

**A Gyrodata Directional Survey**

Field Copy Only, not definitive

for

**PARALLEL PETROLEUM**

Location: JW #4, CHAVES COUNTY, NEW MEXICO

Lease: ASSAULT Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0906G\_275

Run Date: 9/21/2006

Surveyor: AJ EATON

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 33.080400 deg. N Longitude: 104.332900 deg. W

Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

**S**

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## PARALLEL PETROLEUM

Location: JW #4, CHAVES COUNTY, NEW MEXICO

Lease: ASSUALT Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0906G\_275

S

| MEASURED<br>DEPTH<br>feet                                                                                                                         | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 0.00                                                                                                                                              | 0.00         | 0.00            | 0.00                                   | 0.00                      | 0.0 0.0                               | 0.00 N 0.00 E                     |
| 0 TO 5385 FT. RATE GYROSCOPIC DROP MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE<br>ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO JW #4 R.K.B. |              |                 |                                        |                           |                                       |                                   |
| 22.00                                                                                                                                             | 0.28         | 274.18          | 1.29                                   | 22.00                     | 0.1 274.2                             | 0.00 N 0.05 W                     |
| 55.00                                                                                                                                             | 0.36         | 236.28          | 0.67                                   | 55.00                     | 0.2 257.9                             | 0.05 S 0.22 W                     |
| 90.00                                                                                                                                             | 0.53         | 216.29          | 0.64                                   | 90.00                     | 0.5 239.8                             | 0.24 S 0.41 W                     |
| 125.00                                                                                                                                            | 0.25         | 172.85          | 1.09                                   | 125.00                    | 0.7 228.0                             | 0.44 S 0.49 W                     |
| 215.00                                                                                                                                            | 0.18         | 146.13          | 0.14                                   | 215.00                    | 0.9 207.3                             | 0.76 S 0.39 W                     |
| 305.00                                                                                                                                            | 0.28         | 188.35          | 0.21                                   | 305.00                    | 1.1 197.6                             | 1.09 S 0.35 W                     |
| 335.00                                                                                                                                            | 0.37         | 178.01          | 0.36                                   | 335.00                    | 1.3 195.7                             | 1.26 S 0.35 W                     |
| 365.00                                                                                                                                            | 0.42         | 190.66          | 0.33                                   | 365.00                    | 1.5 194.2                             | 1.47 S 0.37 W                     |
| 395.00                                                                                                                                            | 0.19         | 206.51          | 0.82                                   | 394.99                    | 1.7 194.3                             | 1.62 S 0.41 W                     |
| 425.00                                                                                                                                            | 0.27         | 256.99          | 0.69                                   | 424.99                    | 1.8 196.7                             | 1.68 S 0.50 W                     |
| 455.00                                                                                                                                            | 0.33         | 260.25          | 0.20                                   | 454.99                    | 1.8 201.0                             | 1.71 S 0.65 W                     |
| 485.00                                                                                                                                            | 0.47         | 267.22          | 0.52                                   | 484.99                    | 1.9 206.5                             | 1.73 S 0.86 W                     |
| 515.00                                                                                                                                            | 0.42         | 247.41          | 0.54                                   | 514.99                    | 2.1 211.5                             | 1.78 S 1.09 W                     |
| 545.00                                                                                                                                            | 0.49         | 281.53          | 0.91                                   | 544.99                    | 2.2 216.2                             | 1.79 S 1.31 W                     |
| 575.00                                                                                                                                            | 0.50         | 286.56          | 0.15                                   | 574.99                    | 2.3 222.1                             | 1.73 S 1.56 W                     |
| 605.00                                                                                                                                            | 0.37         | 286.16          | 0.42                                   | 604.99                    | 2.4 226.9                             | 1.67 S 1.78 W                     |
| 635.00                                                                                                                                            | 0.43         | 257.00          | 0.70                                   | 634.99                    | 2.6 230.0                             | 1.66 S 1.99 W                     |
| 665.00                                                                                                                                            | 0.39         | 262.80          | 0.19                                   | 664.99                    | 2.8 232.2                             | 1.70 S 2.20 W                     |
| 695.00                                                                                                                                            | 0.45         | 276.96          | 0.40                                   | 694.99                    | 3.0 234.9                             | 1.70 S 2.41 W                     |
| 725.00                                                                                                                                            | 0.47         | 280.22          | 0.10                                   | 724.99                    | 3.1 237.9                             | 1.66 S 2.65 W                     |
| 755.00                                                                                                                                            | 0.48         | 283.65          | 0.10                                   | 754.99                    | 3.3 240.9                             | 1.61 S 2.89 W                     |
| 785.08                                                                                                                                            | 0.48         | 283.00          | 0.03                                   | 785.06                    | 3.5 243.7                             | 1.55 S 3.14 W                     |
| 880.62                                                                                                                                            | 1.10         | 285.80          | 0.65                                   | 880.59                    | 4.6 254.6                             | 1.21 S 4.42 W                     |
| 976.16                                                                                                                                            | 1.35         | 279.61          | 0.30                                   | 976.11                    | 6.5 263.1                             | 0.78 S 6.41 W                     |
| 1071.70                                                                                                                                           | 1.35         | 273.54          | 0.15                                   | 1071.63                   | 8.7 266.6                             | 0.52 S 8.65 W                     |
| 1167.24                                                                                                                                           | 1.08         | 290.48          | 0.47                                   | 1167.14                   | 10.6 269.3                            | 0.13 S 10.61 W                    |
| 1262.78                                                                                                                                           | 1.12         | 289.13          | 0.05                                   | 1262.67                   | 12.3 272.3                            | 0.48 N 12.33 W                    |
| 1358.32                                                                                                                                           | 1.35         | 308.10          | 0.49                                   | 1358.19                   | 14.2 276.0                            | 1.48 N 14.10 W                    |
| 1453.86                                                                                                                                           | 1.24         | 316.48          | 0.23                                   | 1453.70                   | 16.0 280.6                            | 2.92 N 15.69 W                    |
| 1549.40                                                                                                                                           | 1.17         | 318.35          | 0.08                                   | 1549.22                   | 17.6 284.5                            | 4.40 N 17.05 W                    |
| 1644.94                                                                                                                                           | 1.08         | 319.59          | 0.09                                   | 1644.74                   | 19.2 287.6                            | 5.82 N 18.28 W                    |
| 1740.48                                                                                                                                           | 0.99         | 316.93          | 0.11                                   | 1740.27                   | 20.7 290.1                            | 7.11 N 19.43 W                    |
| 1836.02                                                                                                                                           | 1.01         | 315.80          | 0.03                                   | 1835.79                   | 22.2 292.0                            | 8.31 N 20.58 W                    |

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Lease: ASSUALT Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0906G\_275

S

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 1931.56                   | 1.04         | 318.77          | 0.06                                   | 1931.32                   | 23.8 293.8                            | 9.57 N 21.74 W                    |
| 2027.10                   | 1.00         | 329.07          | 0.20                                   | 2026.84                   | 25.2 295.7                            | 10.93 N 22.74 W                   |
| 2122.64                   | 1.40         | 324.03          | 0.44                                   | 2122.36                   | 27.0 297.8                            | 12.59 N 23.85 W                   |
| 2218.18                   | 1.15         | 327.39          | 0.27                                   | 2217.88                   | 28.9 299.8                            | 14.35 N 25.05 W                   |
| 2313.72                   | 0.67         | 315.37          | 0.54                                   | 2313.40                   | 30.3 300.9                            | 15.55 N 25.97 W                   |
| 2409.26                   | 0.37         | 321.66          | 0.33                                   | 2408.94                   | 31.1 301.4                            | 16.19 N 26.55 W                   |
| 2504.80                   | 0.33         | 351.12          | 0.19                                   | 2504.48                   | 31.6 302.0                            | 16.71 N 26.78 W                   |
| 2600.34                   | 0.35         | 321.82          | 0.18                                   | 2600.02                   | 32.0 302.5                            | 17.21 N 27.01 W                   |
| 2695.88                   | 0.24         | 291.39          | 0.20                                   | 2695.56                   | 32.5 302.6                            | 17.51 N 27.38 W                   |
| 2791.42                   | 0.30         | 279.31          | 0.08                                   | 2791.09                   | 32.9 302.4                            | 17.63 N 27.81 W                   |
| 2886.96                   | 0.49         | 283.02          | 0.21                                   | 2886.63                   | 33.5 302.0                            | 17.76 N 28.45 W                   |
| 2982.50                   | 0.47         | 272.40          | 0.10                                   | 2982.17                   | 34.3 301.4                            | 17.87 N 29.24 W                   |
| 3078.04                   | 0.34         | 240.41          | 0.27                                   | 3077.71                   | 34.8 300.7                            | 17.74 N 29.88 W                   |
| 3173.58                   | 0.40         | 210.64          | 0.21                                   | 3173.24                   | 34.9 299.8                            | 17.32 N 30.30 W                   |
| 3269.12                   | 0.67         | 193.74          | 0.32                                   | 3268.78                   | 34.8 298.3                            | 16.50 N 30.60 W                   |
| 3364.66                   | 0.80         | 182.97          | 0.20                                   | 3364.31                   | 34.4 296.4                            | 15.29 N 30.77 W                   |
| 3460.20                   | 0.71         | 179.80          | 0.11                                   | 3459.84                   | 33.8 294.5                            | 14.04 N 30.80 W                   |
| 3555.74                   | 0.72         | 167.47          | 0.16                                   | 3555.38                   | 33.3 292.8                            | 12.86 N 30.67 W                   |
| 3651.28                   | 0.77         | 167.60          | 0.05                                   | 3650.91                   | 32.6 291.0                            | 11.65 N 30.40 W                   |
| 3746.82                   | 0.85         | 166.92          | 0.08                                   | 3746.44                   | 31.8 289.0                            | 10.34 N 30.10 W                   |
| 3842.36                   | 0.97         | 160.65          | 0.16                                   | 3841.97                   | 31.0 286.7                            | 8.89 N 29.68 W                    |
| 3937.90                   | 1.01         | 148.23          | 0.23                                   | 3937.49                   | 29.9 284.4                            | 7.41 N 28.96 W                    |
| 4033.44                   | 1.00         | 137.73          | 0.19                                   | 4033.02                   | 28.6 282.3                            | 6.08 N 27.96 W                    |
| 4128.98                   | 0.92         | 135.05          | 0.10                                   | 4128.55                   | 27.3 280.4                            | 4.92 N 26.86 W                    |
| 4224.52                   | 1.20         | 121.36          | 0.40                                   | 4224.07                   | 25.8 278.6                            | 3.85 N 25.46 W                    |
| 4320.06                   | 1.49         | 120.64          | 0.30                                   | 4319.58                   | 23.7 276.5                            | 2.70 N 23.54 W                    |
| 4415.60                   | 1.63         | 127.39          | 0.24                                   | 4415.09                   | 21.4 273.3                            | 1.24 N 21.39 W                    |
| 4511.14                   | 1.68         | 124.91          | 0.10                                   | 4510.59                   | 19.2 268.9                            | 0.38 S 19.16 W                    |
| 4606.68                   | 1.82         | 123.05          | 0.16                                   | 4606.08                   | 16.9 263.1                            | 2.02 S 16.74 W                    |
| 4702.22                   | 1.79         | 125.35          | 0.08                                   | 4701.58                   | 14.7 255.4                            | 3.71 S 14.24 W                    |
| 4797.76                   | 1.70         | 121.61          | 0.15                                   | 4797.07                   | 13.0 245.8                            | 5.32 S 11.81 W                    |
| 4893.30                   | 1.61         | 120.61          | 0.10                                   | 4892.57                   | 11.6 234.5                            | 6.75 S 9.45 W                     |
| 4988.84                   | 1.50         | 120.70          | 0.12                                   | 4988.08                   | 10.8 221.8                            | 8.07 S 7.22 W                     |
| 5084.38                   | 1.42         | 123.46          | 0.11                                   | 5083.58                   | 10.7 208.9                            | 9.36 S 5.16 W                     |
| 5179.92                   | 1.36         | 123.99          | 0.06                                   | 5179.10                   | 11.1 196.9                            | 10.65 S 3.23 W                    |
| 5275.46                   | 1.42         | 127.14          | 0.10                                   | 5274.61                   | 12.1 186.4                            | 11.99 S 1.35 W                    |
| 5371.00                   | 1.44         | 130.20          | 0.08                                   | 5370.12                   | 13.5 177.8                            | 13.48 S 0.51 E                    |

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Lease: ASSUALT Well: #1, 4-1/2" DRILLPIPE

Job Number: MD0906G\_275

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 5385.00                   | 1.49         | 127.72          | 0.55                                   | 5384.11                   | 13.7 176.7                            | 13.71 S 0.79 E                    |

Final Station Closure: Distance: 13.73 ft Az: 176.69 deg.

Company **Parallel Petroleum**

Well **Assault # 1**

Field **Chaves Co, NM**

Rig **JW # 4**

Anadrill D.D. **Nathan Moore/ David Dobbs/Tommy Moore**

Mag. Decl. **8.5**

Target Inc. **89.00**

Target TVD **51**

Target Az. **180**

Tgt. Coord.

| Date   | No. | DEPTH | INC.  | AZM    | C.L. | T.V.D.  | V.S.    | N/S       | EW      | DLS   | B/D.  | Walk   |
|--------|-----|-------|-------|--------|------|---------|---------|-----------|---------|-------|-------|--------|
| Tie-In | 1   | 4702  | 1.79  | 125.35 |      | 4701.58 | 3.74    | 3.74 S    | 14.74 W |       |       |        |
| MWD    | 2   | 4720  | 1.55  | 135.11 | 18   | 4719.57 | 4.08    | 4.08 S    | 14.34 W | 2.06  | -1.33 | 54.22  |
| MWD    | 3   | 4752  | 2.02  | 173.19 | 32   | 4751.56 | 4.94    | 4.94 S    | 13.97 W | 3.89  | 1.47  | 119.00 |
| MWD    | 4   | 4784  | 4.57  | 202.76 | 32   | 4783.50 | 6.68    | 6.68 S    | 14.39 W | 9.33  | 7.97  | 92.41  |
| MWD    | 5   | 4816  | 8.30  | 213.38 | 32   | 4815.30 | 9.78    | 9.78 S    | 16.16 W | 12.19 | 11.66 | 33.19  |
| MWD    | 6   | 4848  | 12.73 | 216.05 | 32   | 4846.75 | 14.56   | 14.56 S   | 19.50 W | 13.92 | 13.84 | 8.34   |
| MWD    | 7   | 4880  | 17.15 | 213.00 | 32   | 4877.66 | 21.38   | 21.38 S   | 24.15 W | 14.02 | 13.81 | -9.53  |
| MWD    | 8   | 4912  | 21.58 | 207.58 | 32   | 4907.85 | 30.55   | 30.55 S   | 29.44 W | 14.93 | 13.84 | -16.94 |
| MWD    | 9   | 4944  | 26.54 | 203.58 | 32   | 4937.06 | 42.33   | 42.33 S   | 35.03 W | 16.31 | 15.50 | -12.50 |
| MWD    | 10  | 4976  | 31.47 | 200.63 | 32   | 4965.04 | 56.71   | 56.71 S   | 40.84 W | 16.04 | 15.41 | -9.22  |
| MWD    | 11  | 5008  | 35.93 | 196.90 | 32   | 4991.66 | 73.52   | 73.52 S   | 46.51 W | 15.36 | 13.94 | -11.66 |
| MWD    | 12  | 5040  | 39.86 | 193.72 | 32   | 5016.91 | 92.47   | 92.47 S   | 51.67 W | 13.71 | 12.28 | -9.94  |
| MWD    | 13  | 5072  | 43.46 | 190.98 | 32   | 5040.81 | 113.25  | 113.25 S  | 56.20 W | 12.61 | 11.25 | -8.56  |
| MWD    | 14  | 5104  | 47.67 | 187.92 | 32   | 5063.22 | 135.78  | 135.78 S  | 59.93 W | 14.82 | 13.16 | -9.56  |
| MWD    | 15  | 5135  | 52.36 | 185.21 | 31   | 5083.13 | 159.37  | 159.37 S  | 62.62 W | 16.54 | 15.13 | -8.74  |
| MWD    | 16  | 5167  | 57.08 | 182.84 | 32   | 5101.61 | 185.42  | 185.42 S  | 64.44 W | 15.94 | 14.75 | -7.41  |
| MWD    | 17  | 5199  | 62.07 | 181.13 | 32   | 5117.81 | 212.99  | 212.99 S  | 65.39 W | 16.26 | 15.59 | -5.34  |
| MWD    | 18  | 5231  | 66.66 | 180.51 | 32   | 5131.65 | 241.83  | 241.83 S  | 65.79 W | 14.45 | 14.34 | -1.94  |
| MWD    | 19  | 5262  | 70.77 | 179.80 | 31   | 5142.90 | 270.70  | 270.70 S  | 65.87 W | 13.43 | 13.26 | -2.29  |
| MWD    | 20  | 5294  | 74.76 | 178.99 | 32   | 5152.38 | 301.26  | 301.26 S  | 65.55 W | 12.70 | 12.47 | -2.53  |
| MWD    | 21  | 5326  | 79.90 | 178.11 | 32   | 5159.40 | 332.46  | 332.46 S  | 64.75 W | 16.28 | 16.06 | -2.75  |
| MWD    | 22  | 5351  | 83.97 | 177.61 | 25   | 5162.91 | 357.19  | 357.19 S  | 63.83 W | 16.40 | 16.28 | -2.00  |
| MWD    | 23  | 5382  | 87.52 | 177.66 | 31   | 5165.21 | 388.07  | 388.07 S  | 62.55 W | 11.45 | 11.45 | 0.16   |
| MWD    | 24  | 5414  | 88.18 | 176.84 | 32   | 5166.41 | 420.01  | 420.01 S  | 61.02 W | 3.29  | 2.06  | -2.56  |
| MWD    | 25  | 5446  | 89.72 | 177.54 | 32   | 5166.99 | 451.97  | 451.97 S  | 59.45 W | 5.29  | 4.81  | 2.19   |
| MWD    | 26  | 5478  | 90.83 | 177.65 | 32   | 5166.84 | 483.94  | 483.94 S  | 58.11 W | 3.49  | 3.47  | 0.34   |
| MWD    | 27  | 5510  | 91.00 | 177.98 | 32   | 5166.33 | 515.91  | 515.91 S  | 56.89 W | 1.16  | 0.53  | 1.03   |
| MWD    | 28  | 5541  | 90.62 | 177.83 | 31   | 5165.89 | 546.89  | 546.89 S  | 55.76 W | 1.32  | -1.23 | -0.48  |
| MWD    | 29  | 5573  | 90.48 | 177.91 | 32   | 5165.58 | 578.86  | 578.86 S  | 54.57 W | 0.50  | -0.44 | 0.25   |
| MWD    | 30  | 5605  | 89.17 | 177.91 | 32   | 5165.68 | 610.84  | 610.84 S  | 53.40 W | 4.09  | -4.09 |        |
| MWD    | 31  | 5636  | 88.93 | 177.91 | 31   | 5166.19 | 641.82  | 641.82 S  | 52.27 W | 0.77  | -0.77 |        |
| MWD    | 32  | 5667  | 88.11 | 177.62 | 31   | 5167.00 | 672.78  | 672.78 S  | 51.06 W | 2.81  | -2.65 | -0.94  |
| MWD    | 33  | 5700  | 87.84 | 177.75 | 33   | 5168.16 | 705.74  | 705.74 S  | 49.73 W | 0.91  | -0.82 | 0.39   |
| MWD    | 34  | 5794  | 89.07 | 177.34 | 94   | 5170.70 | 799.61  | 799.61 S  | 45.70 W | 1.38  | 1.31  | -0.44  |
| MWD    | 35  | 5890  | 89.31 | 177.10 | 96   | 5172.05 | 895.49  | 895.49 S  | 41.05 W | 0.35  | 0.25  | -0.25  |
| MWD    | 36  | 5985  | 89.55 | 176.73 | 95   | 5173.00 | 990.35  | 990.35 S  | 35.94 W | 0.46  | 0.25  | -0.39  |
| MWD    | 37  | 6080  | 90.00 | 178.05 | 95   | 5173.37 | 1085.25 | 1085.25 S | 31.61 W | 1.47  | 0.47  | 1.39   |
| MWD    | 38  | 6175  | 89.24 | 178.18 | 95   | 5174.00 | 1180.19 | 1180.19 S | 28.48 W | 0.81  | -0.80 | 0.14   |
| MWD    | 39  | 6270  | 88.66 | 177.88 | 95   | 5175.74 | 1275.12 | 1275.12 S | 25.22 W | 0.69  | -0.61 | -0.32  |
| MWD    | 40  | 6364  | 87.49 | 178.30 | 94   | 5178.90 | 1369.01 | 1369.01 S | 22.09 W | 1.32  | -1.24 | 0.45   |
| MWD    | 41  | 6460  | 87.38 | 177.94 | 96   | 5183.20 | 1464.86 | 1464.86 S | 18.94 W | 0.39  | -0.11 | -0.38  |
| MWD    | 42  | 6555  | 88.21 | 177.66 | 95   | 5186.85 | 1559.72 | 1559.72 S | 15.30 W | 0.92  | 0.87  | -0.29  |
| MWD    | 43  | 6651  | 89.52 | 177.67 | 96   | 5188.75 | 1655.62 | 1655.62 S | 11.39 W | 1.36  | 1.36  | 0.01   |
| MWD    | 44  | 6746  | 90.41 | 178.02 | 95   | 5188.81 | 1750.55 | 1750.55 S | 7.82 W  | 1.01  | 0.94  | 0.37   |
| MWD    | 45  | 6841  | 90.62 | 178.12 | 95   | 5187.96 | 1845.50 | 1845.50 S | 4.62 W  | 0.24  | 0.22  | 0.11   |
| MWD    | 46  | 6937  | 89.21 | 180.44 | 96   | 5188.10 | 1941.48 | 1941.48 S | 3.41 W  | 2.83  | -1.47 | 2.42   |

Company **Parallel Petroleum**

Well **Assault # 1**

Field **Chaves Co, NM**

Rig **JW # 4**

Anadrill D.D. **Nathan Moore/ David Dobbs/Tommy Moore**

Mag. Decl. **8.599**

Target Inc. **89.00**

Target TVD **5165**

Target Az. **180**

Tgt. Coord. \_\_\_\_\_

| Date | No. | DEPTH | INC.  | AZM    | C.L. | T.V.D.  | V.S.    | N/S       | E/W     | DLS  | B/D.  | Walk  |
|------|-----|-------|-------|--------|------|---------|---------|-----------|---------|------|-------|-------|
| MWD  | 47  | 7033  | 89.59 | 180.70 | 96   | 5189.10 | 2037.47 | 2037.47 S | 4.36 W  | 0.48 | 0.40  | 0.27  |
| MWD  | 48  | 7131  | 88.63 | 182.04 | 98   | 5190.63 | 2135.43 | 2135.43 S | 6.71 W  | 1.68 | -0.98 | 1.37  |
| MWD  | 49  | 7230  | 88.69 | 182.86 | 99   | 5192.94 | 2234.31 | 2234.31 S | 10.94 W | 0.83 | 0.06  | 0.83  |
| MWD  | 50  | 7325  | 88.55 | 183.42 | 95   | 5195.23 | 2329.14 | 2329.14 S | 16.14 W | 0.61 | -0.15 | 0.59  |
| MWD  | 51  | 7420  | 87.52 | 182.51 | 95   | 5198.49 | 2423.95 | 2423.95 S | 21.05 W | 1.45 | -1.08 | -0.96 |
| MWD  | 52  | 7516  | 86.90 | 182.27 | 96   | 5203.16 | 2519.75 | 2519.75 S | 25.05 W | 0.69 | -0.65 | -0.25 |
| MWD  | 53  | 7612  | 87.94 | 180.04 | 96   | 5207.48 | 2615.63 | 2615.63 S | 26.98 W | 2.56 | 1.08  | -2.32 |
| MWD  | 54  | 7708  | 88.90 | 179.86 | 96   | 5210.13 | 2711.59 | 2711.59 S | 26.90 W | 1.02 | 1.00  | -0.19 |
| MWD  | 55  | 7804  | 89.97 | 178.99 | 96   | 5211.08 | 2807.58 | 2807.58 S | 25.94 W | 1.44 | 1.11  | -0.91 |
| MWD  | 56  | 7899  | 90.58 | 179.30 | 95   | 5210.62 | 2902.57 | 2902.57 S | 24.52 W | 0.72 | 0.64  | 0.33  |
| MWD  | 57  | 7995  | 89.07 | 179.94 | 96   | 5210.91 | 2998.56 | 2998.56 S | 23.88 W | 1.71 | -1.57 | 0.67  |
| MWD  | 58  | 8090  | 88.86 | 179.51 | 95   | 5212.63 | 3093.55 | 3093.55 S | 23.42 W | 0.50 | -0.22 | -0.45 |
| MWD  | 59  | 8186  | 89.83 | 179.60 | 96   | 5213.73 | 3189.54 | 3189.54 S | 22.68 W | 1.01 | 1.01  | 0.09  |
| MWD  | 60  | 8280  | 89.38 | 181.25 | 94   | 5214.37 | 3283.53 | 3283.53 S | 23.38 W | 1.82 | -0.48 | 1.76  |
| MWD  | 61  | 8375  | 88.80 | 181.13 | 95   | 5215.88 | 3378.49 | 3378.49 S | 25.35 W | 0.62 | -0.61 | -0.13 |
| MWD  | 62  | 8471  | 89.38 | 179.92 | 96   | 5217.41 | 3474.48 | 3474.48 S | 26.23 W | 1.40 | 0.60  | -1.26 |
| MWD  | 63  | 8566  | 89.31 | 180.14 | 95   | 5218.49 | 3569.47 | 3569.47 S | 26.28 W | 0.24 | -0.07 | 0.23  |
| MWD  | 64  | 8662  | 88.87 | 180.27 | 96   | 5220.02 | 3665.46 | 3665.46 S | 26.62 W | 0.48 | -0.46 | 0.14  |
| MWD  | 65  | 8758  | 88.59 | 179.59 | 96   | 5222.15 | 3761.43 | 3761.43 S | 26.50 W | 0.77 | -0.29 | -0.71 |
| MWD  | 66  | 8853  | 89.04 | 179.40 | 95   | 5224.11 | 3856.41 | 3856.41 S | 25.67 W | 0.51 | 0.47  | -0.20 |
| MWD  | 67  | 8949  | 88.76 | 179.17 | 96   | 5225.95 | 3952.38 | 3952.38 S | 24.47 W | 0.38 | -0.29 | -0.24 |
| MWD  | 68  | 9044  | 88.97 | 178.90 | 95   | 5227.84 | 4047.35 | 4047.35 S | 22.87 W | 0.36 | 0.22  | -0.28 |
| MWD  | 69  | 9140  | 88.90 | 178.91 | 96   | 5229.62 | 4143.32 | 4143.32 S | 21.04 W | 0.07 | -0.07 | 0.01  |
| MWD  | 70  | 9150  | 89.21 | 178.86 | 10   | 5229.78 | 4153.31 | 4153.31 S | 20.84 W | 3.14 | 3.10  | -0.50 |
| PROJ |     | 9217  | 89.21 | 178.86 | 67   | 5230.71 | 4220.29 | 4220.29 S | 19.51 W |      |       |       |