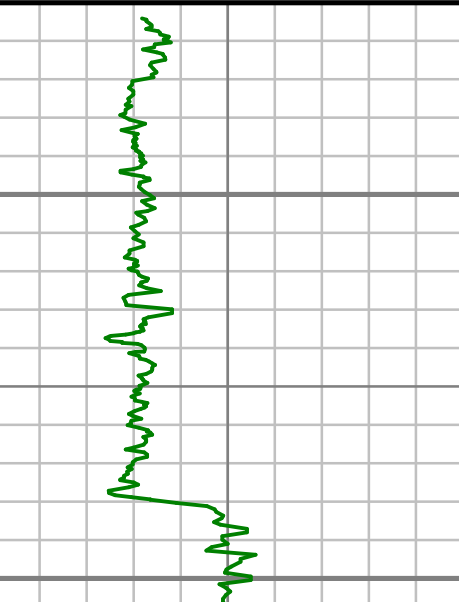

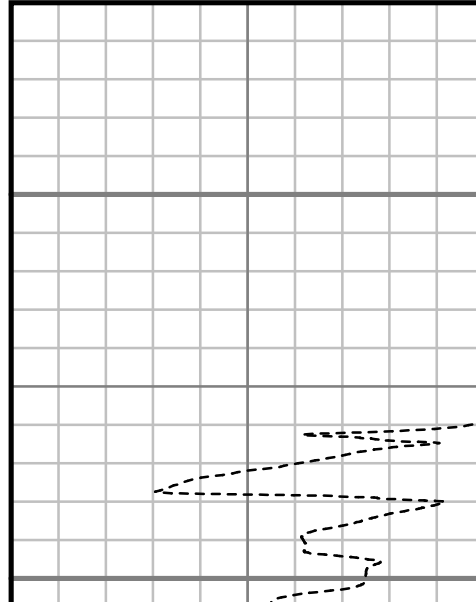
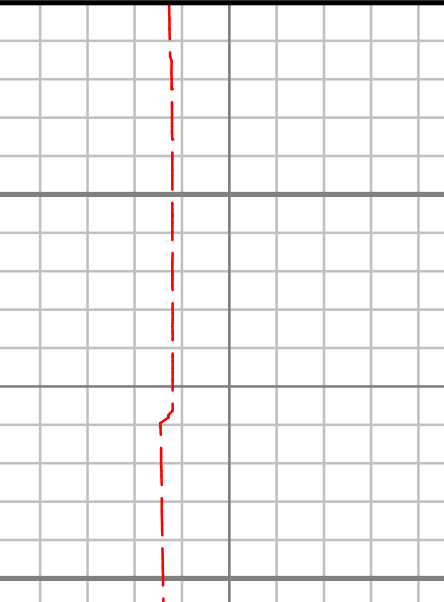


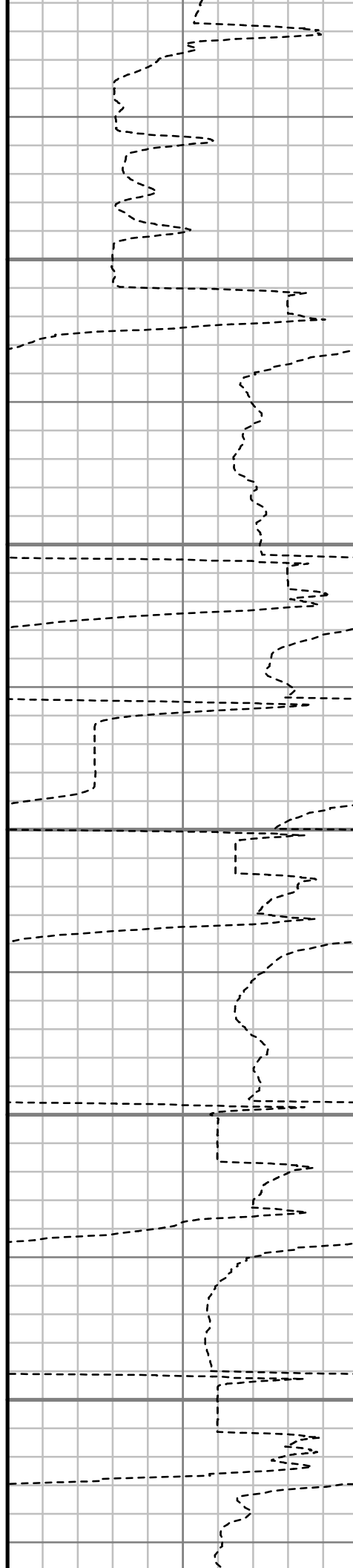
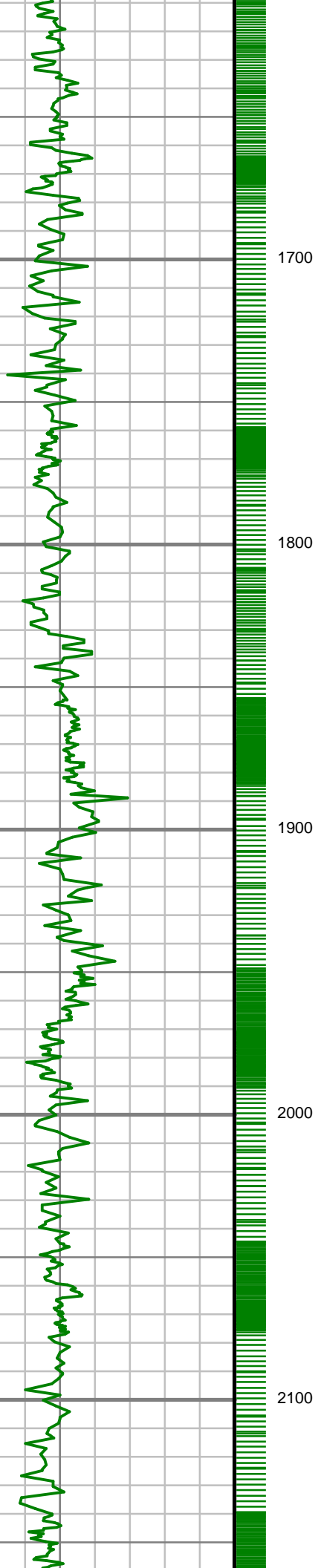


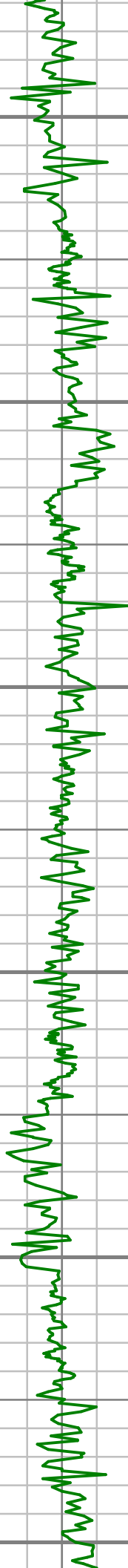
[illegible]

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.

EXTRACTION OIL & GAS  
WINDER SOUTH 4, WATTENBURG FIELD  
WELD COUNTY, CO  
05-123-43400

| Gamma Ray (GR)   | MEASURED DEPTH<br>1:600 (ft)  | Rate of Penetration (ROP)  | Tool Temperature (T-TEMP)   |
|--|---|--|---|
| Unit = aapi  |   | Unit = ft/hr   | Unit = °F   |
|  |  |  |  |





2200

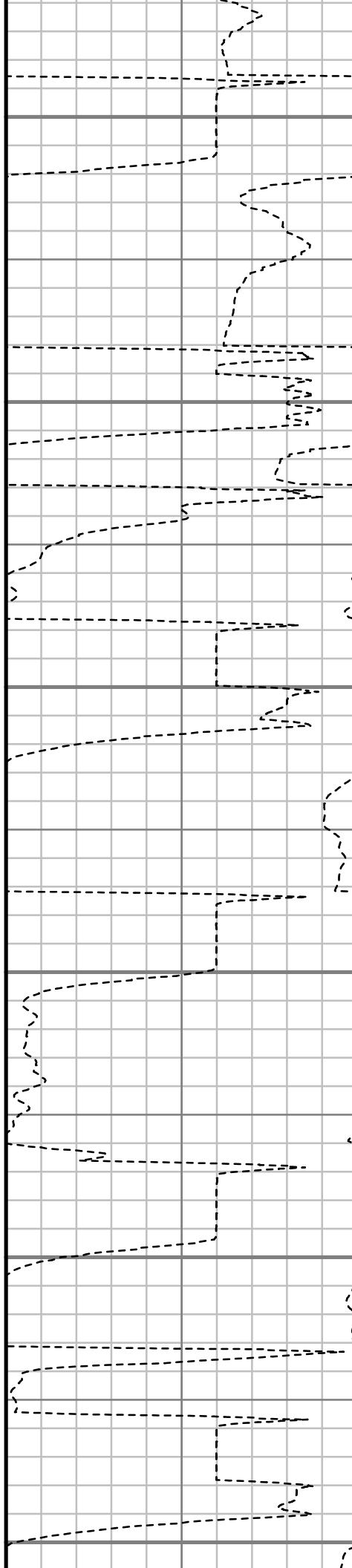
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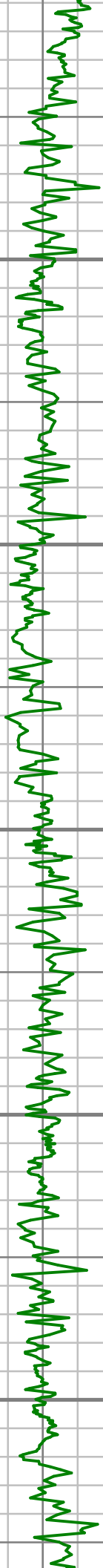
2400

2500

2600

2700





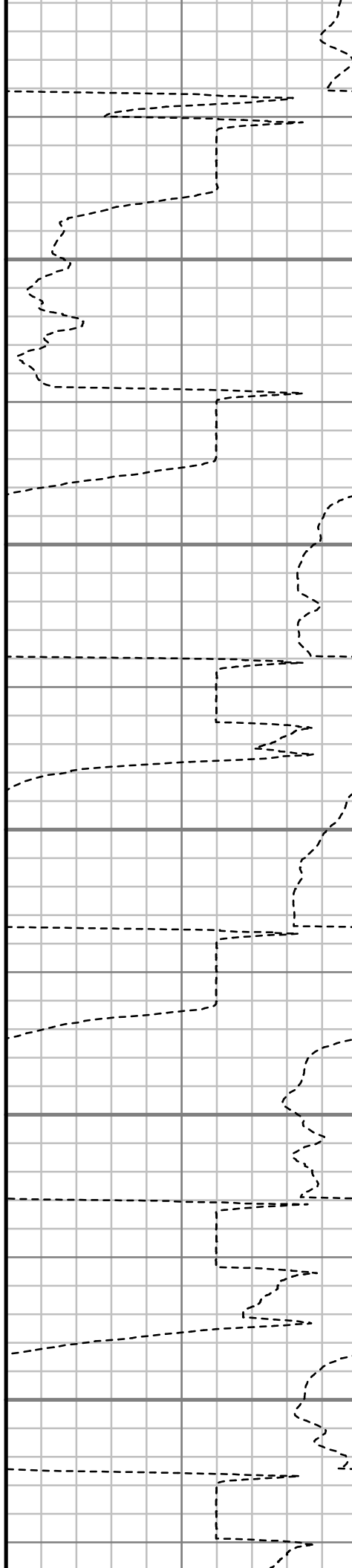
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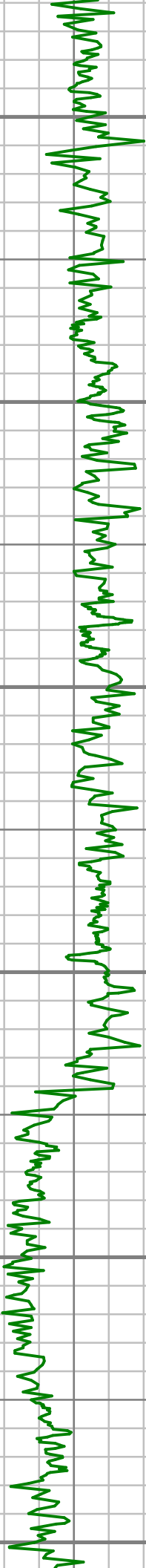
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3000

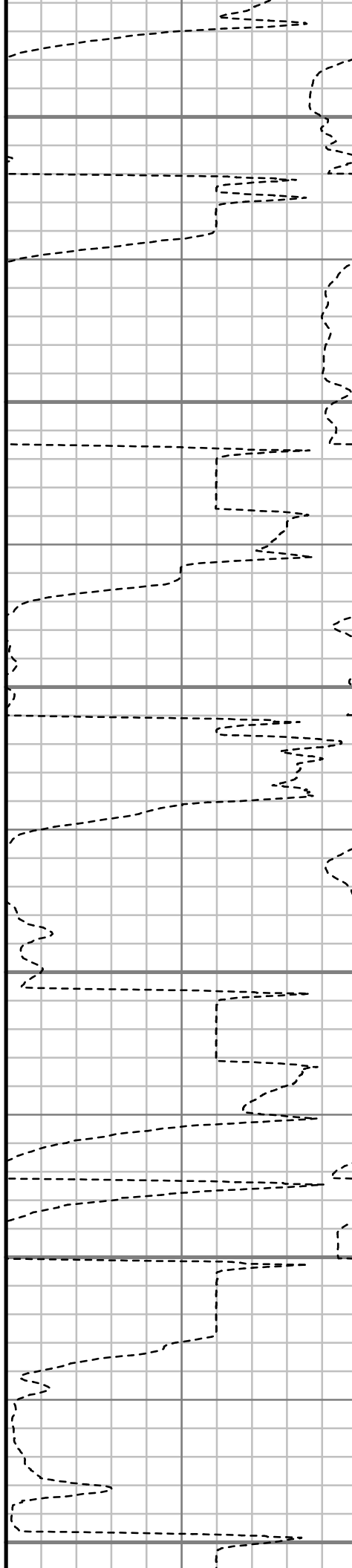
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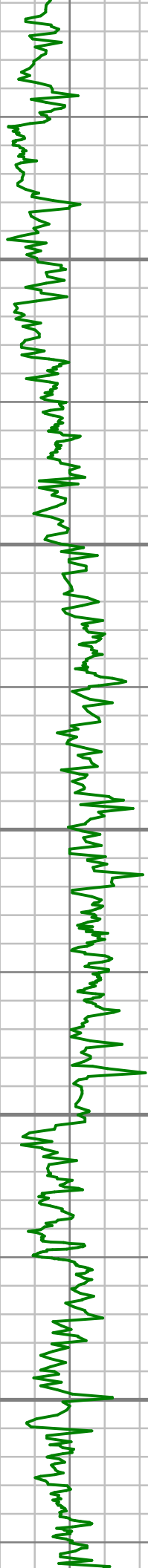
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3300  
3400  
3500  
3600  
3700  
3800





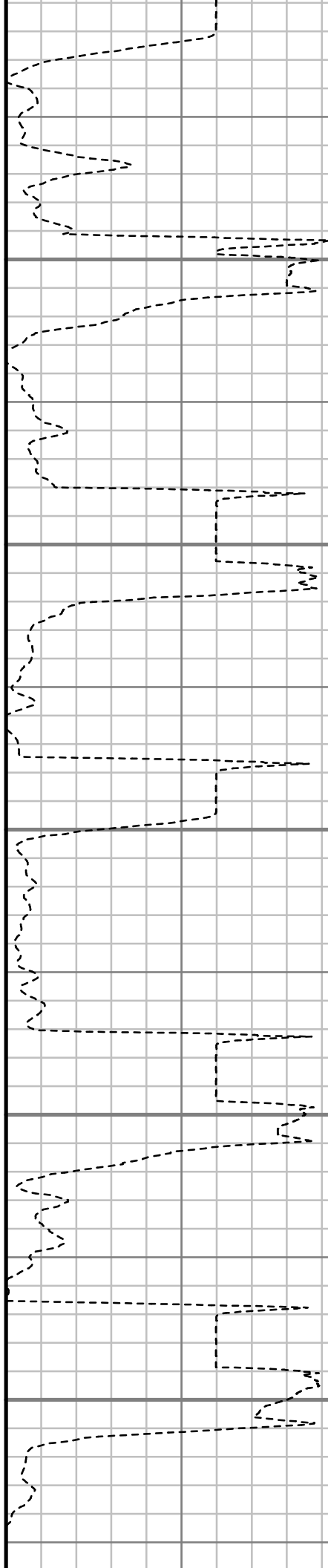
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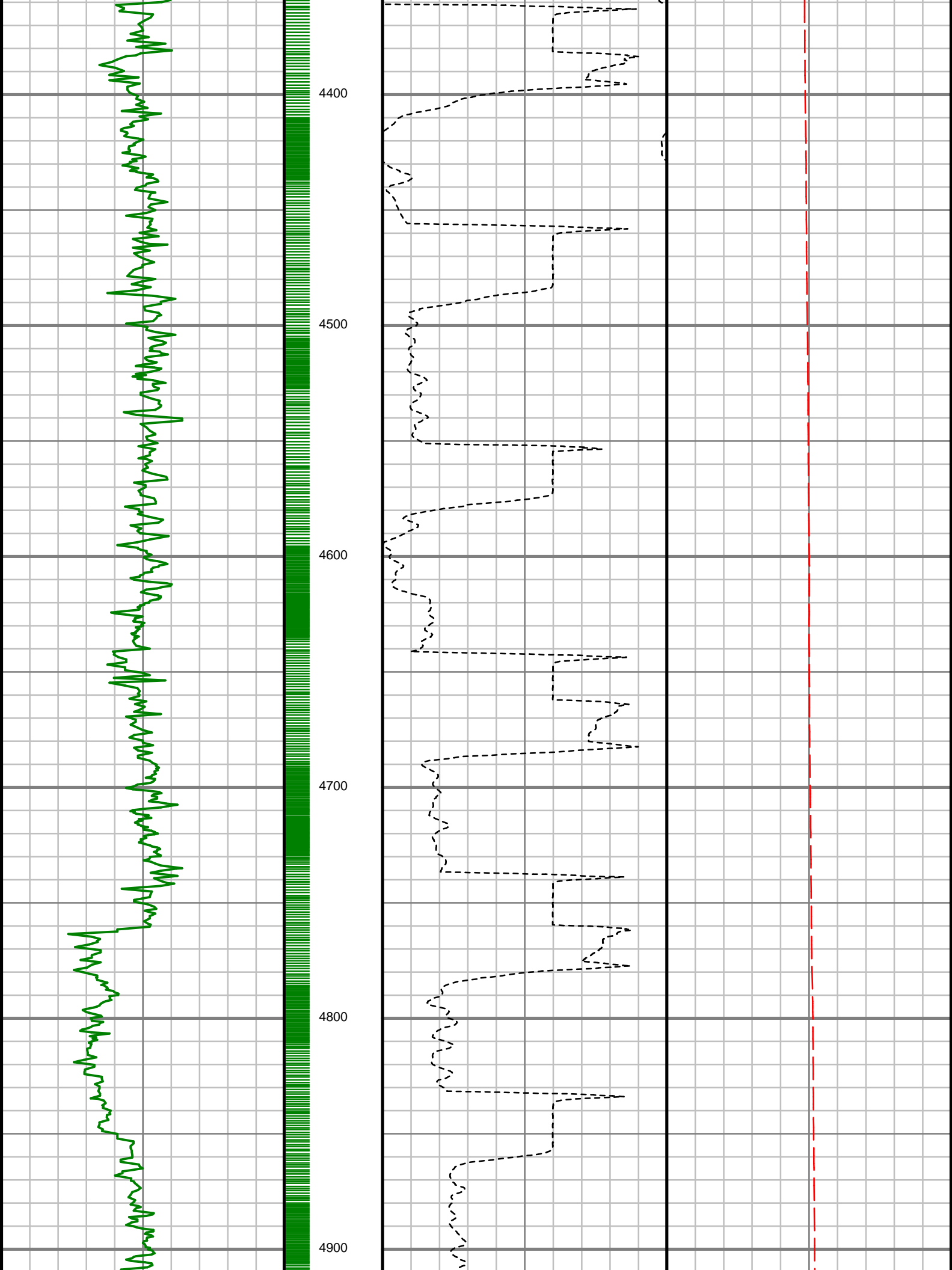
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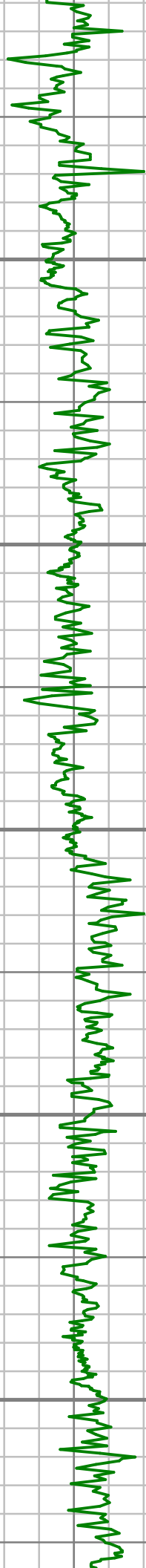
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4300









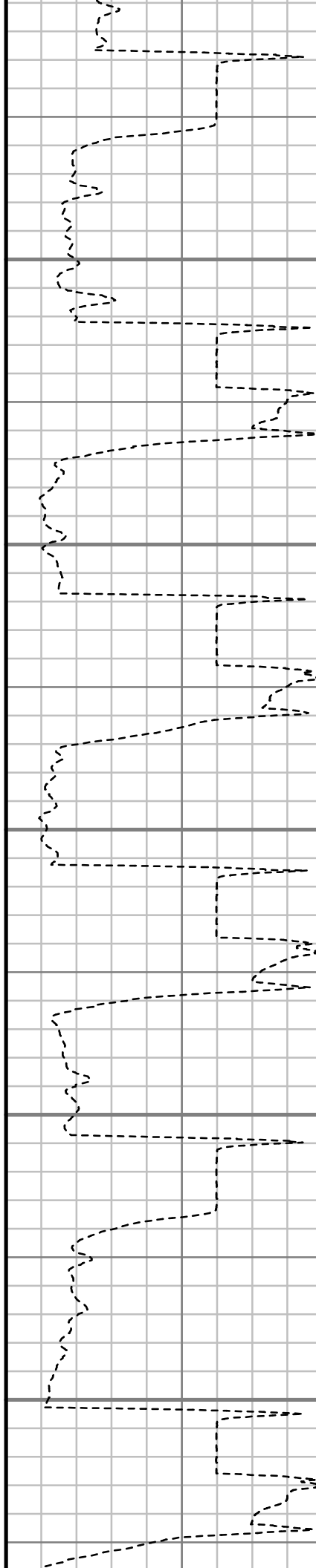
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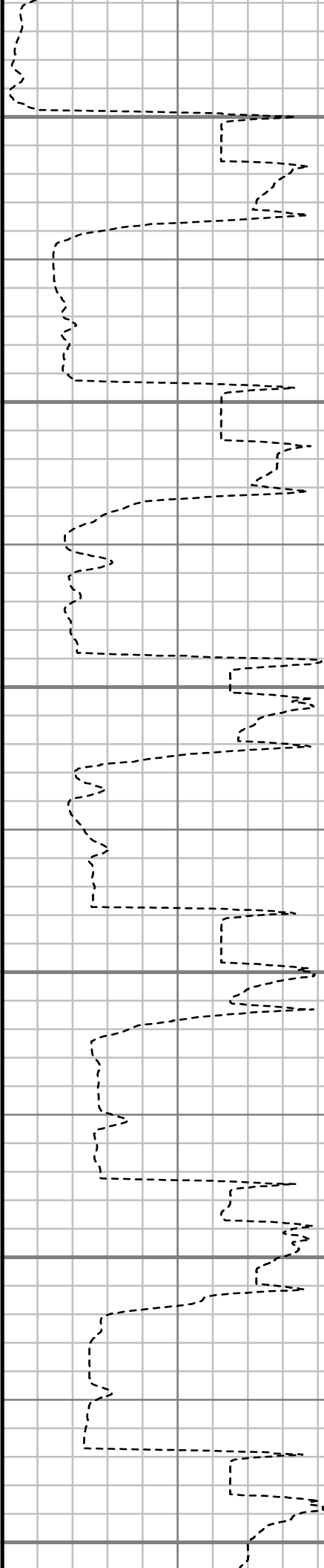
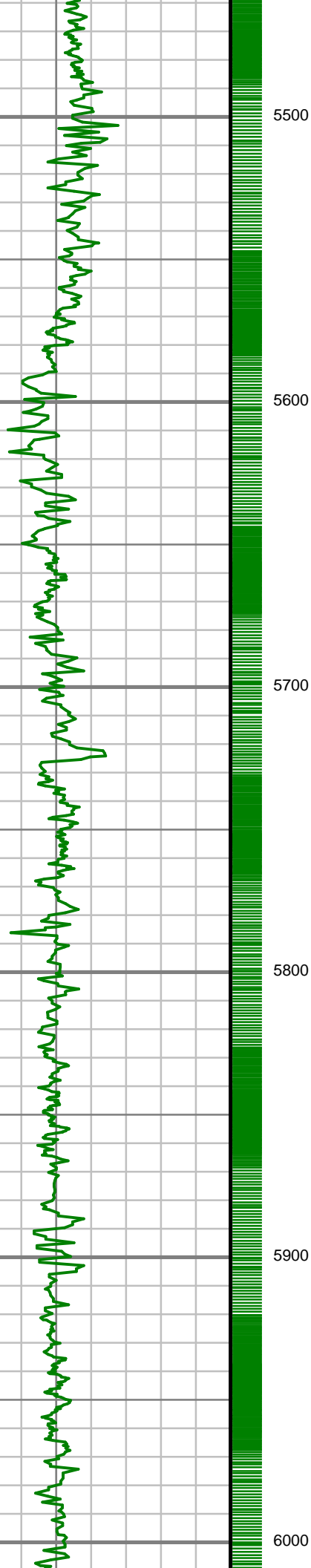
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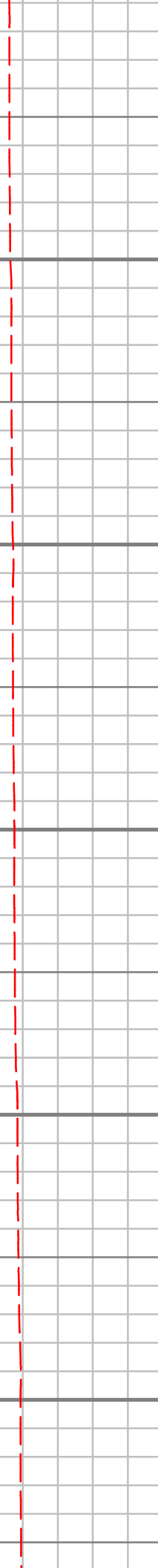
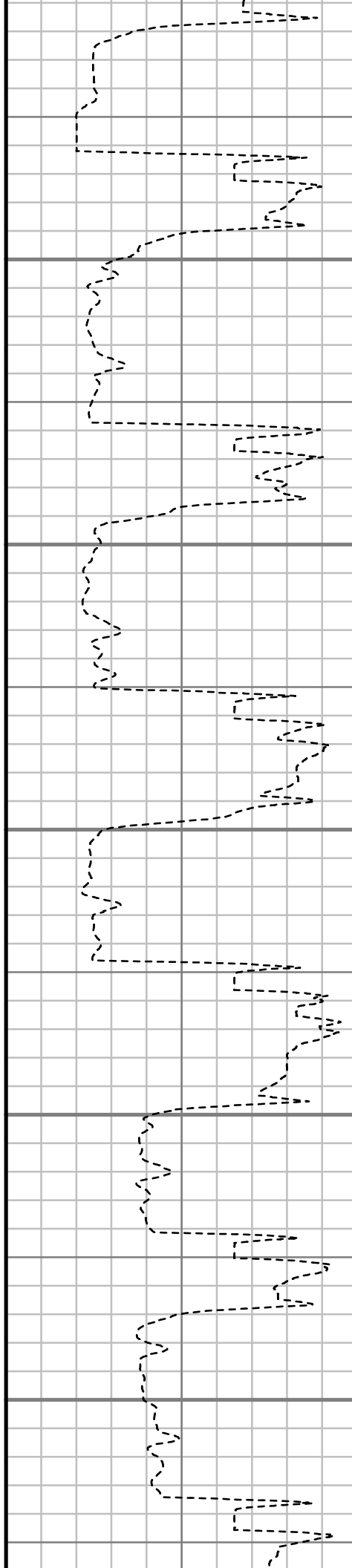
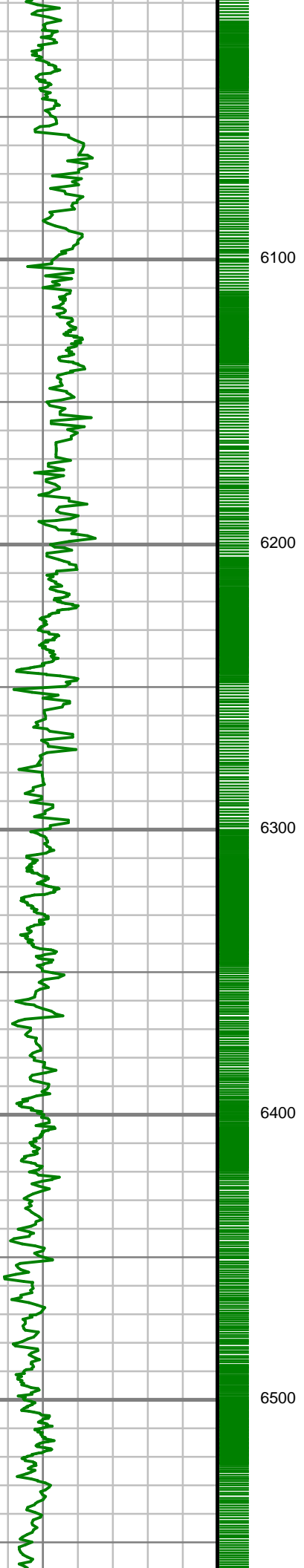
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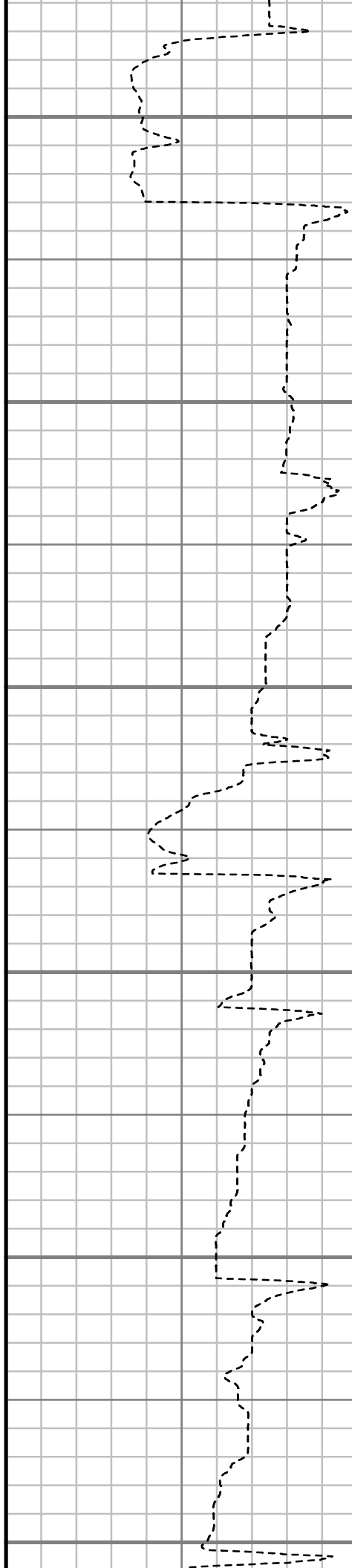
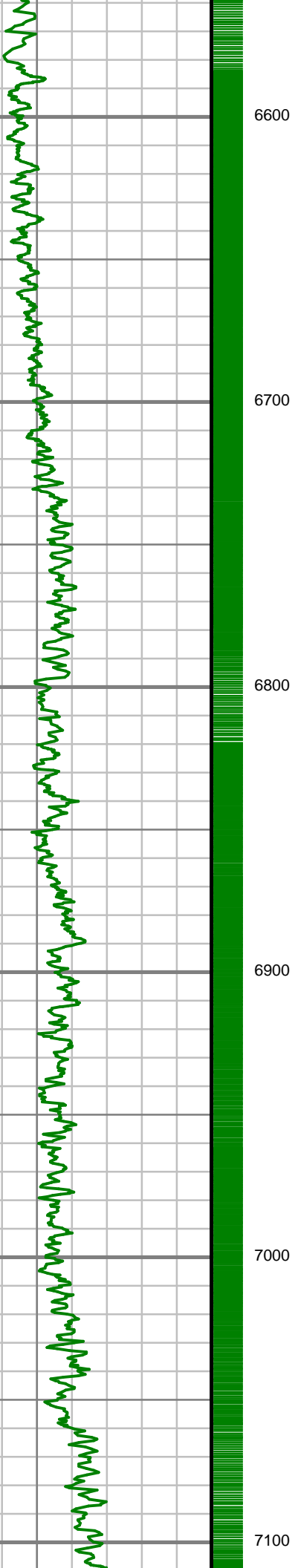
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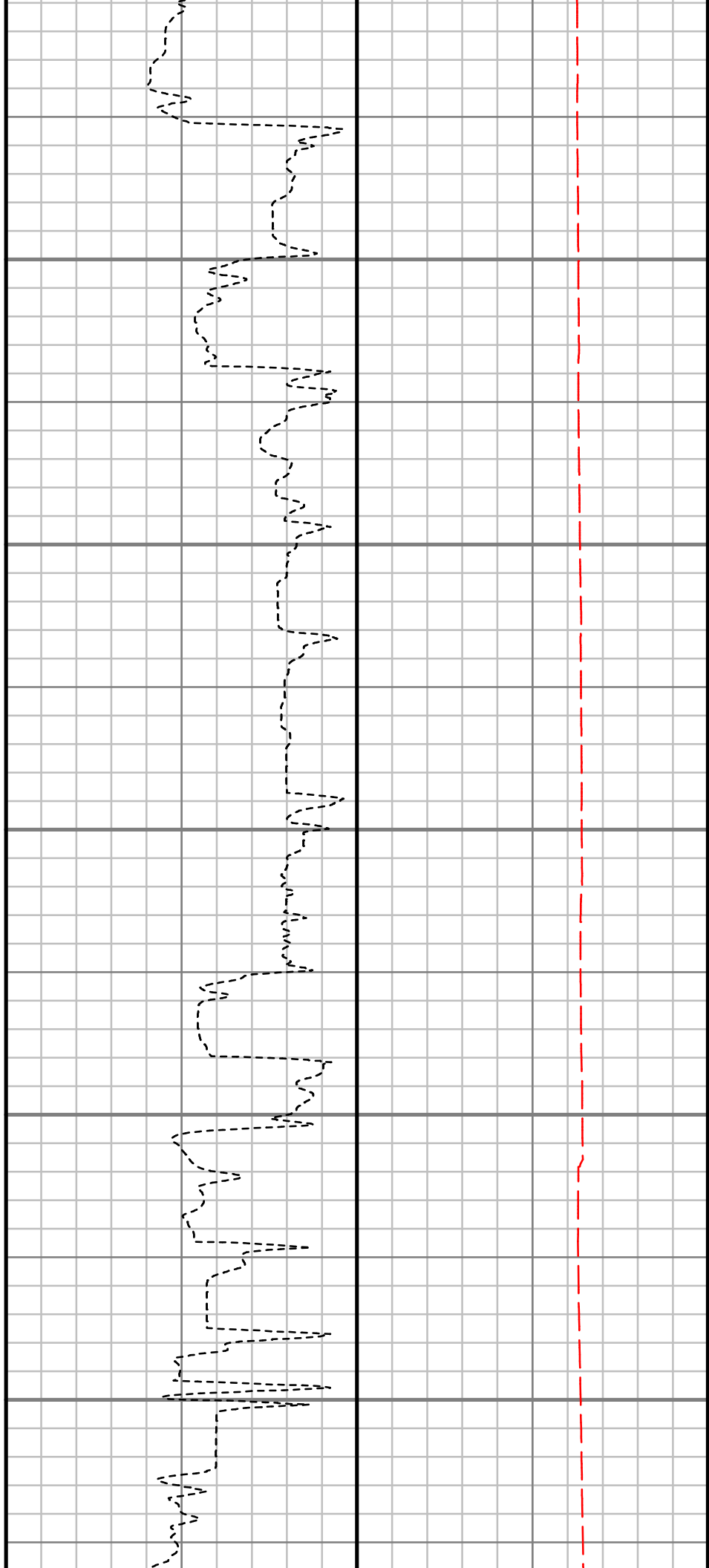
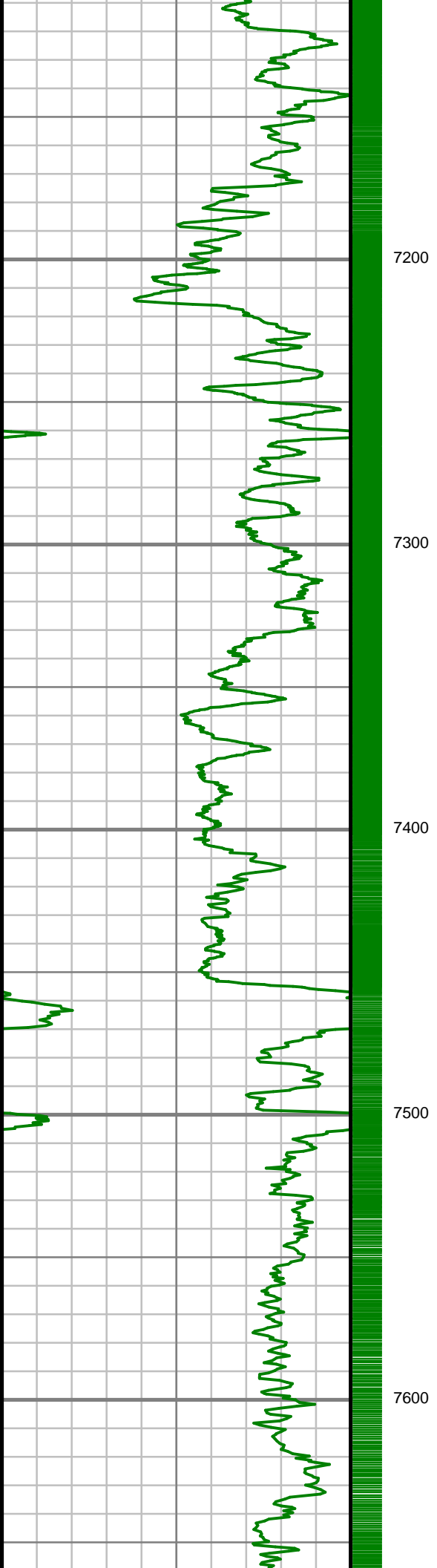
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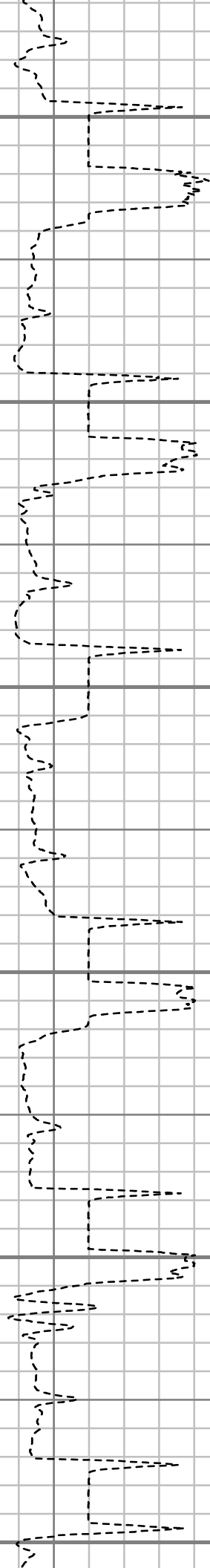
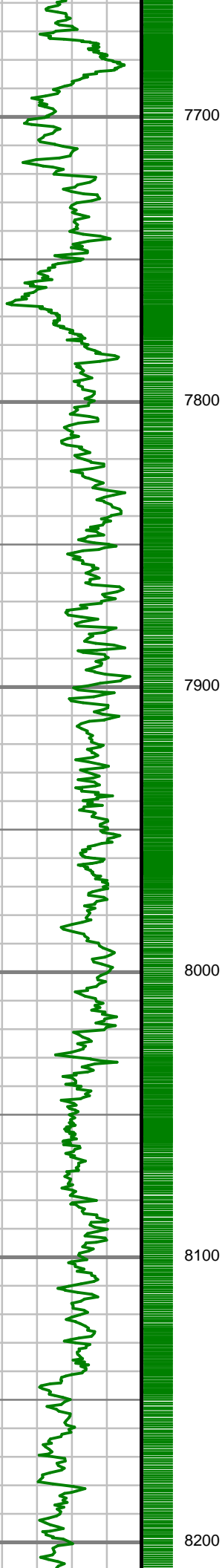


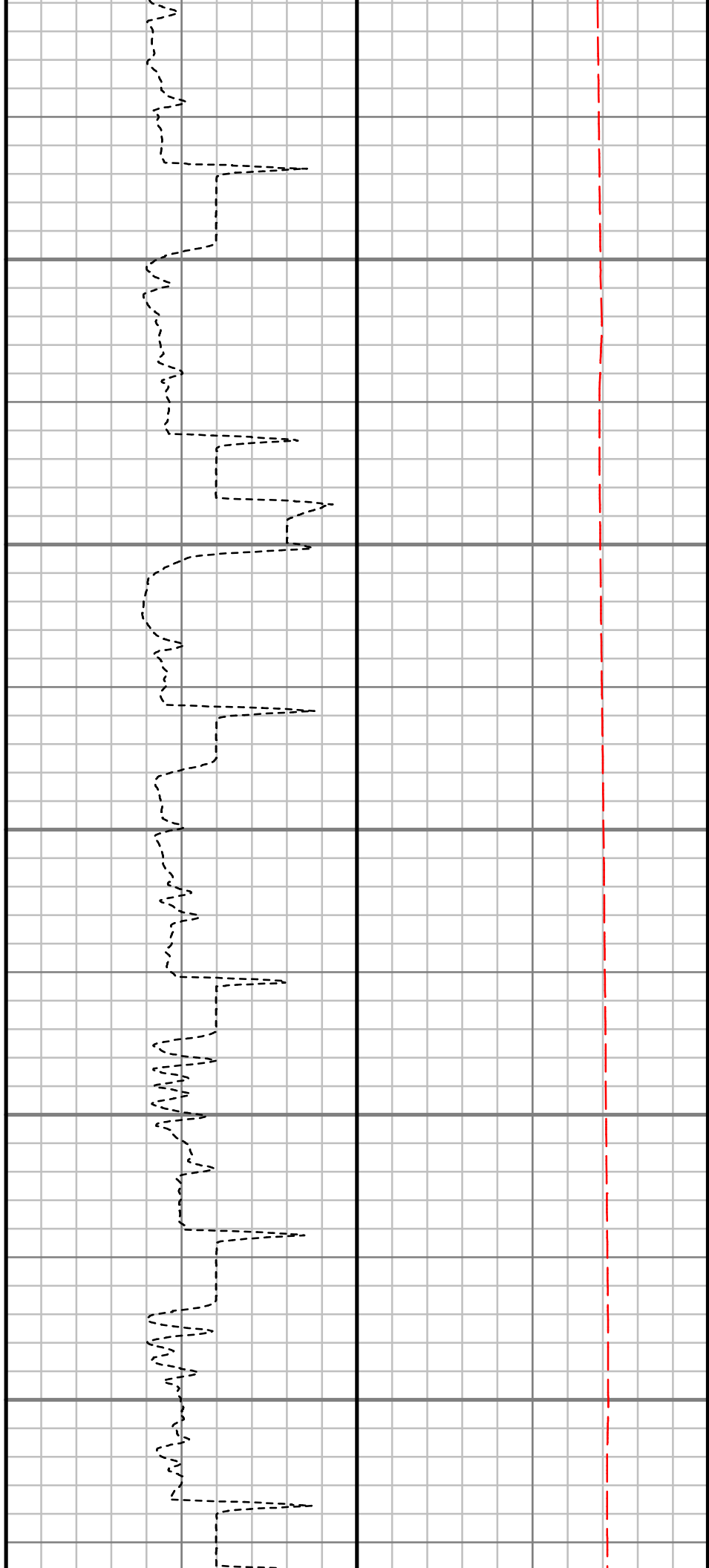
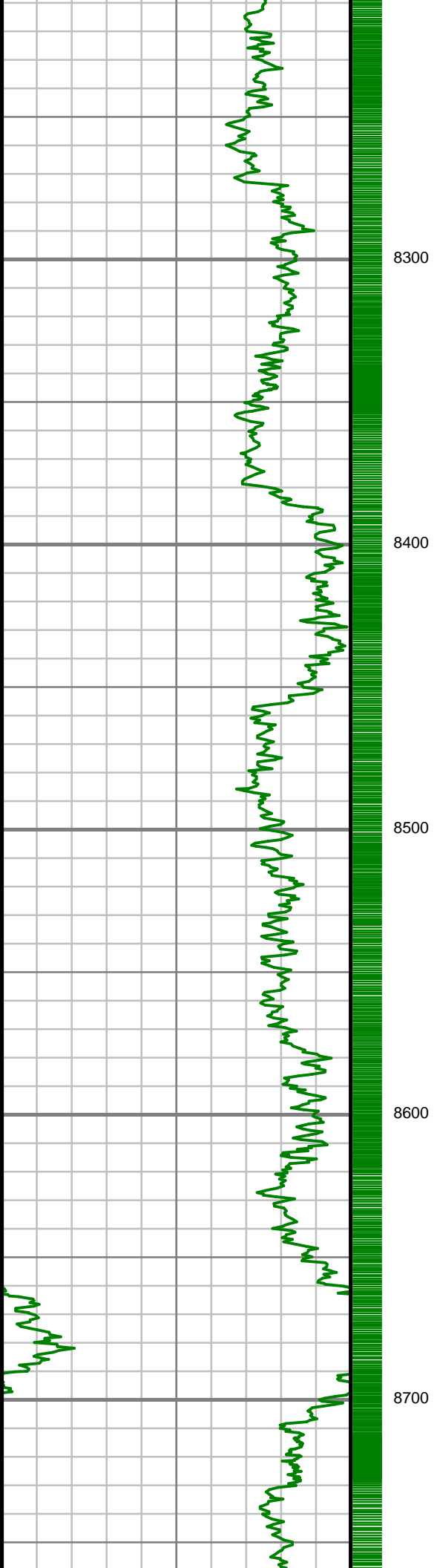


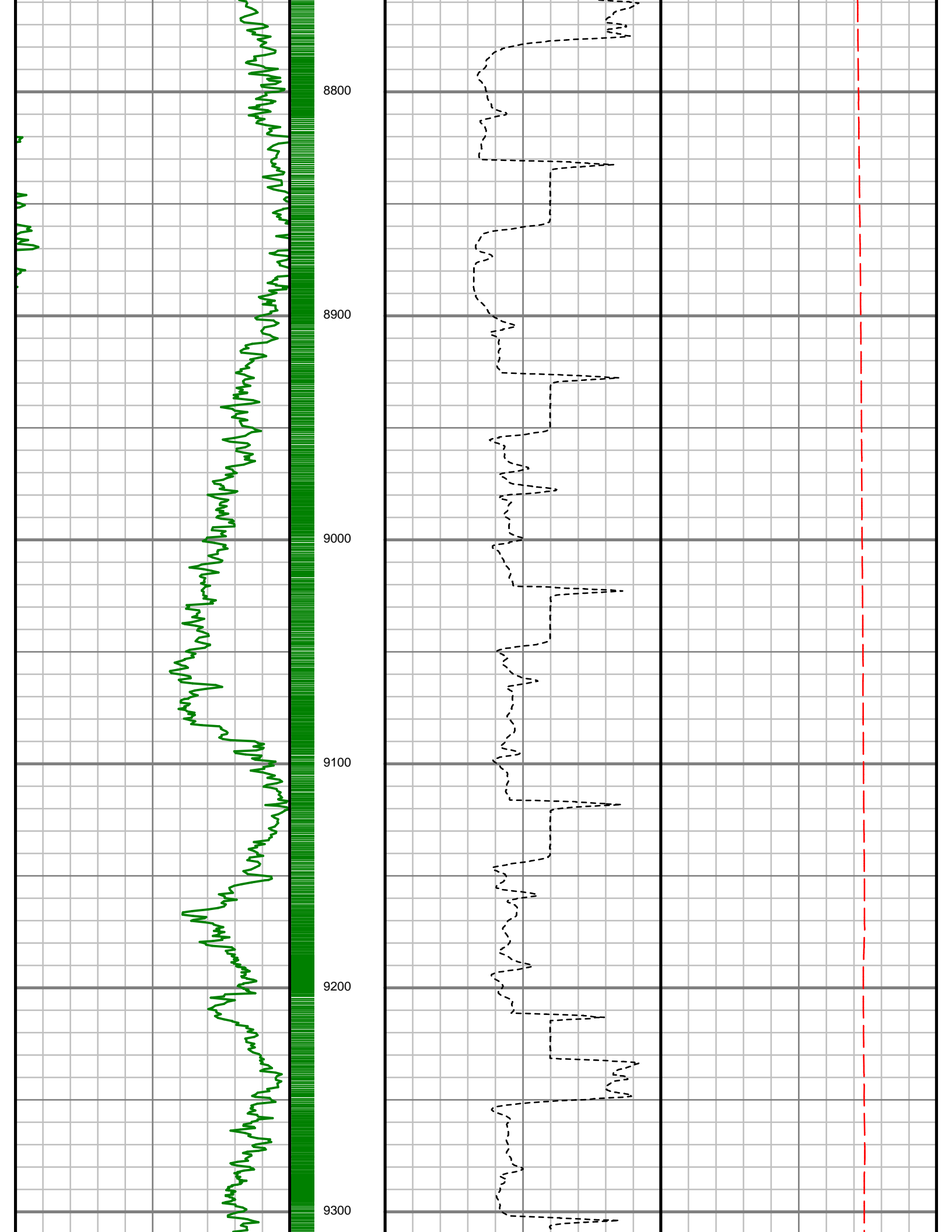




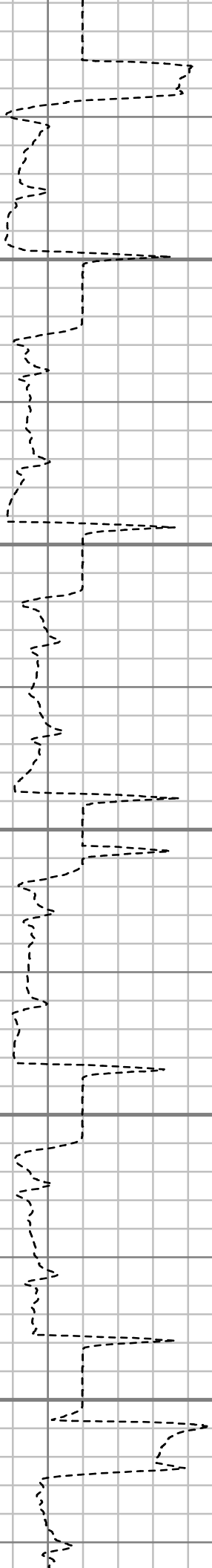
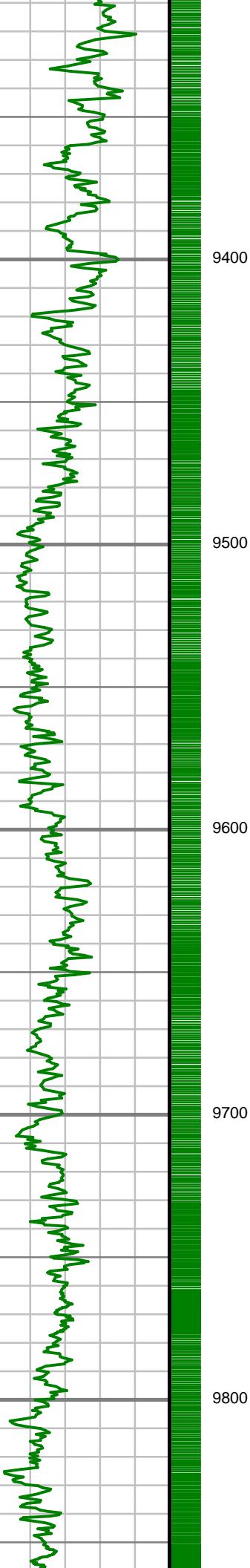


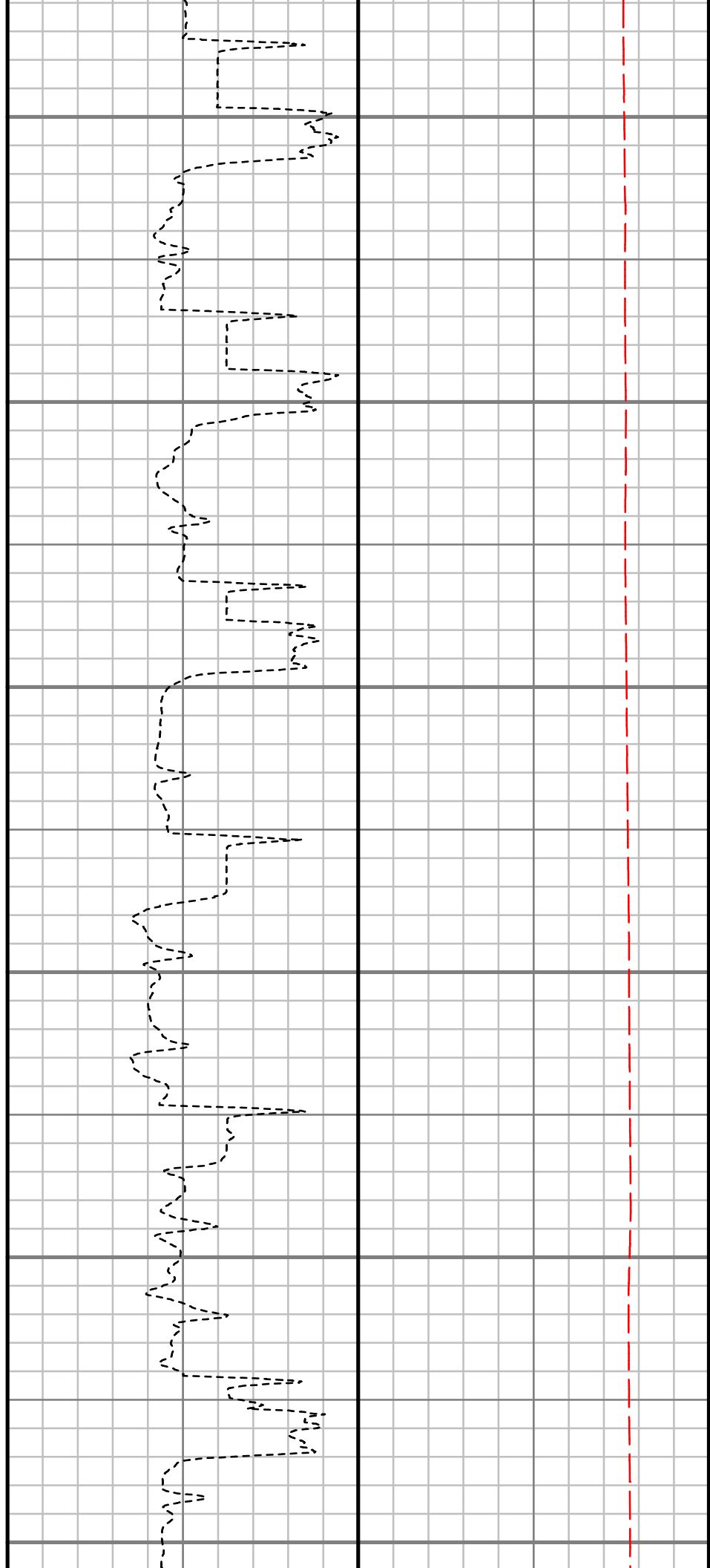
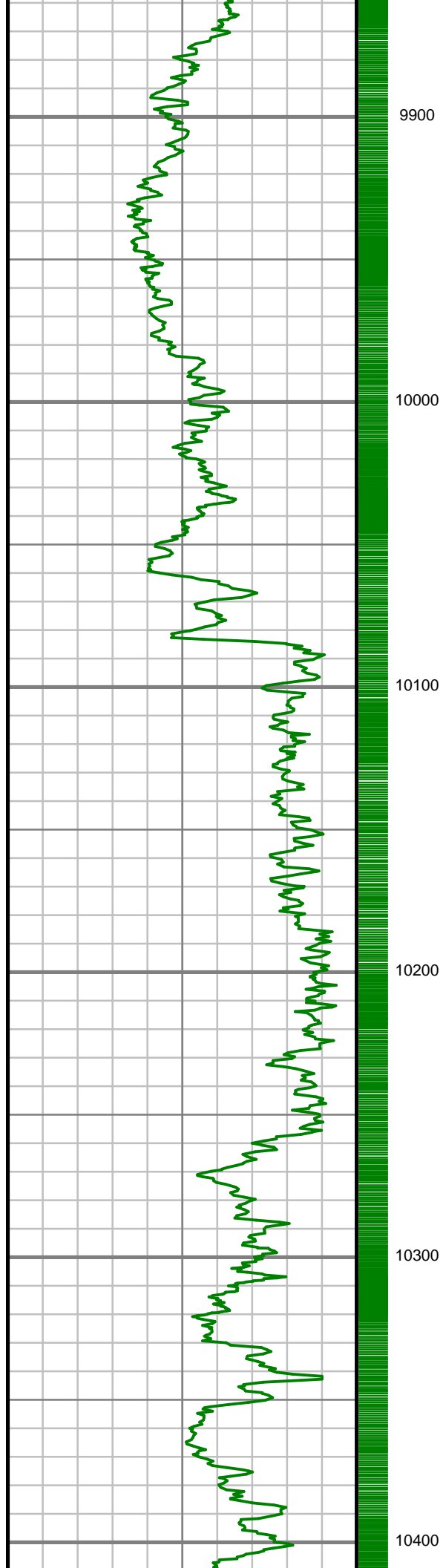


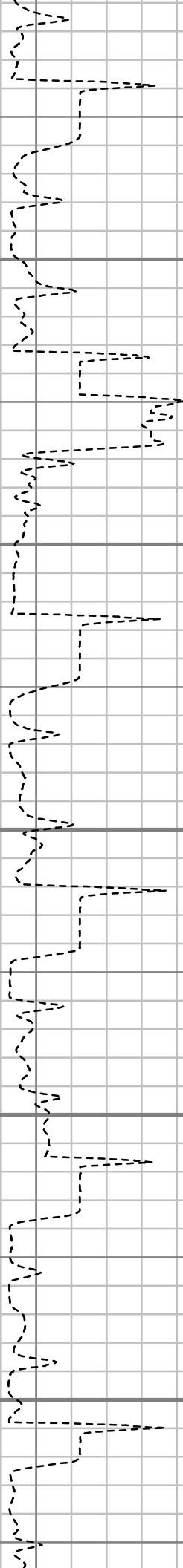
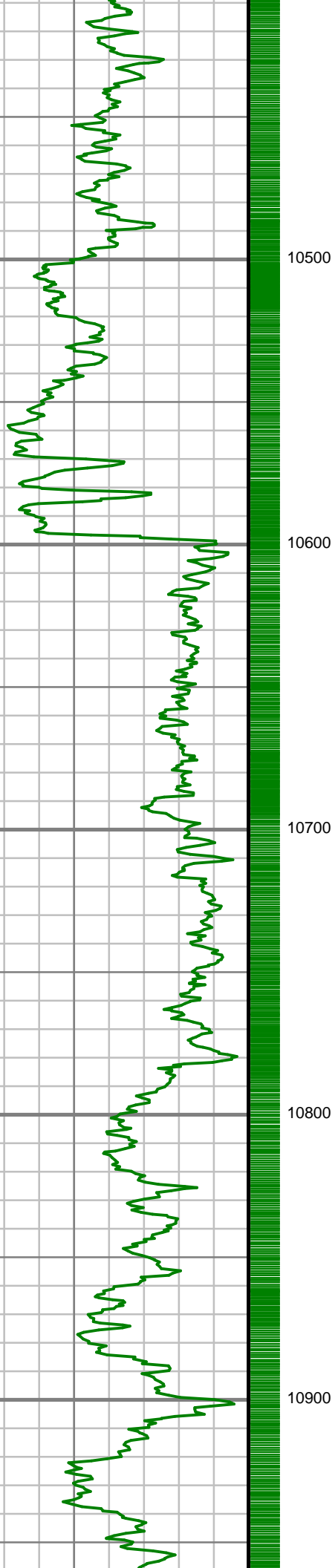


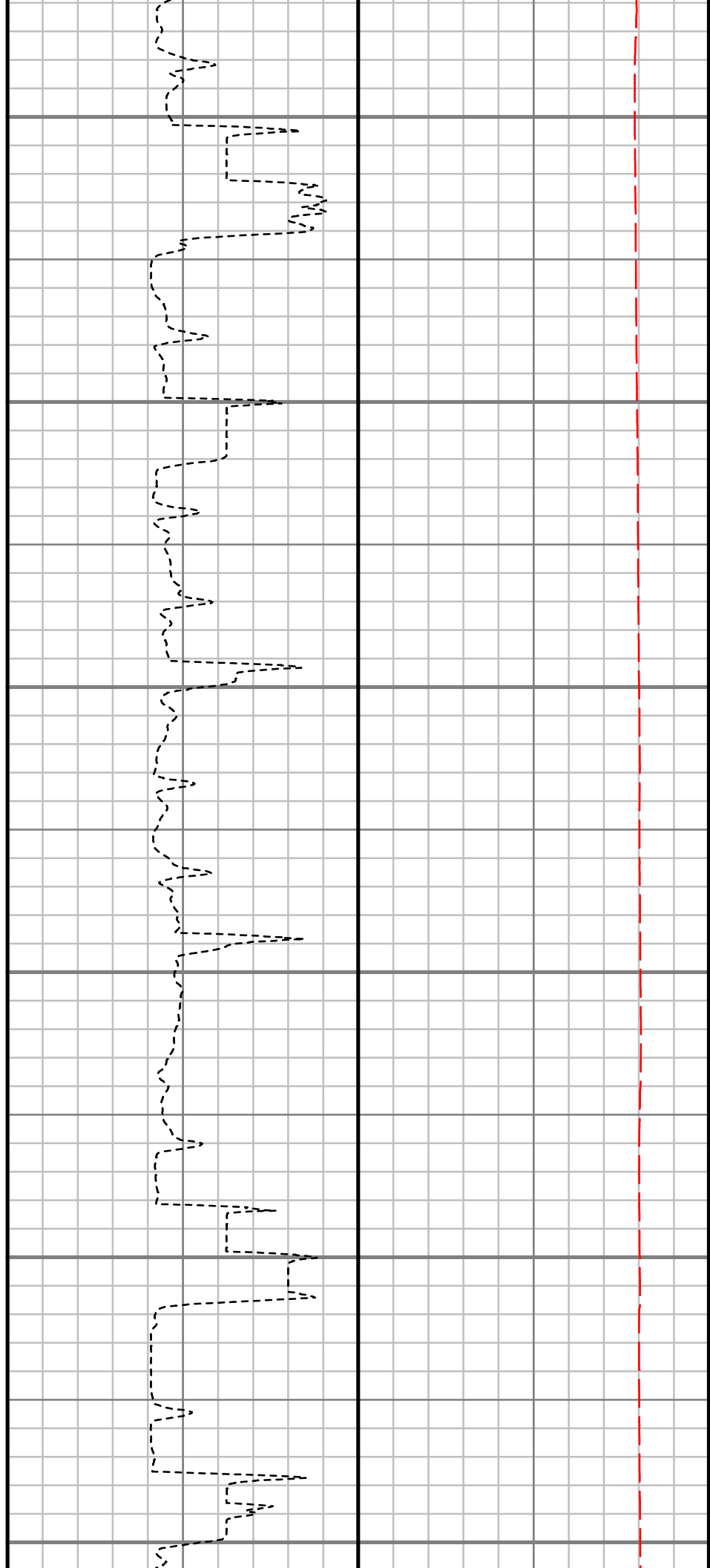
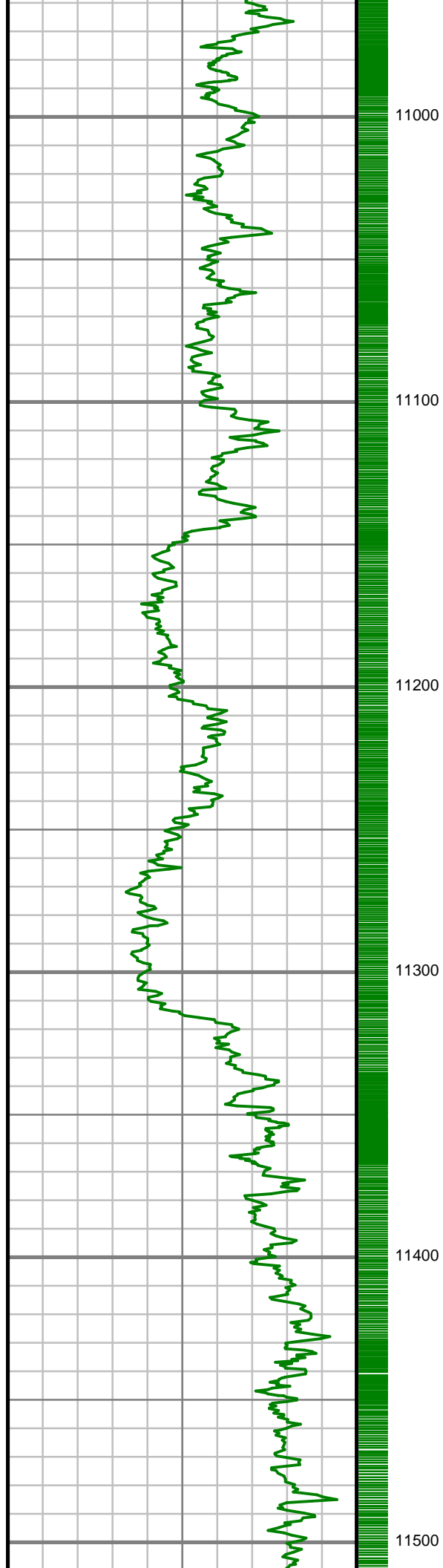


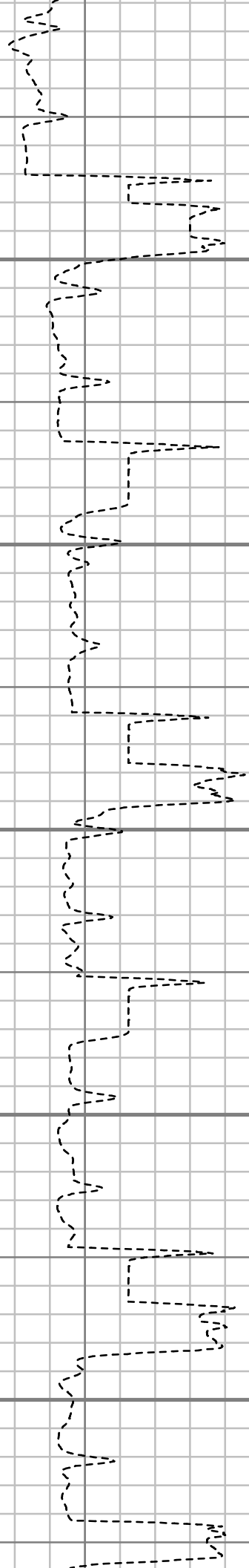
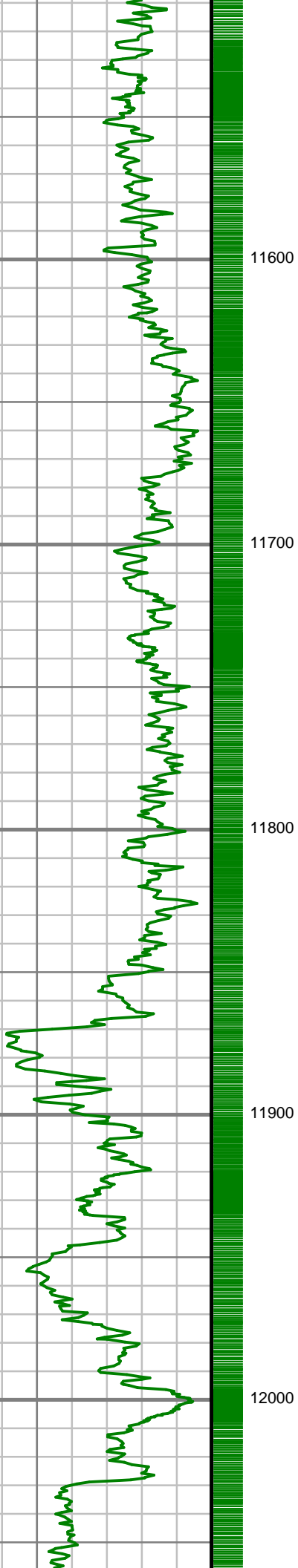


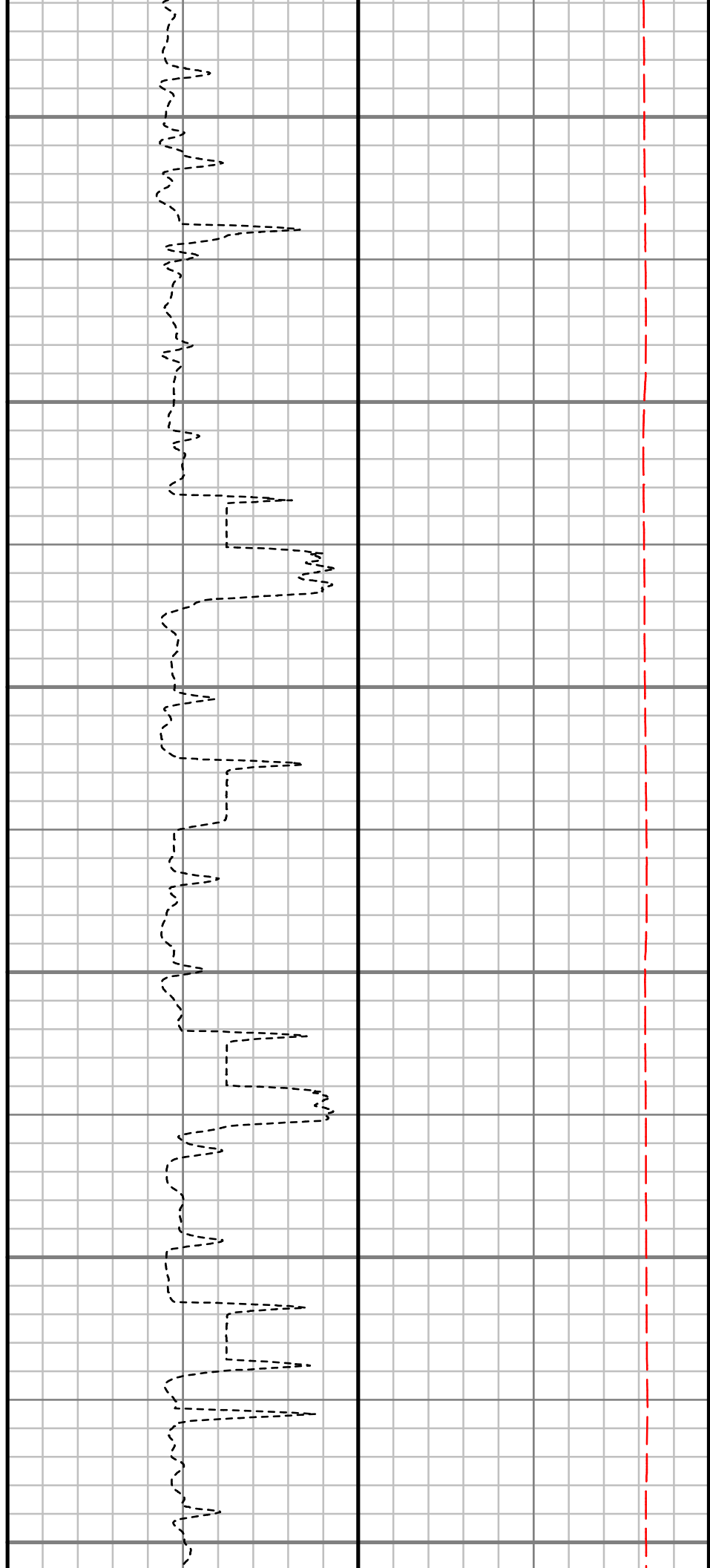
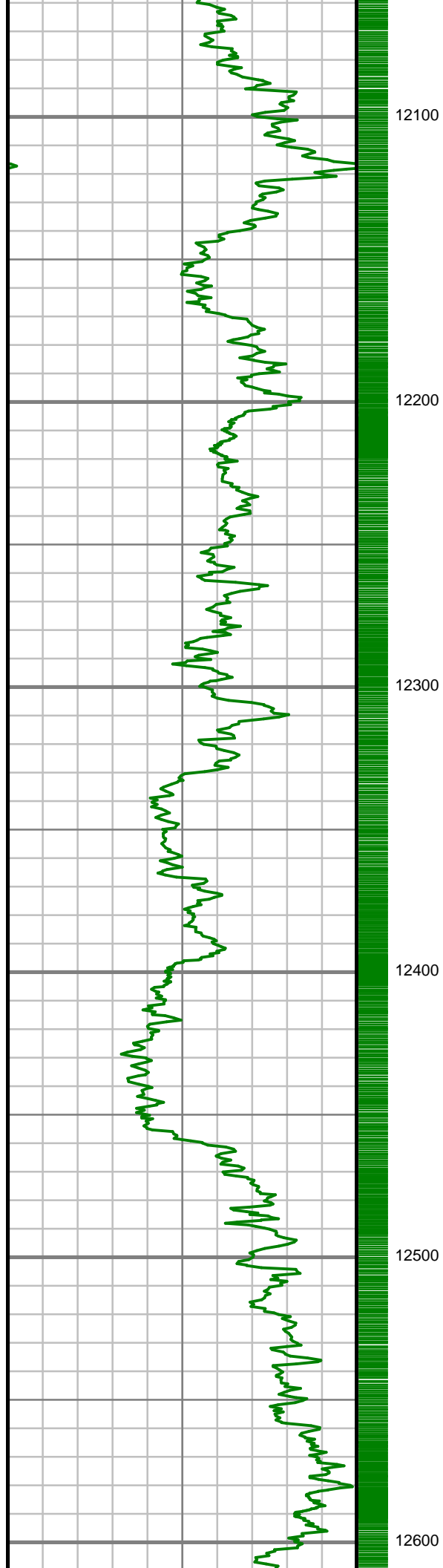


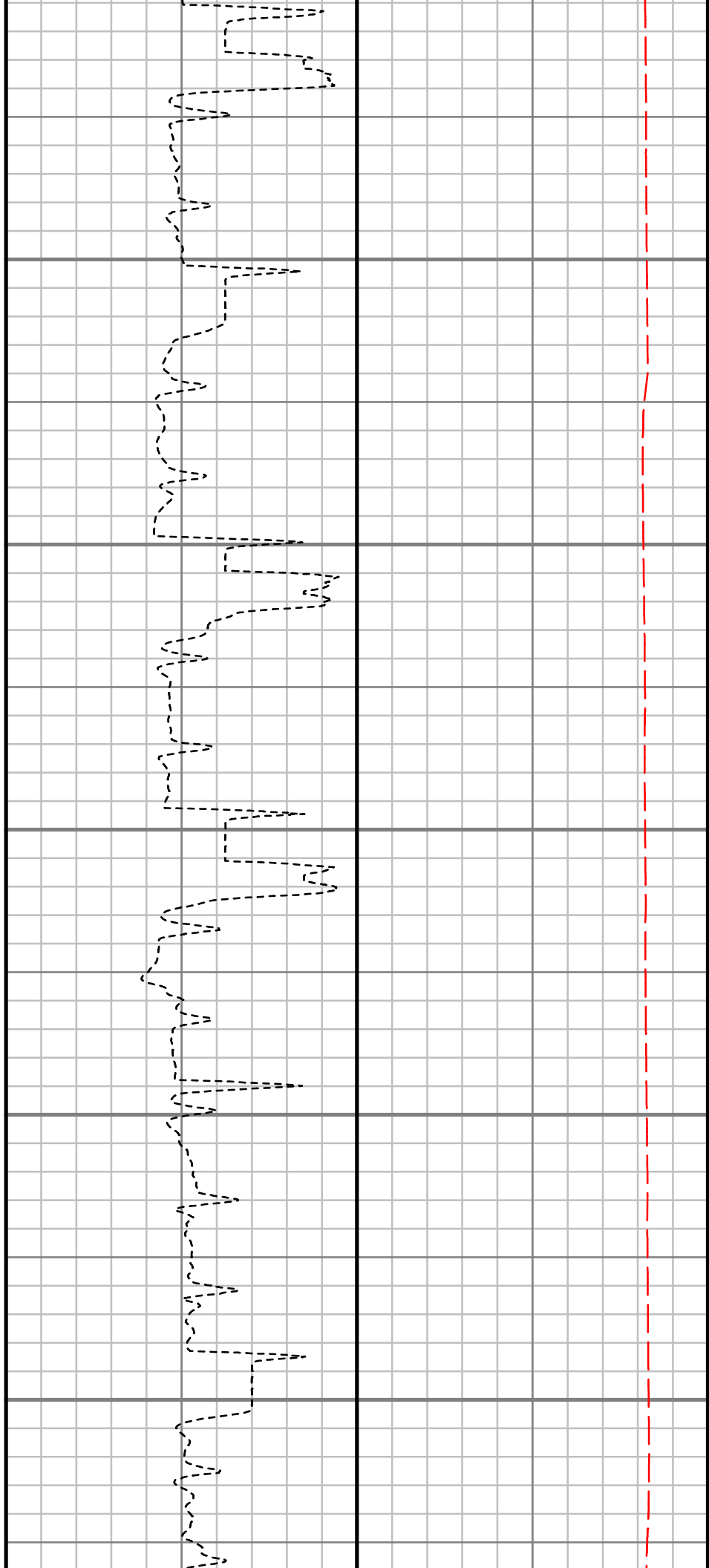
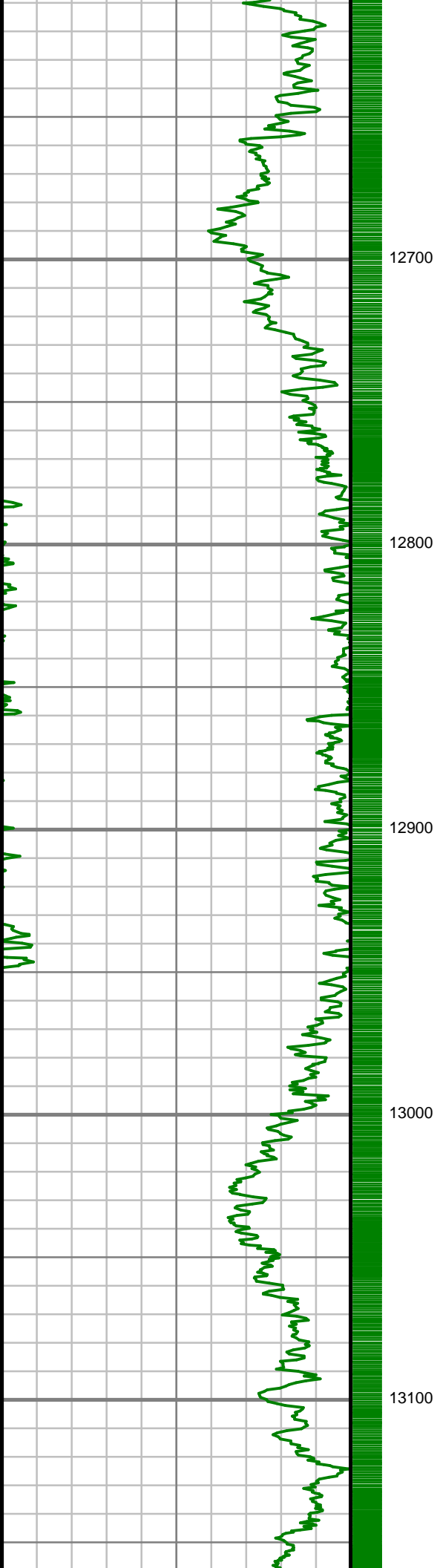


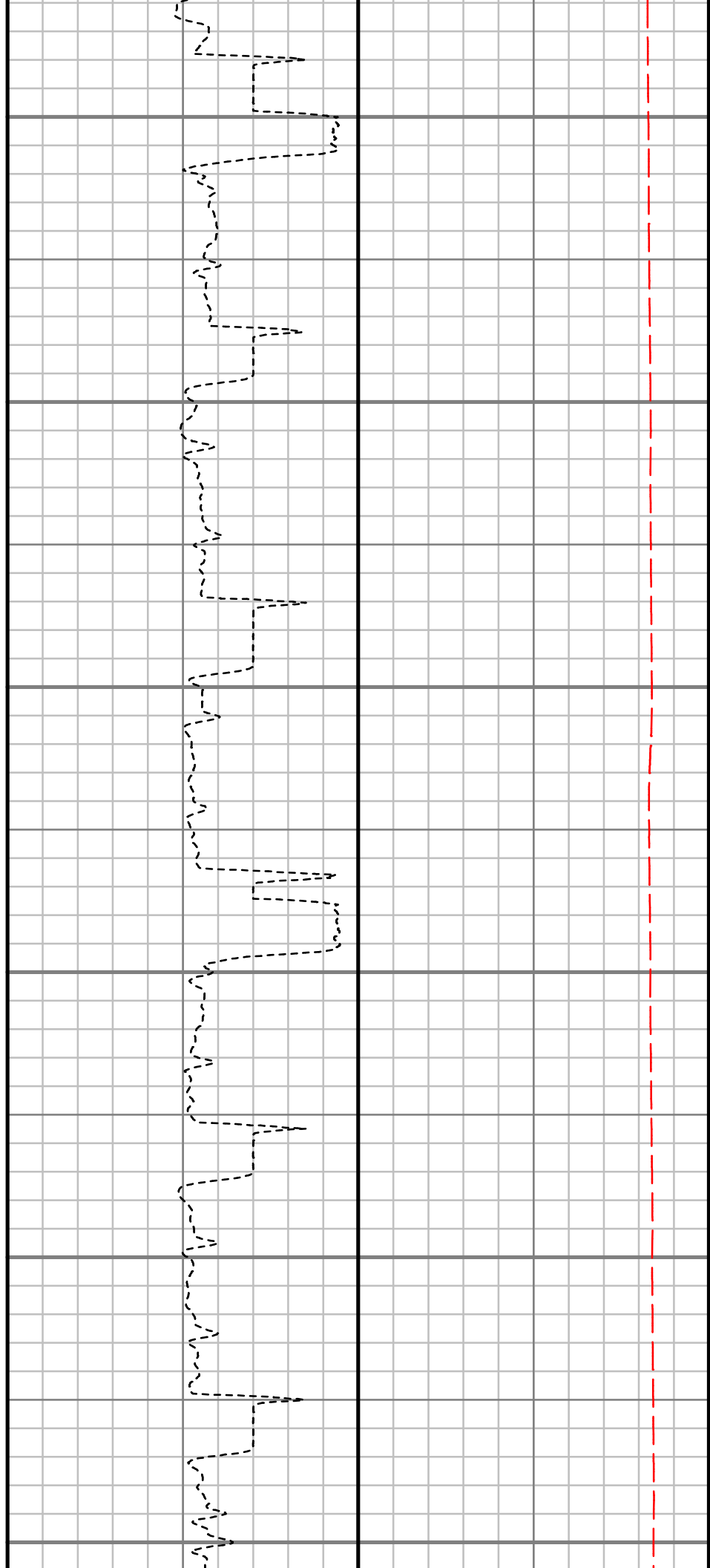
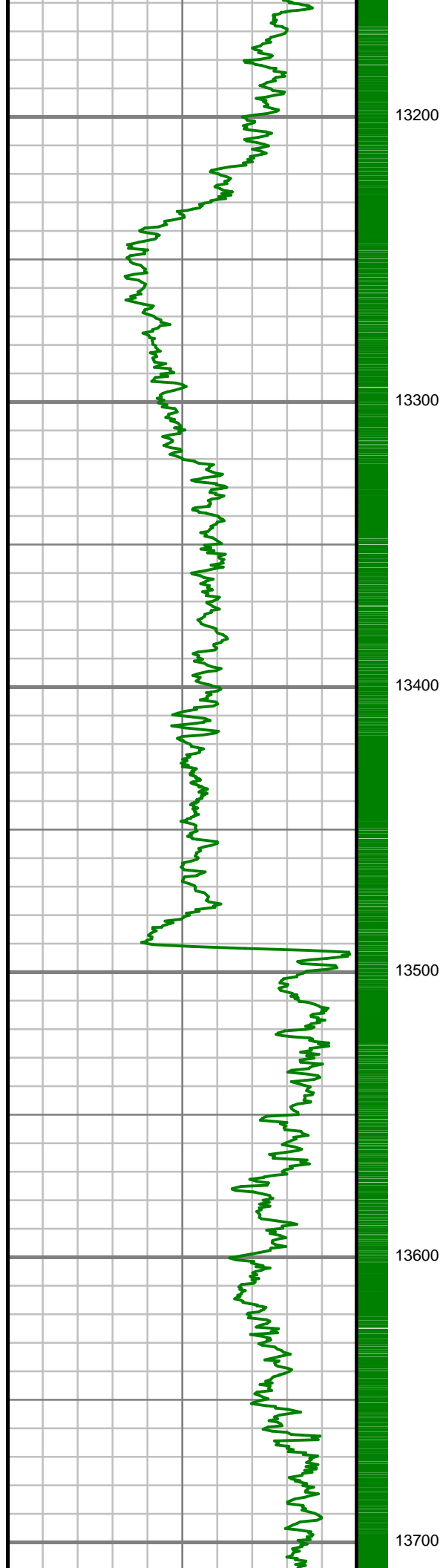




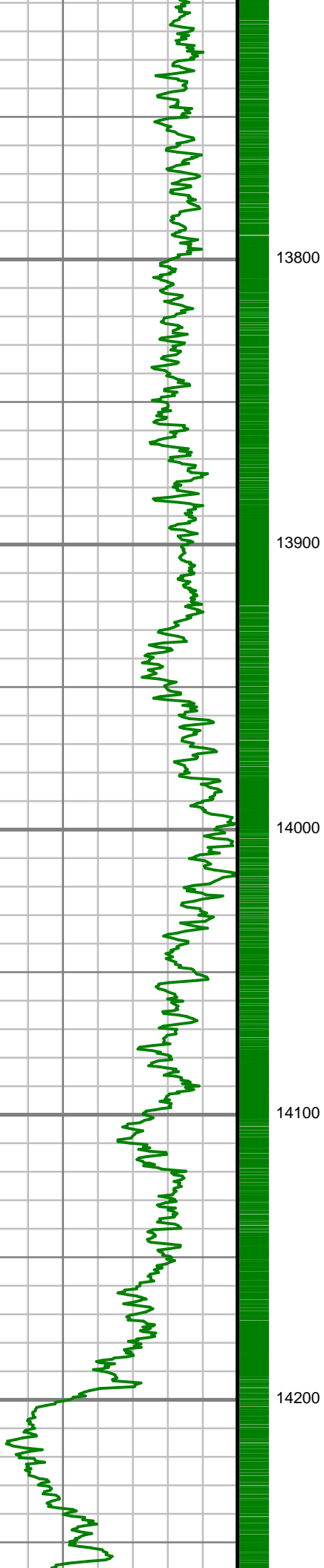












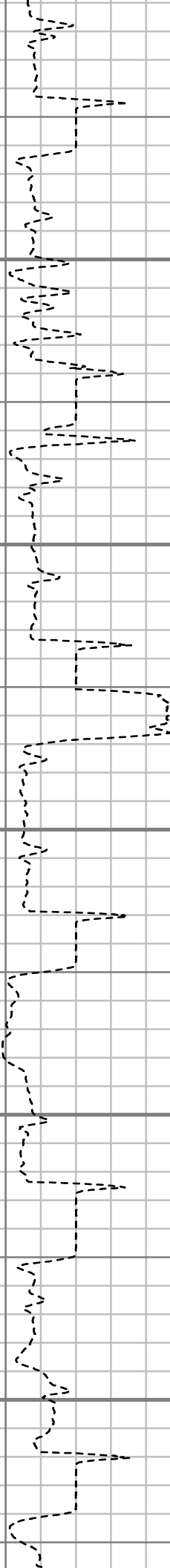
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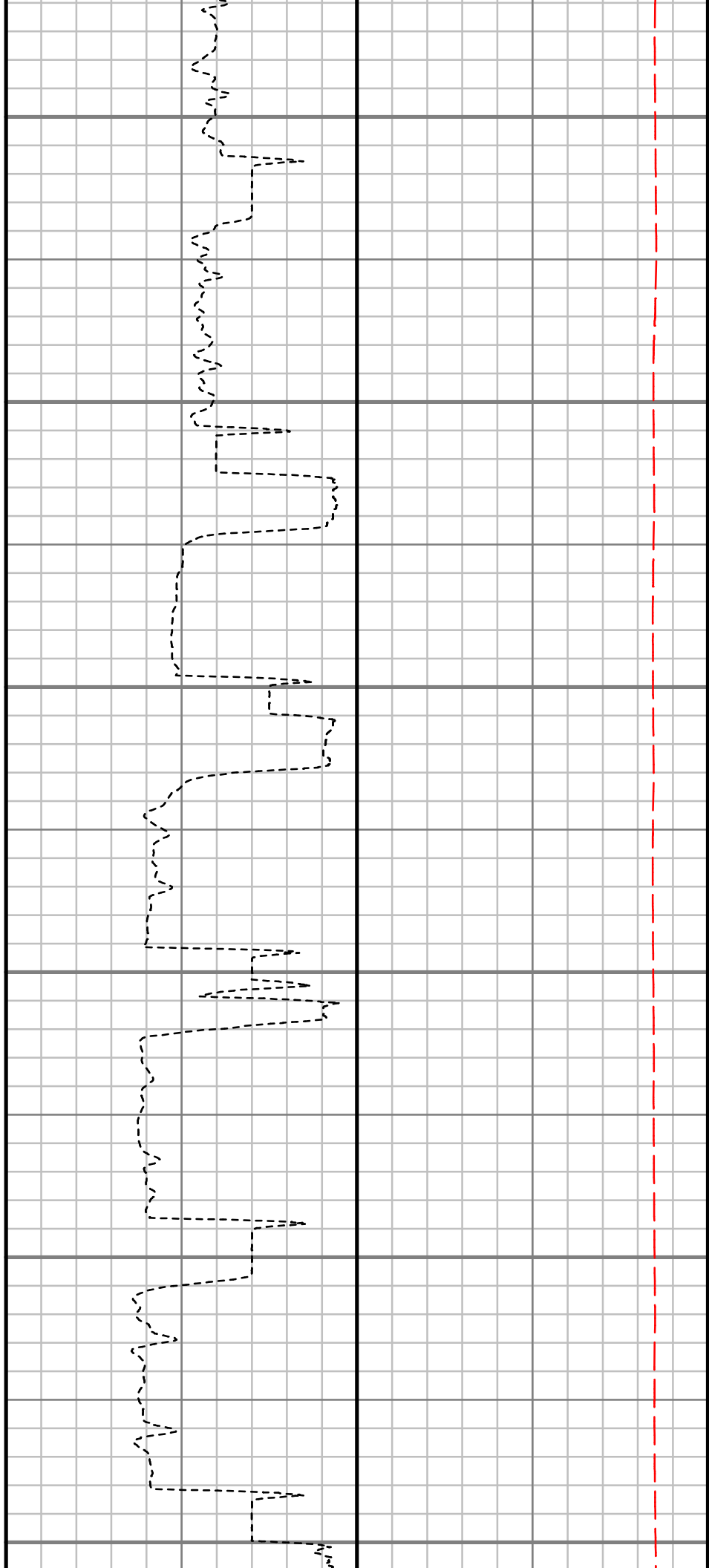
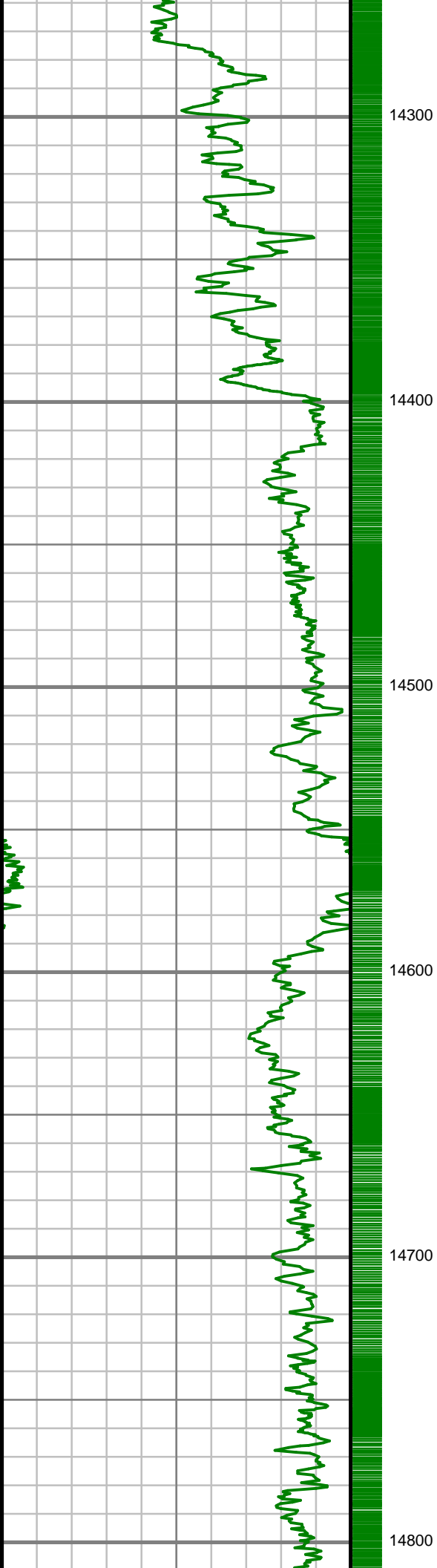
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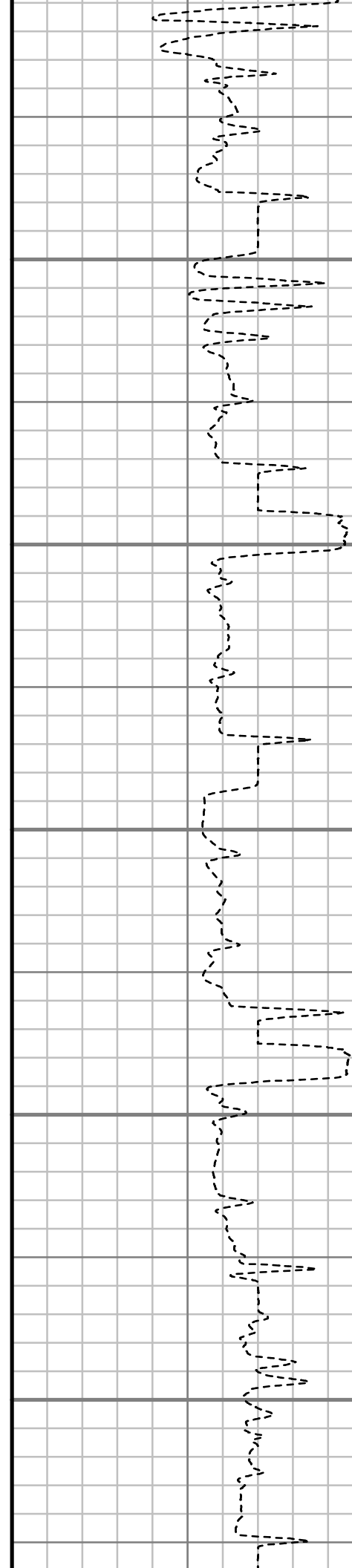
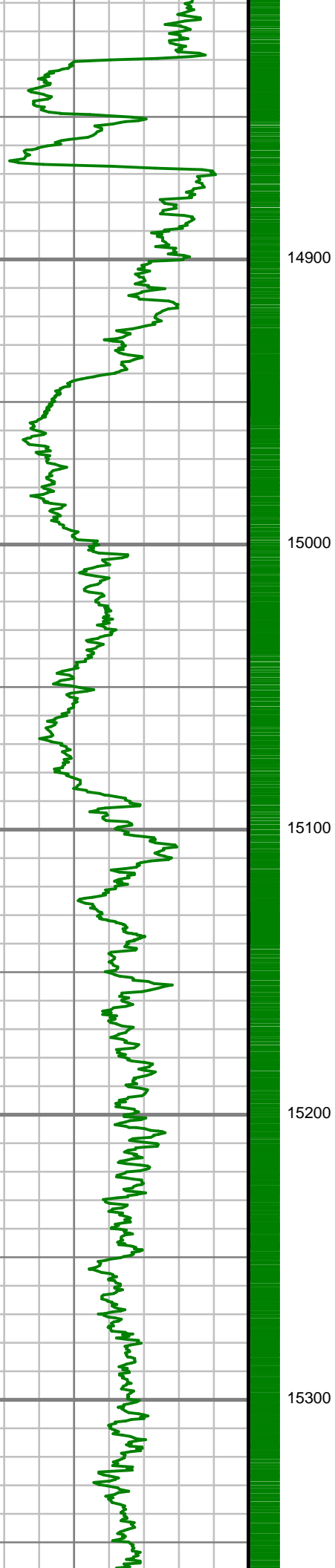
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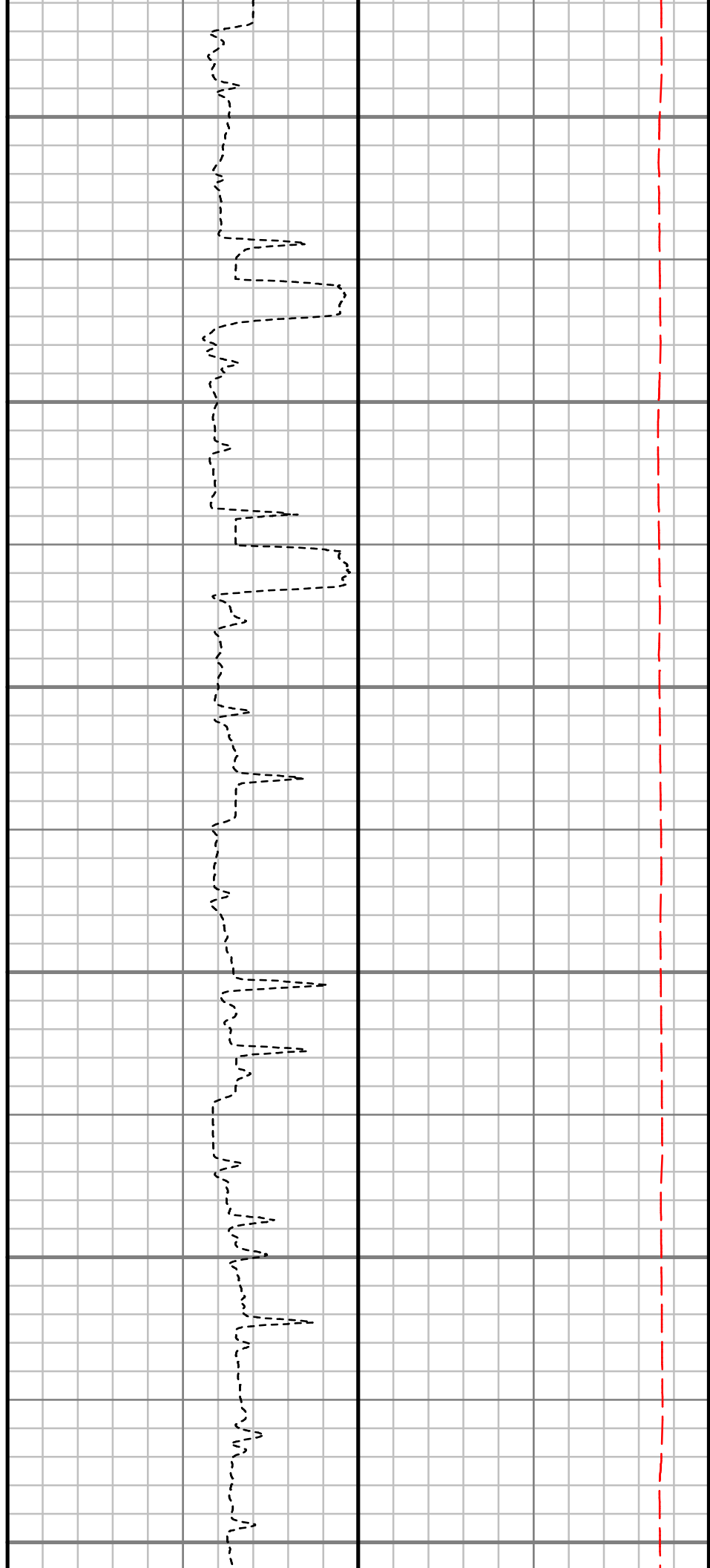
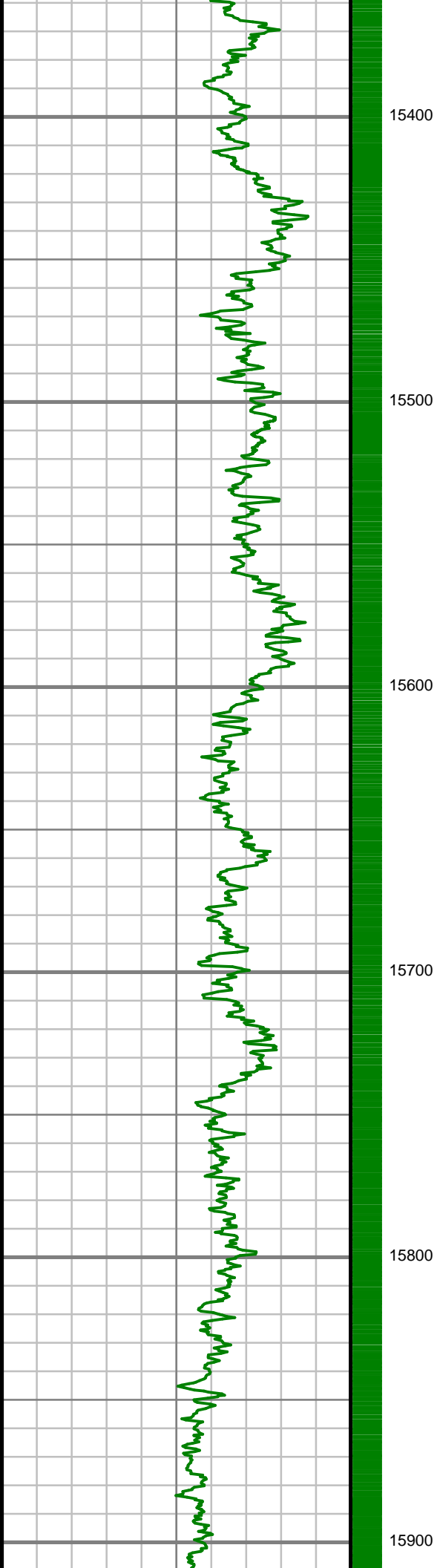
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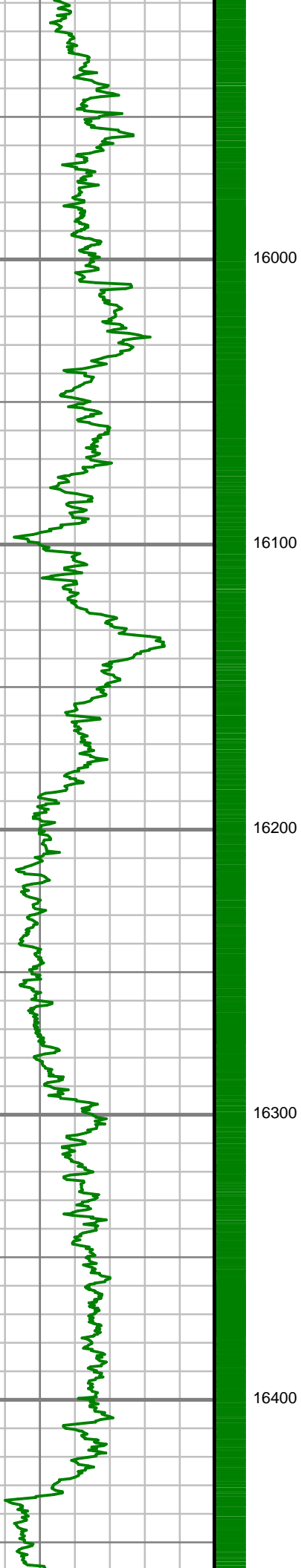
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16000

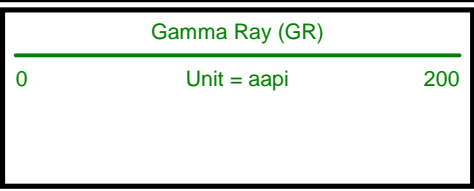
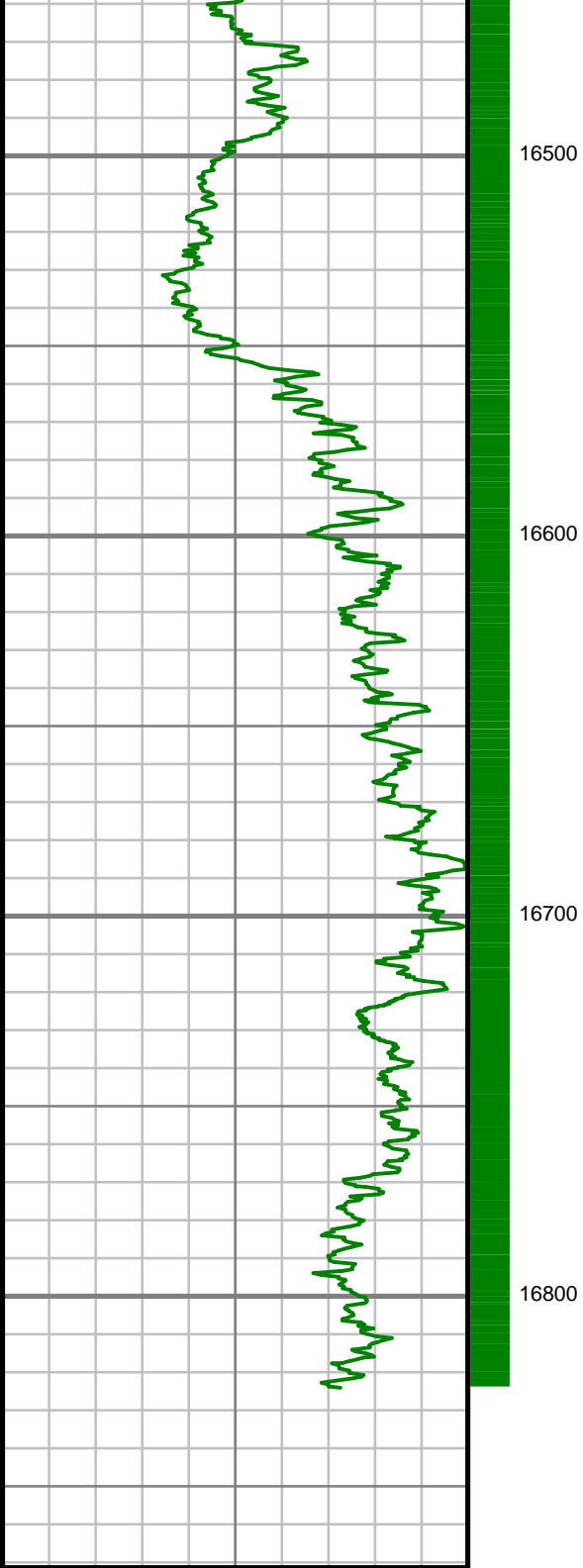
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16200

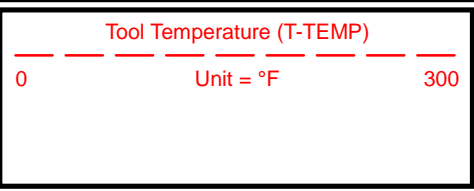
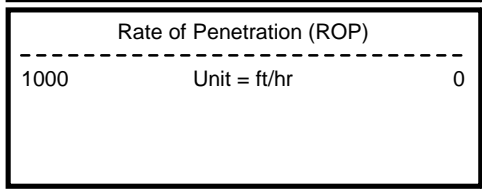
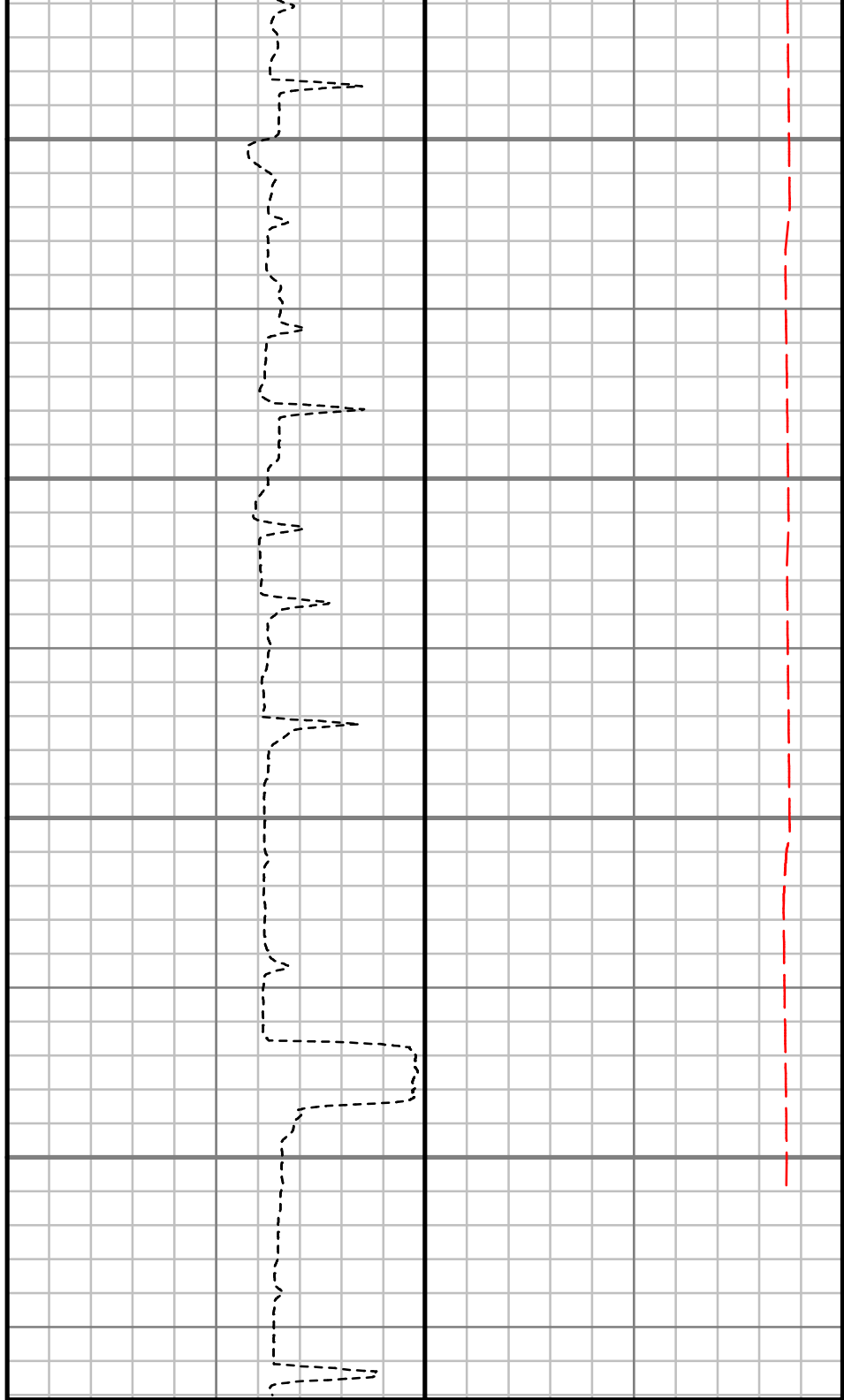
16300

16400





MEASURED DEPTH  
1:500 (ft)



# SURVEY REPORT

WINDER SOUTH 4

WINDER SOUTH 4

CUSTOMER Extraction Oil & Gas  
PROJECT Winder South 4  
FIELD Wattenburg

## WELL INFORMATION

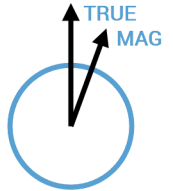
Lat/Long 40.502674° N, 104.890555° W  
Northing 1,426,547.04 ft  
Easting 3,169,478.34 ft  
UWI 05-123-43400-00

## MAP INFORMATION

North Reference True North  
Grid Correction  
System US State Plane 1983  
Datum North American Datum 1983  
Map Zone Colorado Northern Zone

## VERTICAL SECTION REFERENCE

+N/-S 0 ft  
+E/-W 0 ft  
Proposal Direction 270.16°  
Calculation Method Minimum Curvature



## GEOMAGNETIC REFERENCE INFORMATION

Local Gravity: 999.086 mG [computed]

| MD         | MODEL    | DATE        | DECLINATION | MAG TO TRUE |
|------------|----------|-------------|-------------|-------------|
| 0-16870 ft | BGGM2015 | 22 Aug 2016 | 8.51°       | add 8.51°   |

## WELL NOTES

## OPERATORS

Bruce Frantz, Josh Denning, Rick Perry, Sam Nejad

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 0.00     | 0.00       | 0.00        | 0.00      | 0.00     | 0.00        | 0.00        | Invalid        |
| 134.00   | 0.80       | 254.40      | 134.00    | 0.90     | -0.25       | -0.90       | 0.60           |
| 224.00   | 1.30       | 188.40      | 223.98    | 1.65     | -1.43       | -1.66       | 1.35           |
| 314.00   | 2.70       | 190.90      | 313.93    | 2.19     | -4.52       | -2.21       | 1.56           |
| 404.00   | 3.70       | 180.50      | 403.79    | 2.61     | -9.51       | -2.63       | 1.28           |
| 494.00   | 5.50       | 151.30      | 493.50    | 0.54     | -16.20      | -0.59       | 3.22           |
| 584.00   | 5.70       | 155.00      | 583.07    | -3.44    | -24.03      | 3.37        | 0.46           |
| 674.00   | 5.50       | 145.00      | 672.65    | -7.82    | -31.61      | 7.74        | 1.11           |
| 764.00   | 4.30       | 109.10      | 762.34    | -13.50   | -36.25      | 13.40       | 3.58           |
| 854.00   | 5.50       | 139.10      | 852.02    | -19.53   | -40.62      | 19.41       | 3.10           |
| 944.00   | 5.20       | 154.70      | 941.63    | -24.11   | -47.56      | 23.98       | 1.64           |
| 1034.00  | 4.80       | 154.70      | 1031.29   | -27.48   | -54.66      | 27.33       | 0.44           |
| 1124.00  | 4.90       | 158.70      | 1120.97   | -30.51   | -61.64      | 30.34       | 0.39           |
| 1214.00  | 5.50       | 166.70      | 1210.60   | -32.92   | -69.42      | 32.73       | 1.04           |
| 1304.00  | 4.60       | 166.00      | 1300.25   | -34.81   | -77.12      | 34.59       | 1.00           |
| 1394.00  | 6.00       | 166.40      | 1389.86   | -36.81   | -85.19      | 36.57       | 1.56           |
| 1484.00  | 6.50       | 168.40      | 1479.33   | -38.96   | -94.76      | 38.70       | 0.61           |
| 1498.00  | 6.30       | 168.30      | 1493.24   | -39.28   | -96.28      | 39.02       | 1.43           |
| 1841.00  | 8.83       | 145.43      | 1833.30   | -58.16   | -136.41     | 57.78       | 1.13           |
| 1935.00  | 9.36       | 157.37      | 1926.13   | -65.23   | -149.41     | 64.82       | 2.08           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 2030.00  | 10.95      | 167.98      | 2019.64   | -70.13   | -165.37     | 69.67       | 2.58           |
| 2124.00  | 12.44      | 166.40      | 2111.69   | -74.42   | -183.94     | 73.91       | 1.62           |
| 2219.00  | 11.74      | 168.01      | 2204.58   | -78.88   | -203.33     | 78.32       | 0.82           |
| 2313.00  | 12.57      | 165.49      | 2296.48   | -83.49   | -222.59     | 82.87       | 1.05           |
| 2408.00  | 13.22      | 158.16      | 2389.09   | -90.17   | -242.68     | 89.51       | 1.85           |
| 2502.00  | 13.11      | 157.38      | 2480.62   | -98.33   | -262.50     | 97.60       | 0.22           |
| 2597.00  | 12.57      | 159.21      | 2573.24   | -106.20  | -282.11     | 105.42      | 0.71           |
| 2692.00  | 12.46      | 154.03      | 2665.99   | -114.41  | -300.99     | 113.58      | 1.19           |
| 2786.00  | 12.00      | 154.82      | 2757.85   | -123.05  | -318.95     | 122.18      | 0.53           |
| 2881.00  | 11.29      | 154.54      | 2850.90   | -131.30  | -336.28     | 130.37      | 0.75           |
| 2975.00  | 11.80      | 159.91      | 2943.00   | -138.60  | -353.61     | 137.63      | 1.26           |
| 3069.00  | 10.43      | 158.09      | 3035.24   | -145.12  | -370.52     | 144.10      | 1.50           |
| 3164.00  | 11.25      | 156.79      | 3128.54   | -152.03  | -387.02     | 150.96      | 0.91           |
| 3258.00  | 12.86      | 153.12      | 3220.47   | -160.42  | -404.77     | 159.30      | 1.89           |
| 3352.00  | 12.10      | 152.16      | 3312.24   | -169.80  | -422.81     | 168.63      | 0.83           |
| 3447.00  | 12.13      | 152.94      | 3405.13   | -179.04  | -440.51     | 177.83      | 0.18           |
| 3542.00  | 12.22      | 157.56      | 3497.99   | -187.47  | -458.70     | 186.21      | 1.03           |
| 3637.00  | 13.01      | 159.55      | 3590.70   | -195.10  | -478.01     | 193.78      | 0.95           |
| 3731.00  | 14.09      | 159.74      | 3682.08   | -202.81  | -498.66     | 201.44      | 1.15           |
| 3826.00  | 14.51      | 159.65      | 3774.14   | -211.02  | -520.67     | 209.58      | 0.44           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 3921.00  | 13.33      | 152.79      | 3866.35   | -220.22  | -541.56     | 218.72      | 2.13           |
| 4016.00  | 12.66      | 157.14      | 3958.92   | -229.32  | -560.89     | 227.77      | 1.24           |
| 4111.00  | 10.73      | 158.45      | 4051.95   | -236.66  | -578.71     | 235.06      | 2.05           |
| 4205.00  | 10.56      | 156.93      | 4144.33   | -243.29  | -594.77     | 241.65      | 0.35           |
| 4299.00  | 11.56      | 153.76      | 4236.58   | -250.88  | -611.15     | 249.20      | 1.24           |
| 4394.00  | 12.40      | 158.91      | 4329.52   | -258.81  | -629.21     | 257.07      | 1.43           |
| 4488.00  | 11.96      | 160.27      | 4421.40   | -265.78  | -647.79     | 264.00      | 0.56           |
| 4582.00  | 10.57      | 160.18      | 4513.59   | -272.04  | -665.07     | 270.21      | 1.48           |
| 4677.00  | 11.30      | 158.63      | 4606.86   | -278.43  | -681.93     | 276.55      | 0.83           |
| 4772.00  | 12.75      | 155.94      | 4699.78   | -286.15  | -700.17     | 284.22      | 1.64           |
| 4866.00  | 12.75      | 155.14      | 4791.46   | -294.79  | -719.05     | 292.81      | 0.19           |
| 4961.00  | 11.82      | 153.56      | 4884.28   | -303.58  | -737.28     | 301.55      | 1.04           |
| 5056.00  | 11.63      | 158.75      | 4977.30   | -311.43  | -754.92     | 309.35      | 1.13           |
| 5151.00  | 11.79      | 156.53      | 5070.33   | -318.81  | -772.74     | 316.68      | 0.50           |
| 5245.00  | 12.18      | 150.88      | 5162.28   | -327.51  | -790.21     | 325.33      | 1.32           |
| 5340.00  | 10.66      | 150.21      | 5255.40   | -336.80  | -806.60     | 334.58      | 1.61           |
| 5435.00  | 10.70      | 153.06      | 5348.75   | -345.21  | -822.09     | 342.94      | 0.56           |
| 5530.00  | 11.77      | 156.77      | 5441.93   | -353.07  | -838.85     | 350.76      | 1.36           |
| 5625.00  | 11.99      | 162.06      | 5534.90   | -359.98  | -857.14     | 357.62      | 1.17           |
| 5719.00  | 12.10      | 158.41      | 5626.83   | -366.67  | -875.59     | 364.25      | 0.82           |



| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 5814.00  | 11.53      | 158.30      | 5719.82   | -373.89  | -893.67     | 371.43      | 0.60           |
| 5909.00  | 11.36      | 155.29      | 5812.93   | -381.36  | -911.00     | 378.85      | 0.65           |
| 6003.00  | 12.49      | 160.90      | 5904.90   | -388.61  | -929.02     | 386.05      | 1.72           |
| 6098.00  | 13.81      | 155.99      | 5997.41   | -396.64  | -949.08     | 394.02      | 1.82           |
| 6192.00  | 11.94      | 152.44      | 6089.04   | -405.76  | -967.95     | 403.09      | 2.16           |
| 6287.00  | 11.16      | 156.21      | 6182.12   | -414.06  | -985.08     | 411.35      | 1.14           |
| 6381.00  | 11.59      | 156.37      | 6274.27   | -421.56  | -1002.06    | 418.80      | 0.46           |
| 6476.00  | 12.95      | 154.78      | 6367.10   | -429.98  | -1020.44    | 427.17      | 1.48           |
| 6570.00  | 12.26      | 155.57      | 6458.83   | -438.65  | -1039.06    | 435.78      | 0.76           |
| 6665.00  | 9.85       | 185.43      | 6552.14   | -442.10  | -1056.34    | 439.19      | 6.44           |
| 6759.00  | 17.54      | 238.04      | 6643.71   | -429.30  | -1071.92    | 426.34      | 14.78          |
| 6854.00  | 22.66      | 252.38      | 6732.95   | -399.70  | -1085.06    | 396.71      | 7.44           |
| 6949.00  | 32.72      | 256.86      | 6816.96   | -357.17  | -1096.47    | 354.15      | 10.81          |
| 7043.00  | 45.80      | 258.30      | 6889.59   | -299.22  | -1109.13    | 296.16      | 13.94          |
| 7138.00  | 53.03      | 262.55      | 6951.38   | -228.17  | -1120.98    | 225.08      | 8.33           |
| 7232.00  | 57.97      | 264.40      | 7004.60   | -151.25  | -1129.75    | 148.14      | 5.51           |
| 7327.00  | 71.40      | 262.67      | 7045.13   | -66.16   | -1139.47    | 63.01       | 14.23          |
| 7421.00  | 87.61      | 265.49      | 7062.19   | 25.44    | -1148.91    | -28.61      | 17.49          |
| 7516.00  | 90.40      | 270.75      | 7063.83   | 120.33   | -1152.03    | -123.50     | 6.27           |
| 7636.00  | 89.73      | 270.73      | 7063.69   | 240.32   | -1150.47    | -243.49     | 0.56           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 7730.00  | 89.63      | 269.89      | 7064.22   | 334.32   | -1149.96    | -337.49     | 0.90           |
| 7825.00  | 91.48      | 269.10      | 7063.30   | 429.30   | -1150.80    | -432.48     | 2.11           |
| 7920.00  | 92.42      | 268.58      | 7060.07   | 524.22   | -1152.72    | -527.40     | 1.13           |
| 8014.00  | 92.39      | 268.41      | 7056.13   | 618.10   | -1155.19    | -621.29     | 0.19           |
| 8109.00  | 91.24      | 268.96      | 7053.12   | 713.02   | -1157.37    | -716.21     | 1.34           |
| 8203.00  | 91.91      | 268.87      | 7050.53   | 806.96   | -1159.15    | -810.16     | 0.72           |
| 8298.00  | 92.82      | 268.90      | 7046.60   | 901.85   | -1160.99    | -905.06     | 0.96           |
| 8393.00  | 91.48      | 269.99      | 7043.04   | 996.78   | -1161.90    | -999.98     | 1.82           |
| 8487.00  | 91.61      | 269.87      | 7040.50   | 1090.74  | -1162.01    | -1093.95    | 0.19           |
| 8581.00  | 91.85      | 269.71      | 7037.67   | 1184.70  | -1162.36    | -1187.91    | 0.31           |
| 8676.00  | 92.42      | 269.54      | 7034.13   | 1279.63  | -1162.98    | -1282.84    | 0.62           |
| 8770.00  | 91.04      | 270.77      | 7031.30   | 1373.58  | -1162.72    | -1376.79    | 1.96           |
| 8865.00  | 91.28      | 270.96      | 7029.38   | 1468.55  | -1161.28    | -1471.76    | 0.32           |
| 8959.00  | 90.74      | 269.92      | 7027.73   | 1562.53  | -1160.55    | -1565.74    | 1.25           |
| 9054.00  | 91.41      | 269.32      | 7025.95   | 1657.51  | -1161.19    | -1660.72    | 0.95           |
| 9148.00  | 92.42      | 268.93      | 7022.80   | 1751.44  | -1162.63    | -1754.66    | 1.15           |
| 9243.00  | 92.08      | 269.99      | 7019.07   | 1846.36  | -1163.52    | -1849.58    | 1.17           |
| 9337.00  | 91.41      | 271.69      | 7016.21   | 1940.31  | -1162.14    | -1943.52    | 1.94           |
| 9432.00  | 91.68      | 271.90      | 7013.65   | 2035.23  | -1159.17    | -2038.44    | 0.36           |
| 9526.00  | 91.38      | 271.39      | 7011.14   | 2129.17  | -1156.48    | -2132.37    | 0.63           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 9621.00  | 90.97      | 270.04      | 7009.19   | 2224.14  | -1155.30    | -2227.34    | 1.48           |
| 9715.00  | 91.04      | 273.81      | 7007.54   | 2318.07  | -1152.15    | -2321.25    | 4.01           |
| 9810.00  | 91.38      | 275.89      | 7005.53   | 2412.72  | -1144.12    | -2415.89    | 2.22           |
| 9904.00  | 91.58      | 272.30      | 7003.11   | 2506.45  | -1137.41    | -2509.60    | 3.83           |
| 9999.00  | 91.61      | 270.42      | 7000.47   | 2601.39  | -1135.16    | -2604.53    | 1.97           |
| 10093.00 | 90.77      | 270.06      | 6998.52   | 2695.37  | -1134.76    | -2698.51    | 0.97           |
| 10188.00 | 90.47      | 269.70      | 6997.49   | 2790.36  | -1134.96    | -2793.50    | 0.50           |
| 10282.00 | 89.76      | 269.79      | 6997.29   | 2884.36  | -1135.38    | -2887.50    | 0.75           |
| 10377.00 | 90.60      | 270.48      | 6996.99   | 2979.36  | -1135.17    | -2982.50    | 1.14           |
| 10471.00 | 89.50      | 269.86      | 6996.91   | 3073.36  | -1134.90    | -3076.50    | 1.35           |
| 10566.00 | 90.67      | 269.31      | 6996.77   | 3168.35  | -1135.59    | -3171.49    | 1.36           |
| 10660.00 | 91.71      | 269.05      | 6994.81   | 3262.31  | -1136.94    | -3265.46    | 1.14           |
| 10755.00 | 91.98      | 269.26      | 6991.75   | 3357.25  | -1138.34    | -3360.40    | 0.36           |
| 10849.00 | 91.68      | 268.59      | 6988.75   | 3451.18  | -1140.11    | -3454.34    | 0.78           |
| 10944.00 | 90.81      | 268.30      | 6986.69   | 3546.11  | -1142.68    | -3549.28    | 0.97           |
| 11038.00 | 90.97      | 269.46      | 6985.23   | 3640.08  | -1144.52    | -3643.25    | 1.24           |
| 11133.00 | 91.24      | 269.42      | 6983.40   | 3735.05  | -1145.45    | -3738.22    | 0.29           |
| 11227.00 | 90.91      | 269.17      | 6981.63   | 3829.02  | -1146.61    | -3832.20    | 0.45           |
| 11321.00 | 90.64      | 269.22      | 6980.37   | 3923.00  | -1147.93    | -3926.18    | 0.29           |
| 11416.00 | 92.25      | 269.99      | 6977.98   | 4017.96  | -1148.58    | -4021.15    | 1.88           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 11511.00 | 93.73      | 271.86      | 6973.02   | 4112.82  | -1147.04    | -4116.00    | 2.51           |
| 11605.00 | 91.24      | 270.45      | 6968.94   | 4206.71  | -1145.15    | -4209.88    | 3.04           |
| 11699.00 | 90.57      | 270.07      | 6967.46   | 4300.69  | -1144.72    | -4303.87    | 0.82           |
| 11793.00 | 91.91      | 269.48      | 6965.42   | 4394.67  | -1145.08    | -4397.84    | 1.56           |
| 11888.00 | 94.54      | 269.48      | 6960.08   | 4489.50  | -1145.94    | -4492.68    | 2.76           |
| 11983.00 | 93.56      | 268.30      | 6953.37   | 4584.24  | -1147.78    | -4587.42    | 1.61           |
| 12077.00 | 91.68      | 267.78      | 6949.07   | 4678.07  | -1150.99    | -4681.26    | 2.08           |
| 12172.00 | 91.01      | 267.52      | 6946.84   | 4772.95  | -1154.88    | -4776.16    | 0.76           |
| 12266.00 | 91.34      | 268.80      | 6944.92   | 4866.87  | -1157.90    | -4870.09    | 1.42           |
| 12360.00 | 91.38      | 269.09      | 6942.69   | 4960.83  | -1159.63    | -4964.04    | 0.30           |
| 12455.00 | 90.94      | 269.24      | 6940.77   | 5055.79  | -1161.02    | -5059.01    | 0.49           |
| 12549.00 | 90.70      | 269.65      | 6939.42   | 5149.78  | -1161.94    | -5153.00    | 0.50           |
| 12644.00 | 90.97      | 270.08      | 6938.03   | 5244.76  | -1162.16    | -5247.99    | 0.54           |
| 12738.00 | 90.91      | 269.74      | 6936.49   | 5338.75  | -1162.31    | -5341.98    | 0.38           |
| 12833.00 | 91.71      | 270.38      | 6934.32   | 5433.72  | -1162.22    | -5436.95    | 1.08           |
| 12927.00 | 92.86      | 270.65      | 6930.57   | 5527.65  | -1161.37    | -5530.87    | 1.25           |
| 13021.00 | 93.26      | 270.35      | 6925.55   | 5621.51  | -1160.55    | -5624.73    | 0.54           |
| 13116.00 | 94.13      | 270.34      | 6919.43   | 5716.31  | -1159.98    | -5719.53    | 0.92           |
| 13210.00 | 92.69      | 269.82      | 6913.84   | 5810.14  | -1159.84    | -5813.36    | 1.63           |
| 13305.00 | 93.26      | 270.02      | 6908.91   | 5905.01  | -1159.97    | -5908.23    | 0.64           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 13399.00 | 94.67      | 270.92      | 6902.41   | 5998.78  | -1159.20    | -6002.00    | 1.78           |
| 13493.00 | 91.65      | 271.43      | 6897.23   | 6092.61  | -1157.27    | -6095.83    | 3.26           |
| 13588.00 | 91.04      | 271.30      | 6895.00   | 6187.57  | -1155.00    | -6190.77    | 0.65           |
| 13682.00 | 91.81      | 271.96      | 6892.66   | 6281.50  | -1152.33    | -6284.71    | 1.08           |
| 13776.00 | 91.95      | 271.94      | 6889.58   | 6375.41  | -1149.13    | -6378.60    | 0.15           |
| 13871.00 | 92.39      | 273.20      | 6885.99   | 6470.25  | -1144.88    | -6473.44    | 1.41           |
| 13965.00 | 92.28      | 271.47      | 6882.16   | 6564.10  | -1141.04    | -6567.28    | 1.85           |
| 14059.00 | 92.62      | 271.59      | 6878.14   | 6657.99  | -1138.54    | -6661.16    | 0.38           |
| 14154.00 | 92.42      | 270.59      | 6873.97   | 6752.89  | -1136.73    | -6756.05    | 1.07           |
| 14248.00 | 93.39      | 270.84      | 6869.20   | 6846.76  | -1135.56    | -6849.92    | 1.07           |
| 14343.00 | 95.18      | 270.98      | 6862.11   | 6941.48  | -1134.05    | -6944.64    | 1.89           |
| 14437.00 | 94.37      | 269.82      | 6854.28   | 7035.15  | -1133.40    | -7038.30    | 1.51           |
| 14532.00 | 91.28      | 269.22      | 6849.61   | 7130.02  | -1134.19    | -7133.17    | 3.31           |
| 14626.00 | 90.44      | 268.91      | 6848.20   | 7223.99  | -1135.72    | -7227.15    | 0.95           |
| 14721.00 | 91.14      | 268.49      | 6846.90   | 7318.95  | -1137.88    | -7322.12    | 0.87           |
| 14815.00 | 90.57      | 269.16      | 6845.49   | 7412.91  | -1139.81    | -7416.09    | 0.94           |
| 14910.00 | 91.01      | 268.81      | 6844.18   | 7507.88  | -1141.49    | -7511.06    | 0.59           |
| 15004.00 | 90.74      | 270.42      | 6842.75   | 7601.87  | -1142.12    | -7605.04    | 1.74           |
| 15099.00 | 91.48      | 271.53      | 6840.91   | 7696.84  | -1140.50    | -7700.01    | 1.40           |
| 15194.00 | 89.97      | 270.96      | 6839.72   | 7791.81  | -1138.44    | -7794.98    | 1.70           |

| MD<br>ft | Inc<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | +N/-S<br>ft | +E/-W<br>ft | DLS<br>°/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|----------------|
| 15288.00 | 91.18      | 272.05      | 6838.78   | 7885.77  | -1135.97    | -7888.94    | 1.73           |
| 15383.00 | 92.28      | 272.69      | 6835.91   | 7980.66  | -1132.03    | -7983.81    | 1.35           |
| 15477.00 | 91.38      | 271.14      | 6832.91   | 8074.56  | -1128.90    | -8077.71    | 1.92           |
| 15572.00 | 89.87      | 268.84      | 6831.88   | 8169.55  | -1128.91    | -8172.69    | 2.89           |
| 15666.00 | 89.80      | 269.43      | 6832.16   | 8263.53  | -1130.33    | -8266.68    | 0.63           |
| 15761.00 | 90.07      | 269.99      | 6832.27   | 8358.53  | -1130.82    | -8361.68    | 0.66           |
| 15856.00 | 91.17      | 271.62      | 6831.24   | 8453.51  | -1129.49    | -8456.66    | 2.07           |
| 15950.00 | 91.98      | 272.37      | 6828.65   | 8547.43  | -1126.22    | -8550.57    | 1.17           |
| 16044.00 | 90.34      | 269.69      | 6826.76   | 8641.39  | -1124.54    | -8644.52    | 3.34           |
| 16139.00 | 89.97      | 269.13      | 6826.50   | 8736.38  | -1125.52    | -8739.51    | 0.71           |
| 16234.00 | 91.34      | 270.86      | 6825.42   | 8831.36  | -1125.53    | -8834.50    | 2.32           |
| 16328.00 | 91.28      | 271.29      | 6823.28   | 8925.33  | -1123.77    | -8928.46    | 0.47           |
| 16423.00 | 89.56      | 268.05      | 6822.58   | 9020.30  | -1124.32    | -9023.44    | 3.86           |
| 16517.00 | 89.23      | 268.00      | 6823.57   | 9114.23  | -1127.56    | -9117.38    | 0.36           |
| 16612.00 | 88.96      | 267.94      | 6825.07   | 9209.15  | -1130.93    | -9212.31    | 0.29           |
| 16707.00 | 88.79      | 268.47      | 6826.94   | 9304.08  | -1133.91    | -9307.24    | 0.59           |
| 16802.00 | 90.77      | 268.44      | 6827.30   | 9399.03  | -1136.46    | -9402.20    | 2.09           |
| 16870.00 | 90.77      | 268.44      | 6826.38   | 9467.00  | -1138.31    | -9470.17    | 0.00           |

2" = 100' FEET MD