ft



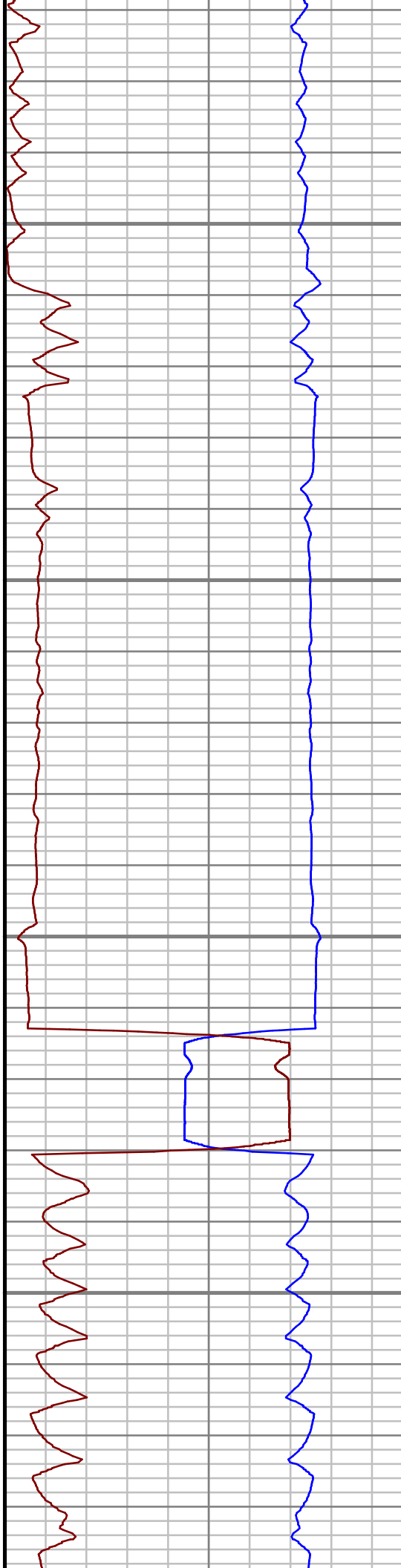


15200

15250

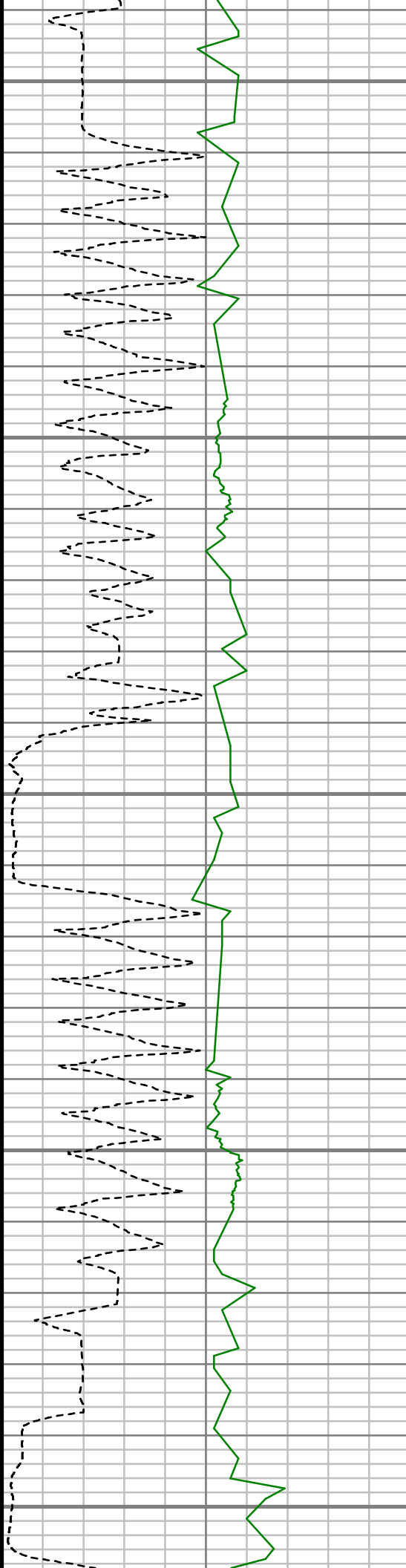
15300

15350



S: 155 MD: 15240.00 ft Inc:  
89.29 deg Az: 89.41 deg TVD:  
6350.03 ft

S: 156 MD: 15331.00 ft Inc:  
90.50 deg Az: 89.62 deg TVD:  
6350.20 ft



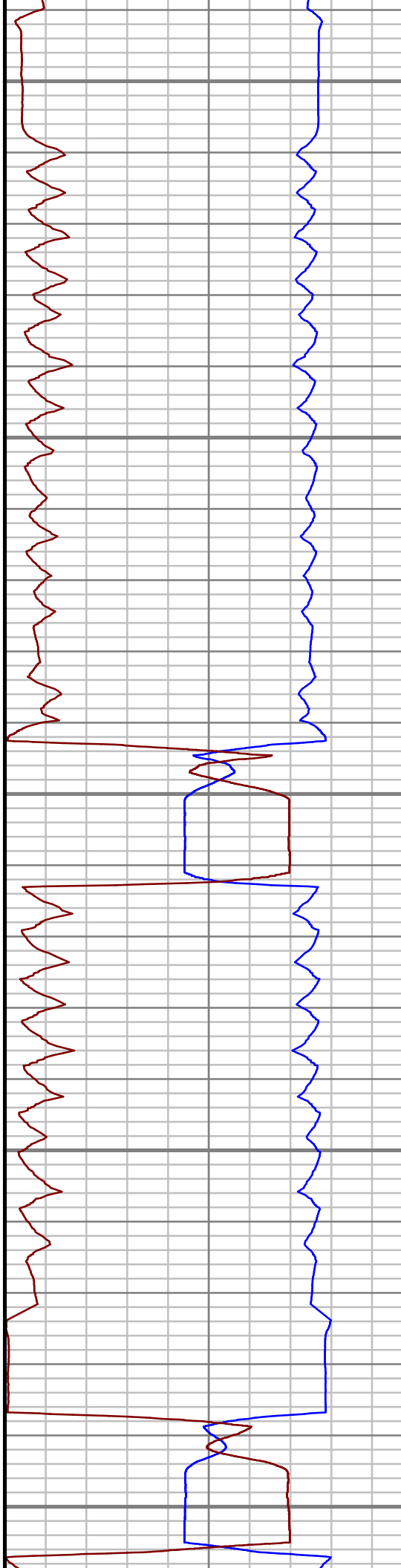
15400

15450

15500

15550

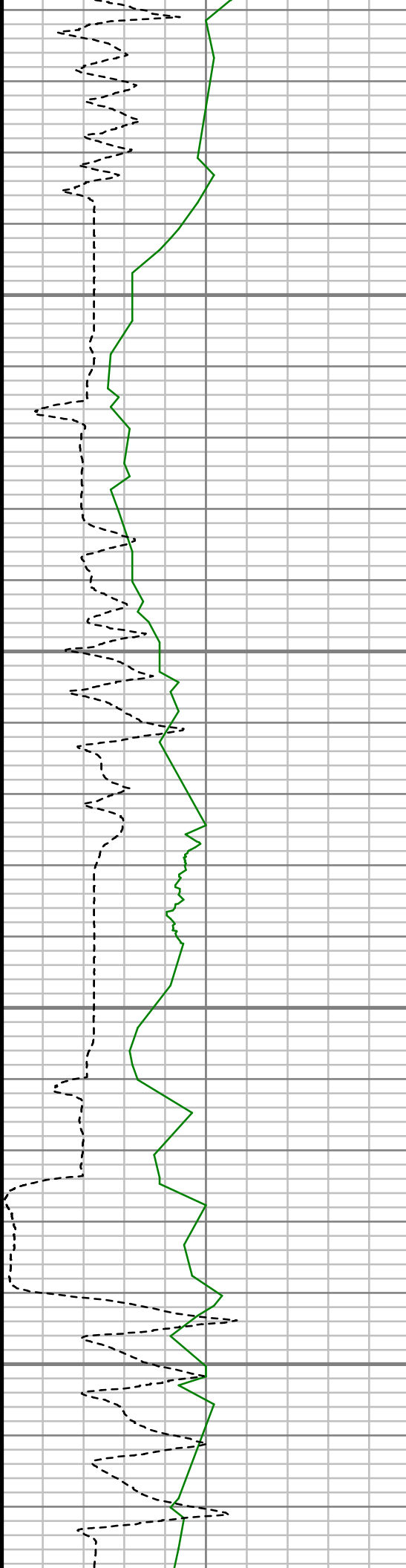
15600



S: 157 MD: 15422.00 ft Inc:  
90.54 deg Az: 90.75 deg TVD:  
6349.37 ft

S: 158 MD: 15514.00 ft Inc:  
90.84 deg Az: 90.21 deg TVD:  
6348.26 ft

S: 159 MD: 15606.00 ft Inc:

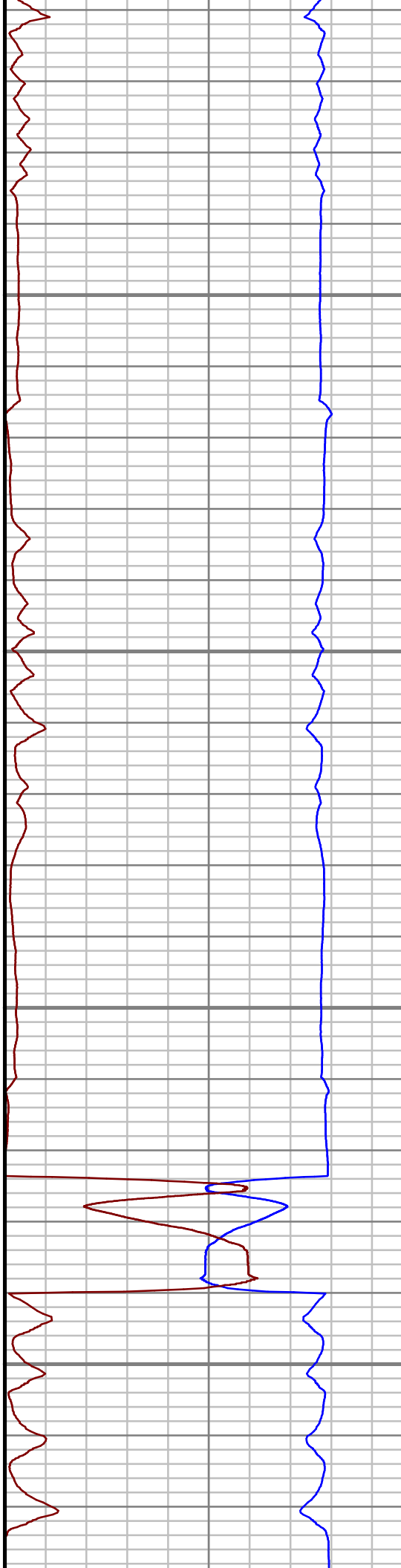


15650

15700

15750

15800



91.64 deg Az: 88.14 deg TVD:  
6346.27 ft

S: 160 MD: 15701.00 ft Inc:  
91.94 deg Az: 87.80 deg TVD:  
6343.30 ft

S: 161 MD: 15795.00 ft Inc:  
90.10 deg Az: 87.33 deg TVD:  
6341.62 ft

15850

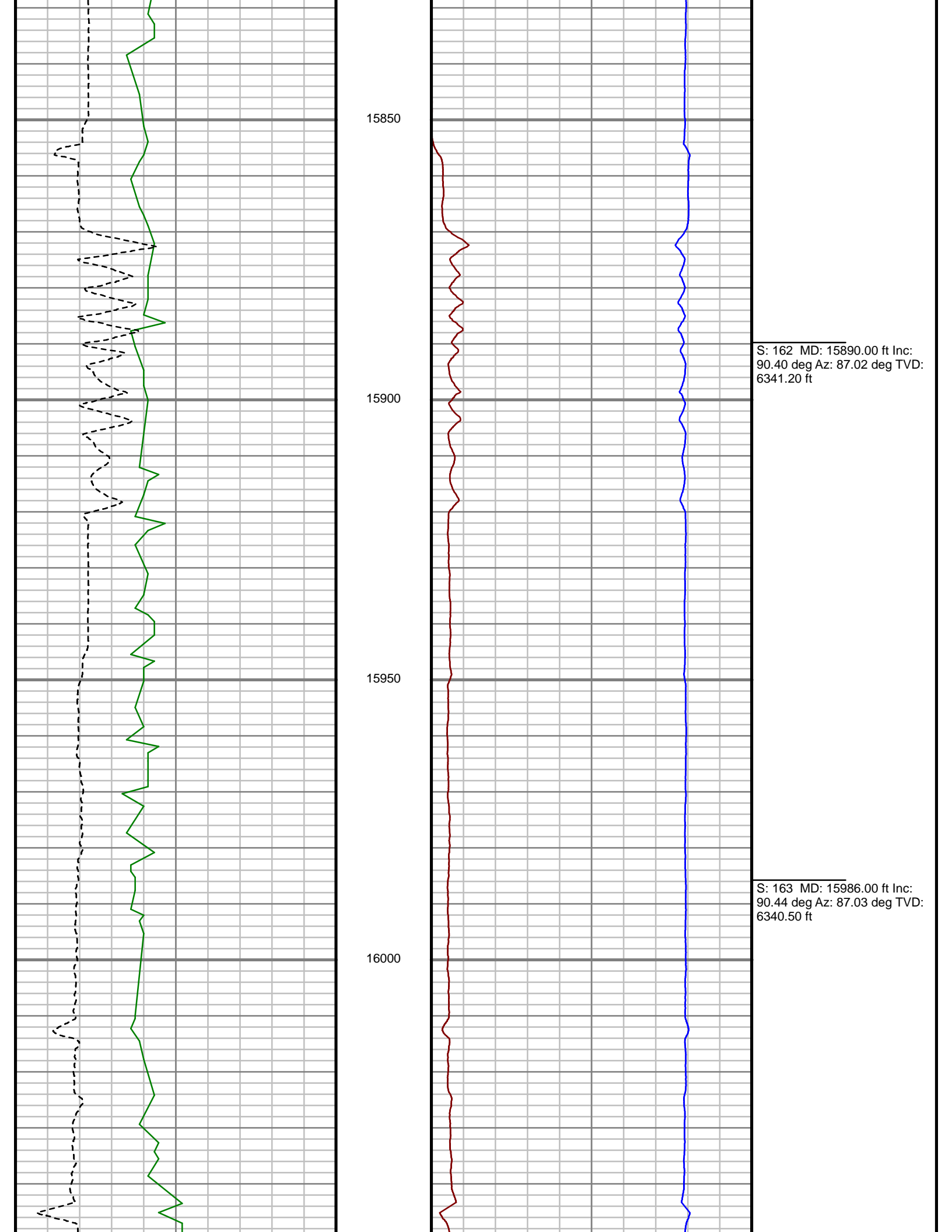
15900

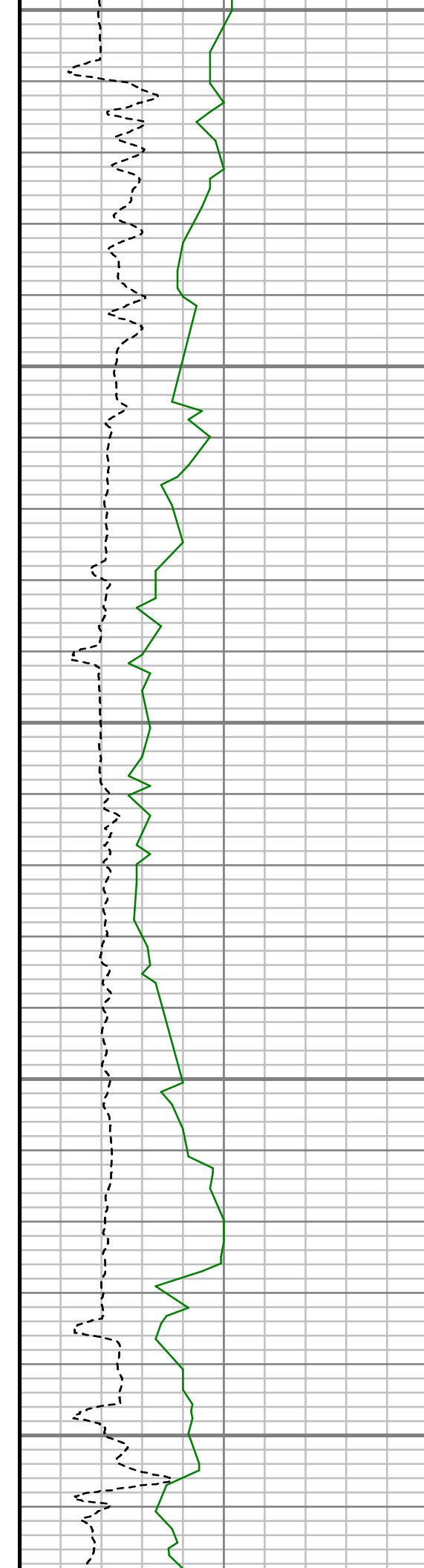
15950

16000

S: 162 MD: 15890.00 ft Inc:  
90.40 deg Az: 87.02 deg TVD:  
6341.20 ft

S: 163 MD: 15986.00 ft Inc:  
90.44 deg Az: 87.03 deg TVD:  
6340.50 ft





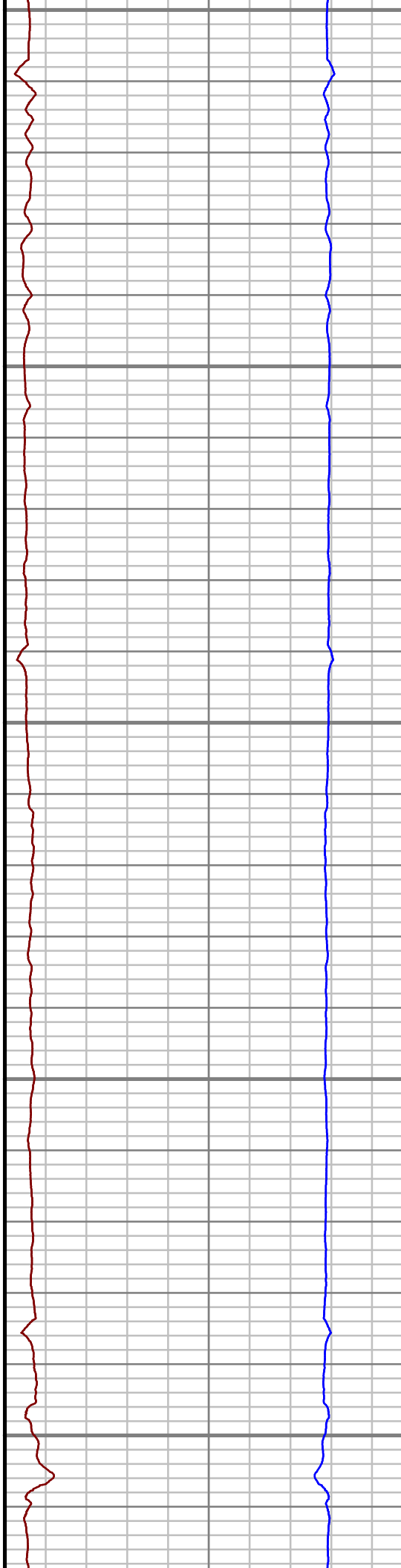
16050

16100

16150

16200

16250



S: 164 MD: 16080.00 ft Inc:  
90.70 deg Az: 86.08 deg TVD:  
6339.57 ft

S: 165 MD: 16175.00 ft Inc:  
92.15 deg Az: 87.58 deg TVD:  
6337.20 ft

S: 166 MD: 16269.00 ft Inc:  
92.45 deg Az: 86.91 deg TVD:  
6333.43 ft

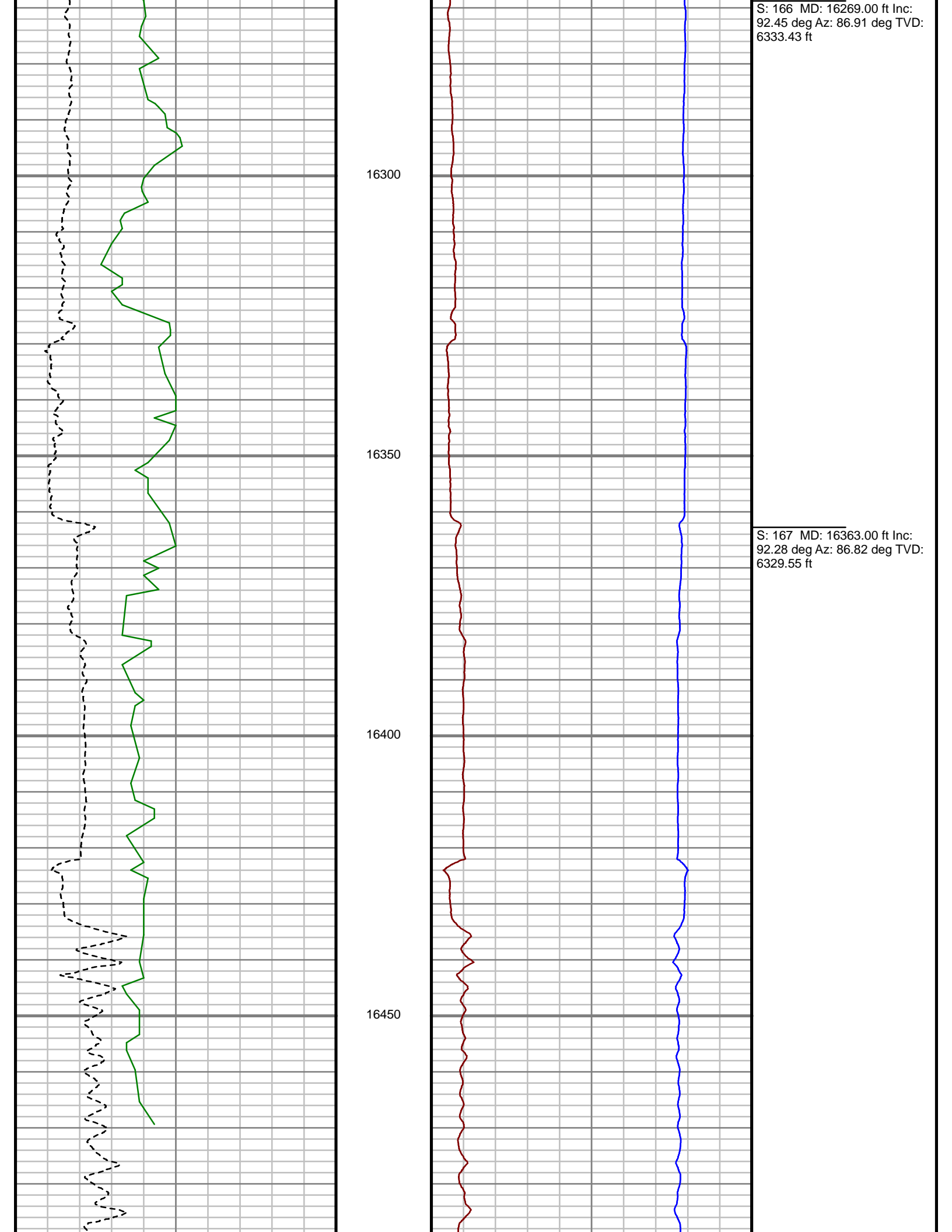
16300

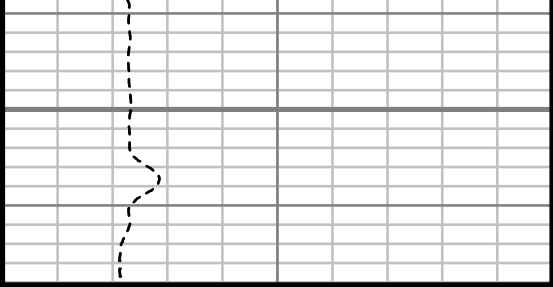
16350

16400

16450

S: 167 MD: 16363.00 ft Inc:  
92.28 deg Az: 86.82 deg TVD:  
6329.55 ft

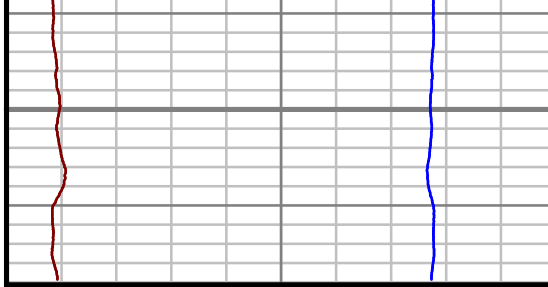




Rate of Penetration (ROP)		
0	Unit = ft/hr	1000
Gamma Ray (GR)		
0	Unit = aapi	150

16500

MEASURED DEPTH  
1:240 (ft)



Weight-on-Bit (surf,max) (WOBX)		
0	Unit = kip	100
Hookload (max) (HKLX)		
0	Unit = kip	200

Comments
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<b>Well Location</b>	ANSCHUTS 5-62-22-23 SWNW PAD
<b>Well Name</b>	ANSCHUTZ STATE 5-62-22-1609C2
<b>Survey Date</b>	9/22/2015
<b>Latitude</b>	40°23'13.560"N
<b>Longitude</b>	104°19'5.452"W
<b>Btotal</b>	52585 nT
<b>Dip</b>	66.95 deg
<b>Magnetic Declination</b>	8.17 deg
<b>North Reference</b>	True North
<b>Grid Correction</b>	None
<b>Depth Reference</b>	RKB (16.00 ft)
<b>Calculation Method</b>	Minimum Curvature
<b>Section (VS) Ref</b>	0.00N (ft), 0.00E (ft), 88.90Azim (deg)
<b>Operator(s)</b>	CODY CHRISTMAN, ZACK BROWN

**Well Notes**

<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
823.00	0.00	0.00	823.00	0.00	0.00	0.00	Invalid
886.00	0.42	260.45	886.00	-0.23	-0.04	-0.23	0.67
978.00	2.69	347.32	977.96	-1.00	2.02	-1.03	2.94
1069.00	3.64	344.11	1068.82	-2.16	6.88	-2.29	1.05
1161.00	4.53	334.25	1160.59	-4.42	12.96	-4.67	1.23
1253.00	6.51	334.69	1252.16	-8.08	20.95	-8.48	2.15
1344.00	7.82	334.17	1342.45	-12.79	31.19	-13.39	1.43
1435.00	9.54	334.04	1432.40	-18.55	43.55	-19.39	1.90
1527.00	11.22	333.10	1522.89	-25.65	58.39	-26.78	1.83
1618.00	11.55	331.40	1612.10	-33.71	74.28	-35.14	0.51
1710.00	11.37	332.32	1702.27	-42.02	90.40	-43.76	0.27
1801.00	10.80	333.53	1791.57	-49.69	105.97	-51.73	0.67
1892.00	10.79	332.53	1880.96	-57.12	121.16	-59.46	0.21
1984.00	10.21	333.20	1971.42	-64.48	136.08	-67.11	0.64
2076.00	10.25	336.20	2061.96	-71.18	150.85	-74.09	0.58
2168.00	11.22	337.98	2152.34	-77.53	166.64	-80.75	1.11
2260.00	11.36	337.48	2242.57	-84.04	183.30	-87.57	0.19
2351.00	10.47	336.15	2331.92	-90.51	199.14	-94.35	1.02
2447.00	10.86	334.68	2426.26	-97.59	215.29	-101.74	0.50
2541.00	10.33	334.05	2518.66	-104.77	230.87	-109.22	0.57

<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
2635.00	11.15	333.99	2611.01	-112.14	246.62	-116.89	0.86
2730.00	11.08	332.22	2704.23	-120.10	262.95	-125.17	0.37
2825.00	10.83	331.13	2797.50	-128.36	278.83	-133.74	0.34
2919.00	11.26	327.33	2889.76	-137.28	294.29	-142.95	0.90
3013.00	10.29	331.94	2982.10	-145.89	309.43	-151.86	1.38
3108.00	10.37	336.23	3075.56	-153.03	324.75	-159.30	0.81
3202.00	9.53	339.34	3168.15	-158.90	339.78	-165.45	1.06
3296.00	9.18	338.40	3260.90	-164.13	354.03	-170.96	0.41
3391.00	9.25	334.34	3354.67	-169.96	367.96	-177.06	0.69
3485.00	10.46	333.31	3447.28	-176.79	382.39	-184.16	1.30
3580.00	11.52	333.06	3540.54	-184.64	398.55	-192.33	1.12
3674.00	12.29	331.85	3632.52	-193.28	415.74	-201.30	0.86
3768.00	11.82	335.30	3724.45	-201.69	433.30	-210.04	0.92
3862.00	11.95	336.06	3816.43	-209.32	450.94	-218.02	0.22
3957.00	11.52	332.64	3909.45	-217.33	468.35	-226.37	0.86
4051.00	11.23	333.33	4001.60	-225.44	484.87	-234.79	0.33
4146.00	10.29	334.38	4094.93	-232.95	500.79	-242.61	1.01
4240.00	9.44	333.42	4187.54	-239.76	515.26	-249.69	0.92
4335.00	9.60	334.48	4281.23	-246.39	529.38	-256.60	0.25
4429.00	10.08	336.09	4373.85	-252.81	543.97	-263.31	0.59

<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
4523.00	9.95	335.23	4466.42	-259.26	558.86	-270.04	0.21
4617.00	10.29	334.57	4558.95	-265.98	573.82	-277.05	0.37
4711.00	9.71	333.12	4651.53	-272.89	588.47	-284.24	0.67
4805.00	9.66	335.19	4744.19	-279.51	602.69	-291.13	0.37
4901.00	9.54	332.52	4838.84	-286.28	617.06	-298.18	0.48
4995.00	8.82	330.92	4931.64	-293.12	630.26	-305.28	0.81
5090.00	7.64	336.04	5025.66	-298.99	642.40	-311.38	1.45
5184.00	5.93	337.29	5119.00	-303.21	652.59	-315.79	1.83
5278.00	4.20	345.25	5212.63	-305.81	660.40	-318.55	1.98
5372.00	2.71	356.56	5306.46	-306.71	665.95	-319.56	1.74
5467.00	1.34	323.24	5401.40	-307.45	669.08	-320.36	1.84
5561.00	0.74	316.28	5495.38	-308.50	670.40	-321.43	0.65
5655.00	0.84	336.79	5589.37	-309.17	671.47	-322.12	0.32
5749.00	0.33	343.14	5683.37	-309.50	672.36	-322.47	0.54
5843.00	0.51	334.46	5777.37	-309.75	673.00	-322.73	0.20
5938.00	0.61	0.35	5872.36	-309.91	673.89	-322.91	0.28
6032.00	5.09	84.91	5966.23	-305.74	674.75	-318.75	5.39
6126.00	12.59	87.46	6059.05	-291.31	675.58	-304.34	7.99
6221.00	23.77	90.99	6149.17	-261.74	675.71	-274.76	11.82
6315.00	37.78	90.82	6229.73	-213.79	674.97	-226.79	14.91

<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
6410.00	47.17	94.39	6299.73	-149.88	671.87	-162.81	10.19
6504.00	56.34	87.46	6357.91	-76.25	670.96	-89.15	11.34
6598.00	66.98	85.70	6402.46	6.29	675.95	-6.69	11.44
6692.00	79.68	85.84	6429.37	96.02	682.57	82.93	13.51
6753.00	87.02	89.57	6436.44	156.55	684.98	143.42	13.47
6888.00	91.71	91.76	6437.94	291.43	683.41	278.36	3.84
6983.00	91.48	90.22	6435.30	386.33	681.77	373.31	1.65
7077.00	91.95	90.10	6432.49	480.26	681.51	467.26	0.52
7171.00	90.50	89.69	6430.48	574.22	681.69	561.24	1.60
7265.00	90.74	89.29	6429.46	668.21	682.53	655.23	0.50
7360.00	90.67	89.36	6428.29	763.20	683.65	750.22	0.11
7454.00	91.01	90.18	6426.91	857.18	684.02	844.20	0.94
7549.00	90.50	89.55	6425.66	952.16	684.24	939.19	0.85
7643.00	90.30	89.56	6425.00	1046.15	684.97	1033.19	0.21
7737.00	90.34	89.86	6424.48	1140.14	685.45	1127.19	0.33
7832.00	90.47	89.61	6423.81	1235.13	685.89	1222.18	0.30
7926.00	91.14	90.00	6422.49	1329.10	686.20	1316.17	0.83
8021.00	90.24	88.19	6421.35	1424.09	687.71	1411.15	2.14
8116.00	90.10	88.36	6421.07	1519.09	690.57	1506.11	0.23
8211.00	90.20	87.80	6420.82	1614.07	693.76	1601.05	0.59

<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
8306.00	90.47	88.52	6420.26	1709.06	696.81	1696.00	0.80
8399.00	90.07	88.52	6419.82	1802.06	699.21	1788.97	0.43
8494.00	90.74	88.24	6419.16	1897.05	701.90	1883.93	0.77
8589.00	91.81	88.74	6417.04	1992.03	704.40	1978.87	1.25
8683.00	91.38	88.25	6414.42	2085.99	706.87	2072.80	0.70
8777.00	91.44	88.32	6412.11	2179.95	709.69	2166.73	0.11
8871.00	90.44	87.34	6410.57	2273.92	713.24	2260.65	1.49
8966.00	90.94	87.65	6409.43	2368.89	717.39	2355.55	0.62
9060.00	89.46	87.06	6409.10	2462.85	721.73	2449.44	1.70
9155.00	89.77	87.26	6409.74	2557.80	726.45	2544.33	0.38
9249.00	90.20	88.07	6409.77	2651.78	730.28	2638.25	0.98
9344.00	90.77	87.28	6408.96	2746.75	734.13	2733.16	1.03
9438.00	90.54	87.81	6407.89	2840.72	738.15	2827.07	0.62
9533.00	90.84	87.97	6406.74	2935.70	741.65	2922.00	0.36
9628.00	90.71	87.34	6405.46	3030.67	745.54	3016.91	0.68
9723.00	90.87	86.39	6404.16	3125.60	750.74	3111.76	1.01
9817.00	89.90	88.91	6403.52	3219.56	754.59	3205.67	2.87
9912.00	89.90	88.78	6403.69	3314.56	756.51	3300.65	0.14
10006.00	90.37	90.15	6403.47	3408.56	757.39	3394.64	1.55
10101.00	90.70	89.99	6402.58	3503.53	757.27	3489.64	0.39

<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
10195.00	90.67	90.08	6401.45	3597.51	757.21	3583.63	0.11
10289.00	90.97	90.02	6400.10	3691.48	757.13	3677.62	0.33
10384.00	91.18	90.49	6398.32	3786.43	756.71	3772.60	0.54
10476.00	91.91	90.42	6395.84	3878.37	755.98	3864.57	0.81
10567.00	90.94	90.71	6393.57	3969.30	755.09	3955.53	1.12
10658.00	91.07	88.65	6391.97	4060.27	755.60	4046.51	2.27
10750.00	89.50	89.62	6391.51	4152.27	756.98	4138.50	2.01
10842.00	89.09	90.73	6392.64	4244.23	756.70	4230.49	1.29
10933.00	90.24	91.09	6393.18	4335.17	755.25	4321.47	1.31
11025.00	90.44	91.51	6392.64	4427.09	753.17	4413.45	0.50
11116.00	90.37	89.66	6392.00	4518.05	752.25	4504.44	2.03
11208.00	89.97	88.98	6391.73	4610.04	753.34	4596.43	0.86
11300.00	90.70	87.70	6391.19	4702.03	756.00	4688.39	1.61
11391.00	90.54	86.34	6390.20	4792.98	760.73	4779.25	1.50
11483.00	90.17	87.09	6389.64	4884.91	766.00	4871.10	0.91
11575.00	90.67	85.75	6388.96	4976.82	771.74	4962.92	1.56
11666.00	89.87	86.42	6388.54	5067.71	777.95	5053.70	1.15
11758.00	90.24	86.39	6388.46	5159.62	783.71	5145.52	0.40
11849.00	90.17	87.44	6388.14	5250.56	788.61	5236.39	1.15
11941.00	89.97	87.14	6388.03	5342.53	792.95	5328.29	0.39

<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
12032.00	90.50	89.11	6387.66	5433.51	795.93	5419.23	2.25
12123.00	90.60	88.71	6386.78	5524.51	797.66	5510.21	0.45
12215.00	91.31	89.04	6385.24	5616.49	799.46	5602.18	0.85
12307.00	90.77	89.06	6383.57	5708.48	800.98	5694.15	0.58
12399.00	90.47	89.22	6382.57	5800.47	802.36	5786.14	0.37
12490.00	90.67	89.56	6381.67	5891.46	803.33	5877.13	0.44
12582.00	91.07	89.81	6380.27	5983.44	803.83	5969.11	0.51
12674.00	92.12	90.41	6377.70	6075.39	803.66	6061.08	1.30
12765.00	90.97	89.11	6375.25	6166.34	804.04	6152.04	1.90
12857.00	90.81	89.23	6373.82	6258.33	805.37	6244.02	0.22
12949.00	90.54	89.40	6372.75	6350.32	806.47	6336.00	0.35
13040.00	91.41	90.15	6371.20	6441.29	806.83	6426.99	1.26
13132.00	92.72	91.13	6367.89	6533.19	805.81	6518.92	1.77
13222.00	91.44	90.87	6364.62	6623.07	804.24	6608.85	1.44
13316.00	90.47	90.95	6363.05	6716.99	802.75	6702.82	1.04
13407.00	90.64	91.17	6362.17	6807.93	801.06	6793.80	0.31
13499.00	90.10	89.40	6361.58	6899.89	800.61	6885.79	2.01
13591.00	90.00	89.14	6361.50	6991.89	801.78	6977.78	0.31
13683.00	90.27	89.67	6361.28	7083.89	802.74	7069.78	0.65
13774.00	90.34	89.69	6360.80	7174.88	803.25	7160.78	0.08

<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
13865.00	91.68	89.73	6359.21	7265.85	803.70	7251.76	1.47
13957.00	91.21	89.39	6356.89	7357.82	804.41	7343.73	0.63
14048.00	90.54	88.17	6355.51	7448.80	806.36	7434.69	1.53
14139.00	90.77	88.74	6354.47	7539.79	808.82	7525.65	0.68
14231.00	89.77	87.83	6354.04	7631.79	811.57	7617.61	1.47
14323.00	90.47	88.48	6353.85	7723.78	814.53	7709.56	1.04
14415.00	90.54	89.14	6353.04	7815.77	816.44	7801.54	0.73
14506.00	90.13	89.22	6352.51	7906.77	817.75	7892.53	0.45
14598.00	89.90	90.08	6352.48	7998.76	818.31	7984.52	0.98
14690.00	90.23	90.34	6352.37	8090.74	817.97	8076.52	0.46
14781.00	90.44	91.74	6351.84	8181.67	816.32	8167.50	1.55
14873.00	90.37	88.76	6351.20	8273.63	815.92	8259.49	3.24
14965.00	90.33	88.39	6350.63	8365.63	818.22	8351.46	0.40
15056.00	91.31	89.35	6349.33	8456.62	820.01	8442.43	1.51
15148.00	89.26	89.28	6348.87	8548.61	821.11	8534.42	2.23
15240.00	89.29	89.41	6350.03	8640.60	822.16	8626.40	0.15
15331.00	90.50	89.62	6350.20	8731.59	822.93	8717.40	1.35
15422.00	90.54	90.75	6349.37	8822.56	822.63	8808.39	1.24
15514.00	90.84	90.21	6348.26	8914.52	821.86	8900.38	0.67
15606.00	91.64	88.14	6346.27	9006.49	823.18	8992.35	2.42

<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
15701.00	91.94	87.80	6343.30	9101.43	826.55	9087.24	0.47
15795.00	90.10	87.33	6341.62	9195.39	830.54	9181.14	2.02
15890.00	90.40	87.02	6341.20	9290.34	835.22	9276.02	0.46
15986.00	90.44	87.03	6340.50	9386.29	840.21	9371.89	0.04
16080.00	90.70	86.08	6339.57	9480.20	845.86	9465.71	1.05
16175.00	92.15	87.58	6337.20	9575.11	851.11	9560.53	2.19
16269.00	92.45	86.91	6333.43	9668.99	855.63	9654.35	0.78
16363.00	92.28	86.82	6329.55	9762.85	860.76	9748.13	0.20



GAMMA RAY

5" = 100' FEET MD