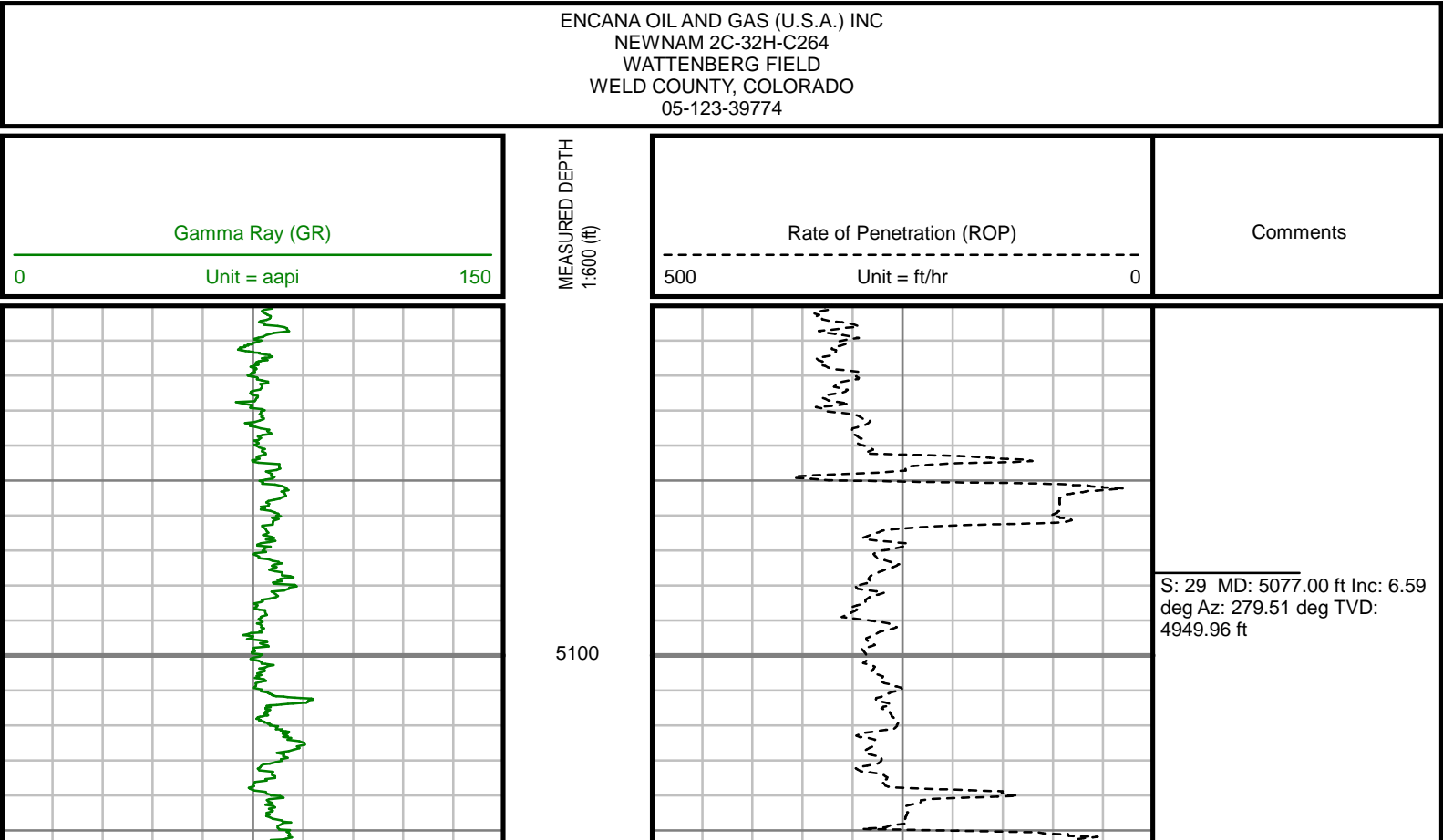
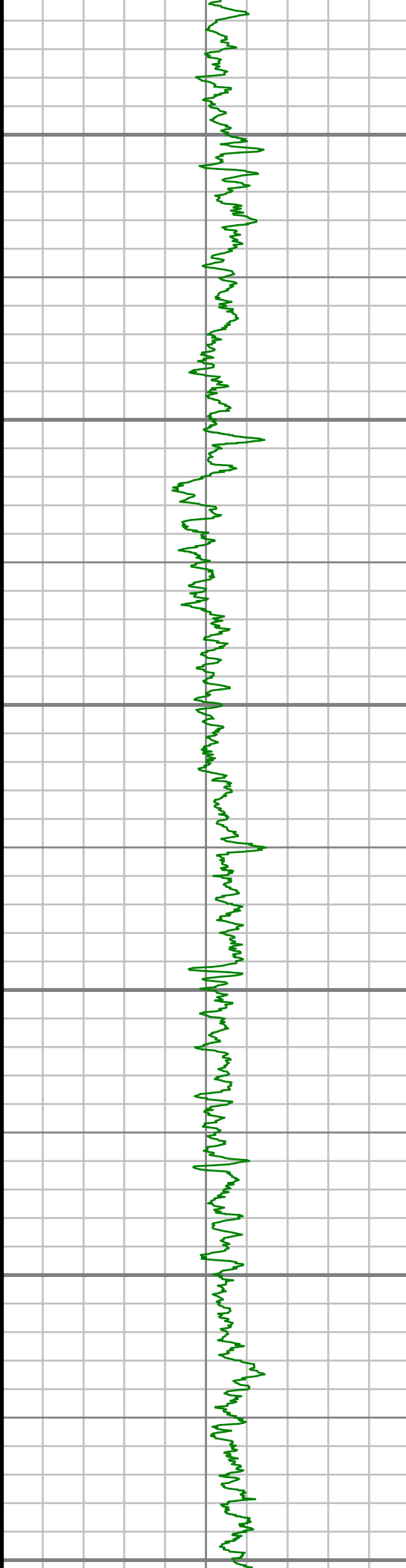


| |
|---|
| Remarks |
| ENCANA OIL AND GAS (USA) INC PRODUCTION AFE# 13179811 |
| SCIENTIFIC DRILLING INTERNATIONAL JOB# 219238 |
| |
| ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH. |
| ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE. |
| |
| FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE |
| FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE |
| |
| RUN #1: MWD / DIRECTIONAL RUN |
| SENSORS S/N: PULSER = 128-063 / CONT = 865 / MWD EYE = 1012 / GMWD = 012 |
| BIT TO SENSOR OFFSETS: SURVEY = 62.22 FT. / GYRO = 49.24 FT. |
| |
| RUN #2: MWD / GAMMA RAY / PROPAGATION RESISTIVITY LOGGING RUN |
| SENSORS S/N: PULSER = 128-003 / CONT = 218 / MWD EYE = 0809 / PRT = 323 / GAMMA RAY = 1194 |
| BIT TO SENSOR OFFSETS: SURVEY = 57.27 FT. / RESISTIVITY = 46.04 FT. / GAMMA RAY = 40.30 FT. |
| |
| RUN #3: MWD / GAMMA RAY LOGGING RUN |
| SENSORS S/N: PULSER = 78-242 / CONT = 865 / MWD EYE = 1012 / GAMMA RAY = 1168 |
| BIT TO SENSOR OFFSETS: SURVEY = 57.27 FT. / GAMMA RAY = 57.08 FT. |
| |
| MNEMONICS LIST: |
| GR = GAMMA RAY |
| ROP = RATE OF PENETRATION |
| |
| |

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.





5200

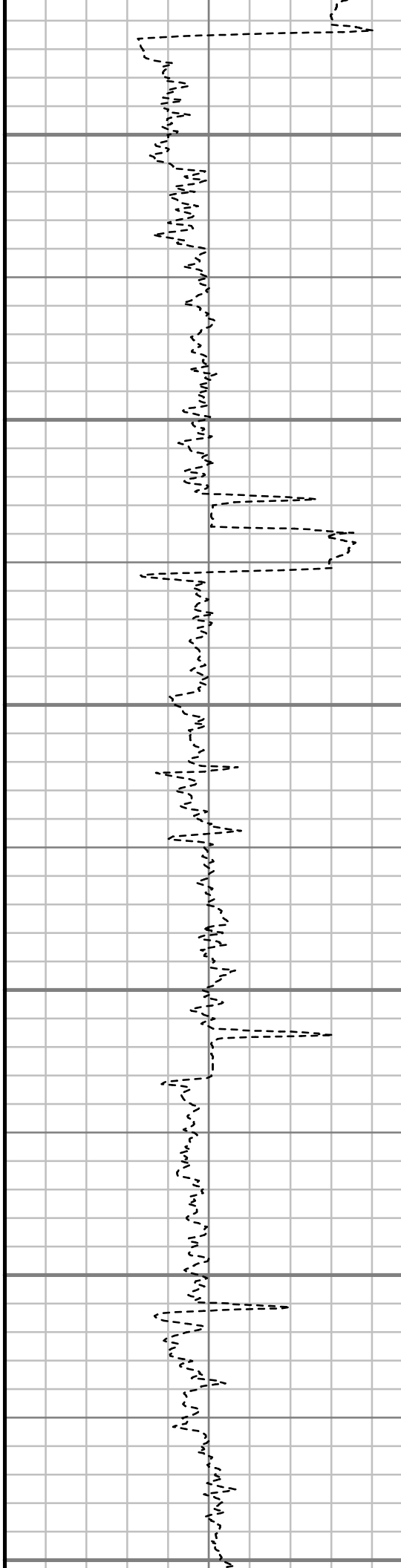
5300

5400

5500

5600

5700



S: 30 MD: 5267.00 ft Inc: 4.06
deg Az: 287.57 deg TVD:
5139.13 ft

S: 31 MD: 5457.00 ft Inc: 2.48
deg Az: 284.06 deg TVD:
5328.81 ft

S: 32 MD: 5647.00 ft Inc: 1.95
deg Az: 266.90 deg TVD:
5518.67 ft



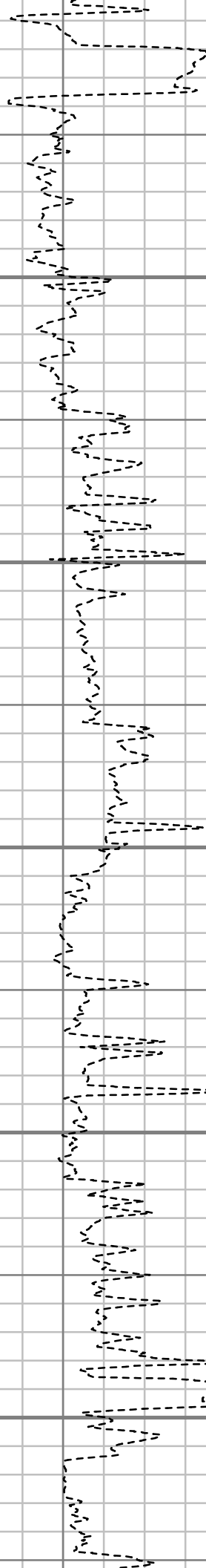
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5900

6000

6100

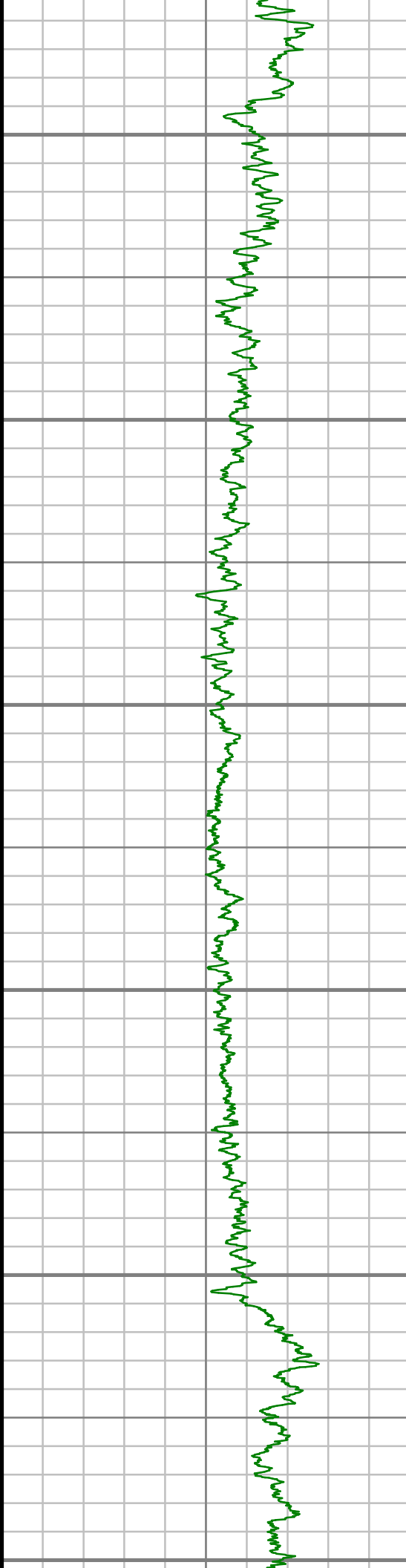
6200



S: 33 MD: 5837.00 ft Inc: 1.17
deg Az: 177.64 deg TVD:
5708.62 ft

S: 34 MD: 6027.00 ft Inc: 1.50
deg Az: 149.22 deg TVD:
5898.57 ft

S: 35 MD: 6218.00 ft Inc: 1.22
deg Az: 99.69 deg TVD:
6089.53 ft



6300

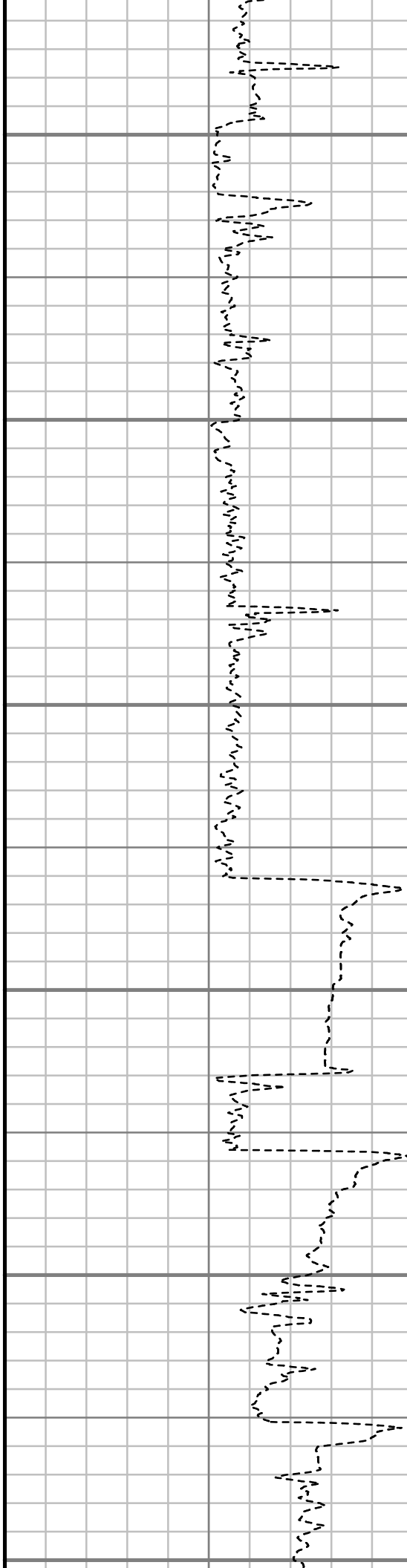
6400

6500

6600

6700

6800



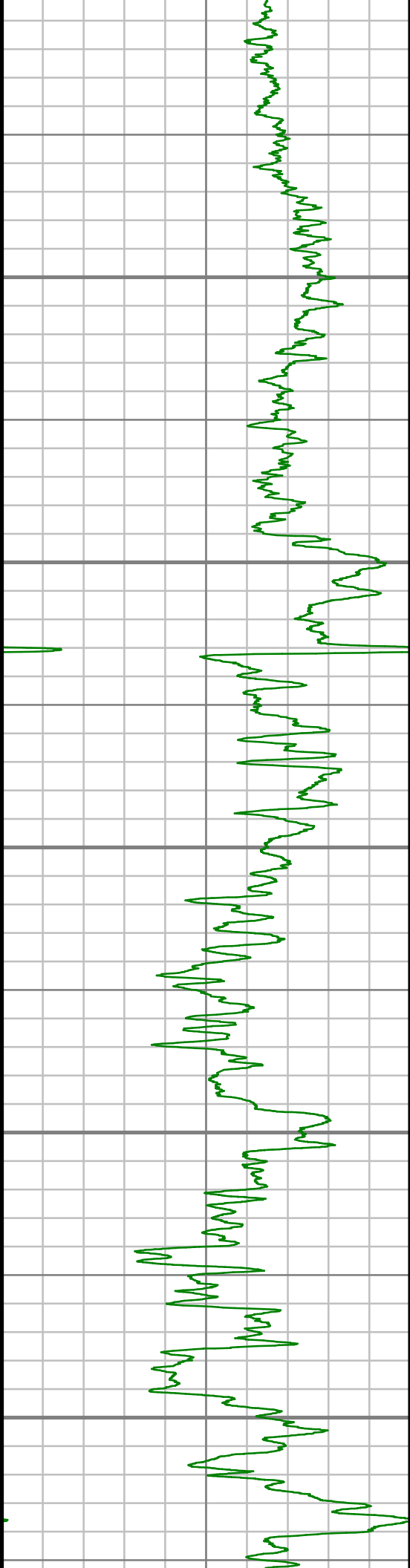
S: 36 MD: 6408.00 ft Inc: 1.46
deg Az: 112.90 deg TVD:
6279.47 ft

S: 37 MD: 6503.00 ft Inc: 1.53
deg Az: 125.99 deg TVD:
6374.44 ft

S: 38 MD: 6597.00 ft Inc: 7.37
deg Az: 161.04 deg TVD:
6468.13 ft

S: 39 MD: 6693.00 ft Inc: 16.50
deg Az: 166.72 deg TVD:
6561.96 ft

S: 40 MD: 6788.00 ft Inc: 23.48
deg Az: 171.05 deg TVD:
6651.48 ft



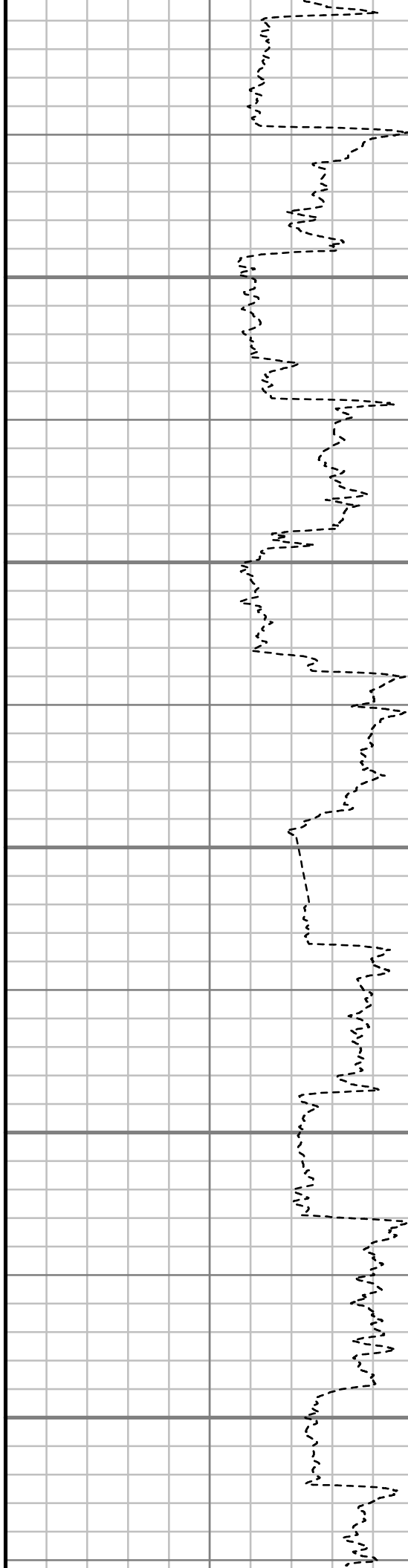
6900

7000

7100

7200

7300



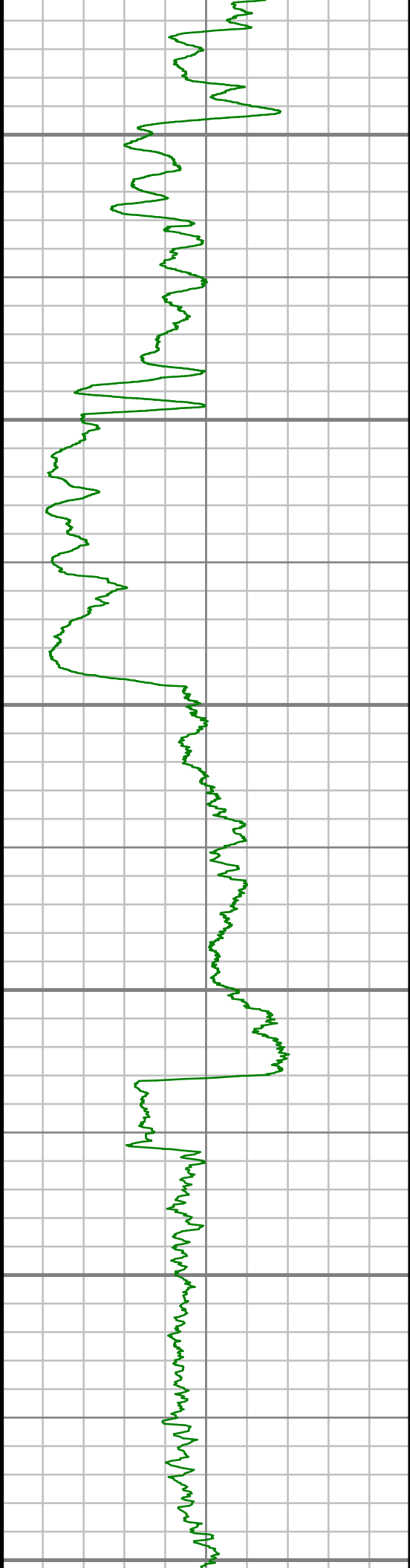
S: 41 MD: 6883.00 ft Inc: 29.85
deg Az: 177.12 deg TVD:
6736.05 ft

S: 42 MD: 6978.00 ft Inc: 35.79
deg Az: 179.51 deg TVD:
6815.86 ft

S: 43 MD: 7074.00 ft Inc: 41.28
deg Az: 180.86 deg TVD:
6890.93 ft

S: 44 MD: 7169.00 ft Inc: 47.33
deg Az: 181.95 deg TVD:
6958.88 ft

S: 45 MD: 7264.00 ft Inc: 54.01
deg Az: 182.90 deg TVD:
7019.06 ft



7400

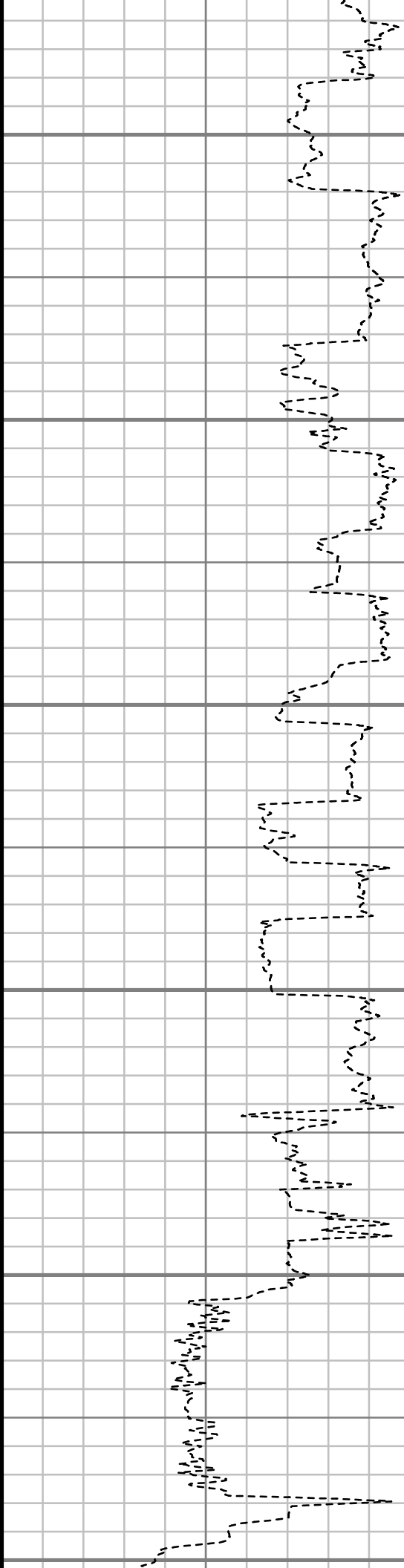
7500

7600

7700

7800

7900



S: 46 MD: 7360.00 ft Inc: 62.27
deg Az: 181.71 deg TVD:
7069.69 ft

S: 47 MD: 7455.00 ft Inc: 70.01
deg Az: 181.12 deg TVD:
7108.09 ft

S: 48 MD: 7502.00 ft Inc: 72.56
deg Az: 181.25 deg TVD:
7123.17 ft

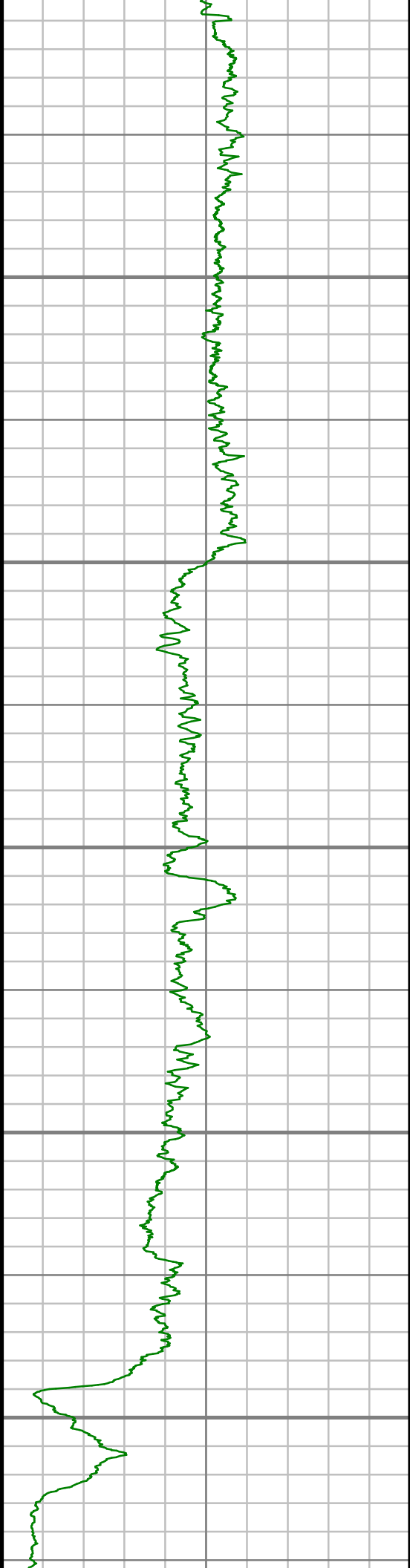
S: 49 MD: 7550.00 ft Inc: 76.14
deg Az: 180.95 deg TVD:
7136.12 ft

S: 50 MD: 7597.00 ft Inc: 79.52
deg Az: 181.44 deg TVD:
7146.03 ft

S: 51 MD: 7645.00 ft Inc: 82.90
deg Az: 182.12 deg TVD:
7153.36 ft

S: 52 MD: 7712.00 ft Inc: 87.61
deg Az: 183.40 deg TVD:
7158.91 ft

S: 53 MD: 7817.00 ft Inc: 90.90
deg Az: 183.02 deg TVD:
7160.27 ft



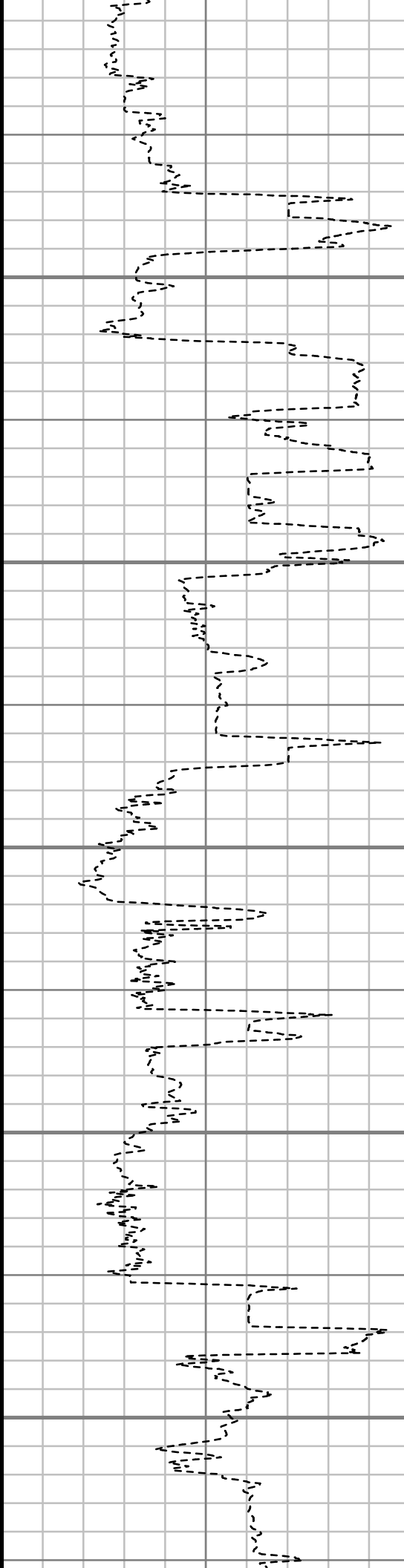
8000

8100

8200

8300

8400



S: 54 MD: 7910.00 ft Inc: 90.47
deg Az: 182.43 deg TVD:
7159.16 ft

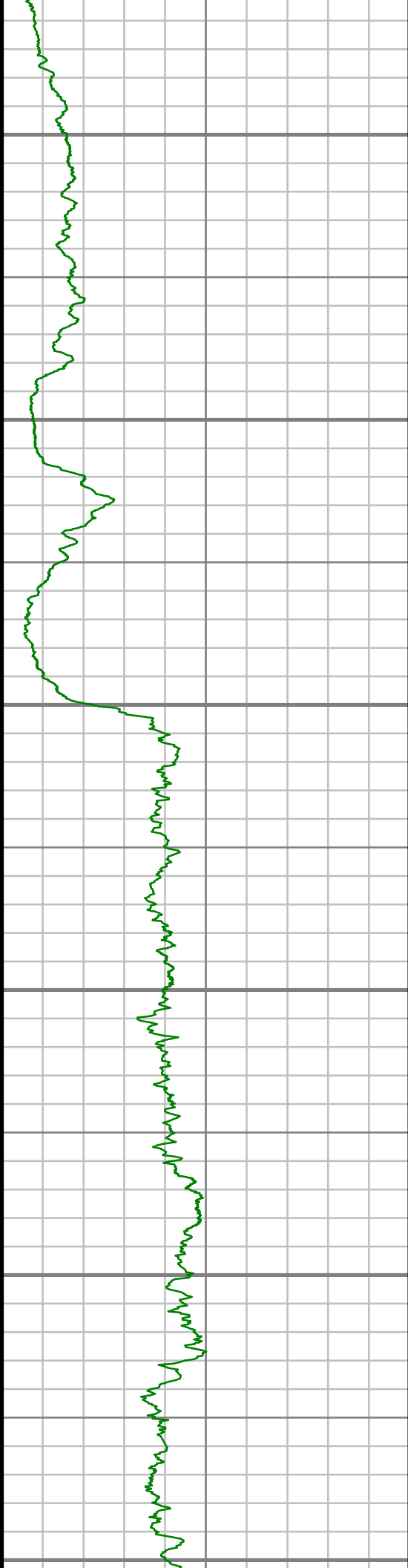
S: 55 MD: 8005.00 ft Inc: 91.04
deg Az: 182.02 deg TVD:
7157.91 ft

S: 56 MD: 8101.00 ft Inc: 92.01
deg Az: 181.79 deg TVD:
7155.35 ft

S: 57 MD: 8196.00 ft Inc: 91.95
deg Az: 181.41 deg TVD:
7152.07 ft

S: 58 MD: 8291.00 ft Inc: 92.12
deg Az: 180.96 deg TVD:
7148.71 ft

S: 59 MD: 8387.00 ft Inc: 90.50
deg Az: 180.49 deg TVD:
7146.51 ft



8500

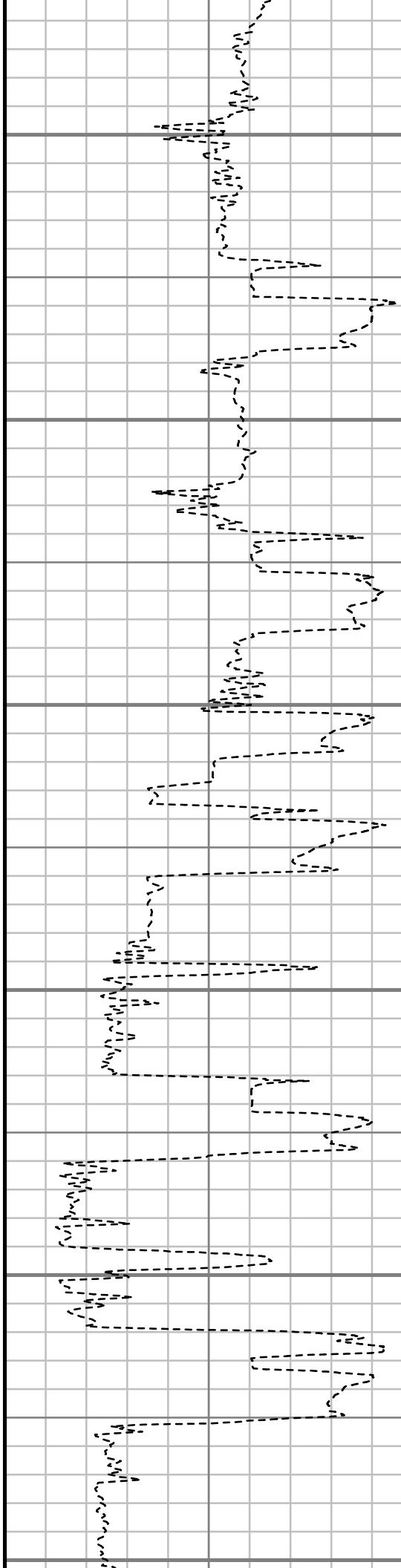
8600

8700

8800

8900

9000



S: 60 MD: 8482.00 ft Inc: 91.41
deg Az: 180.58 deg TVD:
7144.93 ft

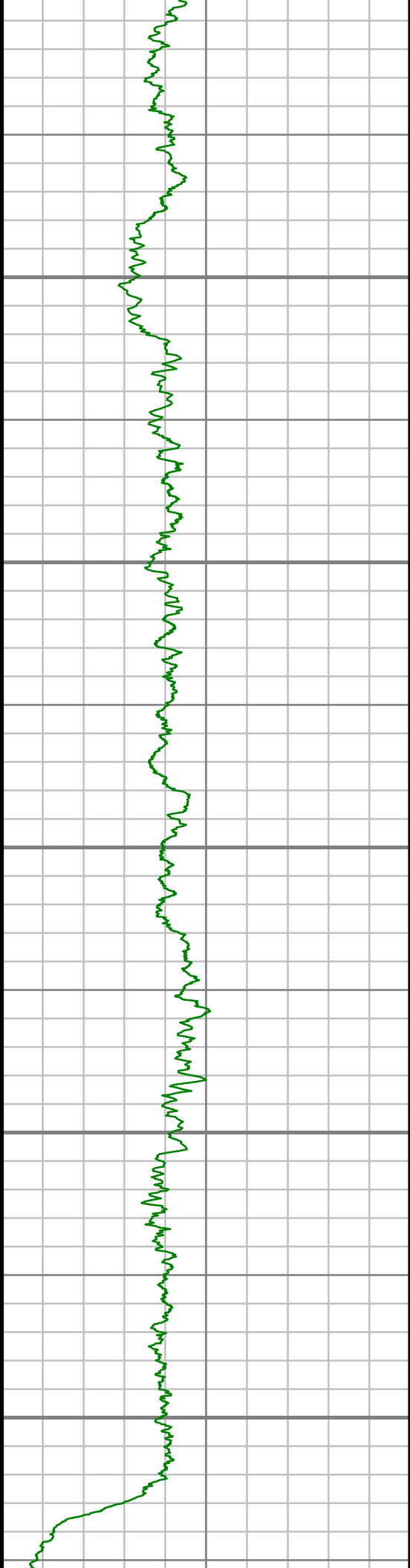
S: 61 MD: 8577.00 ft Inc: 86.38
deg Az: 176.87 deg TVD:
7146.76 ft

S: 62 MD: 8673.00 ft Inc: 88.49
deg Az: 177.54 deg TVD:
7151.06 ft

S: 63 MD: 8768.00 ft Inc: 89.97
deg Az: 180.59 deg TVD:
7152.34 ft

S: 64 MD: 8863.00 ft Inc: 90.97
deg Az: 180.56 deg TVD:
7151.56 ft

S: 65 MD: 8959.00 ft Inc: 92.31
deg Az: 181.98 deg TVD:
7148.81 ft



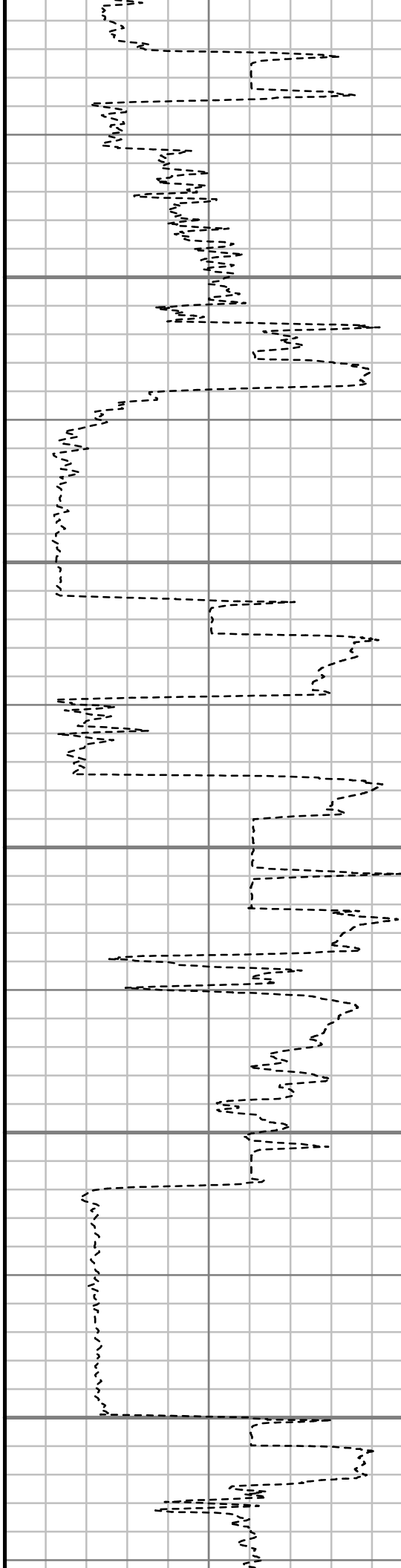
9100

9200

9300

9400

9500



S: 66 MD: 9054.00 ft Inc: 92.61
deg Az: 181.37 deg TVD:
7144.73 ft

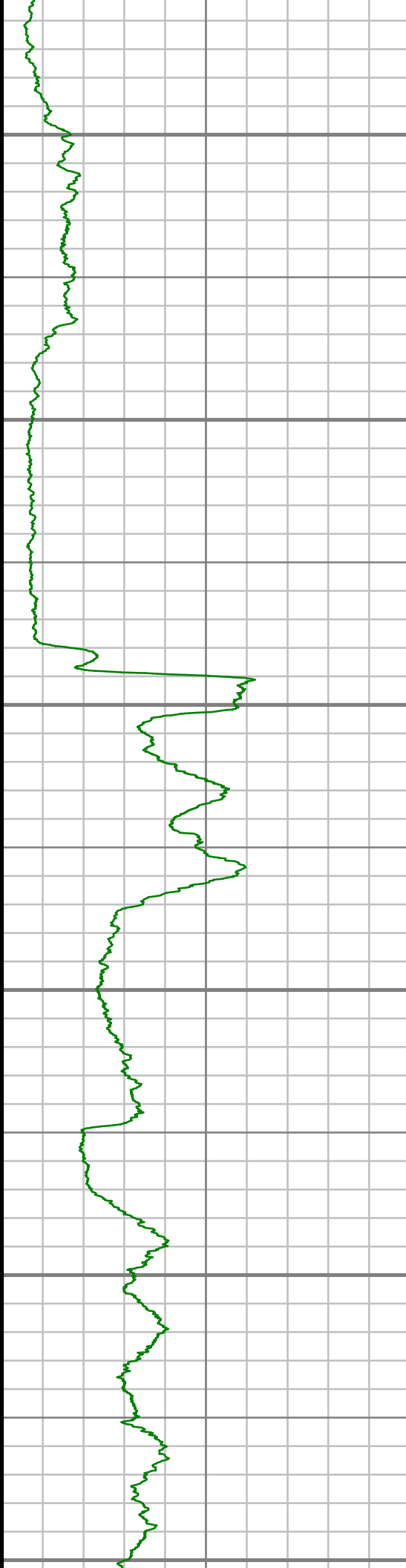
S: 67 MD: 9149.00 ft Inc: 88.06
deg Az: 179.04 deg TVD:
7144.17 ft

S: 68 MD: 9245.00 ft Inc: 89.80
deg Az: 180.15 deg TVD:
7145.97 ft

S: 69 MD: 9340.00 ft Inc: 91.61
deg Az: 182.16 deg TVD:
7144.80 ft

S: 70 MD: 9435.00 ft Inc: 91.84
deg Az: 181.43 deg TVD:
7141.94 ft

S: 71 MD: 9530.00 ft Inc: 91.04
deg Az: 181.56 deg TVD:
7139.55 ft



9600

9700

9800

9900

10000

10100



S: 72 MD: 9626.00 ft Inc: 91.14
deg Az: 180.88 deg TVD:
7137.72 ft

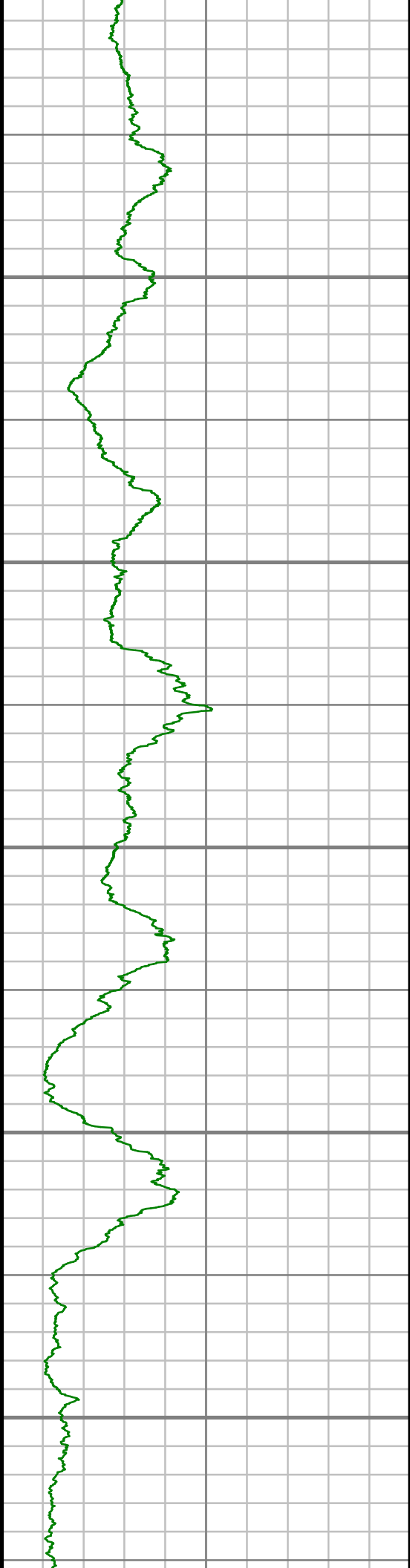
S: 73 MD: 9721.00 ft Inc: 91.61
deg Az: 181.07 deg TVD:
7135.44 ft

S: 74 MD: 9816.00 ft Inc: 91.24
deg Az: 180.36 deg TVD:
7133.07 ft

S: 75 MD: 9911.00 ft Inc: 91.24
deg Az: 181.12 deg TVD:
7131.02 ft

S: 76 MD: 10006.00 ft Inc:
90.10 deg Az: 180.04 deg TVD:
7129.91 ft

S: 77 MD: 10101.00 ft Inc:



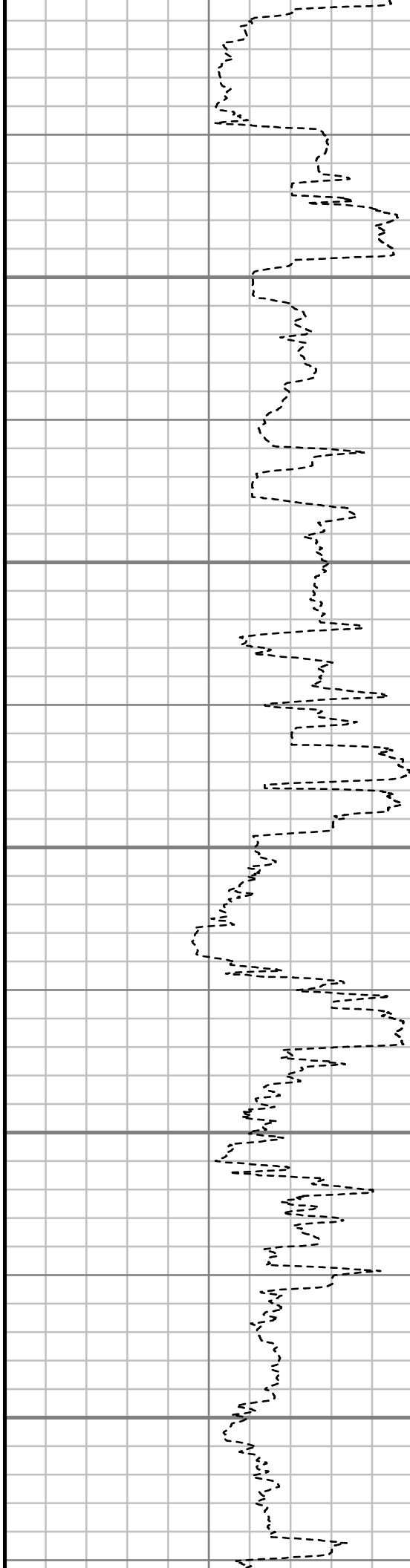
10200

10300

10400

10500

10600



S: 77 MD: 10101.00 ft Inc:
89.06 deg Az: 180.12 deg TVD:
7130.60 ft

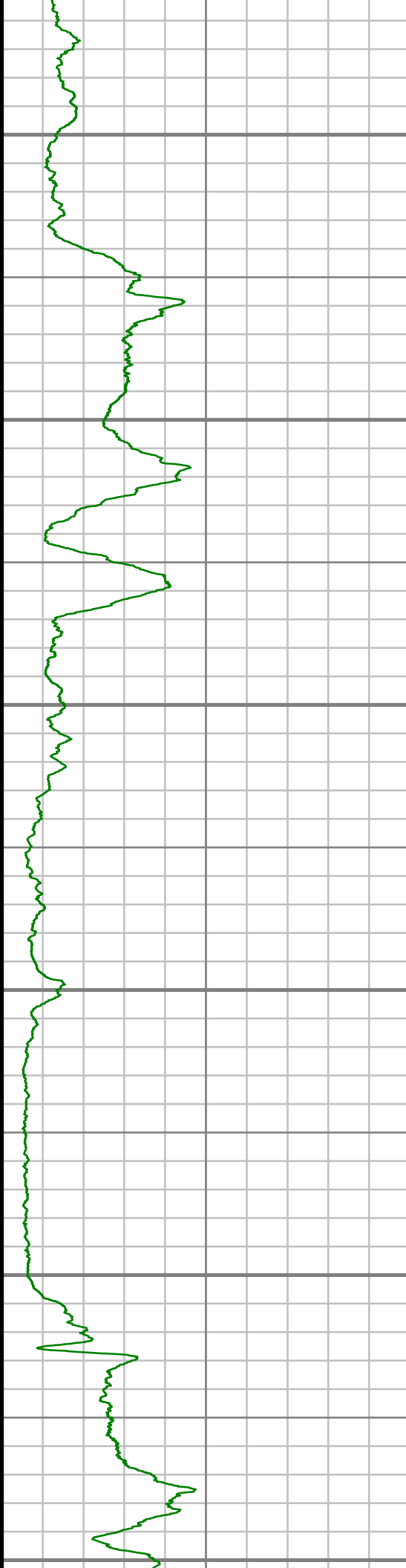
S: 78 MD: 10196.00 ft Inc:
89.66 deg Az: 180.89 deg TVD:
7131.66 ft

S: 79 MD: 10292.00 ft Inc:
88.76 deg Az: 180.24 deg TVD:
7132.98 ft

S: 80 MD: 10387.00 ft Inc:
89.70 deg Az: 180.18 deg TVD:
7134.26 ft

S: 81 MD: 10482.00 ft Inc:
90.87 deg Az: 181.75 deg TVD:
7133.79 ft

S: 82 MD: 10577.00 ft Inc:
90.77 deg Az: 181.40 deg TVD:
7132.43 ft



10700

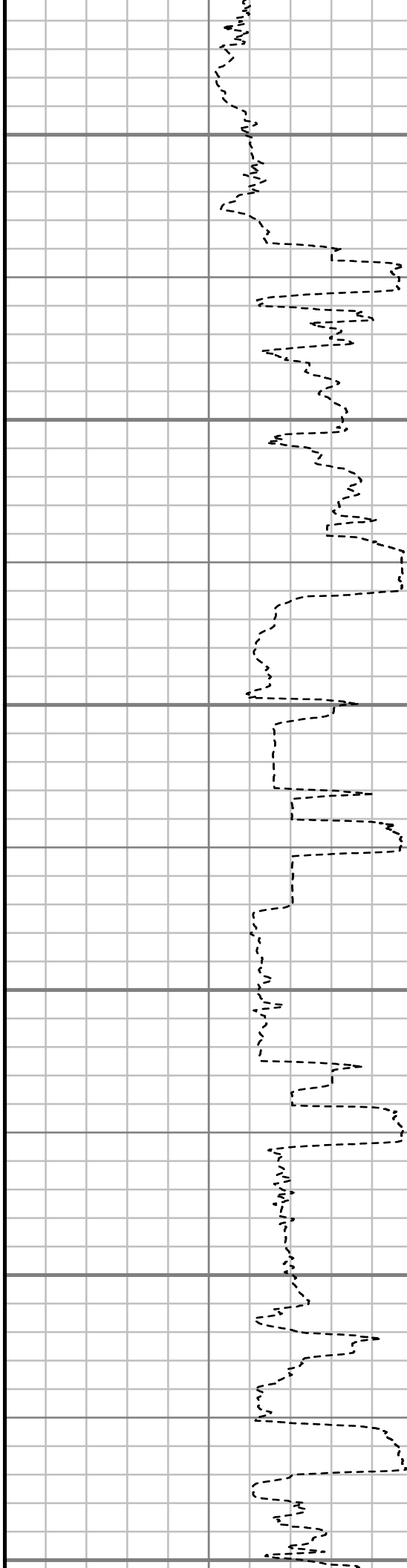
10800

10900

11000

11100

11200



S: 83 MD: 10673.00 ft Inc:
92.68 deg Az: 181.66 deg TVD:
7129.53 ft

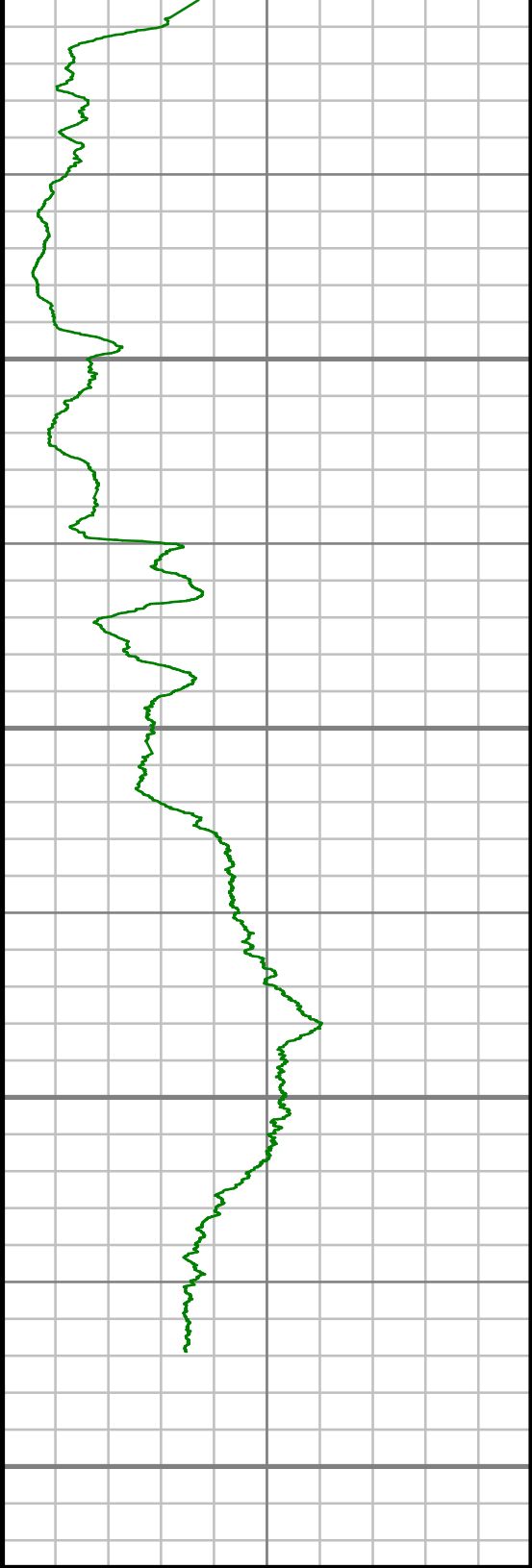
S: 84 MD: 10768.00 ft Inc:
91.11 deg Az: 180.26 deg TVD:
7126.39 ft

S: 85 MD: 10863.00 ft Inc:
89.09 deg Az: 180.44 deg TVD:
7126.23 ft

S: 86 MD: 10959.00 ft Inc:
89.23 deg Az: 181.16 deg TVD:
7127.63 ft

S: 87 MD: 11054.00 ft Inc:
89.09 deg Az: 181.84 deg TVD:
7129.02 ft

S: 88 MD: 11149.00 ft Inc:
88.02 deg Az: 181.21 deg TVD:
7131.41 ft



Gamma Ray (GR)

0 Unit = aapi 150

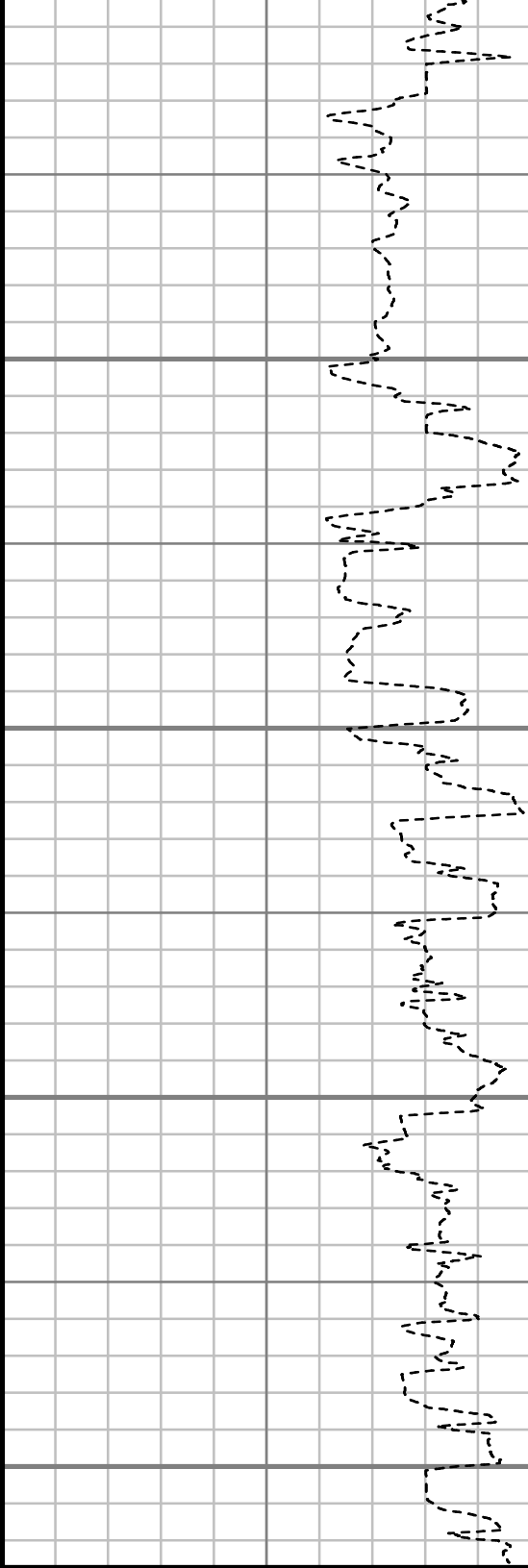
11300

11400

11500

11600

MEASURED DEPTH
1:500 (#)



S: 89 MD: 11244.00 ft Inc:
87.52 deg Az: 181.62 deg TVD:
7135.11 ft

S: 90 MD: 11340.00 ft Inc:
90.87 deg Az: 182.59 deg TVD:
7136.46 ft

S: 91 MD: 11435.00 ft Inc:
88.69 deg Az: 181.74 deg TVD:
7136.82 ft

S: 92 MD: 11530.00 ft Inc:
89.60 deg Az: 182.59 deg TVD:
7138.24 ft

S: 93 MD: 11561.00 ft Inc:
90.80 deg Az: 183.19 deg TVD:
7138.13 ft

Rate of Penetration (ROP)

500 Unit = ft/hr 0

Comments

MWD Survey Report

| | |
|----------------------|--|
| Well Location | NEWNAM |
| Well Name | NEWNAM 2C-32H-C264 |
| Survey Date | 11/6/2014 |
| Latitude | 40°6'5.285"N |
| Longitude | 104°34'43.093"W |
| Btotal | 52524 nT |
| Dip | 66.72 deg |
| Magnetic Declination | 8.38 deg |
| North Reference | True North |
| Grid Correction | None |
| Depth Reference | RKB (13.00 ft) |
| Calculation Method | Minimum Curvature |
| Section (VS) Ref | 0.00N (ft), 0.00E (ft), 194.03Azim (deg) |
| Operator(s) | J. SMITH, M. SMITH, T. WHEELER |

Well Notes

| MD | Inc | Azim | TVD | VS | +N-S | +E-W | Closure Distance | Closure Direction | DLS |
|---------|-------|--------|---------|-------|--------|---------|------------------|-------------------|---------|
| ft | deg | deg | ft | ft | ft | ft | ft | deg | "/100ft |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Invalid |
| 159.00 | 0.35 | 266.75 | 159.00 | 0.15 | -0.03 | -0.49 | 0.49 | 266.75 | 0.22 |
| 251.00 | 1.06 | 272.81 | 250.99 | 0.39 | 0.00 | -1.62 | 1.62 | 269.92 | 0.77 |
| 344.00 | 2.20 | 284.50 | 343.95 | 0.55 | 0.49 | -4.20 | 4.23 | 276.61 | 1.27 |
| 424.00 | 3.71 | 293.80 | 423.84 | 0.09 | 1.92 | -8.05 | 8.28 | 283.38 | 1.97 |
| 517.00 | 5.58 | 289.83 | 516.54 | -0.87 | 4.66 | -15.06 | 15.76 | 287.21 | 2.04 |
| 795.00 | 9.77 | 282.41 | 791.99 | -1.57 | 14.32 | -50.82 | 52.80 | 285.74 | 1.55 |
| 888.00 | 11.29 | 277.02 | 883.42 | -0.24 | 17.13 | -67.57 | 69.71 | 284.23 | 1.95 |
| 968.00 | 11.49 | 275.58 | 961.85 | 1.89 | 18.86 | -83.27 | 85.38 | 282.76 | 0.44 |
| 1271.00 | 14.54 | 286.67 | 1257.08 | 4.57 | 32.71 | -149.77 | 153.30 | 282.32 | 1.30 |
| 1457.00 | 14.64 | 285.46 | 1437.08 | 2.91 | 45.68 | -194.79 | 200.07 | 283.20 | 0.17 |
| 1648.00 | 14.89 | 282.39 | 1621.77 | 3.01 | 57.38 | -242.02 | 248.73 | 283.34 | 0.43 |
| 1838.00 | 15.01 | 278.24 | 1805.35 | 6.19 | 66.14 | -290.22 | 297.66 | 282.84 | 0.57 |
| 2029.00 | 14.97 | 286.78 | 1989.87 | 7.51 | 76.80 | -338.32 | 346.93 | 282.79 | 1.15 |
| 2220.00 | 15.20 | 283.26 | 2174.29 | 6.66 | 89.67 | -386.32 | 396.59 | 283.07 | 0.49 |
| 2410.00 | 14.11 | 279.78 | 2358.11 | 8.71 | 99.32 | -433.40 | 444.63 | 282.91 | 0.74 |
| 2601.00 | 13.97 | 285.92 | 2543.41 | 9.68 | 109.60 | -478.52 | 490.91 | 282.90 | 0.78 |
| 2791.00 | 12.66 | 282.09 | 2728.30 | 9.63 | 120.25 | -520.93 | 534.63 | 283.00 | 0.83 |
| 2982.00 | 13.28 | 285.41 | 2914.43 | 9.81 | 130.46 | -562.54 | 577.47 | 283.06 | 0.51 |

| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | Closure Distance ft | Closure Direction deg | DLS °/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|---------------------------|-----------------------------|----------------|
| 3173.00 | 15.31 | 287.87 | 3099.51 | 7.59 | 144.03 | -607.69 | 624.53 | 283.33 | 1.11 |
| 3363.00 | 14.42 | 287.02 | 3283.15 | 4.68 | 158.65 | -654.18 | 673.15 | 283.63 | 0.48 |
| 3553.00 | 14.59 | 285.20 | 3467.10 | 2.95 | 171.85 | -699.90 | 720.69 | 283.80 | 0.26 |
| 3743.00 | 12.08 | 282.70 | 3651.96 | 2.92 | 182.50 | -742.40 | 764.50 | 283.81 | 1.36 |
| 3934.00 | 12.48 | 284.38 | 3838.59 | 3.26 | 192.02 | -781.89 | 805.12 | 283.80 | 0.28 |
| 4124.00 | 13.84 | 284.12 | 4023.60 | 3.10 | 202.66 | -823.82 | 848.38 | 283.82 | 0.72 |
| 4315.00 | 16.16 | 280.35 | 4208.08 | 4.77 | 213.01 | -872.12 | 897.76 | 283.73 | 1.32 |
| 4505.00 | 15.54 | 278.86 | 4390.86 | 8.76 | 221.69 | -923.28 | 949.52 | 283.50 | 0.39 |
| 4696.00 | 13.97 | 284.09 | 4575.56 | 11.04 | 231.24 | -970.93 | 998.08 | 283.40 | 1.08 |
| 4886.00 | 10.67 | 279.52 | 4761.17 | 12.40 | 239.73 | -1010.52 | 1038.57 | 283.35 | 1.81 |
| 5077.00 | 6.59 | 279.51 | 4949.96 | 14.65 | 244.47 | -1038.79 | 1067.17 | 283.24 | 2.14 |
| 5267.00 | 4.06 | 287.57 | 5139.13 | 15.10 | 248.31 | -1055.96 | 1084.77 | 283.23 | 1.38 |
| 5457.00 | 2.48 | 284.06 | 5328.81 | 14.68 | 251.34 | -1066.37 | 1095.59 | 283.26 | 0.84 |
| 5647.00 | 1.95 | 266.90 | 5518.67 | 15.63 | 252.16 | -1073.60 | 1102.82 | 283.22 | 0.44 |
| 5837.00 | 1.17 | 177.64 | 5708.62 | 18.44 | 250.06 | -1076.76 | 1105.41 | 283.07 | 1.19 |
| 6027.00 | 1.50 | 149.22 | 5898.57 | 22.06 | 245.99 | -1075.40 | 1103.18 | 282.88 | 0.38 |
| 6218.00 | 1.22 | 99.69 | 6089.53 | 23.69 | 243.49 | -1072.13 | 1099.43 | 282.80 | 0.61 |
| 6408.00 | 1.46 | 112.90 | 6279.47 | 23.91 | 242.21 | -1067.91 | 1095.04 | 282.78 | 0.21 |

| MD ft | Inc deg | Azim deg | TVD ft | VS ft | +N/-S ft | +E/-W ft | Closure Distance ft | Closure Direction deg | DLS °/100ft |
|----------|------------|-------------|-----------|----------|-------------|-------------|---------------------------|-----------------------------|----------------|
| 6503.00 | 1.53 | 125.99 | 6374.44 | 24.57 | 241.00 | -1065.77 | 1092.68 | 282.74 | 0.37 |
| 6597.00 | 7.37 | 161.04 | 6468.13 | 30.10 | 234.55 | -1062.80 | 1088.37 | 282.45 | 6.57 |
| 6693.00 | 16.50 | 166.72 | 6561.96 | 47.41 | 215.43 | -1057.65 | 1079.37 | 281.51 | 9.58 |
| 6788.00 | 23.48 | 171.05 | 6651.18 | 76.86 | 183.56 | -1051.60 | 1067.50 | 279.90 | 7.51 |
| 6883.00 | 29.85 | 177.12 | 6736.05 | 116.95 | 141.20 | -1047.47 | 1056.94 | 277.68 | 7.28 |
| 6978.00 | 35.79 | 179.51 | 6815.86 | 166.51 | 89.76 | -1046.04 | 1049.88 | 274.90 | 6.39 |
| 7074.00 | 41.28 | 180.86 | 6890.93 | 224.56 | 29.99 | -1046.27 | 1046.70 | 271.64 | 5.79 |
| 7169.00 | 47.33 | 181.95 | 6958.88 | 289.28 | -36.32 | -1047.93 | 1048.56 | 268.02 | 6.42 |
| 7264.00 | 54.01 | 182.90 | 7019.06 | 361.23 | -109.69 | -1051.07 | 1056.77 | 264.04 | 7.07 |
| 7360.00 | 62.27 | 181.71 | 7069.69 | 440.98 | -191.09 | -1054.30 | 1071.48 | 259.73 | 8.66 |
| 7455.00 | 70.01 | 181.12 | 7108.09 | 525.70 | -277.87 | -1056.43 | 1092.37 | 255.26 | 8.17 |
| 7502.00 | 72.56 | 181.25 | 7123.17 | 569.09 | -322.38 | -1057.35 | 1105.41 | 253.04 | 5.43 |
| 7550.00 | 76.14 | 180.95 | 7136.12 | 614.13 | -368.58 | -1058.24 | 1120.59 | 250.80 | 7.49 |
| 7597.00 | 79.52 | 181.44 | 7146.03 | 658.92 | -414.51 | -1059.20 | 1137.42 | 248.63 | 7.27 |
| 7645.00 | 82.90 | 182.12 | 7153.36 | 705.27 | -461.91 | -1060.67 | 1156.89 | 246.47 | 7.17 |
| 7712.00 | 87.61 | 183.40 | 7158.91 | 770.73 | -528.58 | -1063.89 | 1187.97 | 243.58 | 7.28 |
| 7817.00 | 90.90 | 183.02 | 7160.27 | 873.84 | -633.40 | -1069.77 | 1243.22 | 239.37 | 3.16 |
| 7910.00 | 90.47 | 182.43 | 7159.16 | 965.03 | -726.28 | -1074.18 | 1296.67 | 235.94 | 0.79 |

| MD | Inc | Azim | TVD | VS | +N-S | +E-W | Closure Distance | Closure Direction | DLS |
|---------|-------|--------|---------|---------|----------|----------|------------------|-------------------|---------|
| ft | deg | deg | ft | ft | ft | ft | ft | deg | °/100ft |
| 8005.00 | 91.04 | 182.02 | 7157.91 | 1058.01 | -821.20 | -1077.87 | 1355.06 | 232.70 | 0.73 |
| 8101.00 | 92.01 | 181.79 | 7155.35 | 1151.84 | -917.11 | -1081.07 | 1417.68 | 229.69 | 1.04 |
| 8196.00 | 91.95 | 181.41 | 7152.07 | 1244.56 | -1012.02 | -1083.72 | 1482.78 | 226.96 | 0.42 |
| 8291.00 | 92.12 | 180.96 | 7148.71 | 1337.12 | -1106.94 | -1085.68 | 1550.49 | 224.44 | 0.50 |
| 8387.00 | 90.50 | 180.49 | 7146.51 | 1430.51 | -1202.90 | -1086.89 | 1621.20 | 222.10 | 1.75 |
| | | | | | | | | | |
| 8482.00 | 91.41 | 180.58 | 7144.93 | 1522.88 | -1297.89 | -1087.77 | 1693.45 | 219.97 | 0.96 |
| 8577.00 | 86.38 | 176.87 | 7146.76 | 1614.45 | -1392.80 | -1085.66 | 1765.94 | 217.94 | 6.58 |
| 8673.00 | 88.49 | 177.54 | 7151.06 | 1706.24 | -1488.58 | -1080.99 | 1839.68 | 215.99 | 2.31 |
| 8768.00 | 89.97 | 180.59 | 7152.34 | 1798.00 | -1583.55 | -1079.45 | 1916.46 | 214.28 | 3.56 |
| 8863.00 | 90.97 | 180.56 | 7151.56 | 1890.39 | -1678.54 | -1080.40 | 1996.18 | 212.77 | 1.06 |
| | | | | | | | | | |
| 8959.00 | 92.31 | 181.98 | 7148.81 | 1983.97 | -1774.47 | -1082.52 | 2078.60 | 211.39 | 2.04 |
| 9054.00 | 92.61 | 181.37 | 7144.73 | 2076.69 | -1869.34 | -1085.30 | 2161.55 | 210.14 | 0.71 |
| 9149.00 | 88.06 | 179.04 | 7144.17 | 2168.90 | -1964.31 | -1085.64 | 2244.35 | 208.93 | 5.39 |
| 9245.00 | 89.80 | 180.15 | 7145.97 | 2261.85 | -2060.28 | -1084.96 | 2328.50 | 207.77 | 2.15 |
| 9340.00 | 91.61 | 182.16 | 7144.80 | 2354.45 | -2155.25 | -1086.88 | 2413.79 | 206.76 | 2.85 |
| | | | | | | | | | |
| 9435.00 | 91.84 | 181.43 | 7141.94 | 2447.25 | -2250.16 | -1089.86 | 2500.20 | 205.84 | 0.80 |
| 9530.00 | 91.04 | 181.56 | 7139.55 | 2539.95 | -2345.09 | -1092.34 | 2587.02 | 204.98 | 0.86 |
| 9626.00 | 91.14 | 180.88 | 7137.72 | 2633.55 | -2441.05 | -1094.39 | 2675.15 | 204.15 | 0.72 |

| MD | Inc | Azim | TVD | VS | +N-S | +E-W | Closure Distance | Closure Direction | DLS |
|----------|-------|--------|---------|---------|----------|----------|------------------|-------------------|---------|
| ft | deg | deg | ft | ft | ft | ft | ft | deg | °/100ft |
| 9721.00 | 91.61 | 181.07 | 7135.44 | 2726.07 | -2536.01 | -1096.01 | 2762.72 | 203.37 | 0.54 |
| 9816.00 | 91.24 | 180.36 | 7133.07 | 2818.48 | -2630.98 | -1097.20 | 2850.59 | 202.64 | 0.84 |
| | | | | | | | | | |
| 9911.00 | 91.24 | 181.12 | 7131.02 | 2910.92 | -2725.94 | -1098.43 | 2938.93 | 201.95 | 0.80 |
| 10006.00 | 90.10 | 180.04 | 7129.91 | 3003.30 | -2820.93 | -1099.39 | 3027.59 | 201.29 | 1.65 |
| 10101.00 | 89.06 | 180.12 | 7130.60 | 3095.50 | -2915.93 | -1099.52 | 3116.34 | 200.66 | 1.10 |
| 10196.00 | 89.66 | 180.89 | 7131.66 | 3187.86 | -3010.92 | -1100.36 | 3205.68 | 200.08 | 1.03 |
| 10292.00 | 88.76 | 180.24 | 7132.98 | 3281.21 | -3106.90 | -1101.30 | 3296.31 | 199.52 | 1.16 |
| | | | | | | | | | |
| 10387.00 | 89.70 | 180.18 | 7134.26 | 3373.45 | -3201.89 | -1101.65 | 3386.11 | 198.99 | 0.99 |
| 10482.00 | 90.87 | 181.75 | 7133.79 | 3465.98 | -3296.87 | -1103.25 | 3476.57 | 198.50 | 2.07 |
| 10577.00 | 90.77 | 181.40 | 7132.43 | 3558.74 | -3391.82 | -1105.87 | 3567.55 | 198.06 | 0.39 |
| 10673.00 | 92.68 | 181.66 | 7129.53 | 3652.41 | -3487.74 | -1108.43 | 3659.64 | 197.63 | 2.01 |
| 10768.00 | 91.11 | 180.26 | 7126.39 | 3744.90 | -3582.67 | -1110.01 | 3750.69 | 197.21 | 2.22 |
| | | | | | | | | | |
| 10863.00 | 89.09 | 180.44 | 7126.23 | 3837.20 | -3677.66 | -1110.60 | 3841.70 | 196.80 | 2.12 |
| 10959.00 | 89.23 | 181.16 | 7127.63 | 3930.64 | -3773.64 | -1111.94 | 3934.06 | 196.42 | 0.76 |
| 11054.00 | 89.09 | 181.84 | 7129.02 | 4023.37 | -3868.60 | -1114.43 | 4025.92 | 196.07 | 0.72 |
| 11149.00 | 88.02 | 181.21 | 7131.41 | 4116.08 | -3963.54 | -1116.95 | 4117.91 | 195.74 | 1.30 |
| 11244.00 | 87.52 | 181.62 | 7135.11 | 4208.72 | -4058.43 | -1119.30 | 4209.95 | 195.42 | 0.68 |
| | | | | | | | | | |
| 11340.00 | 90.87 | 182.59 | 7136.46 | 4302.62 | -4154.34 | -1122.82 | 4303.41 | 195.12 | 3.64 |

| MD | Inc | Azim | TVD | VS | +N/-S | +E/-W | Closure Distance | Closure Direction | DLS |
|----------|-------|--------|---------|---------|----------|----------|------------------|-------------------|---------|
| ft | deg | deg | ft | ft | ft | ft | ft | deg | °/100ft |
| 11435.00 | 88.69 | 181.74 | 7136.82 | 4395.58 | -4249.27 | -1126.41 | 4396.03 | 194.85 | 2.46 |
| 11530.00 | 89.60 | 182.59 | 7138.24 | 4488.54 | -4344.19 | -1130.00 | 4488.75 | 194.58 | 1.30 |
| 11561.00 | 90.80 | 183.19 | 7138.13 | 4518.96 | -4375.15 | -1131.56 | 4519.11 | 194.50 | 4.36 |

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

2" = 100' FEET MD