

| Measured<br>Depth<br>(feet) | Course<br>Inclination | Course<br>Direction | Vertical<br>Depth<br>(feet) | Rectangular<br>Coordinates |       | Vertical<br>Section | Dogleg<br>Severity<br>(per100) |
|-----------------------------|-----------------------|---------------------|-----------------------------|----------------------------|-------|---------------------|--------------------------------|
|                             |                       |                     |                             | N/S                        | E/W   |                     |                                |
| 3100.00                     | 1.20                  | 32.56               | 3099.82                     | 2.30                       | 5.08  | 2.30                | 0.08                           |
| 3200.00                     | 1.07                  | 40.40               | 3199.80                     | 3.89                       | 6.25  | 3.89                | 0.20                           |
| 3300.00                     | 0.99                  | 56.43               | 3299.79                     | 5.07                       | 7.57  | 5.07                | 0.30                           |
| 3400.00                     | 0.98                  | 70.01               | 3399.77                     | 5.85                       | 9.10  | 5.85                | 0.23                           |
| 3500.00                     | 0.82                  | 86.21               | 3499.76                     | 6.19                       | 10.61 | 6.19                | 0.30                           |
| 3600.00                     | 0.84                  | 90.31               | 3599.75                     | 6.23                       | 12.06 | 6.23                | 0.06                           |
| 3700.00                     | 0.97                  | 76.92               | 3699.74                     | 6.42                       | 13.62 | 6.42                | 0.25                           |
| 3800.00                     | 0.76                  | 52.10               | 3799.73                     | 7.01                       | 14.96 | 7.01                | 0.42                           |
| 3900.00                     | 0.70                  | 54.81               | 3899.72                     | 7.78                       | 15.99 | 7.78                | 0.07                           |
| 4000.00                     | 0.74                  | 71.38               | 3999.71                     | 8.33                       | 17.10 | 8.33                | 0.21                           |
| 4100.00                     | 0.67                  | 82.04               | 4099.70                     | 8.62                       | 18.30 | 8.62                | 0.15                           |
| 4200.00                     | 0.66                  | 89.15               | 4199.70                     | 8.71                       | 19.46 | 8.71                | 0.08                           |
| 4300.00                     | 0.45                  | 120.30              | 4299.69                     | 8.52                       | 20.37 | 8.52                | 0.37                           |
| 4400.00                     | 0.37                  | 119.88              | 4399.69                     | 8.17                       | 20.99 | 8.17                | 0.08                           |
| 4500.00                     | 0.41                  | 119.06              | 4499.69                     | 7.84                       | 21.58 | 7.84                | 0.04                           |
| 4600.00                     | 0.27                  | 95.40               | 4599.68                     | 7.64                       | 22.13 | 7.64                | 0.20                           |
| 4700.00                     | 0.37                  | 103.49              | 4699.68                     | 7.54                       | 22.68 | 7.54                | 0.11                           |
| 4800.00                     | 0.30                  | 95.95               | 4799.68                     | 7.44                       | 23.26 | 7.44                | 0.09                           |
| 4900.00                     | 0.27                  | 92.53               | 4899.68                     | 7.40                       | 23.76 | 7.40                | 0.03                           |
| 5000.00                     | 0.28                  | 150.17              | 4999.68                     | 7.18                       | 24.12 | 7.18                | 0.27                           |
| 5100.00                     | 0.39                  | 166.27              | 5099.68                     | 6.63                       | 24.32 | 6.63                | 0.15                           |
| 5200.00                     | 0.42                  | 142.53              | 5199.67                     | 6.01                       | 24.62 | 6.01                | 0.17                           |
| 5300.00                     | 0.39                  | 104.49              | 5299.67                     | 5.63                       | 25.17 | 5.63                | 0.26                           |
| 5400.00                     | 0.36                  | 127.95              | 5399.67                     | 5.36                       | 25.75 | 5.36                | 0.15                           |
| 5500.00                     | 0.44                  | 131.47              | 5499.67                     | 4.91                       | 26.28 | 4.91                | 0.08                           |
| 5600.00                     | 0.34                  | 147.48              | 5599.66                     | 4.40                       | 26.73 | 4.40                | 0.14                           |
| 5700.00                     | 0.39                  | 130.98              | 5699.66                     | 3.93                       | 27.14 | 3.93                | 0.12                           |
| 5800.00                     | 0.30                  | 92.52               | 5799.66                     | 3.70                       | 27.66 | 3.70                | 0.24                           |
| 5900.00                     | 0.53                  | 196.47              | 5899.66                     | 3.24                       | 27.79 | 3.24                | 0.66                           |
| 6000.00                     | 0.65                  | 229.73              | 5999.65                     | 2.43                       | 27.22 | 2.43                | 0.36                           |
| 6100.00                     | 0.67                  | 224.58              | 6099.65                     | 1.65                       | 26.38 | 1.65                | 0.06                           |
| 6200.00                     | 0.61                  | 254.30              | 6199.64                     | 1.09                       | 25.46 | 1.09                | 0.33                           |
| 6300.00                     | 0.59                  | 261.88              | 6299.63                     | 0.88                       | 24.44 | 0.88                | 0.08                           |
| 6400.00                     | 0.67                  | 268.95              | 6399.63                     | 0.79                       | 23.35 | 0.79                | 0.12                           |
| 6500.00                     | 0.63                  | 266.55              | 6499.62                     | 0.75                       | 22.22 | 0.75                | 0.05                           |
| 6600.00                     | 0.63                  | 276.27              | 6599.62                     | 0.78                       | 21.13 | 0.78                | 0.11                           |
| 6700.00                     | 0.51                  | 264.02              | 6699.61                     | 0.79                       | 20.15 | 0.79                | 0.17                           |
| 6800.00                     | 0.37                  | 279.52              | 6799.61                     | 0.80                       | 19.39 | 0.80                | 0.18                           |
| 6900.00                     | 0.45                  | 286.12              | 6899.60                     | 0.96                       | 18.69 | 0.96                | 0.09                           |
| 7000.00                     | 0.46                  | 273.17              | 6999.60                     | 1.09                       | 17.91 | 1.09                | 0.10                           |
| 7100.00                     | 0.24                  | 253.82              | 7099.60                     | 1.06                       | 17.31 | 1.06                | 0.24                           |
| 7200.00                     | 0.33                  | 264.39              | 7199.60                     | 0.97                       | 16.82 | 0.97                | 0.10                           |
| 7300.00                     | 0.24                  | 255.75              | 7299.60                     | 0.89                       | 16.33 | 0.89                | 0.09                           |
| 7400.00                     | 0.24                  | 254.06              | 7399.60                     | 0.78                       | 15.93 | 0.78                | 0.01                           |
| 7500.00                     | 0.31                  | 274.31              | 7499.60                     | 0.74                       | 15.46 | 0.74                | 0.12                           |
| 7600.00                     | 0.33                  | 247.69              | 7599.59                     | 0.66                       | 14.92 | 0.66                | 0.15                           |
| 7700.00                     | 0.33                  | 256.54              | 7699.59                     | 0.48                       | 14.37 | 0.48                | 0.05                           |
| 7800.00                     | 0.47                  | 247.65              | 7799.59                     | 0.26                       | 13.71 | 0.26                | 0.15                           |
| 7900.00                     | 0.41                  | 245.59              | 7899.59                     | -0.05                      | 13.00 | -0.05               | 0.06                           |
| 8000.00                     | 0.40                  | 223.87              | 7999.58                     | -0.45                      | 12.43 | -0.45               | 0.15                           |
| 8100.00                     | 0.37                  | 187.08              | 8099.58                     | -1.03                      | 12.14 | -1.03               | 0.25                           |
| 8200.00                     | 0.32                  | 152.73              | 8199.58                     | -1.60                      | 12.23 | -1.60               | 0.21                           |