



# Quarles Drilling Corporation

Reading & Bates Petroleum Company  
810 N. Dixie, Room 202  
Odessa, TX 79761

RE: Payne #1-24, Sec. 24-T16S-R35E, Lea County, New Mexico

| <u>Measured<br/>Depth</u> | <u>Course<br/>Length</u> | <u>Angle of<br/>Inclination</u> | <u>Displacement<br/>per Hundred Ft.</u><br>(sine of angle x 100) | <u>Course<br/>Displacement</u> | <u>Accumulative<br/>Displacement</u> |
|---------------------------|--------------------------|---------------------------------|------------------------------------------------------------------|--------------------------------|--------------------------------------|
| 40                        | .40                      | .75                             | 1.31                                                             | .52                            | .52                                  |
| 294                       | 2.54                     | .50                             | .87                                                              | 2.21                           | 2.73                                 |
| 722                       | 4.28                     | .50                             | .87                                                              | 3.72                           | 6.45                                 |
| 989                       | 2.67                     | 1.25                            | 2.18                                                             | 5.82                           | 12.27                                |
| 1620                      | 6.31                     | 1.25                            | 2.18                                                             | 13.76                          | 26.03                                |
| 1775                      | 1.55                     | 1.25                            | 2.18                                                             | 3.38                           | 29.41                                |
| 1979                      | 2.04                     | 1.75                            | 3.05                                                             | 6.22                           | 35.63                                |
| 2115                      | 1.36                     | 1.25                            | 2.18                                                             | 2.96                           | 38.59                                |
| 2360                      | 2.45                     | .75                             | 1.31                                                             | 3.21                           | 41.80                                |
| 2610                      | 2.50                     | .75                             | 1.31                                                             | 3.28                           | 45.08                                |
| 3106                      | 4.96                     | 1.50                            | 2.62                                                             | 13.00                          | 58.08                                |
| 3231                      | 1.25                     | 1.50                            | 2.62                                                             | 3.28                           | 61.36                                |
| 3358                      | 1.27                     | 1.50                            | 2.62                                                             | 3.33                           | 64.69                                |
| 3485                      | 1.27                     | 1.25                            | 2.18                                                             | 2.77                           | 67.46                                |
| 3605                      | 1.20                     | .75                             | 1.31                                                             | 1.57                           | 69.03                                |
| 3665                      | .60                      | 1.0                             | 1.75                                                             | 1.05                           | 70.08                                |
| 3785                      | 1.20                     | .75                             | 1.31                                                             | 1.57                           | 71.65                                |
| 3911                      | 1.26                     | .25                             | .44                                                              | .55                            | 72.20                                |
| 4162                      | 2.51                     | 1.0                             | 1.75                                                             | 4.39                           | 76.59                                |
| 4286                      | 1.24                     | .50                             | .87                                                              | 1.08                           | 77.67                                |
| 4565                      | 2.79                     | .75                             | 1.31                                                             | 3.65                           | 81.32                                |
| 4900                      | 3.35                     | .75                             | 1.31                                                             | 4.39                           | 85.71                                |
| 5131                      | 2.31                     | .50                             | .87                                                              | 2.01                           | 87.72                                |
| 5440                      | 3.09                     | .50                             | .87                                                              | 2.69                           | 90.41                                |
| 5752                      | 3.12                     | 1.0                             | 1.75                                                             | 5.46                           | 95.87                                |
| 5879                      | 1.27                     | 1.0                             | 1.75                                                             | 2.22                           | 98.09                                |
| 6122                      | 2.43                     | .75                             | 1.31                                                             | 3.18                           | 101.27                               |
| 6432                      | 3.10                     | .75                             | 1.31                                                             | 4.06                           | 105.33                               |
| 6600                      | 1.68                     | .75                             | 1.31                                                             | 2.20                           | 107.53                               |
| 6866                      | 2.66                     | .25                             | .44                                                              | 1.17                           | 108.70                               |
| 7174                      | 3.08                     | .75                             | 1.31                                                             | 4.03                           | 112.73                               |
| 7424                      | 2.50                     | .25                             | .44                                                              | 1.10                           | 113.83                               |
| 7735                      | 3.11                     | .50                             | .87                                                              | 2.71                           | 116.54                               |
| 8086                      | 3.51                     | 1.0                             | 1.75                                                             | 6.14                           | 122.68                               |
| 8353                      | 2.67                     | .50                             | .87                                                              | 2.32                           | 125.00                               |
| 8695                      | 3.42                     | .75                             | 1.31                                                             | 4.48                           | 129.48                               |
| 9003                      | 3.08                     | 1.0                             | 1.75                                                             | 5.39                           | 134.87                               |
| 9187                      | 1.84                     | .75                             | 1.31                                                             | 2.41                           | 137.28                               |
| 9464                      | 2.77                     | .75                             | 1.31                                                             | 3.63                           | 140.91                               |
| 9702                      | 2.38                     | .75                             | 1.31                                                             | 3.12                           | 144.03                               |

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