



Company: Marshall & Winston Inc.  
 Well: Looking Good 34 State Com # 1H  
 Location: Lea Co., New Mexico  
 Rig: McVay 4

Job Number:  
 Grid Corr.: -0.47  
 Lat: 32.54  
 Long: -103.45

Date: 01-31-16  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth:  
 RKB - MSL in feet: 18.5 Feet  
 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) |                          |                     |                    |
| Enter Tie-In Survey on Line 10 |                   |                   |               |                    |                          | FIELD COPY, NON-DEFINITIVE |             |          |               |             |                          |                     |                    |
| TIE IN                         | 0                 |                   |               | 0                  | 0                        | 0                          | 0           | 0        |               |             |                          |                     |                    |
| Gyro                           | 100.00            | 0.49              | 29.54         | 100                | 100.00                   | 0.37                       | 0.37 N      | 0.21 E   | 0.43          | 29.54       | 0.49                     | 0.49                | 29.54              |
|                                | 200.00            | 0.20              | 291.01        | 100                | 200.00                   | 0.81                       | 0.81 N      | 0.26 E   | 0.85          | 17.78       | 0.56                     | -0.29               | 261.47             |
|                                | 300.00            | 0.51              | 128.58        | 100                | 300.00                   | 0.59                       | 0.59 N      | 0.44 E   | 0.74          | 36.87       | 0.70                     | 0.31                | -162.43            |
|                                | 400.00            | 0.23              | 38.54         | 100                | 399.99                   | 0.47                       | 0.47 N      | 0.92 E   | 1.03          | 62.80       | 0.56                     | -0.28               | -90.04             |
|                                | 500.00            | 0.05              | 148.73        | 100                | 499.99                   | 0.59                       | 0.59 N      | 1.06 E   | 1.22          | 60.97       | 0.25                     | -0.18               | 110.19             |
|                                | 600.00            | 0.39              | 221.15        | 100                | 599.99                   | 0.30                       | 0.30 N      | 0.86 E   | 0.91          | 71.00       | 0.38                     | 0.34                | 72.42              |
|                                | 700.00            | 0.90              | 244.93        | 100                | 699.99                   | -0.29                      | 0.29 S      | 0.07 W   | 0.30          | 193.91      | 0.57                     | 0.51                | 23.78              |
|                                | 800.00            | 0.99              | 268.19        | 100                | 799.97                   | -0.65                      | 0.65 S      | 1.65 W   | 1.77          | 248.41      | 0.39                     | 0.09                | 23.26              |
|                                | 900.00            | 0.87              | 309.23        | 100                | 899.96                   | -0.20                      | 0.20 S      | 3.10 W   | 3.11          | 266.32      | 0.66                     | -0.12               | 41.04              |
|                                | 1000.00           | 0.94              | 72.00         | 100                | 999.96                   | 0.53                       | 0.53 N      | 2.91 W   | 2.96          | 280.42      | 1.59                     | 0.07                | -237.23            |
|                                | 1100.00           | 1.24              | 64.72         | 100                | 1099.94                  | 1.25                       | 1.25 N      | 1.15 W   | 1.70          | 317.44      | 0.33                     | 0.30                | -7.28              |
|                                | 1200.00           | 1.53              | 75.32         | 100                | 1199.91                  | 2.05                       | 2.05 N      | 1.12 E   | 2.34          | 28.68       | 0.39                     | 0.29                | 10.60              |
|                                | 1300.00           | 1.23              | 84.34         | 100                | 1299.88                  | 2.49                       | 2.49 N      | 3.48 E   | 4.28          | 54.37       | 0.37                     | -0.30               | 9.02               |
|                                | 1400.00           | 0.98              | 98.61         | 100                | 1399.86                  | 2.47                       | 2.47 N      | 5.39 E   | 5.93          | 65.38       | 0.37                     | -0.25               | 14.27              |
|                                | 1500.00           | 0.81              | 120.33        | 100                | 1499.85                  | 1.99                       | 1.99 N      | 6.85 E   | 7.13          | 73.82       | 0.38                     | -0.17               | 21.72              |
|                                | 1600.00           | 0.88              | 119.76        | 100                | 1599.84                  | 1.25                       | 1.25 N      | 8.13 E   | 8.22          | 81.26       | 0.07                     | 0.07                | -0.57              |
|                                | 1700.00           | 0.70              | 114.82        | 100                | 1699.83                  | 0.61                       | 0.61 N      | 9.35 E   | 9.37          | 86.25       | 0.19                     | -0.18               | -4.94              |
|                                | 1800.00           | 0.54              | 180.37        | 100                | 1799.82                  | -0.12                      | 0.12 S      | 9.90 E   | 9.90          | 90.67       | 0.68                     | -0.16               | 65.55              |
|                                | 1895.00           | 0.59              | 177.13        | 95                 | 1894.82                  | -1.05                      | 1.05 S      | 9.92 E   | 9.98          | 96.05       | 0.06                     | 0.05                | -3.41              |



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 Lat: 32.54  
 Long: -103.45

Calculation Method: Minimum Curvature  
 Proposed Azimuth: \_\_\_\_\_  
 RKB - MSL in feet: 18.5 Feet  
 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) |                                |                           |                          |
|                        | 4700.00                 | 0.35                      | 254.08           | 100                      | 4694.63                        | 8.89                        | 8.89 N      | 13.65 E     | 16.29            | 56.91          | 0.30                           | -0.29                     | -6.75                    |
|                        | 4800.00                 | 0.57                      | 320.15           | 100                      | 4794.63                        | 9.19                        | 9.19 N      | 13.03 E     | 15.95            | 54.81          | 0.53                           | 0.22                      | 66.07                    |
|                        | 4900.00                 | 0.82                      | 342.54           | 100                      | 4894.62                        | 10.26                       | 10.26 N     | 12.50 E     | 16.17            | 50.63          | 0.36                           | 0.25                      | 22.39                    |
|                        | 5000.00                 | 0.96                      | 310.07           | 100                      | 4994.61                        | 11.48                       | 11.48 N     | 11.64 E     | 16.35            | 45.41          | 0.52                           | 0.14                      | -32.47                   |
|                        | 5100.00                 | 1.05                      | 291.58           | 100                      | 5094.60                        | 12.35                       | 12.35 N     | 10.15 E     | 15.99            | 39.41          | 0.33                           | 0.09                      | -18.49                   |
|                        | 5200.00                 | 1.31                      | 291.38           | 100                      | 5194.58                        | 13.11                       | 13.11 N     | 8.24 E      | 15.48            | 32.14          | 0.26                           | 0.26                      | -0.20                    |
|                        | 5300.00                 | 0.90                      | 294.62           | 100                      | 5294.56                        | 13.85                       | 13.85 N     | 6.46 E      | 15.28            | 24.99          | 0.41                           | -0.41                     | 3.24                     |
|                        | 5400.00                 | 1.31                      | 279.51           | 100                      | 5394.54                        | 14.37                       | 14.37 N     | 4.62 E      | 15.09            | 17.81          | 0.50                           | 0.41                      | -15.11                   |
|                        | 5500.00                 | 1.62                      | 271.23           | 100                      | 5494.51                        | 14.59                       | 14.59 N     | 2.07 E      | 14.73            | 8.10           | 0.37                           | 0.31                      | -8.28                    |
|                        | 5600.00                 | 1.49                      | 283.65           | 100                      | 5594.47                        | 14.92                       | 14.92 N     | 0.60 W      | 14.94            | 357.69         | 0.36                           | -0.13                     | 12.42                    |
|                        | 5700.00                 | 1.52                      | 291.37           | 100                      | 5694.43                        | 15.71                       | 15.71 N     | 3.10 W      | 16.02            | 348.84         | 0.20                           | 0.03                      | 7.72                     |
|                        | 5800.00                 | 1.30                      | 288.55           | 100                      | 5794.40                        | 16.56                       | 16.56 N     | 5.41 W      | 17.42            | 341.90         | 0.23                           | -0.22                     | -2.82                    |
|                        | 5900.00                 | 1.25                      | 282.25           | 100                      | 5894.38                        | 17.15                       | 17.15 N     | 7.55 W      | 18.74            | 336.23         | 0.15                           | -0.05                     | -6.30                    |
|                        | 6015.00                 | 1.02                      | 286.81           | 115                      | 6009.36                        | 17.71                       | 17.71 N     | 9.76 W      | 20.22            | 331.15         | 0.21                           | -0.20                     | 3.97                     |



# Directional Survey Report

Company Name: Marshall & Winston Inc.

Well Name: Lookin Good 34 State Com #1H

Rig ID: McVay #4

API/UWI: 30-025-41076

Start Date: 2/1/16

End Date: 3/4/16

Survey Company: Aim Directional

Job Number: WT-16-011

Location: Lea County, NM

State/Prov: New Mexico

County: Lea County

Field: New Mexico East 3001

Latitude: 32 5358476

Longitude: -103 4510922

KB: 3717.00

North Reference: Grid

Proposed Azimuth: 179.49

Declination: 6.59

| Svy   | Depth     | Inc   | Azm    | TVD       | NS        | EW     | VS       | DLS   |
|-------|-----------|-------|--------|-----------|-----------|--------|----------|-------|
| Tiein | 6,015.00  | 1.02  | 286.81 | 6,014.36  | 17.68     | -9.76  | -17.77   | 0.00  |
| 1     | 6,124.00  | 1.30  | 268.90 | 6,123.34  | 17.94     | -11.92 | -18.04   | 0.42  |
| 2     | 6,312.00  | 1.20  | 186.30 | 6,311.31  | 15.94     | -14.27 | -16.07   | 0.88  |
| 3     | 6,500.00  | 1.10  | 168.00 | 6,499.27  | 12.22     | -14.11 | -12.34   | 0.20  |
| 4     | 6,688.00  | 0.90  | 28.20  | 6,687.26  | 11.75     | -13.04 | -11.87   | 1.00  |
| 5     | 6,876.00  | 1.40  | 164.60 | 6,875.24  | 10.84     | -11.73 | -10.94   | 1.14  |
| 6     | 7,064.00  | 0.90  | 107.40 | 7,063.21  | 8.18      | -9.71  | -8.27    | 0.63  |
| 7     | 7,252.00  | 0.80  | 121.70 | 7,251.19  | 7.05      | -7.19  | -7.12    | 0.12  |
| 8     | 7,441.00  | 0.60  | 132.80 | 7,440.17  | 5.69      | -5.34  | -5.73    | 0.13  |
| 9     | 7,629.00  | 0.70  | 153.00 | 7,628.16  | 4.00      | -4.10  | -4.03    | 0.13  |
| 10    | 7,817.00  | 1.10  | 148.40 | 7,816.14  | 1.44      | -2.63  | -1.46    | 0.22  |
| 11    | 8,005.00  | 0.80  | 131.30 | 8,004.11  | -0.97     | -0.70  | 0.96     | 0.22  |
| 12    | 8,194.00  | 0.70  | 142.10 | 8,193.09  | -2.75     | 1.00   | 2.76     | 0.09  |
| 13    | 8,383.00  | 0.30  | 12.80  | 8,382.09  | -3.18     | 1.82   | 3.19     | 0.49  |
| 14    | 8,569.00  | 0.10  | 307.50 | 8,568.09  | -2.60     | 1.80   | 2.62     | 0.15  |
| 15    | 8,757.00  | 1.30  | 270.60 | 8,756.07  | -2.48     | -0.46  | 2.48     | 0.65  |
| 16    | 8,946.00  | 0.40  | 279.20 | 8,945.05  | -2.35     | -3.26  | 2.33     | 0.48  |
| 17    | 9,135.00  | 1.10  | 238.70 | 9,134.03  | -3.19     | -5.46  | 3.14     | 0.44  |
| 18    | 9,324.00  | 1.10  | 340.10 | 9,323.01  | -2.43     | -7.63  | 2.36     | 0.90  |
| 19    | 9,512.00  | 0.80  | 271.00 | 9,510.99  | -0.71     | -9.55  | 0.62     | 0.59  |
| 20    | 9,701.00  | 1.60  | 90.30  | 9,699.97  | -0.70     | -8.23  | 0.63     | 1.27  |
| 21    | 9,889.00  | 1.50  | 68.10  | 9,887.91  | 0.20      | -3.33  | -0.23    | 0.32  |
| 22    | 10,052.00 | 0.90  | 206.20 | 10,050.89 | -0.15     | -1.91  | 0.13     | 1.38  |
| 23    | 10,083.00 | 4.00  | 196.40 | 10,081.66 | -1.40     | -2.32  | 1.38     | 10.05 |
| 24    | 10,115.00 | 7.60  | 193.40 | 10,113.69 | -4.53     | -3.13  | 4.51     | 11.29 |
| 25    | 10,146.00 | 11.50 | 190.50 | 10,144.25 | -9.57     | -4.17  | 9.53     | 12.67 |
| 26    | 10,177.00 | 15.60 | 188.30 | 10,174.38 | -16.73    | -5.33  | 16.69    | 13.33 |
| 27    | 10,206.00 | 19.00 | 188.90 | 10,202.07 | -25.26    | -6.63  | 25.20    | 11.74 |
| 28    | 10,238.00 | 23.10 | 187.80 | 10,231.93 | -36.63    | -8.29  | 36.56    | 12.87 |
| 29    | 10,270.00 | 25.90 | 186.80 | 10,261.04 | -49.79    | -9.97  | 49.70    | 8.85  |
| 30    | 10,301.00 | 27.80 | 184.00 | 10,288.70 | -63.73    | -11.27 | 63.63    | 7.36  |
| 31    | 10,332.00 | 30.00 | 184.60 | 10,315.84 | -78.67    | -12.40 | 78.55    | 7.16  |
| 32    | 10,395.00 | 35.60 | 182.00 | 10,368.77 | -112.72   | -14.30 | 112.59   | 9.16  |
| 33    | 10,458.00 | 39.60 | 179.80 | 10,418.68 | -151.14   | -14.87 | 151.00   | 6.70  |
| 34    | 10,490.00 | 42.50 | 178.00 | 10,442.81 | -172.15   | -14.46 | 172.01   | 9.79  |
| 35    | 10,521.00 | 45.50 | 177.20 | 10,465.11 | -193.66   | -13.55 | 193.53   | 9.84  |
| 36    | 10,584.00 | 51.50 | 178.10 | 10,506.83 | -240.78   | -11.64 | 240.67   | 9.58  |
| 37    | 10,615.00 | 53.90 | 179.20 | 10,525.62 | -265.43   | -11.06 | 265.33   | 8.24  |
| 38    | 10,710.00 | 63.70 | 179.50 | 10,574.77 | -346.59   | -10.15 | 346.49   | 10.32 |
| 39    | 10,804.00 | 69.80 | 181.60 | 10,611.86 | -432.90   | -11.02 | 432.79   | 6.81  |
| 40    | 10,898.00 | 77.50 | 184.00 | 10,638.31 | -522.92   | -15.46 | 522.76   | 8.55  |
| 41    | 10,992.00 | 83.90 | 183.40 | 10,653.49 | -615.44   | -21.43 | 615.23   | 6.84  |
| 42    | 11,087.00 | 89.40 | 180.30 | 10,659.04 | -710.18   | -24.49 | 709.94   | 6.64  |
| 43    | 11,214.00 | 90.50 | 181.70 | 10,659.15 | -837.16   | -26.70 | 836.89   | 1.40  |
| 44    | 11,306.00 | 88.50 | 180.70 | 10,659.97 | -931.13   | -28.67 | 930.84   | 2.38  |
| 45    | 11,371.00 | 89.00 | 177.30 | 10,661.35 | -994.09   | -27.57 | 993.81   | 5.45  |
| 46    | 11,465.00 | 90.30 | 177.20 | 10,661.92 | -1,087.98 | -23.06 | 1,087.73 | 1.39  |
| 47    | 11,559.00 | 91.00 | 177.40 | 10,660.86 | -1,181.87 | -18.64 | 1,181.66 | 0.77  |
| 48    | 11,653.00 | 88.60 | 178.60 | 10,661.18 | -1,275.80 | -15.36 | 1,275.62 | 2.85  |
| 49    | 11,748.00 | 88.60 | 179.20 | 10,663.51 | -1,370.76 | -13.53 | 1,370.58 | 0.63  |

| Svy | Depth     | Inc   | Azm    | TVD       | NS        | EW     | VS       | DLS  |
|-----|-----------|-------|--------|-----------|-----------|--------|----------|------|
| 50  | 11,842.00 | 89.00 | 179.60 | 10,665.47 | -1,464.73 | -12.55 | 1,464.56 | 0.60 |
| 51  | 11,936.00 | 88.90 | 178.90 | 10,667.20 | -1,558.71 | -11.32 | 1,558.54 | 0.75 |
| 52  | 12,030.00 | 91.40 | 178.20 | 10,666.95 | -1,652.67 | -8.94  | 1,652.52 | 2.76 |
| 53  | 12,125.00 | 90.00 | 178.00 | 10,665.79 | -1,747.61 | -5.79  | 1,747.49 | 1.49 |
| 54  | 12,219.00 | 89.80 | 178.30 | 10,665.95 | -1,841.56 | -2.76  | 1,841.46 | 0.38 |
| 55  | 12,313.00 | 89.80 | 178.00 | 10,666.28 | -1,935.51 | 0.28   | 1,935.43 | 0.32 |
| 56  | 12,407.00 | 90.20 | 177.60 | 10,666.28 | -2,029.44 | 3.89   | 2,029.39 | 0.60 |
| 57  | 12,501.00 | 91.30 | 176.70 | 10,665.05 | -2,123.31 | 8.56   | 2,123.30 | 1.51 |
| 58  | 12,595.00 | 90.20 | 178.40 | 10,663.82 | -2,217.21 | 12.58  | 2,217.24 | 2.15 |
| 59  | 12,690.00 | 90.20 | 177.90 | 10,663.49 | -2,312.16 | 15.65  | 2,312.21 | 0.53 |
| 60  | 12,784.00 | 90.00 | 179.60 | 10,663.33 | -2,406.14 | 17.70  | 2,406.20 | 1.82 |
| 61  | 12,878.00 | 90.50 | 179.60 | 10,662.92 | -2,500.13 | 18.35  | 2,500.20 | 0.53 |
| 62  | 12,972.00 | 89.40 | 179.10 | 10,663.00 | -2,594.12 | 19.42  | 2,594.19 | 1.29 |
| 63  | 13,066.00 | 89.20 | 178.00 | 10,664.15 | -2,688.09 | 21.80  | 2,688.17 | 1.19 |
| 64  | 13,161.00 | 89.30 | 178.20 | 10,665.39 | -2,783.03 | 24.95  | 2,783.14 | 0.24 |
| 65  | 13,255.00 | 88.50 | 179.70 | 10,667.19 | -2,876.99 | 26.67  | 2,877.11 | 1.81 |
| 66  | 13,349.00 | 88.50 | 179.00 | 10,669.65 | -2,970.95 | 27.73  | 2,971.08 | 0.74 |
| 67  | 13,444.00 | 88.80 | 178.80 | 10,671.89 | -3,065.91 | 29.56  | 3,066.05 | 0.38 |
| 68  | 13,538.00 | 89.40 | 178.90 | 10,673.37 | -3,159.88 | 31.44  | 3,160.03 | 0.65 |
| 69  | 13,632.00 | 88.70 | 179.30 | 10,674.93 | -3,253.85 | 32.92  | 3,254.01 | 0.86 |
| 70  | 13,726.00 | 89.10 | 180.30 | 10,676.73 | -3,347.83 | 33.25  | 3,347.99 | 1.15 |
| 71  | 13,821.00 | 91.20 | 180.90 | 10,676.48 | -3,442.82 | 32.25  | 3,442.97 | 2.30 |
| 72  | 13,883.00 | 90.50 | 181.60 | 10,675.56 | -3,504.80 | 30.90  | 3,504.93 | 1.60 |
| 73  | 13,977.00 | 90.60 | 181.10 | 10,674.66 | -3,598.77 | 28.69  | 3,598.88 | 0.54 |
| 74  | 14,072.00 | 91.20 | 181.00 | 10,673.17 | -3,693.74 | 26.95  | 3,693.83 | 0.64 |
| 75  | 14,166.00 | 89.30 | 180.70 | 10,672.76 | -3,787.72 | 25.55  | 3,787.80 | 2.05 |
| 76  | 14,260.00 | 89.80 | 179.60 | 10,673.50 | -3,881.72 | 25.31  | 3,881.79 | 1.29 |
| 77  | 14,355.00 | 90.70 | 180.90 | 10,673.08 | -3,976.71 | 24.89  | 3,976.78 | 1.66 |
| 78  | 14,449.00 | 90.90 | 180.10 | 10,671.77 | -4,070.70 | 24.07  | 4,070.75 | 0.88 |
| 79  | 14,543.00 | 90.60 | 178.10 | 10,670.54 | -4,164.67 | 25.55  | 4,164.74 | 2.15 |
| 80  | 14,637.00 | 90.80 | 178.30 | 10,669.39 | -4,258.62 | 28.50  | 4,258.71 | 0.30 |
| 81  | 14,731.00 | 91.30 | 177.70 | 10,667.67 | -4,352.55 | 31.78  | 4,352.66 | 0.83 |
| 82  | 14,826.00 | 91.00 | 176.70 | 10,665.76 | -4,447.41 | 36.42  | 4,447.56 | 1.10 |
| PTB | 15,002.00 | 91.00 | 176.70 | 10,662.69 | -4,623.09 | 46.55  | 4,623.33 | 0.00 |



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 Well: Looking Good 34 State Com # 1H  
 Location: Lea Co., New Mexico  
 Rig: McVay 4

Job Number: \_\_\_\_\_  
 Grid Corr.: -0.47  
 Lat: 32.54  
 Long: -103.45

Date: 02-07-16  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth: \_\_\_\_\_  
 RKB - MSL in feet: 18.5 Feet  
 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                                | 1900.00           | 0.59              | 177.13        | 100                | 1894.82                           | -1.05                 | 1.05 S      | 9.92 E   | 9.98          | 96.05       | 0.06                     | 0.05                | -3.41              |
| Gyro                                  | 2000.00           | 0.31              | 209.14        | 100                | 1994.82                           | -1.80                 | 1.80 S      | 9.81 E   | 9.98          | 100.40      | 0.37                     | -0.28               | 32.01              |
|                                       | 2100.00           | 0.46              | 251.85        | 100                | 2094.81                           | -2.16                 | 2.16 S      | 9.30 E   | 9.55          | 103.09      | 0.31                     | 0.15                | 42.71              |
|                                       | 2200.00           | 0.24              | 358.68        | 100                | 2194.81                           | -2.08                 | 2.08 S      | 8.91 E   | 9.15          | 103.12      | 0.58                     | -0.22               | 106.83             |
|                                       | 2300.00           | 0.38              | 278.62        | 100                | 2294.81                           | -1.82                 | 1.82 S      | 8.58 E   | 8.77          | 101.96      | 0.41                     | 0.14                | -80.06             |
|                                       | 2400.00           | 0.36              | 86.25         | 100                | 2394.81                           | -1.75                 | 1.75 S      | 8.57 E   | 8.74          | 101.53      | 0.74                     | -0.02               | -192.37            |
|                                       | 2500.00           | 0.35              | 92.25         | 100                | 2494.81                           | -1.74                 | 1.74 S      | 9.19 E   | 9.35          | 100.72      | 0.04                     | -0.01               | 6.00               |
|                                       | 2600.00           | 0.32              | 96.97         | 100                | 2594.81                           | -1.79                 | 1.79 S      | 9.77 E   | 9.93          | 100.36      | 0.04                     | -0.03               | 4.72               |
|                                       | 2700.00           | 0.25              | 87.84         | 100                | 2694.81                           | -1.81                 | 1.81 S      | 10.26 E  | 10.42         | 100.01      | 0.08                     | -0.07               | -9.13              |
|                                       | 2800.00           | 0.54              | 137.76        | 100                | 2794.80                           | -2.15                 | 2.15 S      | 10.80 E  | 11.01         | 101.27      | 0.42                     | 0.29                | 49.92              |
|                                       | 2900.00           | 0.41              | 98.20         | 100                | 2894.80                           | -2.55                 | 2.55 S      | 11.47 E  | 11.75         | 102.54      | 0.34                     | -0.13               | -39.56             |
|                                       | 3000.00           | 0.32              | 33.02         | 100                | 2994.80                           | -2.37                 | 2.37 S      | 11.98 E  | 12.21         | 101.19      | 0.40                     | -0.09               | -65.18             |
|                                       | 3100.00           | 0.67              | 352.82        | 100                | 3094.80                           | -1.55                 | 1.55 S      | 12.05 E  | 12.15         | 97.35       | 0.47                     | 0.35                | 319.80             |
|                                       | 3200.00           | 0.99              | 9.95          | 100                | 3194.79                           | -0.12                 | 0.12 S      | 12.13 E  | 12.13         | 90.58       | 0.40                     | 0.32                | -342.87            |
|                                       | 3300.00           | 1.71              | 48.37         | 100                | 3294.76                           | 1.72                  | 1.72 N      | 13.40 E  | 13.51         | 82.69       | 1.12                     | 0.72                | 38.42              |
|                                       | 3400.00           | 1.58              | 41.13         | 100                | 3394.72                           | 3.75                  | 3.75 N      | 15.42 E  | 15.87         | 76.34       | 0.24                     | -0.13               | -7.24              |
|                                       | 3500.00           | 0.76              | 11.85         | 100                | 3494.70                           | 5.44                  | 5.44 N      | 16.46 E  | 17.34         | 71.72       | 0.99                     | -0.82               | -29.28             |
|                                       | 3600.00           | 0.99              | 342.58        | 100                | 3594.69                           | 6.91                  | 6.91 N      | 16.34 E  | 17.74         | 67.08       | 0.49                     | 0.23                | 330.73             |
|                                       | 3700.00           | 1.01              | 323.02        | 100                | 3694.67                           | 8.44                  | 8.44 N      | 15.55 E  | 17.69         | 61.51       | 0.34                     | 0.02                | -19.56             |
|                                       | 3800.00           | 0.66              | 338.04        | 100                | 3794.66                           | 9.68                  | 9.68 N      | 14.80 E  | 17.69         | 56.83       | 0.41                     | -0.35               | 15.02              |
|                                       | 3900.00           | 0.71              | 26.91         | 100                | 3894.65                           | 10.76                 | 10.76 N     | 14.87 E  | 18.36         | 54.10       | 0.57                     | 0.05                | -311.13            |
|                                       | 4000.00           | 0.28              | 257.08        | 100                | 3994.65                           | 11.26                 | 11.26 N     | 14.91 E  | 18.69         | 52.94       | 0.91                     | -0.43               | 230.17             |
|                                       | 4100.00           | 0.38              | 153.43        | 100                | 4094.65                           | 10.91                 | 10.91 N     | 14.82 E  | 18.40         | 53.65       | 0.52                     | 0.10                | -103.65            |
|                                       | 4200.00           | 0.64              | 146.10        | 100                | 4194.65                           | 10.15                 | 10.15 N     | 15.28 E  | 18.34         | 56.41       | 0.27                     | 0.26                | -7.33              |
|                                       | 4300.00           | 0.39              | 178.15        | 100                | 4294.64                           | 9.35                  | 9.35 N      | 15.60 E  | 18.19         | 59.08       | 0.37                     | -0.25               | 32.05              |
|                                       | 4400.00           | 0.18              | 13.42         | 100                | 4394.64                           | 9.16                  | 9.16 N      | 15.65 E  | 18.13         | 59.67       | 0.57                     | -0.21               | -164.73            |
|                                       | 4500.00           | 0.38              | 256.43        | 100                | 4494.64                           | 9.23                  | 9.23 N      | 15.37 E  | 17.93         | 59.00       | 0.49                     | 0.20                | 243.01             |
|                                       | 4600.00           | 0.64              | 260.83        | 100                | 4594.64                           | 9.07                  | 9.07 N      | 14.49 E  | 17.09         | 57.97       | 0.26                     | 0.26                | 4.40               |