



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Date: 06-26-17  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth:             
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type                      | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|---------------------------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                                       |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
| <b>Enter Tie-In Survey on Line 10</b> |                   |                   |               |                    |                          |                       |             |          |               |             |                          |                     |                    |
| <b>FIELD COPY, NON-DEFINITIVE</b>     |                   |                   |               |                    |                          |                       |             |          |               |             |                          |                     |                    |
| TIE IN                                | 0                 |                   |               | 0                  | 0                        | 0                     | 0           | 0        |               |             |                          |                     |                    |
| Gyro                                  | 100.00            | 0.31              | 229.21        | 100                | 100.00                   | -0.18                 | 0.18 S      | 0.20 W   | 0.27          | 229.21      | 0.31                     | 0.31                | 229.21             |
|                                       | 125.00            | 0.16              | 213.78        | 25                 | 125.00                   | -0.25                 | 0.25 S      | 0.28 W   | 0.37          | 227.78      | 0.65                     | -0.60               | -61.72             |
|                                       | 150.00            | 0.26              | 259.37        | 25                 | 150.00                   | -0.29                 | 0.29 S      | 0.35 W   | 0.45          | 230.46      | 0.75                     | 0.40                | 182.36             |
|                                       | 175.00            | 0.34              | 264.31        | 25                 | 175.00                   | -0.31                 | 0.31 S      | 0.48 W   | 0.57          | 237.39      | 0.34                     | 0.32                | 19.76              |
|                                       | 200.00            | 0.35              | 271.29        | 25                 | 200.00                   | -0.31                 | 0.31 S      | 0.63 W   | 0.70          | 243.60      | 0.17                     | 0.04                | 27.92              |
|                                       | 225.00            | 0.35              | 255.57        | 25                 | 225.00                   | -0.33                 | 0.33 S      | 0.78 W   | 0.85          | 247.07      | 0.38                     | 0.00                | -62.88             |
|                                       | 250.00            | 0.47              | 261.39        | 25                 | 250.00                   | -0.36                 | 0.36 S      | 0.96 W   | 1.02          | 249.13      | 0.51                     | 0.48                | 23.28              |
|                                       | 275.00            | 0.41              | 257.96        | 25                 | 275.00                   | -0.40                 | 0.40 S      | 1.14 W   | 1.21          | 250.80      | 0.26                     | -0.24               | -13.72             |
|                                       | 300.00            | 0.38              | 259.25        | 25                 | 300.00                   | -0.43                 | 0.43 S      | 1.31 W   | 1.38          | 251.77      | 0.13                     | -0.12               | 5.16               |
|                                       | 325.00            | 0.38              | 265.95        | 25                 | 325.00                   | -0.45                 | 0.45 S      | 1.48 W   | 1.55          | 252.92      | 0.18                     | 0.00                | 26.80              |
|                                       | 350.00            | 0.35              | 265.25        | 25                 | 349.99                   | -0.47                 | 0.47 S      | 1.64 W   | 1.70          | 254.10      | 0.12                     | -0.12               | -2.80              |
|                                       | 375.00            | 0.36              | 255.62        | 25                 | 374.99                   | -0.49                 | 0.49 S      | 1.79 W   | 1.86          | 254.62      | 0.24                     | 0.04                | -38.52             |
|                                       | 400.00            | 0.35              | 262.74        | 25                 | 399.99                   | -0.52                 | 0.52 S      | 1.94 W   | 2.01          | 254.97      | 0.18                     | -0.04               | 28.48              |
|                                       | 425.00            | 0.30              | 251.65        | 25                 | 424.99                   | -0.55                 | 0.55 S      | 2.08 W   | 2.15          | 255.14      | 0.32                     | -0.20               | -44.36             |
|                                       | 450.00            | 0.34              | 172.89        | 25                 | 449.99                   | -0.65                 | 0.65 S      | 2.13 W   | 2.23          | 253.15      | 1.63                     | 0.16                | -315.04            |
|                                       | 475.00            | 0.41              | 256.73        | 25                 | 474.99                   | -0.74                 | 0.74 S      | 2.21 W   | 2.33          | 251.49      | 2.02                     | 0.28                | 335.36             |
|                                       | 500.00            | 0.32              | 277.47        | 25                 | 499.99                   | -0.75                 | 0.75 S      | 2.37 W   | 2.48          | 252.38      | 0.63                     | -0.36               | 82.96              |
|                                       | 525.00            | 0.23              | 279.76        | 25                 | 524.99                   | -0.73                 | 0.73 S      | 2.48 W   | 2.59          | 253.55      | 0.36                     | -0.36               | 9.16               |
|                                       | 550.00            | 0.28              | 267.85        | 25                 | 549.99                   | -0.73                 | 0.73 S      | 2.59 W   | 2.69          | 254.34      | 0.29                     | 0.20                | -47.64             |
|                                       | 575.00            | 0.24              | 239.62        | 25                 | 574.99                   | -0.76                 | 0.76 S      | 2.70 W   | 2.80          | 254.36      | 0.53                     | -0.16               | -112.92            |
|                                       | 600.00            | 0.31              | 256.36        | 25                 | 599.99                   | -0.80                 | 0.80 S      | 2.81 W   | 2.92          | 254.14      | 0.42                     | 0.28                | 66.96              |
|                                       | 625.00            | 0.32              | 233.04        | 25                 | 624.99                   | -0.86                 | 0.86 S      | 2.93 W   | 3.06          | 253.72      | 0.51                     | 0.04                | -93.28             |
|                                       | 650.00            | 0.34              | 213.02        | 25                 | 649.99                   | -0.96                 | 0.96 S      | 3.03 W   | 3.18          | 252.41      | 0.47                     | 0.08                | -80.08             |
|                                       | 675.00            | 0.38              | 234.90        | 25                 | 674.99                   | -1.07                 | 1.07 S      | 3.14 W   | 3.32          | 251.16      | 0.57                     | 0.16                | 87.52              |
|                                       | 700.00            | 0.45              | 237.77        | 25                 | 699.99                   | -1.17                 | 1.17 S      | 3.29 W   | 3.49          | 250.41      | 0.29                     | 0.28                | 11.48              |
|                                       | 725.00            | 0.44              | 240.62        | 25                 | 724.99                   | -1.27                 | 1.27 S      | 3.46 W   | 3.68          | 249.82      | 0.10                     | -0.04               | 11.40              |
|                                       | 750.00            | 0.44              | 241.44        | 25                 | 749.99                   | -1.36                 | 1.36 S      | 3.62 W   | 3.87          | 249.38      | 0.03                     | 0.00                | 3.28               |



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 Lat: 32.57  
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Calculation Method: Minimum Curvature  
 Proposed Azimuth:  
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 775.00            | 0.50              | 253.04        | 25                 | 774.99                   | -1.44                 | 1.44 S      | 3.81 W   | 4.08          | 249.30      | 0.45                     | 0.24                | 46.40              |
|                  | 800.00            | 0.48              | 258.09        | 25                 | 799.99                   | -1.49                 | 1.49 S      | 4.02 W   | 4.29          | 249.60      | 0.19                     | -0.08               | 20.20              |
|                  | 825.00            | 0.45              | 303.15        | 25                 | 824.99                   | -1.46                 | 1.46 S      | 4.20 W   | 4.45          | 250.82      | 1.43                     | -0.12               | 180.24             |
|                  | 850.00            | 0.46              | 262.30        | 25                 | 849.98                   | -1.42                 | 1.42 S      | 4.39 W   | 4.61          | 252.03      | 1.27                     | 0.04                | -163.40            |
|                  | 875.00            | 0.41              | 257.07        | 25                 | 874.98                   | -1.46                 | 1.46 S      | 4.57 W   | 4.80          | 252.34      | 0.26                     | -0.20               | -20.92             |
|                  | 900.00            | 0.40              | 262.95        | 25                 | 899.98                   | -1.49                 | 1.49 S      | 4.75 W   | 4.97          | 252.61      | 0.17                     | -0.04               | 23.52              |
|                  | 925.00            | 0.42              | 251.57        | 25                 | 924.98                   | -1.53                 | 1.53 S      | 4.92 W   | 5.15          | 252.77      | 0.33                     | 0.08                | -45.52             |
|                  | 950.00            | 0.32              | 270.02        | 25                 | 949.98                   | -1.55                 | 1.55 S      | 5.08 W   | 5.31          | 252.97      | 0.62                     | -0.40               | 73.80              |
|                  | 975.00            | 0.32              | 260.25        | 25                 | 974.98                   | -1.57                 | 1.57 S      | 5.21 W   | 5.44          | 253.28      | 0.22                     | 0.00                | -39.08             |
|                  | 1000.00           | 0.27              | 260.08        | 25                 | 999.98                   | -1.59                 | 1.59 S      | 5.34 W   | 5.57          | 253.44      | 0.20                     | -0.20               | -0.68              |
|                  | 1025.00           | 0.24              | 255.88        | 25                 | 1024.98                  | -1.61                 | 1.61 S      | 5.45 W   | 5.68          | 253.53      | 0.14                     | -0.12               | -16.80             |
|                  | 1050.00           | 0.28              | 236.98        | 25                 | 1049.98                  | -1.66                 | 1.66 S      | 5.55 W   | 5.79          | 253.38      | 0.38                     | 0.16                | -75.60             |
|                  | 1075.00           | 0.26              | 239.01        | 25                 | 1074.98                  | -1.72                 | 1.72 S      | 5.65 W   | 5.91          | 253.07      | 0.09                     | -0.08               | 8.12               |
|                  | 1100.00           | 0.29              | 240.58        | 25                 | 1099.98                  | -1.78                 | 1.78 S      | 5.76 W   | 6.02          | 252.81      | 0.12                     | 0.12                | 6.28               |
|                  | 1125.00           | 0.25              | 225.81        | 25                 | 1124.98                  | -1.85                 | 1.85 S      | 5.85 W   | 6.14          | 252.46      | 0.32                     | -0.16               | -59.08             |
|                  | 1150.00           | 0.24              | 196.15        | 25                 | 1149.98                  | -1.94                 | 1.94 S      | 5.90 W   | 6.21          | 251.83      | 0.50                     | -0.04               | -118.64            |
|                  | 1175.00           | 0.23              | 250.71        | 25                 | 1174.98                  | -2.00                 | 2.00 S      | 5.97 W   | 6.29          | 251.43      | 0.86                     | -0.04               | 218.24             |
|                  | 1200.00           | 0.28              | 230.98        | 25                 | 1199.98                  | -2.06                 | 2.06 S      | 6.06 W   | 6.40          | 251.23      | 0.40                     | 0.20                | -78.92             |
|                  | 1225.00           | 0.27              | 229.15        | 25                 | 1224.98                  | -2.14                 | 2.14 S      | 6.15 W   | 6.51          | 250.85      | 0.05                     | -0.04               | -7.32              |
|                  | 1250.00           | 0.39              | 220.68        | 25                 | 1249.98                  | -2.24                 | 2.24 S      | 6.25 W   | 6.64          | 250.29      | 0.52                     | 0.48                | -33.88             |
|                  | 1275.00           | 0.33              | 236.70        | 25                 | 1274.98                  | -2.34                 | 2.34 S      | 6.37 W   | 6.79          | 249.79      | 0.47                     | -0.24               | 64.08              |
|                  | 1300.00           | 0.32              | 231.04        | 25                 | 1299.98                  | -2.43                 | 2.43 S      | 6.48 W   | 6.92          | 249.47      | 0.13                     | -0.04               | -22.64             |
|                  | 1325.00           | 0.38              | 223.16        | 25                 | 1324.98                  | -2.53                 | 2.53 S      | 6.59 W   | 7.06          | 249.00      | 0.31                     | 0.24                | -31.52             |
|                  | 1350.00           | 0.43              | 237.69        | 25                 | 1349.98                  | -2.64                 | 2.64 S      | 6.73 W   | 7.23          | 248.56      | 0.46                     | 0.20                | 58.12              |
|                  | 1375.00           | 0.37              | 219.98        | 25                 | 1374.98                  | -2.75                 | 2.75 S      | 6.86 W   | 7.39          | 248.13      | 0.55                     | -0.24               | -70.84             |
|                  | 1400.00           | 0.46              | 235.74        | 25                 | 1399.98                  | -2.87                 | 2.87 S      | 7.00 W   | 7.56          | 247.68      | 0.58                     | 0.36                | 63.04              |
|                  | 1425.00           | 0.44              | 224.34        | 25                 | 1424.97                  | -3.00                 | 3.00 S      | 7.15 W   | 7.75          | 247.24      | 0.37                     | -0.08               | -45.60             |
|                  | 1450.00           | 0.59              | 240.76        | 25                 | 1449.97                  | -3.13                 | 3.13 S      | 7.32 W   | 7.97          | 246.87      | 0.84                     | 0.60                | 65.68              |
|                  | 1475.00           | 0.67              | 254.84        | 25                 | 1474.97                  | -3.23                 | 3.23 S      | 7.58 W   | 8.24          | 246.91      | 0.69                     | 0.32                | 56.32              |
|                  | 1500.00           | 0.65              | 267.85        | 25                 | 1499.97                  | -3.27                 | 3.27 S      | 7.86 W   | 8.52          | 247.39      | 0.60                     | -0.08               | 52.04              |



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Calculation Method: Minimum Curvature  
 Proposed Azimuth: Ground  
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 1525.00           | 0.65              | 274.10        | 25                 | 1524.97                  | -3.27                 | 3.27 S      | 8.14 W   | 8.78          | 248.13      | 0.28                     | 0.00                | 25.00              |
|                  | 1550.00           | 0.65              | 275.79        | 25                 | 1549.97                  | -3.24                 | 3.24 S      | 8.43 W   | 9.03          | 248.94      | 0.08                     | 0.00                | 6.76               |
|                  | 1575.00           | 0.59              | 274.31        | 25                 | 1574.97                  | -3.22                 | 3.22 S      | 8.70 W   | 9.27          | 249.68      | 0.25                     | -0.24               | -5.92              |
|                  | 1600.00           | 0.48              | 279.22        | 25                 | 1599.96                  | -3.19                 | 3.19 S      | 8.93 W   | 9.48          | 250.31      | 0.48                     | -0.44               | 19.64              |
|                  | 1625.00           | 0.20              | 282.11        | 25                 | 1624.96                  | -3.17                 | 3.17 S      | 9.07 W   | 9.61          | 250.75      | 1.12                     | -1.12               | 11.56              |
|                  | 1650.00           | 0.19              | 268.55        | 25                 | 1649.96                  | -3.16                 | 3.16 S      | 9.16 W   | 9.69          | 250.96      | 0.19                     | -0.04               | -54.24             |
|                  | 1675.00           | 0.27              | 172.21        | 25                 | 1674.96                  | -3.22                 | 3.22 S      | 9.19 W   | 9.74          | 250.70      | 1.39                     | 0.32                | -385.36            |
|                  | 1700.00           | 0.25              | 249.69        | 25                 | 1699.96                  | -3.30                 | 3.30 S      | 9.23 W   | 9.81          | 250.35      | 1.30                     | -0.08               | 309.92             |
|                  | 1725.00           | 0.25              | 238.15        | 25                 | 1724.96                  | -3.34                 | 3.34 S      | 9.33 W   | 9.91          | 250.28      | 0.20                     | 0.00                | -46.16             |
|                  | 1750.00           | 0.31              | 231.18        | 25                 | 1749.96                  | -3.42                 | 3.42 S      | 9.43 W   | 10.03         | 250.09      | 0.28                     | 0.24                | -27.88             |
|                  | 1775.00           | 0.30              | 275.38        | 25                 | 1774.96                  | -3.45                 | 3.45 S      | 9.55 W   | 10.15         | 250.13      | 0.92                     | -0.04               | 176.80             |
|                  | 1800.00           | 0.37              | 254.15        | 25                 | 1799.96                  | -3.47                 | 3.47 S      | 9.69 W   | 10.29         | 250.31      | 0.57                     | 0.28                | -84.92             |
|                  | 1825.00           | 0.45              | 249.68        | 25                 | 1824.96                  | -3.52                 | 3.52 S      | 9.86 W   | 10.47         | 250.34      | 0.34                     | 0.32                | -17.88             |
|                  | 1850.00           | 0.41              | 272.07        | 25                 | 1849.96                  | -3.55                 | 3.55 S      | 10.04 W  | 10.65         | 250.51      | 0.69                     | -0.16               | 89.56              |
|                  | 1875.00           | 0.41              | 275.79        | 25                 | 1874.96                  | -3.54                 | 3.54 S      | 10.22 W  | 10.82         | 250.88      | 0.11                     | 0.00                | 14.88              |
|                  | 1900.00           | 0.35              | 278.40        | 25                 | 1899.96                  | -3.52                 | 3.52 S      | 10.39 W  | 10.97         | 251.27      | 0.25                     | -0.24               | 10.44              |
|                  | 1925.00           | 0.16              | 303.31        | 25                 | 1924.96                  | -3.49                 | 3.49 S      | 10.49 W  | 11.06         | 251.59      | 0.86                     | -0.76               | 99.64              |
|                  | 1950.00           | 0.25              | 289.85        | 25                 | 1949.96                  | -3.45                 | 3.45 S      | 10.57 W  | 11.12         | 251.90      | 0.41                     | 0.36                | -53.84             |
|                  | 1975.00           | 0.14              | 274.07        | 25                 | 1974.96                  | -3.43                 | 3.43 S      | 10.65 W  | 11.19         | 252.13      | 0.49                     | -0.44               | -63.12             |
|                  | 2000.00           | 0.19              | 277.63        | 25                 | 1999.96                  | -3.43                 | 3.43 S      | 10.72 W  | 11.26         | 252.28      | 0.20                     | 0.20                | 14.24              |
|                  | 2025.00           | 0.14              | 272.68        | 25                 | 2024.96                  | -3.42                 | 3.42 S      | 10.80 W  | 11.32         | 252.43      | 0.21                     | -0.20               | -19.80             |
|                  | 2050.00           | 0.20              | 273.75        | 25                 | 2049.96                  | -3.41                 | 3.41 S      | 10.87 W  | 11.39         | 252.56      | 0.24                     | 0.24                | 4.28               |
|                  | 2075.00           | 0.15              | 254.81        | 25                 | 2074.96                  | -3.42                 | 3.42 S      | 10.95 W  | 11.47         | 252.65      | 0.30                     | -0.20               | -75.76             |
|                  | 2100.00           | 0.17              | 263.01        | 25                 | 2099.96                  | -3.43                 | 3.43 S      | 11.01 W  | 11.54         | 252.68      | 0.12                     | 0.08                | 32.80              |
|                  | 2125.00           | 0.25              | 273.58        | 25                 | 2124.96                  | -3.43                 | 3.43 S      | 11.10 W  | 11.62         | 252.81      | 0.35                     | 0.32                | 42.28              |
|                  | 2150.00           | 0.27              | 248.11        | 25                 | 2149.96                  | -3.45                 | 3.45 S      | 11.21 W  | 11.73         | 252.88      | 0.47                     | 0.08                | -101.88            |
|                  | 2175.00           | 0.36              | 229.22        | 25                 | 2174.96                  | -3.53                 | 3.53 S      | 11.33 W  | 11.86         | 252.71      | 0.55                     | 0.36                | -75.56             |
|                  | 2200.00           | 0.37              | 225.16        | 25                 | 2199.96                  | -3.63                 | 3.63 S      | 11.44 W  | 12.01         | 252.38      | 0.11                     | 0.04                | -16.24             |
|                  | 2225.00           | 0.35              | 260.86        | 25                 | 2224.96                  | -3.70                 | 3.70 S      | 11.58 W  | 12.16         | 252.26      | 0.89                     | -0.08               | 142.80             |
|                  | 2250.00           | 0.31              | 265.40        | 25                 | 2249.96                  | -3.72                 | 3.72 S      | 11.72 W  | 12.30         | 252.38      | 0.19                     | -0.16               | 18.16              |



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Calculation Method: Minimum Curvature  
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|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 2275.00           | 0.23              | 269.19        | 25                 | 2274.96                  | -3.73                 | 3.73 S      | 11.84 W  | 12.41         | 252.52      | 0.33                     | -0.32               | 15.16              |
|                  | 2300.00           | 0.19              | 274.65        | 25                 | 2299.96                  | -3.72                 | 3.72 S      | 11.93 W  | 12.50         | 252.66      | 0.18                     | -0.16               | 21.84              |
|                  | 2325.00           | 0.13              | 267.19        | 25                 | 2324.96                  | -3.72                 | 3.72 S      | 12.00 W  | 12.56         | 252.76      | 0.25                     | -0.24               | -29.84             |
|                  | 2350.00           | 0.16              | 235.90        | 25                 | 2349.96                  | -3.74                 | 3.74 S      | 12.06 W  | 12.62         | 252.75      | 0.33                     | 0.12                | -125.16            |
|                  | 2375.00           | 0.19              | 198.73        | 25                 | 2374.96                  | -3.80                 | 3.80 S      | 12.10 W  | 12.68         | 252.55      | 0.46                     | 0.12                | -148.68            |
|                  | 2400.00           | 0.35              | 233.43        | 25                 | 2399.96                  | -3.89                 | 3.89 S      | 12.17 W  | 12.78         | 252.29      | 0.89                     | 0.64                | 138.80             |
|                  | 2425.00           | 0.34              | 226.84        | 25                 | 2424.95                  | -3.98                 | 3.98 S      | 12.29 W  | 12.92         | 252.04      | 0.16                     | -0.04               | -26.36             |
|                  | 2450.00           | 0.35              | 226.86        | 25                 | 2449.95                  | -4.09                 | 4.09 S      | 12.40 W  | 13.05         | 251.76      | 0.04                     | 0.04                | 0.08               |
|                  | 2475.00           | 0.30              | 234.45        | 25                 | 2474.95                  | -4.18                 | 4.18 S      | 12.51 W  | 13.19         | 251.53      | 0.26                     | -0.20               | 30.36              |
|                  | 2500.00           | 0.18              | 105.63        | 25                 | 2499.95                  | -4.23                 | 4.23 S      | 12.52 W  | 13.22         | 251.35      | 1.74                     | -0.48               | -515.28            |
|                  | 2525.00           | 0.32              | 81.00         | 25                 | 2524.95                  | -4.23                 | 4.23 S      | 12.42 W  | 13.11         | 251.21      | 0.69                     | 0.56                | -98.52             |
|                  | 2550.00           | 0.36              | 214.94        | 25                 | 2549.95                  | -4.28                 | 4.28 S      | 12.39 W  | 13.11         | 250.95      | 2.50                     | 0.16                | 535.76             |
|                  | 2575.00           | 0.57              | 73.06         | 25                 | 2574.95                  | -4.31                 | 4.31 S      | 12.32 W  | 13.05         | 250.73      | 3.53                     | 0.84                | -567.52            |
|                  | 2600.00           | 0.96              | 70.63         | 25                 | 2599.95                  | -4.20                 | 4.20 S      | 12.00 W  | 12.72         | 250.71      | 1.57                     | 1.56                | -9.72              |
|                  | 2625.00           | 1.50              | 74.28         | 25                 | 2624.94                  | -4.04                 | 4.04 S      | 11.49 W  | 12.18         | 250.61      | 2.18                     | 2.16                | 14.60              |
|                  | 2650.00           | 1.68              | 74.02         | 25                 | 2649.94                  | -3.85                 | 3.85 S      | 10.82 W  | 11.49         | 250.40      | 0.72                     | 0.72                | -1.04              |
|                  | 2675.00           | 1.63              | 75.40         | 25                 | 2674.92                  | -3.66                 | 3.66 S      | 10.13 W  | 10.77         | 250.11      | 0.26                     | -0.20               | 5.52               |
|                  | 2700.00           | 1.72              | 75.31         | 25                 | 2699.91                  | -3.48                 | 3.48 S      | 9.42 W   | 10.04         | 249.73      | 0.36                     | 0.36                | -0.36              |
|                  | 2725.00           | 1.85              | 71.84         | 25                 | 2724.90                  | -3.26                 | 3.26 S      | 8.67 W   | 9.26          | 249.41      | 0.68                     | 0.52                | -13.88             |
|                  | 2750.00           | 1.83              | 73.44         | 25                 | 2749.89                  | -3.02                 | 3.02 S      | 7.91 W   | 8.46          | 249.11      | 0.22                     | -0.08               | 6.40               |
|                  | 2775.00           | 1.97              | 71.69         | 25                 | 2774.88                  | -2.77                 | 2.77 S      | 7.12 W   | 7.63          | 248.74      | 0.61                     | 0.56                | -7.00              |
|                  | 2800.00           | 1.97              | 73.10         | 25                 | 2799.86                  | -2.51                 | 2.51 S      | 6.30 W   | 6.78          | 248.27      | 0.19                     | 0.00                | 5.64               |
|                  | 2825.00           | 2.15              | 74.85         | 25                 | 2824.84                  | -2.26                 | 2.26 S      | 5.43 W   | 5.88          | 247.40      | 0.76                     | 0.72                | 7.00               |
|                  | 2850.00           | 2.07              | 69.72         | 25                 | 2849.83                  | -1.98                 | 1.98 S      | 4.56 W   | 4.97          | 246.49      | 0.82                     | -0.32               | -20.52             |
|                  | 2875.00           | 2.05              | 72.08         | 25                 | 2874.81                  | -1.69                 | 1.69 S      | 3.71 W   | 4.07          | 245.51      | 0.35                     | -0.08               | 9.44               |
|                  | 2900.00           | 2.14              | 71.20         | 25                 | 2899.79                  | -1.40                 | 1.40 S      | 2.84 W   | 3.17          | 243.75      | 0.38                     | 0.36                | -3.52              |
|                  | 2925.00           | 2.18              | 69.24         | 25                 | 2924.78                  | -1.08                 | 1.08 S      | 1.95 W   | 2.23          | 241.03      | 0.34                     | 0.16                | -7.84              |
|                  | 2950.00           | 2.07              | 72.80         | 25                 | 2949.76                  | -0.78                 | 0.78 S      | 1.08 W   | 1.33          | 234.12      | 0.69                     | -0.44               | 14.24              |
|                  | 2975.00           | 2.10              | 71.74         | 25                 | 2974.74                  | -0.50                 | 0.50 S      | 0.21 W   | 0.54          | 202.79      | 0.20                     | 0.12                | -4.24              |
|                  | 3000.00           | 2.09              | 69.26         | 25                 | 2999.73                  | -0.20                 | 0.20 S      | 0.65 E   | 0.68          | 106.87      | 0.36                     | -0.04               | -9.92              |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:  
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 3025.00           | 2.24              | 73.36         | 25                 | 3024.71                  | 0.10                  | 0.10 N      | 1.54 E   | 1.55          | 86.15       | 0.86                     | 0.60                | 16.40              |
|                  | 3050.00           | 2.13              | 75.39         | 25                 | 3049.69                  | 0.36                  | 0.36 N      | 2.46 E   | 2.49          | 81.66       | 0.54                     | -0.44               | 8.12               |
|                  | 3075.00           | 2.15              | 75.02         | 25                 | 3074.67                  | 0.60                  | 0.60 N      | 3.36 E   | 3.42          | 79.90       | 0.10                     | 0.08                | -1.48              |
|                  | 3100.00           | 2.21              | 76.23         | 25                 | 3099.65                  | 0.84                  | 0.84 N      | 4.29 E   | 4.37          | 78.97       | 0.30                     | 0.24                | 4.84               |
|                  | 3125.00           | 2.04              | 72.65         | 25                 | 3124.64                  | 1.08                  | 1.08 N      | 5.18 E   | 5.29          | 78.19       | 0.86                     | -0.68               | -14.32             |
|                  | 3150.00           | 2.05              | 73.60         | 25                 | 3149.62                  | 1.34                  | 1.34 N      | 6.03 E   | 6.18          | 77.46       | 0.14                     | 0.04                | 3.80               |
|                  | 3175.00           | 1.98              | 73.71         | 25                 | 3174.61                  | 1.59                  | 1.59 N      | 6.88 E   | 7.06          | 76.99       | 0.28                     | -0.28               | 0.44               |
|                  | 3200.00           | 2.04              | 77.88         | 25                 | 3199.59                  | 1.80                  | 1.80 N      | 7.73 E   | 7.93          | 76.86       | 0.63                     | 0.24                | 16.68              |
|                  | 3225.00           | 1.84              | 83.92         | 25                 | 3224.58                  | 1.94                  | 1.94 N      | 8.56 E   | 8.78          | 77.23       | 1.14                     | -0.80               | 24.16              |
|                  | 3250.00           | 1.74              | 89.99         | 25                 | 3249.56                  | 1.98                  | 1.98 N      | 9.34 E   | 9.55          | 78.02       | 0.86                     | -0.40               | 24.28              |
|                  | 3275.00           | 1.90              | 92.08         | 25                 | 3274.55                  | 1.97                  | 1.97 N      | 10.13 E  | 10.32         | 79.01       | 0.69                     | 0.64                | 8.36               |
|                  | 3300.00           | 1.71              | 104.13        | 25                 | 3299.54                  | 1.86                  | 1.86 N      | 10.91 E  | 11.07         | 80.32       | 1.69                     | -0.76               | 48.20              |
|                  | 3325.00           | 1.47              | 114.65        | 25                 | 3324.53                  | 1.64                  | 1.64 N      | 11.56 E  | 11.68         | 81.94       | 1.51                     | -0.96               | 42.08              |
|                  | 3350.00           | 1.44              | 115.08        | 25                 | 3349.52                  | 1.37                  | 1.37 N      | 12.14 E  | 12.21         | 83.56       | 0.13                     | -0.12               | 1.72               |
|                  | 3375.00           | 1.44              | 119.38        | 25                 | 3374.51                  | 1.08                  | 1.08 N      | 12.70 E  | 12.74         | 85.13       | 0.43                     | 0.00                | 17.20              |
|                  | 3400.00           | 1.50              | 127.10        | 25                 | 3399.51                  | 0.73                  | 0.73 N      | 13.23 E  | 13.25         | 86.84       | 0.83                     | 0.24                | 30.88              |
|                  | 3425.00           | 1.47              | 132.84        | 25                 | 3424.50                  | 0.32                  | 0.32 N      | 13.73 E  | 13.73         | 88.68       | 0.61                     | -0.12               | 22.96              |
|                  | 3450.00           | 1.49              | 139.44        | 25                 | 3449.49                  | -0.15                 | 0.15 S      | 14.17 E  | 14.17         | 90.60       | 0.69                     | 0.08                | 26.40              |
|                  | 3475.00           | 1.42              | 139.63        | 25                 | 3474.48                  | -0.63                 | 0.63 S      | 14.58 E  | 14.60         | 92.48       | 0.28                     | -0.28               | 0.76               |
|                  | 3500.00           | 1.33              | 140.29        | 25                 | 3499.47                  | -1.09                 | 1.09 S      | 14.97 E  | 15.01         | 94.17       | 0.37                     | -0.36               | 2.64               |
|                  | 3525.00           | 1.44              | 145.52        | 25                 | 3524.47                  | -1.57                 | 1.57 S      | 15.33 E  | 15.41         | 95.86       | 0.67                     | 0.44                | 20.92              |
|                  | 3550.00           | 1.66              | 147.32        | 25                 | 3549.46                  | -2.14                 | 2.14 S      | 15.71 E  | 15.85         | 97.75       | 0.90                     | 0.88                | 7.20               |
|                  | 3575.00           | 1.63              | 143.85        | 25                 | 3574.45                  | -2.73                 | 2.73 S      | 16.11 E  | 16.34         | 99.61       | 0.42                     | -0.12               | -13.88             |
|                  | 3600.00           | 1.47              | 144.35        | 25                 | 3599.44                  | -3.28                 | 3.28 S      | 16.51 E  | 16.83         | 101.23      | 0.64                     | -0.64               | 2.00               |
|                  | 3625.00           | 1.54              | 153.45        | 25                 | 3624.43                  | -3.84                 | 3.84 S      | 16.85 E  | 17.28         | 102.83      | 0.99                     | 0.28                | 36.40              |
|                  | 3650.00           | 1.65              | 148.07        | 25                 | 3649.42                  | -4.44                 | 4.44 S      | 17.19 E  | 17.75         | 104.50      | 0.74                     | 0.44                | -21.52             |
|                  | 3675.00           | 1.56              | 148.37        | 25                 | 3674.41                  | -5.04                 | 5.04 S      | 17.56 E  | 18.26         | 106.02      | 0.36                     | -0.36               | 1.20               |
|                  | 3700.00           | 1.67              | 158.08        | 25                 | 3699.40                  | -5.67                 | 5.67 S      | 17.87 E  | 18.75         | 107.60      | 1.18                     | 0.44                | 38.84              |
|                  | 3725.00           | 1.78              | 153.65        | 25                 | 3724.39                  | -6.35                 | 6.35 S      | 18.18 E  | 19.26         | 109.26      | 0.69                     | 0.44                | -17.72             |
|                  | 3750.00           | 1.53              | 153.66        | 25                 | 3749.38                  | -7.00                 | 7.00 S      | 18.50 E  | 19.78         | 110.73      | 1.00                     | -1.00               | 0.04               |



Company: Legacy  
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 Location: Lea Co., NM  
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Job Number: 61454  
 Grid Corr.: -0.39  
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Calculation Method: Minimum Curvature  
 Proposed Azimuth:             
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey<br>Tool<br>Type | Survey<br>Depth<br>(ft) | Inclina-<br>tion<br>(deg) | Azimuth<br>(deg) | Course<br>Length<br>(ft) | True Vertical<br>Depth<br>(ft) | Vertical<br>Section<br>(ft) | Coordinates |             | Closure          |                | Dogleg<br>Severity<br>(d/100') | Build<br>Rate<br>(d/100') | Walk<br>Rate<br>(d/100') |
|------------------------|-------------------------|---------------------------|------------------|--------------------------|--------------------------------|-----------------------------|-------------|-------------|------------------|----------------|--------------------------------|---------------------------|--------------------------|
|                        |                         |                           |                  |                          |                                |                             | N/S<br>(ft) | E/W<br>(ft) | Distance<br>(ft) | Angle<br>(deg) |                                |                           |                          |
|                        | 3775.00                 | 1.74                      | 158.30           | 25                       | 3774.37                        | -7.65                       | 7.65 S      | 18.79 E     | 20.29            | 112.16         | 0.99                           | 0.84                      | 18.56                    |
|                        | 3800.00                 | 1.69                      | 149.41           | 25                       | 3799.36                        | -8.32                       | 8.32 S      | 19.12 E     | 20.85            | 113.53         | 1.08                           | -0.20                     | -35.56                   |
|                        | 3825.00                 | 1.64                      | 158.35           | 25                       | 3824.35                        | -8.97                       | 8.97 S      | 19.43 E     | 21.41            | 114.78         | 1.06                           | -0.20                     | 35.76                    |
|                        | 3850.00                 | 1.77                      | 156.12           | 25                       | 3849.33                        | -9.66                       | 9.66 S      | 19.72 E     | 21.96            | 116.09         | 0.58                           | 0.52                      | -8.92                    |
|                        | 3875.00                 | 1.55                      | 151.13           | 25                       | 3874.32                        | -10.31                      | 10.31 S     | 20.04 E     | 22.54            | 117.21         | 1.05                           | -0.88                     | -19.96                   |
|                        | 3900.00                 | 1.71                      | 161.67           | 25                       | 3899.31                        | -10.96                      | 10.96 S     | 20.32 E     | 23.09            | 118.33         | 1.36                           | 0.64                      | 42.16                    |
|                        | 3925.00                 | 1.70                      | 157.69           | 25                       | 3924.30                        | -11.65                      | 11.65 S     | 20.58 E     | 23.65            | 119.52         | 0.48                           | -0.04                     | -15.92                   |
|                        | 3950.00                 | 1.40                      | 163.86           | 25                       | 3949.29                        | -12.29                      | 12.29 S     | 20.81 E     | 24.17            | 120.57         | 1.37                           | -1.20                     | 24.68                    |
|                        | 3975.00                 | 1.51                      | 171.18           | 25                       | 3974.29                        | -12.91                      | 12.91 S     | 20.94 E     | 24.60            | 121.65         | 0.86                           | 0.44                      | 29.28                    |
|                        | 4000.00                 | 1.53                      | 164.82           | 25                       | 3999.28                        | -13.56                      | 13.56 S     | 21.08 E     | 25.06            | 122.74         | 0.68                           | 0.08                      | -25.44                   |
|                        | 4025.00                 | 1.38                      | 164.41           | 25                       | 4024.27                        | -14.17                      | 14.17 S     | 21.25 E     | 25.54            | 123.70         | 0.60                           | -0.60                     | -1.64                    |
|                        | 4050.00                 | 1.36                      | 172.49           | 25                       | 4049.26                        | -14.75                      | 14.75 S     | 21.37 E     | 25.97            | 124.62         | 0.78                           | -0.08                     | 32.32                    |
|                        | 4075.00                 | 1.43                      | 167.47           | 25                       | 4074.25                        | -15.35                      | 15.35 S     | 21.47 E     | 26.40            | 125.56         | 0.56                           | 0.28                      | -20.08                   |
|                        | 4100.00                 | 1.16                      | 166.78           | 25                       | 4099.25                        | -15.90                      | 15.90 S     | 21.60 E     | 26.82            | 126.36         | 1.08                           | -1.08                     | -2.76                    |
|                        | 4125.00                 | 1.28                      | 175.83           | 25                       | 4124.24                        | -16.43                      | 16.43 S     | 21.68 E     | 27.20            | 127.15         | 0.91                           | 0.48                      | 36.20                    |
|                        | 4150.00                 | 1.12                      | 155.35           | 25                       | 4149.24                        | -16.93                      | 16.93 S     | 21.80 E     | 27.60            | 127.83         | 1.82                           | -0.64                     | -81.92                   |
|                        | 4175.00                 | 0.91                      | 182.04           | 25                       | 4174.23                        | -17.35                      | 17.35 S     | 21.90 E     | 27.94            | 128.39         | 2.04                           | -0.84                     | 106.76                   |
|                        | 4200.00                 | 1.08                      | 183.30           | 25                       | 4199.23                        | -17.78                      | 17.78 S     | 21.87 E     | 28.19            | 129.11         | 0.69                           | 0.68                      | 5.04                     |
|                        | 4225.00                 | 0.88                      | 173.92           | 25                       | 4224.23                        | -18.21                      | 18.21 S     | 21.88 E     | 28.47            | 129.76         | 1.02                           | -0.80                     | -37.52                   |
|                        | 4250.00                 | 0.91                      | 191.50           | 25                       | 4249.22                        | -18.59                      | 18.59 S     | 21.86 E     | 28.70            | 130.38         | 1.10                           | 0.12                      | 70.32                    |
|                        | 4275.00                 | 0.95                      | 182.23           | 25                       | 4274.22                        | -18.99                      | 18.99 S     | 21.81 E     | 28.93            | 131.05         | 0.62                           | 0.16                      | -37.08                   |
|                        | 4300.00                 | 0.58                      | 177.31           | 25                       | 4299.22                        | -19.33                      | 19.33 S     | 21.81 E     | 29.14            | 131.54         | 1.50                           | -1.48                     | -19.68                   |
|                        | 4325.00                 | 0.92                      | 191.80           | 25                       | 4324.21                        | -19.65                      | 19.65 S     | 21.78 E     | 29.33            | 132.06         | 1.55                           | 1.36                      | 57.96                    |
|                        | 4350.00                 | 0.66                      | 189.40           | 25                       | 4349.21                        | -19.99                      | 19.99 S     | 21.71 E     | 29.51            | 132.63         | 1.05                           | -1.04                     | -9.60                    |
|                        | 4375.00                 | 0.79                      | 192.32           | 25                       | 4374.21                        | -20.30                      | 20.30 S     | 21.65 E     | 29.68            | 133.15         | 0.54                           | 0.52                      | 11.68                    |
|                        | 4400.00                 | 0.66                      | 169.42           | 25                       | 4399.21                        | -20.61                      | 20.61 S     | 21.64 E     | 29.89            | 133.60         | 1.26                           | -0.52                     | -91.60                   |
|                        | 4425.00                 | 0.73                      | 195.68           | 25                       | 4424.21                        | -20.90                      | 20.90 S     | 21.63 E     | 30.08            | 134.03         | 1.29                           | 0.28                      | 105.04                   |
|                        | 4450.00                 | 0.63                      | 173.10           | 25                       | 4449.20                        | -21.19                      | 21.19 S     | 21.60 E     | 30.26            | 134.46         | 1.13                           | -0.40                     | -90.32                   |
|                        | 4475.00                 | 0.56                      | 189.73           | 25                       | 4474.20                        | -21.45                      | 21.45 S     | 21.60 E     | 30.44            | 134.81         | 0.74                           | -0.28                     | 66.52                    |
|                        | 4500.00                 | 0.62                      | 148.07           | 25                       | 4499.20                        | -21.69                      | 21.69 S     | 21.65 E     | 30.64            | 135.05         | 1.69                           | 0.24                      | -166.64                  |



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Job Number: 61454  
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Calculation Method: Minimum Curvature  
 Proposed Azimuth: Ground  
 RKB - MSL in feet: Ground  
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| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 4525.00           | 0.42              | 165.60        | 25                 | 4524.20                  | -21.89                | 21.89 S     | 21.74 E  | 30.85         | 135.20      | 1.01                     | -0.80               | 70.12              |
|                  | 4550.00           | 0.65              | 145.19        | 25                 | 4549.20                  | -22.10                | 22.10 S     | 21.84 E  | 31.07         | 135.33      | 1.18                     | 0.92                | -81.64             |
|                  | 4575.00           | 0.40              | 141.88        | 25                 | 4574.20                  | -22.28                | 22.28 S     | 21.98 E  | 31.30         | 135.39      | 1.01                     | -1.00               | -13.24             |
|                  | 4600.00           | 0.60              | 145.11        | 25                 | 4599.20                  | -22.46                | 22.46 S     | 22.11 E  | 31.51         | 135.45      | 0.81                     | 0.80                | 12.92              |
|                  | 4625.00           | 0.42              | 131.68        | 25                 | 4624.20                  | -22.62                | 22.62 S     | 22.25 E  | 31.73         | 135.48      | 0.86                     | -0.72               | -53.72             |
|                  | 4650.00           | 0.52              | 149.24        | 25                 | 4649.20                  | -22.78                | 22.78 S     | 22.38 E  | 31.93         | 135.52      | 0.70                     | 0.40                | 70.24              |
|                  | 4675.00           | 0.56              | 124.28        | 25                 | 4674.20                  | -22.95                | 22.95 S     | 22.54 E  | 32.16         | 135.52      | 0.95                     | 0.16                | -99.84             |
|                  | 4700.00           | 0.47              | 149.38        | 25                 | 4699.19                  | -23.11                | 23.11 S     | 22.69 E  | 32.38         | 135.52      | 0.96                     | -0.36               | 100.40             |
|                  | 4725.00           | 0.38              | 132.49        | 25                 | 4724.19                  | -23.25                | 23.25 S     | 22.80 E  | 32.57         | 135.56      | 0.61                     | -0.36               | -67.56             |
|                  | 4750.00           | 0.20              | 168.83        | 25                 | 4749.19                  | -23.35                | 23.35 S     | 22.87 E  | 32.69         | 135.59      | 1.00                     | -0.72               | 145.36             |
|                  | 4775.00           | 0.32              | 131.63        | 25                 | 4774.19                  | -23.44                | 23.44 S     | 22.93 E  | 32.79         | 135.62      | 0.80                     | 0.48                | -148.80            |
|                  | 4800.00           | 0.04              | 128.45        | 25                 | 4799.19                  | -23.49                | 23.49 S     | 22.99 E  | 32.87         | 135.61      | 1.12                     | -1.12               | -12.72             |
|                  | 4825.00           | 0.28              | 75.71         | 25                 | 4824.19                  | -23.48                | 23.48 S     | 23.06 E  | 32.91         | 135.52      | 1.03                     | 0.96                | -210.96            |
|                  | 4850.00           | 0.07              | 89.18         | 25                 | 4849.19                  | -23.47                | 23.47 S     | 23.13 E  | 32.95         | 135.41      | 0.85                     | -0.84               | 53.88              |
|                  | 4875.00           | 0.21              | 181.17        | 25                 | 4874.19                  | -23.51                | 23.51 S     | 23.15 E  | 32.99         | 135.45      | 0.89                     | 0.56                | 367.96             |
|                  | 4900.00           | 0.03              | 120.11        | 25                 | 4899.19                  | -23.56                | 23.56 S     | 23.15 E  | 33.03         | 135.50      | 0.79                     | -0.72               | -244.24            |
|                  | 4925.00           | 0.10              | 242.16        | 25                 | 4924.19                  | -23.57                | 23.57 S     | 23.14 E  | 33.03         | 135.53      | 0.47                     | 0.28                | 488.20             |
|                  | 4950.00           | 0.12              | 335.14        | 25                 | 4949.19                  | -23.56                | 23.56 S     | 23.11 E  | 33.00         | 135.56      | 0.64                     | 0.08                | 371.92             |
|                  | 4975.00           | 0.17              | 214.57        | 25                 | 4974.19                  | -23.57                | 23.57 S     | 23.08 E  | 32.98         | 135.60      | 1.01                     | 0.20                | -482.28            |
|                  | 5000.00           | 0.14              | 358.85        | 25                 | 4999.19                  | -23.57                | 23.57 S     | 23.05 E  | 32.97         | 135.63      | 1.18                     | -0.12               | 577.12             |
|                  | 5025.00           | 0.13              | 276.83        | 25                 | 5024.19                  | -23.53                | 23.53 S     | 23.03 E  | 32.92         | 135.63      | 0.71                     | -0.04               | -328.08            |
|                  | 5050.00           | 0.24              | 20.28         | 25                 | 5049.19                  | -23.48                | 23.48 S     | 23.02 E  | 32.88         | 135.57      | 1.19                     | 0.44                | -1026.20           |
|                  | 5075.00           | 0.16              | 268.70        | 25                 | 5074.19                  | -23.43                | 23.43 S     | 23.00 E  | 32.83         | 135.54      | 1.34                     | -0.32               | 993.68             |
|                  | 5100.00           | 0.24              | 354.68        | 25                 | 5099.19                  | -23.38                | 23.38 S     | 22.96 E  | 32.77         | 135.52      | 1.12                     | 0.32                | 343.92             |
|                  | 5125.00           | 0.04              | 357.36        | 25                 | 5124.19                  | -23.32                | 23.32 S     | 22.95 E  | 32.72         | 135.45      | 0.80                     | -0.80               | 10.72              |
|                  | 5150.00           | 0.23              | 310.43        | 25                 | 5149.19                  | -23.28                | 23.28 S     | 22.91 E  | 32.67         | 135.45      | 0.82                     | 0.76                | -187.72            |
|                  | 5175.00           | 0.08              | 78.99         | 25                 | 5174.19                  | -23.24                | 23.24 S     | 22.89 E  | 32.62         | 135.43      | 1.15                     | -0.60               | -925.76            |
|                  | 5200.00           | 0.34              | 315.88        | 25                 | 5199.19                  | -23.19                | 23.19 S     | 22.86 E  | 32.56         | 135.41      | 1.56                     | 1.04                | 947.56             |
|                  | 5225.00           | 0.19              | 356.05        | 25                 | 5224.19                  | -23.09                | 23.09 S     | 22.80 E  | 32.45         | 135.36      | 0.92                     | -0.60               | 160.68             |
|                  | 5250.00           | 0.42              | 320.24        | 25                 | 5249.19                  | -22.98                | 22.98 S     | 22.74 E  | 32.33         | 135.30      | 1.15                     | 0.92                | -143.24            |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:             
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 5275.00           | 0.36              | 355.56        | 25                 | 5274.19                  | -22.83                | 22.83 S     | 22.68 E  | 32.18         | 135.19      | 0.97                     | -0.24               | 141.28             |
|                  | 5300.00           | 0.39              | 323.74        | 25                 | 5299.19                  | -22.68                | 22.68 S     | 22.62 E  | 32.04         | 135.08      | 0.83                     | 0.12                | -127.28            |
|                  | 5325.00           | 0.51              | 341.75        | 25                 | 5324.19                  | -22.51                | 22.51 S     | 22.54 E  | 31.85         | 134.97      | 0.74                     | 0.48                | 72.04              |
|                  | 5350.00           | 0.29              | 93.70         | 25                 | 5349.19                  | -22.41                | 22.41 S     | 22.57 E  | 31.80         | 134.80      | 2.70                     | -0.88               | -992.20            |
|                  | 5375.00           | 0.68              | 328.52        | 25                 | 5374.19                  | -22.29                | 22.29 S     | 22.55 E  | 31.71         | 134.66      | 3.52                     | 1.56                | 939.28             |
|                  | 5400.00           | 0.70              | 337.00        | 25                 | 5399.19                  | -22.02                | 22.02 S     | 22.41 E  | 31.42         | 134.49      | 0.42                     | 0.08                | 33.92              |
|                  | 5425.00           | 1.02              | 318.86        | 25                 | 5424.18                  | -21.71                | 21.71 S     | 22.21 E  | 31.06         | 134.35      | 1.67                     | 1.28                | -72.56             |
|                  | 5450.00           | 1.08              | 333.79        | 25                 | 5449.18                  | -21.33                | 21.33 S     | 21.96 E  | 30.61         | 134.17      | 1.12                     | 0.24                | 59.72              |
|                  | 5475.00           | 0.85              | 324.76        | 25                 | 5474.18                  | -20.97                | 20.97 S     | 21.75 E  | 30.21         | 133.96      | 1.10                     | -0.92               | -36.12             |
|                  | 5500.00           | 1.06              | 319.67        | 25                 | 5499.17                  | -20.64                | 20.64 S     | 21.49 E  | 29.80         | 133.85      | 0.91                     | 0.84                | -20.36             |
|                  | 5525.00           | 1.04              | 331.88        | 25                 | 5524.17                  | -20.27                | 20.27 S     | 21.23 E  | 29.35         | 133.66      | 0.90                     | -0.08               | 48.84              |
|                  | 5550.00           | 0.87              | 319.38        | 25                 | 5549.16                  | -19.92                | 19.92 S     | 21.00 E  | 28.95         | 133.49      | 1.07                     | -0.68               | -50.00             |
|                  | 5575.00           | 1.07              | 318.63        | 25                 | 5574.16                  | -19.60                | 19.60 S     | 20.72 E  | 28.53         | 133.40      | 0.80                     | 0.80                | -3.00              |
|                  | 5600.00           | 0.99              | 327.49        | 25                 | 5599.16                  | -19.24                | 19.24 S     | 20.45 E  | 28.08         | 133.25      | 0.71                     | -0.32               | 35.44              |
|                  | 5625.00           | 0.84              | 319.55        | 25                 | 5624.15                  | -18.92                | 18.92 S     | 20.22 E  | 27.69         | 133.10      | 0.78                     | -0.60               | -31.76             |
|                  | 5650.00           | 1.01              | 314.43        | 25                 | 5649.15                  | -18.63                | 18.63 S     | 19.94 E  | 27.29         | 133.05      | 0.76                     | 0.68                | -20.48             |
|                  | 5675.00           | 1.06              | 325.24        | 25                 | 5674.15                  | -18.28                | 18.28 S     | 19.65 E  | 26.84         | 132.93      | 0.80                     | 0.20                | 43.24              |
|                  | 5700.00           | 0.87              | 318.66        | 25                 | 5699.14                  | -17.95                | 17.95 S     | 19.40 E  | 26.43         | 132.79      | 0.88                     | -0.76               | -26.32             |
|                  | 5725.00           | 0.98              | 310.45        | 25                 | 5724.14                  | -17.67                | 17.67 S     | 19.11 E  | 26.03         | 132.76      | 0.69                     | 0.44                | -32.84             |
|                  | 5750.00           | 1.08              | 320.63        | 25                 | 5749.14                  | -17.35                | 17.35 S     | 18.80 E  | 25.58         | 132.71      | 0.83                     | 0.40                | 40.72              |
|                  | 5775.00           | 0.99              | 325.49        | 25                 | 5774.13                  | -16.99                | 16.99 S     | 18.52 E  | 25.14         | 132.53      | 0.50                     | -0.36               | 19.44              |
|                  | 5800.00           | 0.89              | 312.12        | 25                 | 5799.13                  | -16.68                | 16.68 S     | 18.26 E  | 24.73         | 132.42      | 0.96                     | -0.40               | -53.48             |
|                  | 5825.00           | 1.08              | 313.18        | 25                 | 5824.12                  | -16.39                | 16.39 S     | 17.94 E  | 24.30         | 132.41      | 0.76                     | 0.76                | 4.24               |
|                  | 5850.00           | 1.08              | 321.02        | 25                 | 5849.12                  | -16.05                | 16.05 S     | 17.62 E  | 23.83         | 132.32      | 0.59                     | 0.00                | 31.36              |
|                  | 5875.00           | 0.83              | 309.76        | 25                 | 5874.12                  | -15.75                | 15.75 S     | 17.34 E  | 23.42         | 132.25      | 1.25                     | -1.00               | -45.04             |
|                  | 5900.00           | 0.88              | 305.60        | 25                 | 5899.11                  | -15.52                | 15.52 S     | 17.04 E  | 23.05         | 132.33      | 0.32                     | 0.20                | -16.64             |
|                  | 5925.00           | 0.97              | 297.97        | 25                 | 5924.11                  | -15.31                | 15.31 S     | 16.70 E  | 22.65         | 132.52      | 0.61                     | 0.36                | -30.52             |
|                  | 5950.00           | 1.04              | 308.01        | 25                 | 5949.11                  | -15.07                | 15.07 S     | 16.33 E  | 22.22         | 132.70      | 0.76                     | 0.28                | 40.16              |
|                  | 5975.00           | 0.92              | 305.11        | 25                 | 5974.10                  | -14.81                | 14.81 S     | 15.99 E  | 21.80         | 132.82      | 0.52                     | -0.48               | -11.60             |
|                  | 6000.00           | 0.80              | 301.63        | 25                 | 5999.10                  | -14.61                | 14.61 S     | 15.68 E  | 21.43         | 132.98      | 0.52                     | -0.48               | -13.92             |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:  
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 6025.00           | 1.02              | 297.55        | 25                 | 6024.10                  | -14.41                | 14.41 S     | 15.33 E  | 21.04         | 133.23      | 0.92                     | 0.88                | -16.32             |
|                  | 6050.00           | 1.05              | 305.06        | 25                 | 6049.09                  | -14.18                | 14.18 S     | 14.94 E  | 20.60         | 133.49      | 0.56                     | 0.12                | 30.04              |
|                  | 6075.00           | 0.93              | 310.54        | 25                 | 6074.09                  | -13.92                | 13.92 S     | 14.60 E  | 20.17         | 133.62      | 0.61                     | -0.48               | 21.92              |
|                  | 6100.00           | 0.79              | 302.96        | 25                 | 6099.09                  | -13.69                | 13.69 S     | 14.30 E  | 19.80         | 133.74      | 0.72                     | -0.56               | -30.32             |
|                  | 6125.00           | 0.91              | 294.66        | 25                 | 6124.08                  | -13.51                | 13.51 S     | 13.98 E  | 19.44         | 134.03      | 0.69                     | 0.48                | -33.20             |
|                  | 6150.00           | 1.03              | 304.73        | 25                 | 6149.08                  | -13.30                | 13.30 S     | 13.61 E  | 19.03         | 134.34      | 0.83                     | 0.48                | 40.28              |
|                  | 6175.00           | 0.97              | 310.87        | 25                 | 6174.08                  | -13.04                | 13.04 S     | 13.27 E  | 18.60         | 134.49      | 0.49                     | -0.24               | 24.56              |
|                  | 6200.00           | 0.83              | 305.78        | 25                 | 6199.07                  | -12.79                | 12.79 S     | 12.96 E  | 18.21         | 134.62      | 0.64                     | -0.56               | -20.36             |
|                  | 6225.00           | 0.96              | 293.27        | 25                 | 6224.07                  | -12.60                | 12.60 S     | 12.62 E  | 17.84         | 134.95      | 0.94                     | 0.52                | -50.04             |
|                  | 6250.00           | 1.08              | 302.11        | 25                 | 6249.07                  | -12.39                | 12.39 S     | 12.23 E  | 17.41         | 135.38      | 0.79                     | 0.48                | 35.36              |
|                  | 6275.00           | 0.96              | 309.86        | 25                 | 6274.06                  | -12.14                | 12.14 S     | 11.87 E  | 16.98         | 135.63      | 0.73                     | -0.48               | 31.00              |
|                  | 6300.00           | 0.71              | 303.93        | 25                 | 6299.06                  | -11.91                | 11.91 S     | 11.58 E  | 16.62         | 135.81      | 1.06                     | -1.00               | -23.72             |
|                  | 6325.00           | 1.00              | 295.31        | 25                 | 6324.06                  | -11.73                | 11.73 S     | 11.26 E  | 16.26         | 136.19      | 1.27                     | 1.16                | -34.48             |
|                  | 6350.00           | 1.10              | 306.34        | 25                 | 6349.05                  | -11.50                | 11.50 S     | 10.87 E  | 15.82         | 136.62      | 0.90                     | 0.40                | 44.12              |
|                  | 6375.00           | 0.92              | 314.97        | 25                 | 6374.05                  | -11.22                | 11.22 S     | 10.53 E  | 15.38         | 136.80      | 0.94                     | -0.72               | 34.52              |
|                  | 6400.00           | 0.89              | 302.21        | 25                 | 6399.04                  | -10.97                | 10.97 S     | 10.22 E  | 15.00         | 137.02      | 0.81                     | -0.12               | -51.04             |
|                  | 6425.00           | 1.08              | 300.18        | 25                 | 6424.04                  | -10.75                | 10.75 S     | 9.86 E   | 14.58         | 137.48      | 0.77                     | 0.76                | -8.12              |
|                  | 6450.00           | 1.03              | 311.40        | 25                 | 6449.04                  | -10.48                | 10.48 S     | 9.48 E   | 14.13         | 137.86      | 0.85                     | -0.20               | 44.88              |
|                  | 6475.00           | 0.85              | 310.76        | 25                 | 6474.03                  | -10.21                | 10.21 S     | 9.17 E   | 13.73         | 138.06      | 0.72                     | -0.72               | -2.56              |
|                  | 6500.00           | 0.99              | 301.56        | 25                 | 6499.03                  | -9.98                 | 9.98 S      | 8.85 E   | 13.34         | 138.43      | 0.81                     | 0.56                | -36.80             |
|                  | 6525.00           | 1.09              | 310.33        | 25                 | 6524.03                  | -9.71                 | 9.71 S      | 8.49 E   | 12.90         | 138.85      | 0.75                     | 0.40                | 35.08              |
|                  | 6550.00           | 0.97              | 316.90        | 25                 | 6549.02                  | -9.40                 | 9.40 S      | 8.16 E   | 12.45         | 139.05      | 0.67                     | -0.48               | 26.28              |
|                  | 6575.00           | 0.85              | 301.84        | 25                 | 6574.02                  | -9.15                 | 9.15 S      | 7.86 E   | 12.06         | 139.35      | 1.07                     | -0.48               | -60.24             |
|                  | 6600.00           | 1.03              | 307.51        | 25                 | 6599.02                  | -8.91                 | 8.91 S      | 7.52 E   | 11.66         | 139.85      | 0.81                     | 0.72                | 22.68              |
|                  | 6625.00           | 0.86              | 326.15        | 25                 | 6624.01                  | -8.62                 | 8.62 S      | 7.24 E   | 11.26         | 139.99      | 1.40                     | -0.68               | 74.56              |
|                  | 6650.00           | 0.80              | 309.58        | 25                 | 6649.01                  | -8.36                 | 8.36 S      | 7.00 E   | 10.90         | 140.05      | 0.99                     | -0.24               | -66.28             |
|                  | 6675.00           | 0.97              | 302.52        | 25                 | 6674.01                  | -8.13                 | 8.13 S      | 6.69 E   | 10.53         | 140.57      | 0.81                     | 0.68                | -28.24             |
|                  | 6700.00           | 0.96              | 315.98        | 25                 | 6699.00                  | -7.87                 | 7.87 S      | 6.36 E   | 10.12         | 141.03      | 0.91                     | -0.04               | 53.84              |
|                  | 6725.00           | 0.80              | 315.44        | 25                 | 6724.00                  | -7.59                 | 7.59 S      | 6.09 E   | 9.73          | 141.24      | 0.64                     | -0.64               | -2.16              |
|                  | 6750.00           | 0.92              | 300.60        | 25                 | 6749.00                  | -7.36                 | 7.36 S      | 5.80 E   | 9.37          | 141.78      | 1.01                     | 0.48                | -59.36             |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 6775.00           | 1.03              | 311.51        | 25                 | 6773.99                  | -7.11                 | 7.11 S      | 5.46 E   | 8.97          | 142.50      | 0.86                     | 0.44                | 43.64              |
|                  | 6800.00           | 0.88              | 316.29        | 25                 | 6798.99                  | -6.83                 | 6.83 S      | 5.16 E   | 8.56          | 142.93      | 0.68                     | -0.60               | 19.12              |
|                  | 6825.00           | 0.80              | 303.94        | 25                 | 6823.99                  | -6.59                 | 6.59 S      | 4.88 E   | 8.20          | 143.48      | 0.79                     | -0.32               | -49.40             |
|                  | 6850.00           | 1.01              | 304.51        | 25                 | 6848.98                  | -6.37                 | 6.37 S      | 4.55 E   | 7.83          | 144.43      | 0.84                     | 0.84                | 2.28               |
|                  | 6875.00           | 1.02              | 313.31        | 25                 | 6873.98                  | -6.09                 | 6.09 S      | 4.21 E   | 7.40          | 145.34      | 0.62                     | 0.04                | 35.20              |
|                  | 6900.00           | 0.77              | 313.12        | 25                 | 6898.98                  | -5.82                 | 5.82 S      | 3.93 E   | 7.02          | 146.01      | 1.00                     | -1.00               | -0.76              |
|                  | 6925.00           | 0.83              | 296.97        | 25                 | 6923.97                  | -5.63                 | 5.63 S      | 3.64 E   | 6.70          | 147.08      | 0.93                     | 0.24                | -64.60             |
|                  | 6950.00           | 0.96              | 307.94        | 25                 | 6948.97                  | -5.41                 | 5.41 S      | 3.32 E   | 6.35          | 148.52      | 0.86                     | 0.52                | 43.88              |
|                  | 6975.00           | 0.85              | 317.19        | 25                 | 6973.97                  | -5.15                 | 5.15 S      | 3.02 E   | 5.97          | 149.58      | 0.73                     | -0.44               | 37.00              |
|                  | 7000.00           | 0.75              | 314.69        | 25                 | 6998.97                  | -4.90                 | 4.90 S      | 2.78 E   | 5.63          | 150.41      | 0.42                     | -0.40               | -10.00             |
|                  | 7025.00           | 0.88              | 302.61        | 25                 | 7023.96                  | -4.68                 | 4.68 S      | 2.50 E   | 5.31          | 151.86      | 0.86                     | 0.52                | -48.32             |
|                  | 7050.00           | 0.95              | 305.71        | 25                 | 7048.96                  | -4.46                 | 4.46 S      | 2.17 E   | 4.96          | 154.00      | 0.34                     | 0.28                | 12.40              |
|                  | 7075.00           | 0.90              | 316.54        | 25                 | 7073.96                  | -4.19                 | 4.19 S      | 1.87 E   | 4.59          | 155.96      | 0.73                     | -0.20               | 43.32              |
|                  | 7100.00           | 0.69              | 308.26        | 25                 | 7098.95                  | -3.96                 | 3.96 S      | 1.62 E   | 4.27          | 157.77      | 0.96                     | -0.84               | -33.12             |
|                  | 7125.00           | 0.67              | 282.64        | 25                 | 7123.95                  | -3.83                 | 3.83 S      | 1.36 E   | 4.06          | 160.51      | 1.21                     | -0.08               | -102.48            |
|                  | 7150.00           | 0.80              | 283.01        | 25                 | 7148.95                  | -3.76                 | 3.76 S      | 1.04 E   | 3.90          | 164.49      | 0.52                     | 0.52                | 1.48               |
|                  | 7175.00           | 0.90              | 284.33        | 25                 | 7173.95                  | -3.67                 | 3.67 S      | 0.68 E   | 3.74          | 169.46      | 0.41                     | 0.40                | 5.28               |
|                  | 7200.00           | 0.69              | 308.54        | 25                 | 7198.95                  | -3.53                 | 3.53 S      | 0.38 E   | 3.55          | 173.93      | 1.57                     | -0.84               | 96.84              |
|                  | 7225.00           | 0.66              | 302.08        | 25                 | 7223.94                  | -3.36                 | 3.36 S      | 0.14 E   | 3.36          | 177.69      | 0.33                     | -0.12               | -25.84             |
|                  | 7250.00           | 0.62              | 297.11        | 25                 | 7248.94                  | -3.22                 | 3.22 S      | 0.11 W   | 3.22          | 181.90      | 0.27                     | -0.16               | -19.88             |
|                  | 7275.00           | 0.62              | 278.06        | 25                 | 7273.94                  | -3.14                 | 3.14 S      | 0.36 W   | 3.16          | 186.56      | 0.82                     | 0.00                | -76.20             |
|                  | 7300.00           | 0.83              | 263.35        | 25                 | 7298.94                  | -3.14                 | 3.14 S      | 0.67 W   | 3.21          | 192.12      | 1.12                     | 0.84                | -58.84             |
|                  | 7325.00           | 0.77              | 285.85        | 25                 | 7323.94                  | -3.12                 | 3.12 S      | 1.02 W   | 3.28          | 198.06      | 1.27                     | -0.24               | 90.00              |
|                  | 7350.00           | 0.78              | 294.55        | 25                 | 7348.93                  | -3.00                 | 3.00 S      | 1.33 W   | 3.28          | 203.95      | 0.47                     | 0.04                | 34.80              |
|                  | 7375.00           | 0.62              | 291.56        | 25                 | 7373.93                  | -2.88                 | 2.88 S      | 1.61 W   | 3.30          | 209.25      | 0.66                     | -0.64               | -11.96             |
|                  | 7400.00           | 0.51              | 278.62        | 25                 | 7398.93                  | -2.81                 | 2.81 S      | 1.85 W   | 3.37          | 213.31      | 0.67                     | -0.44               | -51.76             |
|                  | 7425.00           | 0.64              | 257.79        | 25                 | 7423.93                  | -2.83                 | 2.83 S      | 2.10 W   | 3.52          | 216.55      | 0.98                     | 0.52                | -83.32             |
|                  | 7450.00           | 0.71              | 271.86        | 25                 | 7448.93                  | -2.85                 | 2.85 S      | 2.39 W   | 3.72          | 219.93      | 0.72                     | 0.28                | 56.28              |
|                  | 7475.00           | 0.79              | 264.58        | 25                 | 7473.93                  | -2.86                 | 2.86 S      | 2.71 W   | 3.94          | 223.46      | 0.50                     | 0.32                | -29.12             |
|                  | 7500.00           | 0.68              | 285.57        | 25                 | 7498.92                  | -2.84                 | 2.84 S      | 3.03 W   | 4.15          | 226.84      | 1.16                     | -0.44               | 83.96              |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:  
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 7525.00           | 0.46              | 285.21        | 25                 | 7523.92                  | -2.77                 | 2.77 S      | 3.27 W   | 4.29          | 229.68      | 0.88                     | -0.88               | -1.44              |
|                  | 7550.00           | 0.52              | 280.04        | 25                 | 7548.92                  | -2.73                 | 2.73 S      | 3.48 W   | 4.42          | 231.88      | 0.30                     | 0.24                | -20.68             |
|                  | 7575.00           | 0.41              | 139.85        | 25                 | 7573.92                  | -2.78                 | 2.78 S      | 3.53 W   | 4.49          | 231.82      | 3.50                     | -0.44               | -560.76            |
|                  | 7600.00           | 0.48              | 261.88        | 25                 | 7598.92                  | -2.86                 | 2.86 S      | 3.58 W   | 4.58          | 231.36      | 3.12                     | 0.28                | 488.12             |
|                  | 7625.00           | 0.57              | 262.05        | 25                 | 7623.92                  | -2.89                 | 2.89 S      | 3.80 W   | 4.78          | 232.76      | 0.36                     | 0.36                | 0.68               |
|                  | 7650.00           | 0.66              | 263.44        | 25                 | 7648.92                  | -2.92                 | 2.92 S      | 4.07 W   | 5.01          | 234.29      | 0.36                     | 0.36                | 5.56               |
|                  | 7675.00           | 0.68              | 304.61        | 25                 | 7673.92                  | -2.86                 | 2.86 S      | 4.33 W   | 5.19          | 236.61      | 1.89                     | 0.08                | 164.68             |
|                  | 7700.00           | 0.58              | 287.25        | 25                 | 7698.92                  | -2.74                 | 2.74 S      | 4.58 W   | 5.33          | 239.14      | 0.86                     | -0.40               | -69.44             |
|                  | 7725.00           | 0.52              | 288.05        | 25                 | 7723.91                  | -2.66                 | 2.66 S      | 4.81 W   | 5.49          | 241.01      | 0.24                     | -0.24               | 3.20               |
|                  | 7750.00           | 0.48              | 263.77        | 25                 | 7748.91                  | -2.64                 | 2.64 S      | 5.02 W   | 5.67          | 242.26      | 0.86                     | -0.16               | -97.12             |
|                  | 7775.00           | 0.53              | 268.59        | 25                 | 7773.91                  | -2.65                 | 2.65 S      | 5.24 W   | 5.87          | 243.14      | 0.26                     | 0.20                | 19.28              |
|                  | 7800.00           | 0.53              | 294.22        | 25                 | 7798.91                  | -2.61                 | 2.61 S      | 5.46 W   | 6.05          | 244.46      | 0.94                     | 0.00                | 102.52             |
|                  | 7825.00           | 0.56              | 198.49        | 25                 | 7823.91                  | -2.68                 | 2.68 S      | 5.60 W   | 6.21          | 244.47      | 3.23                     | 0.12                | -382.92            |
|                  | 7850.00           | 0.69              | 274.82        | 25                 | 7848.91                  | -2.78                 | 2.78 S      | 5.79 W   | 6.42          | 244.36      | 3.12                     | 0.52                | 305.32             |
|                  | 7875.00           | 0.39              | 262.84        | 25                 | 7873.91                  | -2.78                 | 2.78 S      | 6.03 W   | 6.64          | 245.25      | 1.28                     | -1.20               | -47.92             |
|                  | 7900.00           | 0.63              | 279.43        | 25                 | 7898.91                  | -2.77                 | 2.77 S      | 6.25 W   | 6.83          | 246.12      | 1.12                     | 0.96                | 66.36              |
|                  | 7925.00           | 0.67              | 263.92        | 25                 | 7923.91                  | -2.76                 | 2.76 S      | 6.53 W   | 7.09          | 247.09      | 0.72                     | 0.16                | -62.04             |
|                  | 7950.00           | 0.56              | 268.25        | 25                 | 7948.90                  | -2.78                 | 2.78 S      | 6.79 W   | 7.34          | 247.76      | 0.48                     | -0.44               | 17.32              |
|                  | 7975.00           | 0.50              | 266.07        | 25                 | 7973.90                  | -2.79                 | 2.79 S      | 7.03 W   | 7.56          | 248.35      | 0.25                     | -0.24               | -8.72              |
|                  | 8000.00           | 0.60              | 272.77        | 25                 | 7998.90                  | -2.79                 | 2.79 S      | 7.26 W   | 7.78          | 248.99      | 0.47                     | 0.40                | 26.80              |
|                  | 8025.00           | 0.73              | 266.40        | 25                 | 8023.90                  | -2.79                 | 2.79 S      | 7.55 W   | 8.05          | 249.70      | 0.60                     | 0.52                | -25.48             |
|                  | 8050.00           | 0.83              | 282.34        | 25                 | 8048.90                  | -2.77                 | 2.77 S      | 7.89 W   | 8.36          | 250.69      | 0.95                     | 0.40                | 63.76              |
|                  | 8075.00           | 1.00              | 288.35        | 25                 | 8073.90                  | -2.66                 | 2.66 S      | 8.27 W   | 8.69          | 252.19      | 0.78                     | 0.68                | 24.04              |
|                  | 8100.00           | 1.07              | 283.95        | 25                 | 8098.89                  | -2.53                 | 2.53 S      | 8.71 W   | 9.07          | 253.78      | 0.42                     | 0.28                | -17.60             |
|                  | 8125.00           | 0.97              | 294.27        | 25                 | 8123.89                  | -2.39                 | 2.39 S      | 9.13 W   | 9.44          | 255.33      | 0.84                     | -0.40               | 41.28              |
|                  | 8150.00           | 0.96              | 291.50        | 25                 | 8148.88                  | -2.23                 | 2.23 S      | 9.52 W   | 9.77          | 256.83      | 0.19                     | -0.04               | -11.08             |
|                  | 8175.00           | 1.13              | 288.01        | 25                 | 8173.88                  | -2.07                 | 2.07 S      | 9.94 W   | 10.16         | 258.22      | 0.73                     | 0.68                | -13.96             |
|                  | 8200.00           | 1.23              | 285.33        | 25                 | 8198.87                  | -1.93                 | 1.93 S      | 10.44 W  | 10.61         | 259.55      | 0.46                     | 0.40                | -10.72             |
|                  | 8225.00           | 1.33              | 286.66        | 25                 | 8223.87                  | -1.77                 | 1.77 S      | 10.97 W  | 11.12         | 260.83      | 0.42                     | 0.40                | 5.32               |
|                  | 8250.00           | 1.30              | 288.37        | 25                 | 8248.86                  | -1.60                 | 1.60 S      | 11.52 W  | 11.63         | 262.10      | 0.20                     | -0.12               | 6.84               |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:             
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 8275.00           | 1.39              | 285.13        | 25                 | 8273.85                  | -1.43                 | 1.43 S      | 12.08 W  | 12.17         | 263.25      | 0.47                     | 0.36                | -12.96             |
|                  | 8300.00           | 1.57              | 289.10        | 25                 | 8298.85                  | -1.24                 | 1.24 S      | 12.70 W  | 12.76         | 264.43      | 0.83                     | 0.72                | 15.88              |
|                  | 8325.00           | 1.51              | 288.54        | 25                 | 8323.84                  | -1.02                 | 1.02 S      | 13.34 W  | 13.37         | 265.61      | 0.25                     | -0.24               | -2.24              |
|                  | 8350.00           | 1.54              | 289.52        | 25                 | 8348.83                  | -0.81                 | 0.81 S      | 13.96 W  | 13.99         | 266.70      | 0.16                     | 0.12                | 3.92               |
|                  | 8375.00           | 1.54              | 289.25        | 25                 | 8373.82                  | -0.58                 | 0.58 S      | 14.60 W  | 14.61         | 267.71      | 0.03                     | 0.00                | -1.08              |
|                  | 8400.00           | 1.72              | 290.64        | 25                 | 8398.81                  | -0.34                 | 0.34 S      | 15.27 W  | 15.27         | 268.73      | 0.74                     | 0.72                | 5.56               |
|                  | 8425.00           | 1.83              | 290.33        | 25                 | 8423.80                  | -0.07                 | 0.07 S      | 15.99 W  | 15.99         | 269.75      | 0.44                     | 0.44                | -1.24              |
|                  | 8450.00           | 2.03              | 294.86        | 25                 | 8448.78                  | 0.26                  | 0.26 N      | 16.77 W  | 16.77         | 270.87      | 1.01                     | 0.80                | 18.12              |
|                  | 8475.00           | 2.02              | 290.38        | 25                 | 8473.77                  | 0.60                  | 0.60 N      | 17.58 W  | 17.59         | 271.94      | 0.63                     | -0.04               | -17.92             |
|                  | 8500.00           | 2.17              | 290.18        | 25                 | 8498.75                  | 0.91                  | 0.91 N      | 18.44 W  | 18.46         | 272.83      | 0.60                     | 0.60                | -0.80              |
|                  | 8525.00           | 2.20              | 284.90        | 25                 | 8523.73                  | 1.20                  | 1.20 N      | 19.35 W  | 19.39         | 273.55      | 0.81                     | 0.12                | -21.12             |
|                  | 8550.00           | 2.40              | 280.67        | 25                 | 8548.71                  | 1.42                  | 1.42 N      | 20.33 W  | 20.38         | 273.99      | 1.05                     | 0.80                | -16.92             |
|                  | 8575.00           | 2.54              | 282.50        | 25                 | 8573.69                  | 1.64                  | 1.64 N      | 21.38 W  | 21.44         | 274.38      | 0.64                     | 0.56                | 7.32               |
|                  | 8600.00           | 2.70              | 280.81        | 25                 | 8598.66                  | 1.87                  | 1.87 N      | 22.50 W  | 22.58         | 274.74      | 0.71                     | 0.64                | -6.76              |
|                  | 8625.00           | 3.03              | 281.05        | 25                 | 8623.63                  | 2.10                  | 2.10 N      | 23.73 W  | 23.82         | 275.07      | 1.32                     | 1.32                | 0.96               |
|                  | 8650.00           | 2.95              | 277.06        | 25                 | 8648.60                  | 2.31                  | 2.31 N      | 25.01 W  | 25.12         | 275.27      | 0.89                     | -0.32               | -15.96             |
|                  | 8675.00           | 2.86              | 272.75        | 25                 | 8673.57                  | 2.42                  | 2.42 N      | 26.28 W  | 26.39         | 275.26      | 0.94                     | -0.36               | -17.24             |
|                  | 8700.00           | 2.81              | 276.48        | 25                 | 8698.53                  | 2.52                  | 2.52 N      | 27.51 W  | 27.62         | 275.23      | 0.76                     | -0.20               | 14.92              |
|                  | 8725.00           | 3.27              | 276.33        | 25                 | 8723.50                  | 2.67                  | 2.67 N      | 28.83 W  | 28.95         | 275.28      | 1.84                     | 1.84                | -0.60              |
|                  | 8750.00           | 3.41              | 277.05        | 25                 | 8748.46                  | 2.83                  | 2.83 N      | 30.27 W  | 30.40         | 275.35      | 0.58                     | 0.56                | 2.88               |
|                  | 8775.00           | 3.71              | 277.32        | 25                 | 8773.41                  | 3.03                  | 3.03 N      | 31.81 W  | 31.96         | 275.44      | 1.20                     | 1.20                | 1.08               |
|                  | 8800.00           | 3.88              | 276.92        | 25                 | 8798.35                  | 3.23                  | 3.23 N      | 33.45 W  | 33.61         | 275.52      | 0.69                     | 0.68                | -1.60              |
|                  | 8825.00           | 3.89              | 280.88        | 25                 | 8823.30                  | 3.50                  | 3.50 N      | 35.13 W  | 35.30         | 275.68      | 1.07                     | 0.04                | 15.84              |
|                  | 8850.00           | 3.93              | 279.73        | 25                 | 8848.24                  | 3.80                  | 3.80 N      | 36.80 W  | 37.00         | 275.90      | 0.35                     | 0.16                | -4.60              |
|                  | 8875.00           | 4.01              | 276.49        | 25                 | 8873.18                  | 4.04                  | 4.04 N      | 38.52 W  | 38.73         | 275.99      | 0.95                     | 0.32                | -12.96             |
|                  | 8900.00           | 3.90              | 277.83        | 25                 | 8898.12                  | 4.26                  | 4.26 N      | 40.23 W  | 40.45         | 276.04      | 0.57                     | -0.44               | 5.36               |
|                  | 8925.00           | 3.69              | 287.42        | 25                 | 8923.06                  | 4.62                  | 4.62 N      | 41.84 W  | 42.09         | 276.30      | 2.67                     | -0.84               | 38.36              |
|                  | 8950.00           | 3.85              | 289.89        | 25                 | 8948.01                  | 5.14                  | 5.14 N      | 43.39 W  | 43.70         | 276.76      | 0.91                     | 0.64                | 9.88               |
|                  | 8975.00           | 3.99              | 292.72        | 25                 | 8972.95                  | 5.76                  | 5.76 N      | 44.99 W  | 45.35         | 277.30      | 0.96                     | 0.56                | 11.32              |
|                  | 9000.00           | 4.02              | 282.68        | 25                 | 8997.89                  | 6.29                  | 6.29 N      | 46.64 W  | 47.07         | 277.68      | 2.80                     | 0.12                | -40.16             |



Company: Legacy  
Well: Hamon A Fed Com 2H  
Location: Lea Co., NM  
Rig: Pulling Unit

Job Number: 61454  
Grid Corr.: -0.39  
Lat: 32.57  
Long: -103.60

Calculation Method: Minimum Curvature  
Proposed Azimuth:   
RKB - MSL in feet: Ground  
Tie Into: Surface

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 9025.00           | 4.48              | 280.43        | 25                 | 9022.82                  | 6.66                  | 6.66 N      | 48.46 W  | 48.91         | 277.83      | 1.96                     | 1.84                | -9.00              |
|                  | 9050.00           | 4.61              | 278.69        | 25                 | 9047.74                  | 6.99                  | 6.99 N      | 50.41 W  | 50.89         | 277.89      | 0.76                     | 0.52                | -6.96              |
|                  | 9075.00           | 4.62              | 277.38        | 25                 | 9072.66                  | 7.27                  | 7.27 N      | 52.40 W  | 52.90         | 277.90      | 0.42                     | 0.04                | -5.24              |
|                  | 9100.00           | 4.64              | 275.27        | 25                 | 9097.58                  | 7.49                  | 7.49 N      | 54.41 W  | 54.92         | 277.84      | 0.69                     | 0.08                | -8.44              |
|                  | 9125.00           | 4.68              | 274.50        | 25                 | 9122.50                  | 7.67                  | 7.67 N      | 56.43 W  | 56.95         | 277.74      | 0.30                     | 0.16                | -3.08              |
|                  | 9150.00           | 4.48              | 273.77        | 25                 | 9147.42                  | 7.81                  | 7.81 N      | 58.42 W  | 58.94         | 277.61      | 0.83                     | -0.80               | -2.92              |
|                  | 9175.00           | 4.36              | 273.69        | 25                 | 9172.34                  | 7.94                  | 7.94 N      | 60.35 W  | 60.87         | 277.49      | 0.48                     | -0.48               | -0.32              |
|                  | 9200.00           | 4.12              | 274.66        | 25                 | 9197.28                  | 8.07                  | 8.07 N      | 62.19 W  | 62.71         | 277.39      | 1.00                     | -0.96               | 3.88               |
|                  | 9225.00           | 4.01              | 277.52        | 25                 | 9222.21                  | 8.26                  | 8.26 N      | 63.95 W  | 64.48         | 277.36      | 0.92                     | -0.44               | 11.44              |
|                  | 9250.00           | 3.67              | 275.14        | 25                 | 9247.16                  | 8.44                  | 8.44 N      | 65.61 W  | 66.16         | 277.33      | 1.50                     | -1.36               | -9.52              |
|                  | 9275.00           | 3.38              | 277.57        | 25                 | 9272.11                  | 8.61                  | 8.61 N      | 67.14 W  | 67.69         | 277.31      | 1.30                     | -1.16               | 9.72               |
|                  | 9300.00           | 3.11              | 276.04        | 25                 | 9297.07                  | 8.78                  | 8.78 N      | 68.55 W  | 69.11         | 277.30      | 1.13                     | -1.08               | -6.12              |
|                  | 9325.00           | 2.74              | 275.86        | 25                 | 9322.04                  | 8.91                  | 8.91 N      | 69.82 W  | 70.38         | 277.28      | 1.48                     | -1.48               | -0.72              |
|                  | 9350.00           | 2.69              | 278.97        | 25                 | 9347.01                  | 9.07                  | 9.07 N      | 70.99 W  | 71.57         | 277.28      | 0.62                     | -0.20               | 12.44              |
|                  | 9375.00           | 2.72              | 281.88        | 25                 | 9371.98                  | 9.28                  | 9.28 N      | 72.15 W  | 72.74         | 277.33      | 0.56                     | 0.12                | 11.64              |
|                  | 9400.00           | 2.80              | 286.75        | 25                 | 9396.95                  | 9.58                  | 9.58 N      | 73.31 W  | 73.94         | 277.44      | 0.99                     | 0.32                | 19.48              |
|                  | 9425.00           | 2.88              | 297.23        | 25                 | 9421.92                  | 10.04                 | 10.04 N     | 74.46 W  | 75.13         | 277.68      | 2.10                     | 0.32                | 41.92              |
|                  | 9450.00           | 3.09              | 299.35        | 25                 | 9446.89                  | 10.66                 | 10.66 N     | 75.60 W  | 76.35         | 278.02      | 0.95                     | 0.84                | 8.48               |
|                  | 9475.00           | 3.57              | 300.54        | 25                 | 9471.84                  | 11.38                 | 11.38 N     | 76.86 W  | 77.70         | 278.42      | 1.94                     | 1.92                | 4.76               |
|                  | 9500.00           | 3.87              | 300.59        | 25                 | 9496.79                  | 12.21                 | 12.21 N     | 78.26 W  | 79.20         | 278.87      | 1.20                     | 1.20                | 0.20               |
|                  | 9525.00           | 4.29              | 301.83        | 25                 | 9521.73                  | 13.13                 | 13.13 N     | 79.78 W  | 80.85         | 279.35      | 1.72                     | 1.68                | 4.96               |
|                  | 9550.00           | 4.66              | 304.68        | 25                 | 9546.65                  | 14.20                 | 14.20 N     | 81.41 W  | 82.64         | 279.90      | 1.73                     | 1.48                | 11.40              |
|                  | 9575.00           | 5.04              | 304.75        | 25                 | 9571.56                  | 15.41                 | 15.41 N     | 83.15 W  | 84.56         | 280.50      | 1.52                     | 1.52                | 0.28               |
|                  | 9600.00           | 5.39              | 304.43        | 25                 | 9596.46                  | 16.70                 | 16.70 N     | 85.02 W  | 86.64         | 281.11      | 1.40                     | 1.40                | -1.28              |
|                  | 9625.00           | 5.83              | 304.01        | 25                 | 9621.34                  | 18.07                 | 18.07 N     | 87.04 W  | 88.89         | 281.73      | 1.77                     | 1.76                | -1.68              |
|                  | 9650.00           | 6.17              | 304.61        | 25                 | 9646.20                  | 19.54                 | 19.54 N     | 89.20 W  | 91.31         | 282.36      | 1.38                     | 1.36                | 2.40               |
|                  | 9675.00           | 6.23              | 304.70        | 25                 | 9671.06                  | 21.08                 | 21.08 N     | 91.42 W  | 93.82         | 282.98      | 0.24                     | 0.24                | 0.36               |
|                  | 9700.00           | 6.34              | 304.77        | 25                 | 9695.91                  | 22.64                 | 22.64 N     | 93.67 W  | 96.36         | 283.59      | 0.44                     | 0.44                | 0.28               |
|                  | 9725.00           | 6.40              | 304.41        | 25                 | 9720.75                  | 24.21                 | 24.21 N     | 95.95 W  | 98.96         | 284.16      | 0.29                     | 0.24                | -1.44              |
|                  | 9750.00           | 6.53              | 302.28        | 25                 | 9745.59                  | 25.76                 | 25.76 N     | 98.30 W  | 101.62        | 284.68      | 1.09                     | 0.52                | -8.52              |



Company: Legacy  
 Well: Hamon A Fed Com 2H  
 Location: Lea Co., NM  
 Rig: Pulling Unit

Job Number: 61454  
 Grid Corr.: -0.39  
 Lat: 32.57  
 Long: -103.60

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 Tie Into: Surface

| Survey<br>Tool<br>Type | Survey<br>Depth<br>(ft) | Inclina-<br>tion<br>(deg) | Azimuth<br>(deg) | Course<br>Length<br>(ft) | True Vertical<br>Depth<br>(ft) | Vertical<br>Section<br>(ft) | Coordinates |             | Closure          |                | Dogleg<br>Severity<br>(d/100') | Build<br>Rate<br>(d/100') | Walk<br>Rate<br>(d/100') |
|------------------------|-------------------------|---------------------------|------------------|--------------------------|--------------------------------|-----------------------------|-------------|-------------|------------------|----------------|--------------------------------|---------------------------|--------------------------|
|                        |                         |                           |                  |                          |                                |                             | N/S<br>(ft) | E/W<br>(ft) | Distance<br>(ft) | Angle<br>(deg) |                                |                           |                          |
|                        | 9775.00                 | 6.77                      | 297.82           | 25                       | 9770.42                        | 27.21                       | 27.21 N     | 100.81 W    | 104.41           | 285.10         | 2.28                           | 0.96                      | -17.84                   |
|                        | 9800.00                 | 6.94                      | 297.08           | 25                       | 9795.25                        | 28.58                       | 28.58 N     | 103.45 W    | 107.33           | 285.44         | 0.77                           | 0.68                      | -2.96                    |
|                        | 9825.00                 | 7.04                      | 296.22           | 25                       | 9820.06                        | 29.95                       | 29.95 N     | 106.17 W    | 110.31           | 285.75         | 0.58                           | 0.40                      | -3.44                    |
|                        | 9850.00                 | 7.14                      | 293.13           | 25                       | 9844.87                        | 31.23                       | 31.23 N     | 108.98 W    | 113.36           | 285.99         | 1.58                           | 0.40                      | -12.36                   |
|                        | 9875.00                 | 6.85                      | 287.74           | 25                       | 9869.68                        | 32.30                       | 32.30 N     | 111.82 W    | 116.40           | 286.11         | 2.87                           | -1.16                     | -21.56                   |
|                        | 9900.00                 | 6.71                      | 283.84           | 25                       | 9894.51                        | 33.10                       | 33.10 N     | 114.66 W    | 119.35           | 286.10         | 1.92                           | -0.56                     | -15.60                   |
|                        | 9925.00                 | 6.64                      | 280.82           | 25                       | 9919.34                        | 33.72                       | 33.72 N     | 117.50 W    | 122.24           | 286.01         | 1.43                           | -0.28                     | -12.08                   |
|                        | 9950.00                 | 6.67                      | 278.89           | 25                       | 9944.17                        | 34.22                       | 34.22 N     | 120.35 W    | 125.12           | 285.87         | 0.90                           | 0.12                      | -7.72                    |
|                        | 9975.00                 | 6.70                      | 277.07           | 25                       | 9969.00                        | 34.62                       | 34.62 N     | 123.24 W    | 128.01           | 285.69         | 0.86                           | 0.12                      | -7.28                    |
|                        | 10000.00                | 6.44                      | 276.03           | 25                       | 9993.84                        | 34.95                       | 34.95 N     | 126.08 W    | 130.83           | 285.49         | 1.14                           | -1.04                     | -4.16                    |
|                        | 10025.00                | 6.15                      | 275.15           | 25                       | 10018.69                       | 35.22                       | 35.22 N     | 128.81 W    | 133.53           | 285.29         | 1.22                           | -1.16                     | -3.52                    |
|                        | 10050.00                | 5.45                      | 273.26           | 25                       | 10043.56                       | 35.40                       | 35.40 N     | 131.33 W    | 136.01           | 285.09         | 2.90                           | -2.80                     | -7.56                    |
|                        | 10062.00                | 5.32                      | 272.26           | 12                       | 10055.50                       | 35.46                       | 35.46 N     | 132.45 W    | 137.11           | 284.99         | 1.34                           | -1.08                     | -8.33                    |