

# Whistle Pig 1-16H

KB = 4,996'

KOP = 6,494'

TARGET = 6,971' TVD

| MD               | Incl.        | Azi.          | TVD             | Based on True North |                 | DLS          | Vertical<br>Section | UTM N            | UTME                         |
|------------------|--------------|---------------|-----------------|---------------------|-----------------|--------------|---------------------|------------------|------------------------------|
|                  |              |               |                 | North               | East            |              |                     |                  |                              |
| 0.00             | 0.00         | 161.05        | 0.00            | 0.00                | 0.00            | 0.00         | 0.00                | -605.00          | -2,053.00                    |
| 6,400.00         | 0.00         | 161.05        | 6,400.00        | 0.00                | 0.00            | 0.00         | 0.00                | -605.00          | -2,053.00                    |
| <b>6,493.50</b>  | <b>0.00</b>  | <b>161.05</b> | <b>6,493.50</b> | <b>0.00</b>         | <b>0.00</b>     | <b>0.00</b>  | <b>0.00</b>         | <b>-605.00</b>   | <b>-2,053.00 KOP</b>         |
| 6,543.50         | 6.00         | 161.05        | 6,543.36        | -2.47               | 0.85            | 12.00        | 2.61                | -607.47          | -2,052.15                    |
| 6,593.50         | 12.00        | 161.05        | 6,592.68        | -9.86               | 3.39            | 12.00        | 10.43               | -614.86          | -2,049.61                    |
| 6,643.50         | 18.00        | 161.05        | 6,640.91        | -22.08              | 7.59            | 12.00        | 23.35               | -627.08          | -2,045.41                    |
| 6,693.50         | 24.00        | 161.05        | 6,687.53        | -39.00              | 13.40           | 12.00        | 41.24               | -644.00          | -2,039.60                    |
| 6,743.50         | 30.00        | 161.05        | 6,732.02        | -60.44              | 20.76           | 12.00        | 63.91               | -665.44          | -2,032.24                    |
| 6,793.50         | 36.00        | 161.05        | 6,773.90        | -86.16              | 29.59           | 12.00        | 91.10               | -691.16          | -2,023.41                    |
| 6,843.50         | 42.00        | 161.05        | 6,812.70        | -115.88             | 39.79           | 12.00        | 122.52              | -720.88          | -2,013.21                    |
| 6,893.50         | 48.00        | 161.05        | 6,848.01        | -149.27             | 51.26           | 12.00        | 157.83              | -754.27          | -2,001.74                    |
| 6,943.50         | 54.00        | 161.05        | 6,879.43        | -185.97             | 63.86           | 12.00        | 196.63              | -790.97          | -1,989.14                    |
| 6,993.50         | 60.00        | 161.05        | 6,906.62        | -225.58             | 77.46           | 12.00        | 238.51              | -830.58          | -1,975.54                    |
| 7,043.50         | 66.00        | 161.05        | 6,929.29        | -267.66             | 91.91           | 12.00        | 283.00              | -872.66          | -1,961.09                    |
| 7,093.50         | 72.00        | 161.05        | 6,947.18        | -311.75             | 107.05          | 12.00        | 329.62              | -916.75          | -1,945.95                    |
| 7,143.50         | 78.00        | 161.05        | 6,960.10        | -357.37             | 122.71          | 12.00        | 377.85              | -962.37          | -1,930.29                    |
| 7,193.50         | 84.00        | 161.05        | 6,967.91        | -404.01             | 138.73          | 12.00        | 427.17              | -1,009.01        | -1,914.27                    |
| <b>7,243.00</b>  | <b>90.00</b> | <b>161.05</b> | <b>6,970.50</b> | <b>-450.70</b>      | <b>154.76</b>   | <b>12.12</b> | <b>476.53</b>       | <b>-1,055.70</b> | <b>-1,898.24 7" Csg Shoe</b> |
| <b>7,243.00</b>  | <b>90.00</b> | <b>161.05</b> | <b>6,970.50</b> | <b>-450.70</b>      | <b>154.76</b>   | <b>12.12</b> | <b>476.53</b>       | <b>-1,055.70</b> | <b>-1,898.24 7" Csg Shoe</b> |
| 7,343.00         | 90.00        | 161.05        | 6,970.50        | -545.28             | 187.23          | 0.00         | 576.53              | -1,150.28        | -1,865.77                    |
| 7,443.00         | 90.00        | 161.05        | 6,970.50        | -639.86             | 219.70          | 0.00         | 676.53              | -1,244.86        | -1,833.30                    |
| 7,543.00         | 90.00        | 161.05        | 6,970.50        | -734.44             | 252.17          | 0.00         | 776.53              | -1,339.44        | -1,800.83                    |
| 7,643.00         | 90.00        | 161.05        | 6,970.50        | -829.02             | 284.64          | 0.00         | 876.52              | -1,434.02        | -1,768.36                    |
| 7,743.00         | 90.00        | 161.05        | 6,970.50        | -923.60             | 317.11          | 0.00         | 976.52              | -1,528.60        | -1,735.89                    |
| 7,843.00         | 90.00        | 161.05        | 6,970.50        | -1,018.18           | 349.58          | 0.00         | 1,076.52            | -1,623.18        | -1,703.42                    |
| 7,943.00         | 90.00        | 161.05        | 6,970.50        | -1,112.76           | 382.05          | 0.00         | 1,176.52            | -1,717.76        | -1,670.95                    |
| 8,043.00         | 90.00        | 161.05        | 6,970.50        | -1,207.34           | 414.52          | 0.00         | 1,276.52            | -1,812.34        | -1,638.48                    |
| 8,143.00         | 90.00        | 161.05        | 6,970.50        | -1,301.92           | 446.99          | 0.00         | 1,376.52            | -1,906.92        | -1,606.01                    |
| 8,243.00         | 90.00        | 161.05        | 6,970.50        | -1,396.50           | 479.46          | 0.00         | 1,476.51            | -2,001.50        | -1,573.54                    |
| 8,343.00         | 90.00        | 161.05        | 6,970.50        | -1,491.08           | 511.93          | 0.00         | 1,576.51            | -2,096.08        | -1,541.07                    |
| 8,443.00         | 90.00        | 161.05        | 6,970.50        | -1,585.66           | 544.40          | 0.00         | 1,676.51            | -2,190.66        | -1,508.60                    |
| 8,543.00         | 90.00        | 161.05        | 6,970.50        | -1,680.24           | 576.87          | 0.00         | 1,776.51            | -2,285.24        | -1,476.13                    |
| 8,643.00         | 90.00        | 161.05        | 6,970.50        | -1,774.82           | 609.34          | 0.00         | 1,876.51            | -2,379.82        | -1,443.66                    |
| 8,743.00         | 90.00        | 161.05        | 6,970.50        | -1,869.40           | 641.81          | 0.00         | 1,976.51            | -2,474.40        | -1,411.19                    |
| 8,843.00         | 90.00        | 161.05        | 6,970.50        | -1,963.98           | 674.28          | 0.00         | 2,076.50            | -2,568.98        | -1,378.72                    |
| 8,943.00         | 90.00        | 161.05        | 6,970.50        | -2,058.56           | 706.75          | 0.00         | 2,176.50            | -2,663.56        | -1,346.25                    |
| 9,043.00         | 90.00        | 161.05        | 6,970.50        | -2,153.14           | 739.22          | 0.00         | 2,276.50            | -2,758.14        | -1,313.78                    |
| 9,143.00         | 90.00        | 161.05        | 6,970.50        | -2,247.72           | 771.69          | 0.00         | 2,376.50            | -2,852.72        | -1,281.31                    |
| 9,243.00         | 90.00        | 161.05        | 6,970.50        | -2,342.30           | 804.16          | 0.00         | 2,476.50            | -2,947.30        | -1,248.84                    |
| 9,343.00         | 90.00        | 161.05        | 6,970.50        | -2,436.88           | 836.63          | 0.00         | 2,576.50            | -3,041.88        | -1,216.37                    |
| 9,443.00         | 90.00        | 161.05        | 6,970.50        | -2,531.46           | 869.10          | 0.00         | 2,676.49            | -3,136.46        | -1,183.90                    |
| 9,543.00         | 90.00        | 161.05        | 6,970.50        | -2,626.04           | 901.57          | 0.00         | 2,776.49            | -3,231.04        | -1,151.43                    |
| 9,643.00         | 90.00        | 161.05        | 6,970.50        | -2,720.62           | 934.04          | 0.00         | 2,876.49            | -3,325.62        | -1,118.96                    |
| 9,743.00         | 90.00        | 161.05        | 6,970.50        | -2,815.20           | 966.51          | 0.00         | 2,976.49            | -3,420.20        | -1,086.49                    |
| 9,843.00         | 90.00        | 161.05        | 6,970.50        | -2,909.78           | 998.98          | 0.00         | 3,076.49            | -3,514.78        | -1,054.02                    |
| 9,943.00         | 90.00        | 161.05        | 6,970.50        | -3,004.36           | 1,031.45        | 0.00         | 3,176.49            | -3,609.36        | -1,021.55                    |
| 10,043.00        | 90.00        | 161.05        | 6,970.50        | -3,098.94           | 1,063.92        | 0.00         | 3,276.49            | -3,703.94        | -989.08                      |
| 10,143.00        | 90.00        | 161.05        | 6,970.50        | -3,193.52           | 1,096.39        | 0.00         | 3,376.48            | -3,798.52        | -956.61                      |
| 10,243.00        | 90.00        | 161.05        | 6,970.50        | -3,288.10           | 1,128.86        | 0.00         | 3,476.48            | -3,893.10        | -924.14                      |
| 10,343.00        | 90.00        | 161.05        | 6,970.50        | -3,382.68           | 1,161.33        | 0.00         | 3,576.48            | -3,987.68        | -891.67                      |
| 10,443.00        | 90.00        | 161.05        | 6,970.50        | -3,477.26           | 1,193.80        | 0.00         | 3,676.48            | -4,082.26        | -859.20                      |
| 10,543.00        | 90.00        | 161.05        | 6,970.50        | -3,571.84           | 1,226.27        | 0.00         | 3,776.48            | -4,176.84        | -826.73                      |
| 10,643.00        | 90.00        | 161.05        | 6,970.50        | -3,666.42           | 1,258.74        | 0.00         | 3,876.48            | -4,271.42        | -794.26                      |
| 10,743.00        | 90.00        | 161.05        | 6,970.50        | -3,761.00           | 1,291.21        | 0.00         | 3,976.47            | -4,366.00        | -761.79                      |
| 10,843.00        | 90.00        | 161.05        | 6,970.50        | -3,855.58           | 1,323.68        | 0.00         | 4,076.47            | -4,460.58        | -729.32                      |
| 10,943.00        | 90.00        | 161.05        | 6,970.50        | -3,950.16           | 1,356.15        | 0.00         | 4,176.47            | -4,555.16        | -696.85                      |
| <b>11,043.00</b> | <b>90.00</b> | <b>161.05</b> | <b>6,970.50</b> | <b>-4,044.74</b>    | <b>1,388.62</b> | <b>0.00</b>  | <b>4,276.47</b>     | <b>-4,649.74</b> | <b>-664.38 End Lateral</b>   |