

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 | BUILD<br>RATE<br>Deg/100 | Course<br>Length<br>FT |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|--------------------------|------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |                          |                        |
| 4189.00                 | 19.30                | 177.30                    | 4171.51                   | -87.08    | -53.93    | 88.20                     | 102.43         | 211.77           | .81                           | .62                      | 32.00                  |
| 4221.00                 | 19.80                | 176.60                    | 4201.67                   | -97.77    | -53.36    | 98.88                     | 111.39         | 208.62           | 1.73                          | 1.56                     | 32.00                  |
| 4253.00                 | 20.10                | 176.60                    | 4231.75                   | -108.67   | -52.71    | 109.76                    | 120.78         | 205.88           | .94                           | .94                      | 32.00                  |
| 4316.00                 | 21.20                | 176.40                    | 4290.70                   | -130.85   | -51.35    | 131.90                    | 140.57         | 201.43           | 1.75                          | 1.75                     | 63.00                  |
| 4379.00                 | 21.70                | 180.10                    | 4349.34                   | -153.87   | -50.66    | 154.90                    | 161.99         | 198.22           | 2.29                          | .79                      | 63.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 4442.00                 | 22.70                | 180.30                    | 4407.67                   | -177.67   | -50.74    | 178.70                    | 184.77         | 195.94           | 1.59                          | 1.59                     | 63.00                  |
| 4527.00                 | 22.20                | 178.80                    | 4486.22                   | -210.13   | -50.49    | 211.15                    | 216.11         | 193.51           | .89                           | -.59                     | 85.00                  |
| 4601.00                 | 21.60                | 178.10                    | 4554.88                   | -237.72   | -49.75    | 238.71                    | 242.87         | 191.82           | .88                           | -.81                     | 74.00                  |
| 4664.00                 | 22.00                | 181.60                    | 4613.38                   | -261.10   | -49.69    | 262.09                    | 265.79         | 190.78           | 2.16                          | .63                      | 63.00                  |
| 4728.00                 | 23.50                | 181.80                    | 4672.40                   | -285.84   | -50.43    | 286.84                    | 290.25         | 190.01           | 2.35                          | 2.34                     | 64.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 4791.00                 | 22.90                | 181.20                    | 4730.31                   | -310.65   | -51.08    | 311.66                    | 314.82         | 189.34           | 1.02                          | -.95                     | 63.00                  |
| 4854.00                 | 22.20                | 180.50                    | 4788.49                   | -334.81   | -51.44    | 335.82                    | 338.73         | 188.73           | 1.19                          | -1.11                    | 63.00                  |
| 4921.00                 | 22.80                | 181.80                    | 4850.39                   | -360.44   | -51.96    | 361.46                    | 364.16         | 188.20           | 1.16                          | .90                      | 67.00                  |
| 4984.00                 | 22.50                | 180.90                    | 4908.53                   | -384.69   | -52.53    | 385.72                    | 388.26         | 187.78           | .73                           | -.48                     | 63.00                  |
| 5047.00                 | 21.30                | 180.40                    | 4966.98                   | -408.19   | -52.80    | 409.21                    | 411.59         | 187.37           | 1.93                          | -1.90                    | 63.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 5111.00                 | 20.70                | 180.30                    | 5026.73                   | -431.12   | -52.94    | 432.15                    | 434.36         | 187.00           | .94                           | -.94                     | 64.00                  |
| 5143.00                 | 20.40                | 178.80                    | 5056.70                   | -442.36   | -52.85    | 443.37                    | 445.50         | 186.81           | 1.89                          | -.94                     | 32.00                  |
| 5175.00                 | 21.20                | 179.10                    | 5086.61                   | -453.72   | -52.65    | 454.73                    | 456.76         | 186.62           | 2.52                          | 2.50                     | 32.00                  |
| 5206.00                 | 21.90                | 179.50                    | 5115.44                   | -465.10   | -52.51    | 466.11                    | 468.06         | 186.44           | 2.31                          | 2.26                     | 31.00                  |
| 5238.00                 | 22.30                | 179.60                    | 5145.09                   | -477.14   | -52.41    | 478.14                    | 480.01         | 186.27           | 1.26                          | 1.25                     | 32.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 5302.00                 | 22.70                | 179.80                    | 5204.22                   | -501.63   | -52.29    | 502.63                    | 504.35         | 185.95           | .64                           | .62                      | 64.00                  |
| 5333.00                 | 21.90                | 179.00                    | 5232.90                   | -513.40   | -52.16    | 514.38                    | 516.04         | 185.80           | 2.76                          | -2.58                    | 31.00                  |
| 5365.00                 | 21.60                | 178.60                    | 5262.62                   | -525.25   | -51.92    | 526.23                    | 527.81         | 185.64           | 1.05                          | -.94                     | 32.00                  |
| 5397.00                 | 22.10                | 178.20                    | 5292.32                   | -537.16   | -51.58    | 538.12                    | 539.63         | 185.49           | 1.63                          | 1.56                     | 32.00                  |
| 5429.00                 | 22.30                | 178.00                    | 5321.95                   | -549.24   | -51.18    | 550.20                    | 551.62         | 185.32           | .67                           | .62                      | 32.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 5492.00                 | 22.20                | 176.70                    | 5380.26                   | -573.07   | -50.08    | 574.00                    | 575.25         | 184.99           | .80                           | -.16                     | 63.00                  |
| 5524.00                 | 22.00                | 175.70                    | 5409.91                   | -585.08   | -49.28    | 585.99                    | 587.15         | 184.81           | 1.33                          | -.62                     | 32.00                  |
| 5556.00                 | 21.90                | 176.60                    | 5439.59                   | -597.01   | -48.48    | 597.90                    | 598.98         | 184.64           | 1.10                          | -.31                     | 32.00                  |
| 5587.00                 | 21.60                | 176.40                    | 5468.38                   | -608.48   | -47.78    | 609.35                    | 610.35         | 184.49           | 1.00                          | -.97                     | 31.00                  |
| 5619.00                 | 22.70                | 177.60                    | 5498.02                   | -620.53   | -47.15    | 621.38                    | 622.32         | 184.35           | 3.72                          | 3.44                     | 32.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 5683.00                 | 22.50                | 178.00                    | 5557.11                   | -645.10   | -46.20    | 645.94                    | 646.76         | 184.10           | .39                           | -.31                     | 64.00                  |
| 5746.00                 | 21.80                | 179.60                    | 5615.46                   | -668.85   | -45.70    | 669.67                    | 670.41         | 183.91           | 1.47                          | -1.11                    | 63.00                  |
| 5810.00                 | 22.30                | 182.60                    | 5674.78                   | -692.86   | -46.17    | 693.68                    | 694.40         | 183.81           | 1.93                          | .78                      | 64.00                  |
| 5842.00                 | 23.30                | 183.60                    | 5704.28                   | -705.25   | -46.84    | 706.08                    | 706.80         | 183.80           | 3.35                          | 3.13                     | 32.00                  |
| 5905.00                 | 23.50                | 183.30                    | 5762.10                   | -730.22   | -48.35    | 731.08                    | 731.82         | 183.79           | .37                           | .32                      | 63.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 5937.00                 | 22.60                | 182.50                    | 5791.54                   | -742.73   | -48.98    | 743.60                    | 744.35         | 183.77           | 2.98                          | -2.81                    | 32.00                  |
| 5969.00                 | 22.60                | 182.30                    | 5821.08                   | -755.02   | -49.50    | 755.90                    | 756.64         | 183.75           | .24                           | .00                      | 32.00                  |
| 6032.00                 | 23.90                | 186.80                    | 5878.97                   | -779.79   | -51.50    | 780.70                    | 781.49         | 183.78           | 3.49                          | 2.06                     | 63.00                  |
| 6095.00                 | 23.00                | 187.10                    | 5936.77                   | -804.68   | -54.53    | 805.65                    | 806.52         | 183.88           | 1.44                          | -1.43                    | 63.00                  |
| 6159.00                 | 21.70                | 186.50                    | 5995.96                   | -828.84   | -57.41    | 829.87                    | 830.83         | 183.96           | 2.06                          | -2.03                    | 64.00                  |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |                          |                        |
| 6191.00                 | 21.90                | 186.60                    | 6025.67                   | -840.65   | -58.77    | 841.70                    | 842.70         | 184.00           | .64                           | .62                      | 32.00                  |
| 6223.00                 | 23.40                | 187.60                    | 6055.20                   | -852.88   | -60.30    | 853.96                    | 855.00         | 184.04           | 4.84                          | 4.69                     | 32.00                  |