

Job Number: 23D111238  
 Company: Stone Energy  
 Lease/Well: Potts #7H  
 Location: Wetzel County  
 Rig Name: Saxon 141  
 RKB: 18  
 G.L. or M.S.L.: 1326

State/Country: West Virginia  
 Declination: -8.41  
 Grid: .84  
 File name: D:\WINSERVE\STONEJ-1P#7H.SVY  
 Date/Time: 22-Nov-11 / 00:12  
 Curve Name: Potts #7H As Drilled

Scientific Drilling

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane 160.87  
 Vertical Section Referenced to Wellhead  
 Rectangular Coordinates Referenced to Wellhead

| Measured Depth FT | Incl Angle Deg | Drift Direction Deg | True Vertical Depth | N-S FT | E-W FT | Vertical Section FT | Distance FT | CLOSURE Direction Deg | Dogleg Severity Deg/100 |
|-------------------|----------------|---------------------|---------------------|--------|--------|---------------------|-------------|-----------------------|-------------------------|
| .00               | .00            | .00                 | .00                 | .00    | .00    | .00                 | .00         | .00                   | .00                     |
| 108.00            | .03            | 204.86              | 108.00              | -.03   | -.01   | .02                 | .03         | 204.85                | .03                     |
| 208.00            | .03            | 244.66              | 208.00              | -.06   | -.05   | .04                 | .08         | 217.52                | .02                     |
| 308.00            | .08            | 294.80              | 308.00              | -.04   | -.13   | .00                 | .14         | 252.34                | .06                     |
| 408.00            | .08            | 275.59              | 408.00              | -.01   | -.27   | -.08                | .27         | 268.62                | .03                     |
| 508.00            | .13            | 289.85              | 508.00              | .04    | -.44   | -.18                | .44         | 275.02                | .06                     |
| 608.00            | .04            | 263.26              | 608.00              | .07    | -.58   | -.26                | .59         | 277.15                | .10                     |
| 708.00            | .14            | 301.75              | 708.00              | .13    | -.72   | -.36                | .73         | 280.47                | .11                     |
| 808.00            | .07            | 285.35              | 808.00              | .21    | -.89   | -.49                | .91         | 283.59                | .08                     |
| 908.00            | .15            | 235.46              | 908.00              | .16    | -1.05  | -.49                | 1.06        | 278.43                | .12                     |
| 1008.00           | .18            | 244.86              | 1008.00             | .01    | -1.30  | -.44                | 1.30        | 270.66                | .04                     |
| 1108.00           | .16            | 273.18              | 1108.00             | -.04   | -1.58  | -.48                | 1.58        | 268.41                | .09                     |
| 1208.00           | .50            | 298.24              | 1208.00             | .17    | -2.11  | -.85                | 2.11        | 274.62                | .36                     |

| 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 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-----|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |     |                               |
| 1308.00                 | .56                  | 295.97                    | 1307.99                   | .59       | -2.93     | -1.52                     | 2.99           | 281.39           | .06 |                               |
| 1408.00                 | 1.08                 | 305.64                    | 1407.98                   | 1.35      | -4.14     | -2.63                     | 4.35           | 288.12           | .54 |                               |
| 1508.00                 | 1.07                 | 308.46                    | 1507.96                   | 2.48      | -5.63     | -4.19                     | 6.16           | 293.79           | .05 |                               |
| 1608.00                 | 1.14                 | 298.02                    | 1607.95                   | 3.53      | -7.24     | -5.71                     | 8.06           | 295.99           | .21 |                               |
| 1708.00                 | 1.45                 | 296.01                    | 1707.92                   | 4.55      | -9.26     | -7.34                     | 10.32          | 296.19           | .31 |                               |
| 1808.00                 | 1.51                 | 306.23                    | 1807.89                   | 5.89      | -11.46    | -9.32                     | 12.88          | 297.20           | .27 |                               |
| 1908.00                 | 1.74                 | 338.13                    | 1907.85                   | 8.08      | -13.09    | -11.92                    | 15.38          | 301.68           | .92 |                               |
| 2008.00                 | 2.11                 | 352.28                    | 2007.79                   | 11.31     | -13.90    | -15.24                    | 17.92          | 309.13           | .60 |                               |
| 2108.00                 | 2.43                 | 343.74                    | 2107.71                   | 15.17     | -14.74    | -19.16                    | 21.15          | 315.82           | .46 |                               |
| 2208.00                 | 2.24                 | 338.14                    | 2207.63                   | 19.02     | -16.06    | -23.23                    | 24.89          | 319.82           | .30 |                               |
| 2308.00                 | 1.81                 | 339.83                    | 2307.57                   | 22.31     | -17.33    | -26.76                    | 28.25          | 322.16           | .43 |                               |
| 2408.00                 | 1.77                 | 342.33                    | 2407.52                   | 25.27     | -18.35    | -29.88                    | 31.23          | 324.02           | .09 |                               |
| 2508.00                 | 1.78                 | 338.53                    | 2507.47                   | 28.18     | -19.38    | -32.98                    | 34.21          | 325.48           | .12 |                               |
| 2608.00                 | 1.69                 | 323.67                    | 2607.43                   | 30.82     | -20.83    | -35.94                    | 37.19          | 325.95           | .46 |                               |
| 2708.00                 | .74                  | 325.03                    | 2707.40                   | 32.53     | -22.07    | -37.97                    | 39.31          | 325.85           | .95 |                               |
| 2808.00                 | .19                  | 357.72                    | 2807.40                   | 33.23     | -22.45    | -38.75                    | 40.10          | 325.96           | .59 |                               |
| 2908.00                 | .17                  | 13.00                     | 2907.40                   | 33.54     | -22.42    | -39.03                    | 40.34          | 326.24           | .05 |                               |
| 3008.00                 | .31                  | 21.42                     | 3007.40                   | 33.94     | -22.29    | -39.37                    | 40.60          | 326.70           | .14 |                               |
| 3108.00                 | .39                  | 25.11                     | 3107.40                   | 34.50     | -22.04    | -39.81                    | 40.94          | 327.42           | .08 |                               |
| 3208.00                 | .58                  | 32.32                     | 3207.39                   | 35.23     | -21.63    | -40.37                    | 41.34          | 328.45           | .20 |                               |
| 3308.00                 | .54                  | 68.16                     | 3307.39                   | 35.83     | -20.92    | -40.71                    | 41.49          | 329.72           | .35 |                               |
| 3408.00                 | .31                  | 91.13                     | 3407.39                   | 36.00     | -20.21    | -40.64                    | 41.29          | 330.69           | .28 |                               |
| 3508.00                 | .24                  | 88.61                     | 3507.38                   | 36.00     | -19.73    | -40.48                    | 41.06          | 331.27           | .07 |                               |
| 3608.00                 | .20                  | 43.21                     | 3607.38                   | 36.14     | -19.40    | -40.50                    | 41.02          | 331.76           | .17 |                               |
| 3708.00                 | .21                  | 57.24                     | 3707.38                   | 36.36     | -19.13    | -40.62                    | 41.09          | 332.25           | .05 |                               |
| 3808.00                 | .48                  | 41.07                     | 3807.38                   | 36.78     | -18.70    | -40.88                    | 41.26          | 333.05           | .28 |                               |
| 3908.00                 | .88                  | 33.13                     | 3907.37                   | 37.74     | -18.01    | -41.55                    | 41.81          | 334.49           | .41 |                               |
| 4008.00                 | .94                  | 36.79                     | 4007.36                   | 39.04     | -17.10    | -42.48                    | 42.62          | 336.35           | .08 |                               |
| 4108.00                 | 1.00                 | 21.73                     | 4107.35                   | 40.50     | -16.28    | -43.60                    | 43.65          | 338.10           | .26 |                               |
| 4208.00                 | 1.14                 | 26.28                     | 4207.33                   | 42.21     | -15.52    | -44.96                    | 44.97          | 339.81           | .16 |                               |
| 4308.00                 | 1.24                 | 25.92                     | 4307.31                   | 44.07     | -14.60    | -46.42                    | 46.43          | 341.67           | .10 |                               |
| 4408.00                 | .98                  | 66.25                     | 4407.29                   | 45.39     | -13.35    | -47.26                    | 47.31          | 343.61           | .80 |                               |
| 4508.00                 | 1.29                 | 94.61                     | 4507.27                   | 45.64     | -11.44    | -46.87                    | 47.06          | 345.92           | .63 |                               |
| 4608.00                 | 1.15                 | 118.33                    | 4607.25                   | 45.08     | -9.44     | -45.68                    | 46.05          | 348.17           | .52 |                               |

| Measured Depth<br>FT | Incl Angle<br>Deg | Drift Direction<br>Deg | True Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical Section<br>FT | CLOSURE        |                  | Dogleg<br>Severity<br>Deg/100 |
|----------------------|-------------------|------------------------|------------------------|-----------|-----------|------------------------|----------------|------------------|-------------------------------|
|                      |                   |                        |                        |           |           |                        | Distance<br>FT | Direction<br>Deg |                               |
| 4708.00              | .92               | 139.54                 | 4707.23                | 43.99     | -8.03     | -44.19                 | 44.72          | 349.65           | .44                           |
| 4808.00              | .74               | 113.57                 | 4807.22                | 43.12     | -6.92     | -43.01                 | 43.67          | 350.88           | .41                           |
| 4908.00              | 1.16              | 93.63                  | 4907.21                | 42.80     | -5.32     | -42.18                 | 43.13          | 352.91           | .53                           |
| 5008.00              | .88               | 80.41                  | 5007.19                | 42.86     | -3.55     | -41.66                 | 43.01          | 355.26           | .36                           |
| 5108.00              | .35               | 91.26                  | 5107.19                | 42.98     | -2.49     | -41.43                 | 43.06          | 356.68           | .54                           |
| 5208.00              | .48               | 95.76                  | 5207.18                | 42.93     | -1.77     | -41.14                 | 42.97          | 357.64           | .13                           |
| 5308.00              | .69               | 107.83                 | 5307.18                | 42.71     | -.78      | -40.60                 | 42.72          | 358.96           | .24                           |
| 5408.00              | .72               | 123.90                 | 5407.17                | 42.17     | .32       | -39.74                 | 42.17          | .43              | .20                           |
| 5508.00              | .78               | 131.61                 | 5507.16                | 41.37     | 1.35      | -38.64                 | 41.39          | 1.87             | .12                           |
| 5608.00              | 1.08              | 113.20                 | 5607.15                | 40.55     | 2.72      | -37.42                 | 40.64          | 3.84             | .42                           |
| 5625.97              | 1.28              | 112.10                 | 5625.12                | 40.41     | 3.06      | -37.17                 | 40.52          | 4.34             | 1.12                          |
| <b>MWD Surveys</b>   |                   |                        |                        |           |           |                        |                |                  |                               |
| 5673.00              | 1.28              | 110.82                 | 5672.13                | 40.02     | 4.04      | -36.49                 | 40.22          | 5.77             | .06                           |
| 5705.00              | .78               | 99.60                  | 5704.13                | 39.86     | 4.59      | -36.15                 | 40.12          | 6.57             | 1.68                          |
| 5737.00              | .95               | 97.69                  | 5736.13                | 39.79     | 5.07      | -35.93                 | 40.11          | 7.26             | .54                           |
| 5769.00              | 2.27              | 124.56                 | 5768.11                | 39.39     | 5.85      | -35.30                 | 39.82          | 8.45             | 4.64                          |
| 5800.00              | 4.95              | 137.49                 | 5799.05                | 38.06     | 7.26      | -33.57                 | 38.74          | 10.80            | 8.98                          |
| 5832.00              | 7.63              | 140.94                 | 5830.85                | 35.39     | 9.53      | -30.31                 | 36.65          | 15.08            | 8.45                          |
| 5864.00              | 9.25              | 146.31                 | 5862.51                | 31.60     | 12.30     | -25.82                 | 33.91          | 21.27            | 5.62                          |
| 5896.00              | 10.20             | 147.08                 | 5894.05                | 27.08     | 15.27     | -20.58                 | 31.09          | 29.41            | 3.00                          |
| 5928.00              | 12.04             | 146.16                 | 5925.44                | 21.93     | 18.67     | -14.60                 | 28.80          | 40.40            | 5.78                          |
| 5959.00              | 14.03             | 144.31                 | 5955.64                | 16.19     | 22.66     | -7.87                  | 27.85          | 54.45            | 6.56                          |
| 5991.00              | 15.97             | 147.73                 | 5986.55                | 9.32      | 27.27     | .13                    | 28.82          | 71.14            | 6.66                          |
| 6023.00              | 16.50             | 154.36                 | 6017.28                | 1.50      | 31.59     | 8.94                   | 31.63          | 87.28            | 6.02                          |
| 6055.00              | 17.42             | 158.50                 | 6047.89                | -7.06     | 35.31     | 18.24                  | 36.01          | 101.30           | 4.74                          |
| 6087.00              | 19.08             | 161.43                 | 6078.28                | -16.47    | 38.73     | 28.25                  | 42.09          | 113.04           | 5.93                          |
| 6119.00              | 21.15             | 161.63                 | 6108.33                | -26.91    | 42.22     | 39.26                  | 50.06          | 122.51           | 6.47                          |
| 6151.00              | 23.53             | 165.78                 | 6137.92                | -38.58    | 45.61     | 51.40                  | 59.74          | 130.23           | 8.92                          |
| 6182.00              | 26.02             | 165.67                 | 6166.07                | -51.17    | 48.81     | 64.34                  | 70.72          | 136.35           | 8.03                          |
| 6214.00              | 26.63             | 165.41                 | 6194.75                | -64.91    | 52.36     | 78.48                  | 83.39          | 141.11           | 1.94                          |
| 6246.00              | 27.38             | 165.77                 | 6223.26                | -78.98    | 55.97     | 92.97                  | 96.81          | 144.68           | 2.40                          |
| 6278.00              | 28.88             | 162.96                 | 6251.48                | -93.51    | 60.04     | 108.02                 | 111.13         | 147.29           | 6.25                          |
| 6309.00              | 31.03             | 163.50                 | 6278.34                | -108.33   | 64.51     | 123.49                 | 126.08         | 149.23           | 6.99                          |
| 6341.00              | 34.06             | 163.21                 | 6305.31                | -124.82   | 69.44     | 140.68                 | 142.83         | 150.91           | 9.48                          |

| Measured Depth<br>FT | Incl Angle<br>Deg | Drift Direction<br>Deg | True Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical Section<br>FT | CLOSURE        |                  | Dogleg Severity<br>Deg/100 |
|----------------------|-------------------|------------------------|------------------------|-----------|-----------|------------------------|----------------|------------------|----------------------------|
|                      |                   |                        |                        |           |           |                        | Distance<br>FT | Direction<br>Deg |                            |
| 6373.00              | 36.43             | 164.35                 | 6331.44                | -142.55   | 74.59     | 159.12                 | 160.89         | 152.38           | 7.69                       |
| <b>Bottom Line</b>   |                   |                        |                        |           |           |                        |                |                  |                            |
| 6405.00              | 39.30             | 165.87                 | 6356.70                | -161.53   | 79.63     | 178.71                 | 180.09         | 153.76           | 9.43                       |
| 6436.00              | 42.64             | 165.58                 | 6380.11                | -181.22   | 84.64     | 198.96                 | 200.02         | 154.96           | 10.79                      |
| 6468.00              | 45.13             | 166.97                 | 6403.17                | -202.77   | 89.90     | 221.04                 | 221.81         | 156.09           | 8.34                       |
| 6500.00              | 47.74             | 167.47                 | 6425.22                | -225.38   | 95.03     | 244.08                 | 244.60         | 157.14           | 8.23                       |
| 6532.00              | 50.98             | 167.15                 | 6446.06                | -249.07   | 100.36    | 268.20                 | 268.53         | 158.05           | 10.15                      |
| 6563.00              | 54.90             | 166.00                 | 6464.74                | -273.12   | 106.11    | 292.82                 | 293.01         | 158.77           | 12.99                      |
| 6595.00              | 57.86             | 164.71                 | 6482.45                | -298.90   | 112.85    | 319.38                 | 319.50         | 159.32           | 9.84                       |
| 6627.00              | 60.52             | 163.83                 | 6498.84                | -325.35   | 120.30    | 346.81                 | 346.88         | 159.71           | 8.64                       |
| 6659.00              | 62.72             | 162.59                 | 6514.05                | -352.30   | 128.44    | 374.94                 | 374.99         | 159.97           | 7.67                       |
| 6691.00              | 65.29             | 162.03                 | 6528.08                | -379.70   | 137.18    | 403.69                 | 403.72         | 160.14           | 8.18                       |
| 6723.00              | 66.99             | 161.57                 | 6541.02                | -407.50   | 146.32    | 432.95                 | 432.98         | 160.25           | 5.47                       |
| 6754.00              | 69.00             | 162.28                 | 6552.64                | -434.82   | 155.24    | 461.68                 | 461.70         | 160.35           | 6.82                       |
| 6786.00              | 71.47             | 162.01                 | 6563.46                | -463.49   | 164.47    | 491.79                 | 491.80         | 160.46           | 7.76                       |
| 6818.00              | 74.25             | 162.41                 | 6572.89                | -492.60   | 173.81    | 522.36                 | 522.36         | 160.56           | 8.77                       |
| 6850.00              | 76.58             | 162.56                 | 6580.94                | -522.13   | 183.13    | 553.31                 | 553.31         | 160.67           | 7.30                       |
| 6881.00              | 77.82             | 162.93                 | 6587.81                | -551.00   | 192.10    | 583.52                 | 583.53         | 160.78           | 4.17                       |
| 6913.00              | 79.78             | 162.81                 | 6594.03                | -581.00   | 201.34    | 614.89                 | 614.89         | 160.89           | 6.14                       |
| 6945.00              | 82.73             | 162.81                 | 6598.89                | -611.21   | 210.69    | 646.50                 | 646.50         | 160.98           | 9.22                       |
| 6977.00              | 85.63             | 162.57                 | 6602.14                | -641.60   | 220.16    | 678.32                 | 678.32         | 161.06           | 9.09                       |
| 7009.00              | 86.17             | 162.42                 | 6604.42                | -672.04   | 229.76    | 710.22                 | 710.23         | 161.13           | 1.75                       |
| 7041.00              | 86.54             | 162.50                 | 6606.46                | -702.49   | 239.38    | 742.14                 | 742.16         | 161.18           | 1.18                       |
| 7072.00              | 86.91             | 162.39                 | 6608.23                | -732.00   | 248.72    | 773.08                 | 773.10         | 161.23           | 1.25                       |
| 7136.00              | 87.59             | 162.73                 | 6611.30                | -792.98   | 267.88    | 836.98                 | 837.01         | 161.33           | 1.19                       |
| 7199.00              | 88.06             | 161.92                 | 6613.69                | -852.97   | 286.99    | 899.91                 | 899.95         | 161.40           | 1.49                       |
| 7262.00              | 88.79             | 161.72                 | 6615.42                | -912.80   | 306.64    | 962.88                 | 962.93         | 161.43           | 1.20                       |
| 7326.00              | 88.06             | 161.21                 | 6617.18                | -973.45   | 326.98    | 1026.85                | 1026.90        | 161.43           | 1.39                       |
| 7390.00              | 88.05             | 160.51                 | 6619.35                | -1033.88  | 347.95    | 1090.82                | 1090.86        | 161.40           | 1.09                       |
| 7454.00              | 88.59             | 160.98                 | 6621.23                | -1094.27  | 369.05    | 1154.79                | 1154.83        | 161.36           | 1.12                       |
| 7517.00              | 87.92             | 160.78                 | 6623.15                | -1153.77  | 389.67    | 1217.76                | 1217.80        | 161.34           | 1.11                       |
| 7581.00              | 87.78             | 160.55                 | 6625.55                | -1214.12  | 410.85    | 1281.71                | 1281.75        | 161.30           | .42                        |
| 7644.00              | 88.29             | 160.13                 | 6627.71                | -1273.41  | 432.03    | 1344.67                | 1344.70        | 161.26           | 1.05                       |
| 7707.00              | 88.52             | 159.37                 | 6629.46                | -1332.49  | 453.83    | 1407.63                | 1407.66        | 161.19           | 1.26                       |

| Measured Depth<br>FT   | Incl Angle<br>Deg | Drift Direction<br>Deg | True Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical Section<br>FT | CLOSURE        |                  | Dogleg Severity<br>Deg/100 |
|------------------------|-------------------|------------------------|------------------------|-----------|-----------|------------------------|----------------|------------------|----------------------------|
|                        |                   |                        |                        |           |           |                        | Distance<br>FT | Direction<br>Deg |                            |
| <b>Bottom Line CK.</b> |                   |                        |                        |           |           |                        |                |                  |                            |
| 7771.00                | 88.96             | 158.85                 | 6630.87                | -1392.27  | 476.64    | 1471.59                | 1471.60        | 161.10           | 1.06                       |
| 7834.00                | 89.33             | 158.46                 | 6631.81                | -1450.94  | 499.57    | 1534.53                | 1534.54        | 161.00           | .85                        |
| 7898.00                | 90.17             | 158.19                 | 6632.09                | -1510.42  | 523.21    | 1598.47                | 1598.47        | 160.89           | 1.38                       |
| 7961.00                | 90.03             | 158.69                 | 6631.98                | -1569.01  | 546.36    | 1661.41                | 1661.41        | 160.80           | .82                        |
| 8025.00                | 88.93             | 159.26                 | 6632.56                | -1628.74  | 569.32    | 1725.37                | 1725.38        | 160.73           | 1.94                       |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 8089.00                | 88.72             | 159.49                 | 6633.87                | -1688.63  | 591.86    | 1789.34                | 1789.35        | 160.68           | .49                        |
| 8152.00                | 87.71             | 159.82                 | 6635.84                | -1747.67  | 613.75    | 1852.29                | 1852.31        | 160.65           | 1.69                       |
| 8216.00                | 87.62             | 159.49                 | 6638.44                | -1807.63  | 635.98    | 1916.23                | 1916.24        | 160.62           | .53                        |
| 8280.00                | 88.29             | 159.33                 | 6640.73                | -1867.50  | 658.48    | 1980.16                | 1980.19        | 160.58           | 1.08                       |
| 8343.00                | 87.79             | 158.86                 | 6642.88                | -1926.32  | 680.94    | 2043.10                | 2043.13        | 160.53           | 1.09                       |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 8407.00                | 87.85             | 159.63                 | 6645.32                | -1986.12  | 703.61    | 2107.02                | 2107.07        | 160.49           | 1.21                       |
| 8471.00                | 87.85             | 161.37                 | 6647.72                | -2046.41  | 724.95    | 2170.98                | 2171.02        | 160.49           | 2.72                       |
| 8534.00                | 88.39             | 162.38                 | 6649.78                | -2106.25  | 744.54    | 2233.93                | 2233.97        | 160.53           | 1.82                       |
| 8598.00                | 88.42             | 163.07                 | 6651.57                | -2167.34  | 763.54    | 2297.87                | 2297.90        | 160.59           | 1.08                       |
| 8661.00                | 88.39             | 162.94                 | 6653.32                | -2227.56  | 781.95    | 2360.80                | 2360.82        | 160.66           | .21                        |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 8725.00                | 88.99             | 162.20                 | 6654.78                | -2288.61  | 801.11    | 2424.76                | 2424.77        | 160.71           | 1.49                       |
| 8789.00                | 89.46             | 161.81                 | 6655.65                | -2349.47  | 820.88    | 2488.74                | 2488.75        | 160.74           | .95                        |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 8852.00                | 88.79             | 162.16                 | 6656.61                | -2409.37  | 840.36    | 2551.72                | 2551.72        | 160.77           | 1.20                       |
| 8916.00                | 88.36             | 162.06                 | 6658.20                | -2470.26  | 860.02    | 2615.68                | 2615.69        | 160.80           | .69                        |
| 8979.00                | 89.46             | 162.27                 | 6659.40                | -2530.22  | 879.31    | 2678.66                | 2678.66        | 160.84           | 1.78                       |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 9043.00                | 87.89             | 161.67                 | 6660.88                | -2591.06  | 899.11    | 2742.62                | 2742.62        | 160.86           | 2.63                       |
| 9107.00                | 87.05             | 161.60                 | 6663.70                | -2651.74  | 919.26    | 2806.56                | 2806.56        | 160.88           | 1.32                       |
| 9170.00                | 87.65             | 161.41                 | 6666.62                | -2711.42  | 939.22    | 2869.48                | 2869.48        | 160.89           | 1.00                       |
| 9233.00                | 89.33             | 161.84                 | 6668.28                | -2771.19  | 959.07    | 2932.45                | 2932.46        | 160.91           | 2.75                       |
| 9297.00                | 90.10             | 162.21                 | 6668.60                | -2832.06  | 978.82    | 2996.44                | 2996.44        | 160.93           | 1.33                       |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 9361.00                | 89.73             | 162.32                 | 6668.69                | -2893.02  | 998.32    | 3060.42                | 3060.43        | 160.96           | .60                        |
| 9424.00                | 89.53             | 163.11                 | 6669.10                | -2953.17  | 1017.03   | 3123.39                | 3123.39        | 161.00           | 1.29                       |
| 9488.00                | 88.86             | 161.86                 | 6670.00                | -3014.20  | 1036.29   | 3187.35                | 3187.37        | 161.03           | 2.22                       |
| 9551.00                | 88.66             | 161.40                 | 6671.36                | -3073.97  | 1056.14   | 3250.33                | 3250.35        | 161.04           | .80                        |
| 9615.00                | 89.40             | 160.96                 | 6672.44                | -3134.54  | 1076.79   | 3314.32                | 3314.34        | 161.04           | 1.35                       |
| <b>Bottom Line</b>     |                   |                        |                        |           |           |                        |                |                  |                            |
| 9679.00                | 88.49             | 161.06                 | 6673.62                | -3195.05  | 1097.61   | 3378.31                | 3378.33        | 161.04           | 1.43                       |
| 9742.00                | 88.22             | 160.49                 | 6675.43                | -3254.51  | 1118.34   | 3441.28                | 3441.30        | 161.04           | 1.00                       |

| 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 | CLOSURE        |                  | Dogleg<br>Severity<br>Deg/100 |
|--------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                          |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 9806.00                  | 88.99                | 160.70                    | 6676.99                   | -3314.86  | 1139.60   | 3505.26                   | 3505.28        | 161.03           | 1.25                          |
| <b>Bottom Line CK.</b>   |                      |                           |                           |           |           |                           |                |                  |                               |
| 9869.00                  | 88.45                | 160.73                    | 6678.40                   | -3374.31  | 1160.40   | 3568.25                   | 3568.26        | 161.02           | .86                           |
| 9933.00                  | 88.02                | 160.42                    | 6680.37                   | -3434.64  | 1181.68   | 3632.22                   | 3632.23        | 161.01           | .83                           |
| 9997.00                  | 88.76                | 159.79                    | 6682.17                   | -3494.79  | 1203.45   | 3696.18                   | 3696.19        | 161.00           | 1.52                          |
| 10060.00                 | 88.49                | 160.35                    | 6683.68                   | -3554.00  | 1224.92   | 3759.16                   | 3759.17        | 160.98           | .99                           |
| 10124.00                 | 88.46                | 160.25                    | 6685.38                   | -3614.23  | 1246.48   | 3823.13                   | 3823.14        | 160.97           | .16                           |
| 10188.00                 | 88.89                | 159.29                    | 6686.86                   | -3674.27  | 1268.61   | 3887.10                   | 3887.11        | 160.95           | 1.64                          |
| 10251.00                 | 87.89                | 159.63                    | 6688.63                   | -3733.24  | 1290.70   | 3950.06                   | 3950.06        | 160.93           | 1.68                          |
| 10315.00                 | 87.82                | 159.19                    | 6691.03                   | -3793.11  | 1313.19   | 4013.99                   | 4013.99        | 160.90           | .70                           |
| 10378.00                 | 88.66                | 159.04                    | 6692.96                   | -3851.94  | 1335.64   | 4076.93                   | 4076.93        | 160.88           | 1.35                          |
| 10442.00                 | 89.60                | 159.47                    | 6693.93                   | -3911.78  | 1358.31   | 4140.90                   | 4140.90        | 160.85           | 1.62                          |
| 10506.00                 | 88.52                | 159.67                    | 6694.98                   | -3971.75  | 1380.65   | 4204.87                   | 4204.88        | 160.83           | 1.72                          |
| 10569.00                 | 88.32                | 159.04                    | 6696.72                   | -4030.68  | 1402.85   | 4267.83                   | 4267.83        | 160.81           | 1.05                          |
| 10633.00                 | 89.09                | 158.43                    | 6698.17                   | -4090.31  | 1426.05   | 4331.77                   | 4331.77        | 160.78           | 1.53                          |
| <b>Bottom Line Check</b> |                      |                           |                           |           |           |                           |                |                  |                               |
| 10665.00                 | 89.50                | 158.32                    | 6698.56                   | -4120.05  | 1437.85   | 4363.73                   | 4363.74        | 160.76           | 1.33                          |
| <b>Proj. to Bit</b>      |                      |                           |                           |           |           |                           |                |                  |                               |
| 10718.00                 | 90.19                | 158.13                    | 6698.70                   | -4169.27  | 1457.51   | 4416.68                   | 4416.69        | 160.73           | 1.35                          |