

Rec'd 6/25/2020 - NMOCD



**Rodney Robinson Federal No. 102H**  
Lea County, NM

November 06, 2019

Job No. LNM5529919

**Certified Report**

**ORIGINAL**



## Survey Certification Letter

November 06, 2019



Operator Name: Matador Resources  
Well Name: Rodney Robinson Federal No. 102H  
County/Parish: Lea County,  
State: NM  
Rig Name: Patterson 809  
Job Number: LNM5529919

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

| Surveyor       | Surveyed Depths      | Projection to Bit | Dates Performed     | Type of Survey |
|----------------|----------------------|-------------------|---------------------|----------------|
| ProDirectional | 191' MD – 19,645' MD | 19,750' MD        | 09/02/19 – 10/13/19 | MWD            |

Sincerely,

Mike Coats  
Regulatory Specialist  
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266  
prodirectional.com



## **Matador Resources**

Lea County, NM  
Rodney Robinson Federal  
No. 102H  
OH

Survey: ProDirectional

## **Survey Report**

06 November, 2019





# ProDirectional Survey Report



|           |                         |                              |                    |
|-----------|-------------------------|------------------------------|--------------------|
| Company:  | Matador Resources       | Local Co-ordinate Reference: | Well No. 102H      |
| Project:  | Lea County, NM (NAD83)  | TVD Reference:               | Well @ 3760.50usft |
| Site:     | Rodney Robinson Federal | MD Reference:                | Well @ 3760.50usft |
| Well:     | No. 102H                | North Reference:             | Grid               |
| Wellbore: | OH                      | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | MWD                     | Database:                    | WellPlanner1       |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project     | Lea County, NM (NAD83)    | System Datum: | Mean Sea Level |
| Map System: | US State Plane 1983       |               |                |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | New Mexico Eastern Zone   |               |                |

|                       |                         |                   |                 |
|-----------------------|-------------------------|-------------------|-----------------|
| Site                  | Rodney Robinson Federal |                   |                 |
| Site Position:        |                         | Northing:         | 488,319.00 usft |
| From:                 | Map                     | Easting:          | 763,640.00 usft |
| Position Uncertainty: | 0.00 usft               | Slot Radius:      | 13-3/16 "       |
|                       |                         | Latitude:         | 32.340407       |
|                       |                         | Longitude:        | -103.613537     |
|                       |                         | Grid Convergence: | 0.39 °          |

|                      |                     |                     |                 |
|----------------------|---------------------|---------------------|-----------------|
| Well                 | No. 102H, LNM529919 |                     |                 |
| Well Position        | +N/-S               | Northing:           | 488,289.00 usft |
|                      | +E/-W               | Easting:            | 763,641.00 usft |
| Position Uncertainty | 0.00 usft           | Wellhead Elevation: | usft            |
|                      |                     | Latitude:           | 32.340324       |
|                      |                     | Longitude:          | -103.613534     |
|                      |                     | Ground Level:       | 3,732.00 usft   |

|           |            |             |                |
|-----------|------------|-------------|----------------|
| Wellbore  | OH         |             |                |
| Magnetics | Model Name | Sample Date | Dip Angle      |
|           | HDGM       | 9/16/2019   | (°)            |
|           |            | 6.68        | Field Strength |
|           |            |             | (nT)           |
|           |            |             | 47,978.30      |

|                   |                  |               |           |
|-------------------|------------------|---------------|-----------|
| Design            | MWD              |               |           |
| Audit Notes:      |                  |               |           |
| Version:          | 1.0              | Phase:        | ACTUAL    |
|                   |                  | Tie On Depth: | 0.00      |
| Vertical Section: | Depth From (TVD) | +N/-S         | Direction |
|                   | (usft)           | (usft)        | (°)       |
|                   | 0.00             | 0.00          | 179.40    |
|                   |                  | +E/-W         |           |
|                   |                  | (usft)        |           |
|                   |                  | 0.00          |           |

|                |           |                   |                 |
|----------------|-----------|-------------------|-----------------|
| Survey Program | Date      | 11/6/2019         |                 |
| From (usft)    | To (usft) | Survey (Wellbore) | Description     |
| 191.00         | 19,750.00 | Survey #1 (OH)    | OWSG MWD + HRGM |
|                |           | MWD+HDGM          |                 |





## ProDirectional Survey Report



|           |                         |                              |                    |
|-----------|-------------------------|------------------------------|--------------------|
| Company:  | Matador Resources       | Local Co-ordinate Reference: | Well No. 102H      |
| Project:  | Lea County, NM (NAD83)  | TVD Reference:               | Well @ 3760.50usft |
| Site:     | Rodney Robinson Federal | MD Reference:                | Well @ 3760.50usft |
| Well:     | No. 102H                | North Reference:             | Grid               |
| Wellbore: | OH                      | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | MWD                     | Database:                    | WellPlanner1       |

| Survey                        | MD<br>(usft) | Inc<br>(°) | Azi<br>(azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|-------------------------------|--------------|------------|-------------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| Pro MWD First Survey: 191' MD |              |            |                         |               |                  |               |               |                            |                        |                    |                   |
|                               | 0.00         | 0.00       | 0.00                    | 0.00          | 0.00             | 0.00          | 0.00          | 0.00                       | 0.00                   | 488,289.00         | 763,641.00        |
|                               | 191.00       | 0.60       | 274.50                  | 191.00        | -0.09            | 0.08          | -1.00         | 1.00                       | 274.50                 | 488,289.08         | 763,640.00        |
|                               | 313.00       | 0.80       | 291.00                  | 312.99        | -0.46            | 0.43          | -2.43         | 2.47                       | 280.13                 | 488,289.43         | 763,638.57        |
|                               | 400.00       | 0.70       | 300.60                  | 399.98        | -0.96            | 0.92          | -3.45         | 3.57                       | 284.95                 | 488,289.92         | 763,637.55        |
|                               | 492.00       | 0.60       | 337.60                  | 491.97        | -1.70            | 1.65          | -4.12         | 4.44                       | 291.86                 | 488,290.65         | 763,636.88        |
|                               | 583.00       | 0.40       | 7.30                    | 582.97        | -2.45            | 2.41          | -4.26         | 4.90                       | 299.48                 | 488,291.41         | 763,636.74        |
|                               | 673.00       | 0.40       | 80.20                   | 672.97        | -2.81            | 2.77          | -3.91         | 4.80                       | 305.34                 | 488,291.77         | 763,637.09        |
|                               | 765.00       | 0.40       | 289.00                  | 764.97        | -2.97            | 2.93          | -3.90         | 4.88                       | 306.95                 | 488,291.93         | 763,637.10        |
|                               | 856.00       | 1.60       | 277.80                  | 855.95        | -3.27            | 3.21          | -5.46         | 6.33                       | 300.45                 | 488,292.21         | 763,635.54        |
|                               | 950.00       | 1.90       | 282.00                  | 949.91        | -3.80            | 3.71          | -8.28         | 9.08                       | 294.13                 | 488,292.71         | 763,632.72        |
|                               | 1,045.00     | 1.30       | 289.40                  | 1,044.87      | -4.51            | 4.40          | -10.84        | 11.70                      | 292.08                 | 488,293.40         | 763,630.16        |
|                               | 1,139.00     | 0.80       | 299.50                  | 1,138.86      | -5.20            | 5.07          | -12.42        | 13.41                      | 292.23                 | 488,294.07         | 763,628.58        |
|                               | 1,233.00     | 0.70       | 353.60                  | 1,232.85      | -6.10            | 5.97          | -13.05        | 14.35                      | 294.57                 | 488,294.97         | 763,627.95        |
|                               | 1,276.00     | 0.50       | 2.70                    | 1,275.85      | -6.55            | 6.42          | -13.07        | 14.56                      | 296.14                 | 488,295.42         | 763,627.93        |
|                               | 1,430.00     | 0.40       | 341.50                  | 1,429.84      | -7.74            | 7.60          | -13.21        | 15.24                      | 299.90                 | 488,296.60         | 763,627.79        |
|                               | 1,526.00     | 1.80       | 290.40                  | 1,525.82      | -8.59            | 8.44          | -14.73        | 16.98                      | 299.81                 | 488,297.44         | 763,626.27        |
|                               | 1,621.00     | 4.00       | 284.20                  | 1,620.70      | -9.98            | 9.77          | -19.34        | 21.67                      | 296.81                 | 488,298.77         | 763,621.66        |
|                               | 1,717.00     | 6.60       | 286.20                  | 1,716.28      | -12.43           | 12.13         | -27.89        | 30.41                      | 293.51                 | 488,301.13         | 763,613.11        |
|                               | 1,812.00     | 8.80       | 289.80                  | 1,810.42      | -16.54           | 16.12         | -39.97        | 43.10                      | 291.96                 | 488,305.12         | 763,601.03        |
|                               | 1,908.00     | 9.80       | 290.10                  | 1,905.15      | -21.99           | 21.42         | -54.55        | 58.60                      | 291.43                 | 488,310.42         | 763,586.45        |
|                               | 2,004.00     | 10.00      | 291.10                  | 1,999.72      | -27.95           | 27.22         | -70.00        | 75.11                      | 291.25                 | 488,316.22         | 763,571.00        |
|                               | 2,099.00     | 10.10      | 291.10                  | 2,093.27      | -34.08           | 33.19         | -85.47        | 91.69                      | 291.22                 | 488,322.19         | 763,555.53        |
|                               | 2,195.00     | 10.60      | 291.50                  | 2,187.70      | -40.52           | 39.46         | -101.54       | 108.93                     | 291.24                 | 488,328.46         | 763,539.46        |
|                               | 2,290.00     | 10.90      | 290.60                  | 2,281.04      | -47.05           | 45.82         | -118.07       | 126.65                     | 291.21                 | 488,334.82         | 763,522.93        |
|                               | 2,386.00     | 9.40       | 291.90                  | 2,375.53      | -53.34           | 51.94         | -133.84       | 143.57                     | 291.21                 | 488,340.94         | 763,507.16        |
|                               | 2,481.00     | 8.70       | 293.30                  | 2,469.35      | -59.22           | 57.67         | -147.64       | 158.51                     | 291.34                 | 488,346.67         | 763,493.36        |



# ProDirectional Survey Report



## Company:

Matador Resources

## Project:

Lea County, NM (NAD83)

## Site:

Rodney Robinson Federal

## Well:

No. 102H

## Wellbore:

OH

## Design:

MWD

## Local Co-ordinate Reference:

Well No. 102H

## TVD Reference:

Well @ 3760.50usft

## MD Reference:

Well @ 3760.50usft

## North Reference:

Grid

## Survey Calculation Method:

Minimum Curvature

## Database:

WellPlanner1

## Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 2,577.00     | 9.10       | 293.50               | 2,564.19      | -65.26           | 63.57         | -161.27       | 173.35                     | 291.51                 | 488,352.57         | 763,479.73        |
| 2,672.00     | 9.10       | 292.70               | 2,658.00      | -71.30           | 69.47         | -175.09       | 188.37                     | 291.64                 | 488,358.47         | 763,465.91        |
| 2,768.00     | 9.40       | 292.80               | 2,752.75      | -77.41           | 75.44         | -189.32       | 203.80                     | 291.72                 | 488,364.44         | 763,451.68        |
| 2,863.00     | 9.60       | 293.20               | 2,846.44      | -83.69           | 81.56         | -203.75       | 219.47                     | 291.82                 | 488,370.56         | 763,437.25        |
| 2,959.00     | 9.80       | 293.40               | 2,941.07      | -90.25           | 87.96         | -218.61       | 235.64                     | 291.92                 | 488,376.96         | 763,422.39        |
| 3,054.00     | 8.40       | 292.20               | 3,034.87      | -96.22           | 93.79         | -232.46       | 250.67                     | 291.97                 | 488,382.79         | 763,408.54        |
| 3,150.00     | 7.80       | 291.90               | 3,129.92      | -101.43          | 98.87         | -244.99       | 264.19                     | 291.98                 | 488,387.87         | 763,396.01        |
| 3,246.00     | 8.00       | 292.50               | 3,225.00      | -106.55          | 103.86        | -257.21       | 277.39                     | 291.99                 | 488,392.86         | 763,383.79        |
| 3,341.00     | 8.20       | 294.60               | 3,319.06      | -112.03          | 109.21        | -269.48       | 290.76                     | 292.06                 | 488,398.21         | 763,371.52        |
| 3,437.00     | 8.20       | 297.00               | 3,414.08      | -118.11          | 115.17        | -281.80       | 304.43                     | 292.23                 | 488,404.17         | 763,359.20        |
| 3,532.00     | 8.30       | 297.00               | 3,508.09      | -124.43          | 121.36        | -293.95       | 318.01                     | 292.43                 | 488,410.36         | 763,347.05        |
| 3,628.00     | 8.40       | 301.50               | 3,603.08      | -131.36          | 128.17        | -306.10       | 331.85                     | 292.72                 | 488,417.17         | 763,334.90        |
| 3,723.00     | 7.10       | 295.80               | 3,697.21      | -137.66          | 134.35        | -317.30       | 344.57                     | 292.95                 | 488,423.35         | 763,323.70        |
| 3,818.00     | 6.60       | 289.70               | 3,791.53      | -142.17          | 138.74        | -327.73       | 355.89                     | 292.95                 | 488,427.74         | 763,313.27        |
| 3,914.00     | 6.70       | 292.50               | 3,886.89      | -146.28          | 142.75        | -338.10       | 367.00                     | 292.89                 | 488,431.75         | 763,302.90        |
| 4,010.00     | 6.50       | 293.60               | 3,982.25      | -150.70          | 147.06        | -348.25       | 378.03                     | 292.89                 | 488,436.06         | 763,292.75        |
| 4,105.00     | 5.40       | 296.90               | 4,076.74      | -154.97          | 151.24        | -357.16       | 387.87                     | 292.95                 | 488,440.24         | 763,283.84        |
| 4,200.00     | 3.30       | 298.00               | 4,171.46      | -158.34          | 154.55        | -363.57       | 395.05                     | 293.03                 | 488,443.55         | 763,277.43        |
| 4,296.00     | 4.30       | 289.60               | 4,267.25      | -160.91          | 157.05        | -369.40       | 401.39                     | 293.03                 | 488,446.05         | 763,271.60        |
| 4,391.00     | 6.70       | 281.10               | 4,361.80      | -163.26          | 159.31        | -378.19       | 410.38                     | 292.84                 | 488,448.31         | 763,262.81        |
| 4,487.00     | 7.40       | 278.30               | 4,457.08      | -165.36          | 161.28        | -389.80       | 421.85                     | 292.48                 | 488,450.28         | 763,251.20        |
| 4,582.00     | 6.30       | 278.10               | 4,551.40      | -167.09          | 162.90        | -401.02       | 432.84                     | 292.11                 | 488,451.90         | 763,239.98        |
| 4,677.00     | 5.20       | 277.00               | 4,645.92      | -168.45          | 164.16        | -410.45       | 442.06                     | 291.80                 | 488,453.16         | 763,230.55        |
| 4,773.00     | 5.90       | 278.00               | 4,741.47      | -169.76          | 165.38        | -419.66       | 451.07                     | 291.51                 | 488,454.38         | 763,221.34        |
| 4,869.00     | 7.30       | 277.80               | 4,836.83      | -171.39          | 166.89        | -430.58       | 461.80                     | 291.19                 | 488,455.89         | 763,210.42        |
| 4,964.00     | 7.00       | 278.50               | 4,931.09      | -173.19          | 168.57        | -442.29       | 473.32                     | 290.86                 | 488,457.57         | 763,198.71        |
| 4,995.00     | 6.90       | 278.90               | 4,961.86      | -173.79          | 169.13        | -446.00       | 476.99                     | 290.77                 | 488,458.13         | 763,195.00        |



## ProDirectional Survey Report


**Company:**

Matador Resources  
Lea County, NM (NAD83)  
Project:  
Site: Rodney Robinson Federal  
Well: No. 102H  
Wellbore: OH  
Design: MWD

**Local Co-ordinate Reference:**

Well No. 102H  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well @ 3760.50usft

Well @ 3760.50usft

Grid

Minimum Curvature

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 5,170.00     | 7.10       | 286.30               | 5,135.56      | -178.67          | 173.80        | -466.76       | 498.07                     | 290.42                 | 488,462.80         | 763,174.24        |
| 5,266.00     | 6.90       | 285.60               | 5,230.85      | -182.01          | 177.01        | -478.01       | 509.73                     | 290.32                 | 488,466.01         | 763,162.99        |
| 5,362.00     | 7.00       | 285.40               | 5,326.14      | -185.23          | 180.12        | -489.21       | 521.31                     | 290.21                 | 488,469.12         | 763,151.79        |
| 5,457.00     | 6.90       | 284.30               | 5,420.44      | -188.29          | 183.06        | -500.32       | 532.76                     | 290.10                 | 488,472.06         | 763,140.68        |
| 5,553.00     | 6.90       | 285.50               | 5,515.75      | -191.37          | 186.03        | -511.46       | 544.24                     | 289.99                 | 488,475.03         | 763,129.54        |
| 5,648.00     | 6.60       | 282.50               | 5,610.09      | -194.19          | 188.73        | -522.29       | 555.35                     | 289.87                 | 488,477.73         | 763,118.71        |
| 5,744.00     | 6.70       | 283.30               | 5,705.44      | -196.79          | 191.22        | -533.13       | 566.38                     | 289.73                 | 488,480.22         | 763,107.87        |
| 5,840.00     | 6.20       | 282.50               | 5,800.83      | -199.31          | 193.63        | -543.64       | 577.09                     | 289.60                 | 488,482.63         | 763,097.36        |
| 5,935.00     | 6.00       | 283.40               | 5,895.30      | -201.67          | 195.89        | -553.48       | 587.12                     | 289.49                 | 488,484.89         | 763,087.52        |
| 6,031.00     | 4.00       | 291.10               | 5,990.93      | -204.12          | 198.26        | -561.48       | 595.46                     | 289.45                 | 488,487.26         | 763,079.52        |
| 6,126.00     | 2.00       | 323.00               | 6,085.80      | -206.68          | 200.77        | -565.57       | 600.15                     | 289.54                 | 488,489.77         | 763,075.43        |
| 6,222.00     | 1.50       | 338.00               | 6,181.75      | -209.20          | 203.28        | -567.05       | 602.38                     | 289.72                 | 488,492.28         | 763,073.95        |
| 6,317.00     | 1.60       | 336.10               | 6,276.72      | -211.58          | 205.64        | -568.05       | 604.13                     | 289.90                 | 488,494.64         | 763,072.95        |
| 6,413.00     | 1.60       | 333.50               | 6,372.68      | -214.02          | 208.07        | -569.19       | 606.03                     | 290.08                 | 488,497.07         | 763,071.81        |
| 6,508.00     | 1.60       | 335.30               | 6,467.64      | -216.42          | 210.46        | -570.34       | 607.93                     | 290.25                 | 488,499.46         | 763,070.66        |
| 6,604.00     | 1.80       | 332.70               | 6,563.60      | -218.99          | 213.02        | -571.59       | 609.99                     | 290.44                 | 488,502.02         | 763,069.41        |
| 6,700.00     | 1.50       | 331.50               | 6,659.56      | -221.45          | 215.46        | -572.88       | 612.06                     | 290.61                 | 488,504.46         | 763,068.12        |
| 6,795.00     | 1.50       | 334.20               | 6,754.53      | -223.67          | 217.67        | -574.02       | 613.90                     | 290.77                 | 488,506.67         | 763,066.98        |
| 6,890.00     | 1.30       | 329.70               | 6,849.50      | -225.73          | 219.72        | -575.10       | 615.65                     | 290.91                 | 488,508.72         | 763,065.90        |
| 6,986.00     | 1.20       | 336.50               | 6,945.48      | -227.60          | 221.58        | -576.05       | 617.20                     | 291.04                 | 488,510.58         | 763,064.95        |
| 7,081.00     | 1.10       | 336.90               | 7,040.46      | -229.36          | 223.33        | -576.81       | 618.53                     | 291.17                 | 488,512.33         | 763,064.19        |
| 7,177.00     | 1.00       | 334.60               | 7,136.44      | -230.97          | 224.94        | -577.53       | 619.79                     | 291.28                 | 488,513.94         | 763,063.47        |
| 7,272.00     | 0.80       | 335.50               | 7,231.43      | -232.33          | 226.29        | -578.16       | 620.87                     | 291.38                 | 488,515.29         | 763,062.84        |
| 7,368.00     | 0.80       | 324.50               | 7,327.42      | -233.50          | 227.45        | -578.83       | 621.91                     | 291.45                 | 488,516.45         | 763,062.17        |
| 7,463.00     | 1.00       | 311.50               | 7,422.41      | -234.60          | 228.54        | -579.83       | 623.24                     | 291.51                 | 488,517.54         | 763,061.17        |
| 7,559.00     | 1.00       | 296.80               | 7,518.40      | -235.54          | 229.47        | -581.21       | 624.87                     | 291.54                 | 488,518.47         | 763,059.79        |
| 7,654.00     | 0.80       | 305.00               | 7,613.38      | -236.31          | 230.22        | -582.49       | 626.34                     | 291.57                 | 488,519.22         | 763,058.51        |



# ProDirectional

## Survey Report



Company: Matador Resources  
Project: Lea County, NM (NAD83)  
Site: Rodney Robinson Federal  
Well: No. 102H  
Wellbore: OH  
Design: MWD

Local Co-ordinate Reference:  
TVD Reference: Well @ 3760.50usft  
MD Reference: Well @ 3760.50usft  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: WellPlanner1

| Survey         | MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|----------------|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
|                | 7,750.00     | 0.80       | 311.90               | 7,709.37      | -237.15          | 231.06        | -583.54       | 627.62                     | 291.60                 | 488,520.06         | 763,057.46        |
|                | 7,846.00     | 0.80       | 318.80               | 7,805.37      | -238.11          | 232.01        | -584.48       | 628.84                     | 291.65                 | 488,521.01         | 763,056.52        |
|                | 7,941.00     | 0.80       | 317.00               | 7,900.36      | -239.11          | 232.99        | -585.37       | 630.03                     | 291.70                 | 488,521.99         | 763,055.63        |
|                | 8,037.00     | 0.80       | 307.10               | 7,996.35      | -240.01          | 233.89        | -586.36       | 631.28                     | 291.75                 | 488,522.89         | 763,054.64        |
|                | 8,132.00     | 0.80       | 293.20               | 8,091.34      | -240.69          | 234.55        | -587.50       | 632.59                     | 291.76                 | 488,523.55         | 763,053.50        |
|                | 8,228.00     | 1.00       | 296.80               | 8,187.33      | -241.34          | 235.19        | -588.86       | 634.09                     | 291.77                 | 488,524.19         | 763,052.14        |
|                | 8,323.00     | 1.00       | 284.60               | 8,282.31      | -241.94          | 235.77        | -590.40       | 635.74                     | 291.77                 | 488,524.77         | 763,050.60        |
|                | 8,419.00     | 0.80       | 268.80               | 8,378.30      | -242.15          | 235.97        | -591.88       | 637.19                     | 291.74                 | 488,524.97         | 763,049.12        |
|                | 8,515.00     | 0.90       | 266.50               | 8,474.29      | -242.11          | 235.91        | -593.31       | 638.49                     | 291.68                 | 488,524.91         | 763,047.69        |
|                | 8,610.00     | 0.90       | 260.00               | 8,569.28      | -241.95          | 235.73        | -594.79       | 639.80                     | 291.62                 | 488,524.73         | 763,046.21        |
|                | 8,706.00     | 0.90       | 252.40               | 8,665.27      | -241.61          | 235.37        | -596.25       | 641.02                     | 291.54                 | 488,524.37         | 763,044.75        |
|                | 8,801.00     | 1.10       | 255.50               | 8,760.25      | -241.17          | 234.92        | -597.84       | 642.34                     | 291.45                 | 488,523.92         | 763,043.16        |
|                | 8,897.00     | 1.10       | 253.70               | 8,856.23      | -240.70          | 234.43        | -599.62       | 643.82                     | 291.35                 | 488,523.43         | 763,041.38        |
|                | 9,003.00     | 6.60       | 171.40               | 8,961.99      | -234.38          | 228.12        | -599.68       | 641.60                     | 290.83                 | 488,517.12         | 763,041.32        |
|                | 9,099.00     | 18.70      | 180.70               | 9,055.49      | -213.45          | 207.19        | -599.04       | 633.86                     | 289.08                 | 488,496.19         | 763,041.96        |
|                | 9,195.00     | 26.80      | 177.00               | 9,143.95      | -176.38          | 170.13        | -598.10       | 621.82                     | 285.88                 | 488,459.13         | 763,042.90        |
|                | 9,201.70     | 27.41      | 177.08               | 9,149.92      | -173.33          | 167.08        | -597.94       | 620.84                     | 285.61                 | 488,456.08         | 763,043.06        |
| FTP: 9201.7 MD |              |            |                      |               |                  |               |               |                            |                        |                    |                   |
|                | 9,290.00     | 35.50      | 177.90               | 9,225.18      | -127.32          | 121.08        | -595.96       | 608.14                     | 281.48                 | 488,410.08         | 763,045.04        |
|                | 9,386.00     | 46.60      | 180.60               | 9,297.47      | -64.38           | 58.15         | -595.30       | 598.14                     | 275.58                 | 488,347.15         | 763,045.70        |
|                | 9,482.00     | 51.00      | 179.90               | 9,360.69      | 7.82             | -14.06        | -595.60       | 595.77                     | 268.65                 | 488,274.94         | 763,045.40        |
|                | 9,577.00     | 62.90      | 177.60               | 9,412.41      | 87.29            | -93.52        | -593.76       | 601.08                     | 261.05                 | 488,195.48         | 763,047.24        |
|                | 9,673.00     | 71.50      | 177.40               | 9,449.58      | 175.66           | -181.85       | -589.90       | 617.29                     | 252.87                 | 488,107.15         | 763,051.10        |
|                | 9,768.00     | 81.20      | 178.70               | 9,471.97      | 267.84           | -274.00       | -586.78       | 647.61                     | 244.97                 | 488,015.00         | 763,054.22        |
|                | 9,864.00     | 90.70      | 180.10               | 9,478.74      | 363.49           | -369.64       | -585.79       | 692.67                     | 237.75                 | 487,919.36         | 763,055.21        |
|                | 9,959.00     | 92.40      | 177.70               | 9,476.17      | 458.44           | -464.58       | -583.97       | 746.23                     | 231.50                 | 487,824.42         | 763,057.03        |
|                | 10,055.00    | 90.20      | 178.40               | 9,473.99      | 554.38           | -560.49       | -580.70       | 807.07                     | 226.01                 | 487,728.51         | 763,060.30        |





## ProDirectional Survey Report



**Company:** Matador Resources  
**Project:** Lea County, NM (NAD83)  
**Site:** Rodney Robinson Federal  
**Well:** No. 102H  
**Wellbore:** OH  
**Design:** MWD

**Local Co-ordinate Reference:**  
**TVD Reference:** Well @ 3760.50usft  
**MD Reference:** Well @ 3760.50usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

| Survey | MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
|        | 10,150.00    | 90.70      | 177.70               | 9,473.25      | 649.35           | -655.44       | -577.47       | 873.54                     | 221.38                 | 487,633.56         | 763,063.53        |
|        | 10,246.00    | 89.20      | 180.90               | 9,473.33      | 745.34           | -751.41       | -576.30       | 946.96                     | 217.49                 | 487,537.59         | 763,064.70        |
|        | 10,341.00    | 87.30      | 182.30               | 9,476.23      | 840.22           | -846.32       | -578.95       | 1,025.40                   | 214.37                 | 487,442.68         | 763,062.05        |
|        | 10,437.00    | 88.30      | 182.40               | 9,479.92      | 936.02           | -942.17       | -582.88       | 1,107.90                   | 211.74                 | 487,346.83         | 763,058.12        |
|        | 10,532.00    | 84.40      | 182.80               | 9,485.96      | 1,030.66         | -1,036.86     | -587.18       | 1,191.58                   | 209.52                 | 487,252.14         | 763,053.82        |
|        | 10,627.00    | 84.30      | 182.50               | 9,495.32      | 1,125.04         | -1,131.30     | -591.55       | 1,276.63                   | 207.60                 | 487,157.70         | 763,049.45        |
|        | 10,693.00    | 86.00      | 181.50               | 9,500.90      | 1,190.74         | -1,197.02     | -593.85       | 1,336.23                   | 206.39                 | 487,091.98         | 763,047.15        |
|        | 10,789.00    | 86.40      | 180.80               | 9,507.26      | 1,286.48         | -1,292.79     | -595.77       | 1,423.46                   | 204.74                 | 486,996.21         | 763,045.23        |
|        | 10,881.00    | 87.40      | 180.70               | 9,512.23      | 1,378.32         | -1,384.65     | -596.97       | 1,507.85                   | 203.32                 | 486,904.35         | 763,044.03        |
|        | 10,974.00    | 87.70      | 180.60               | 9,516.21      | 1,471.21         | -1,477.56     | -598.02       | 1,593.99                   | 202.04                 | 486,811.44         | 763,042.98        |
|        | 11,067.00    | 87.70      | 180.00               | 9,519.94      | 1,564.12         | -1,570.48     | -598.51       | 1,680.66                   | 200.86                 | 486,718.52         | 763,042.49        |
|        | 11,160.00    | 88.50      | 177.00               | 9,523.03      | 1,657.05         | -1,663.38     | -596.08       | 1,766.96                   | 199.72                 | 486,625.62         | 763,044.92        |
|        | 11,253.00    | 88.90      | 176.80               | 9,525.14      | 1,749.94         | -1,756.22     | -591.05       | 1,853.01                   | 198.60                 | 486,532.78         | 763,049.95        |
|        | 11,346.00    | 89.50      | 176.30               | 9,526.43      | 1,842.81         | -1,849.05     | -585.45       | 1,939.52                   | 197.57                 | 486,439.95         | 763,055.55        |
|        | 11,439.00    | 89.20      | 178.70               | 9,527.49      | 1,935.75         | -1,941.94     | -581.40       | 2,027.11                   | 196.67                 | 486,347.06         | 763,059.60        |
|        | 11,532.00    | 90.10      | 179.40               | 9,528.06      | 2,028.74         | -2,034.93     | -579.86       | 2,115.93                   | 195.90                 | 486,254.07         | 763,061.14        |
|        | 11,625.00    | 89.90      | 179.30               | 9,528.06      | 2,121.74         | -2,127.92     | -578.80       | 2,205.24                   | 195.22                 | 486,161.08         | 763,062.20        |
|        | 11,717.00    | 92.20      | 179.90               | 9,526.37      | 2,213.72         | -2,219.90     | -578.16       | 2,293.95                   | 194.60                 | 486,069.10         | 763,062.84        |
|        | 11,813.00    | 93.20      | 179.80               | 9,521.85      | 2,309.61         | -2,315.79     | -577.91       | 2,386.81                   | 194.01                 | 485,973.21         | 763,063.09        |
|        | 11,908.00    | 89.50      | 179.80               | 9,519.61      | 2,404.57         | -2,410.75     | -577.58       | 2,478.97                   | 193.47                 | 485,878.25         | 763,063.42        |
|        | 12,004.00    | 87.50      | 179.60               | 9,522.13      | 2,500.53         | -2,506.71     | -577.07       | 2,572.27                   | 192.96                 | 485,782.29         | 763,063.93        |
|        | 12,099.00    | 86.20      | 179.80               | 9,527.35      | 2,595.38         | -2,601.56     | -576.58       | 2,664.69                   | 192.50                 | 485,687.44         | 763,064.42        |
|        | 12,195.00    | 90.90      | 179.40               | 9,529.77      | 2,691.32         | -2,697.50     | -575.91       | 2,758.29                   | 192.05                 | 485,591.50         | 763,065.09        |
|        | 12,290.00    | 91.50      | 178.20               | 9,527.78      | 2,786.29         | -2,792.46     | -573.92       | 2,850.82                   | 191.61                 | 485,496.54         | 763,067.08        |
|        | 12,385.00    | 91.30      | 177.30               | 9,525.46      | 2,881.22         | -2,887.35     | -570.19       | 2,943.12                   | 191.17                 | 485,401.65         | 763,070.81        |
|        | 12,481.00    | 91.60      | 177.00               | 9,523.03      | 2,977.12         | -2,983.20     | -565.42       | 3,036.31                   | 190.73                 | 485,305.80         | 763,075.58        |
|        | 12,576.00    | 91.90      | 177.50               | 9,520.13      | 3,072.01         | -3,078.05     | -560.86       | 3,128.73                   | 190.33                 | 485,210.95         | 763,080.14        |



## ProDirectional Survey Report



| Company: Matador Resources      |         |                   |            | Local Co-ordinate Reference: |            |            |                         |                     |                 |                |  |
|---------------------------------|---------|-------------------|------------|------------------------------|------------|------------|-------------------------|---------------------|-----------------|----------------|--|
| Project: Lea County, NM (NAD83) |         |                   |            | TVD Reference:               |            |            |                         |                     |                 |                |  |
| Site: Rodney Robinson Federal   |         |                   |            | MD Reference:                |            |            |                         |                     |                 |                |  |
| Well: No. 102H                  |         |                   |            | North Reference:             |            |            |                         |                     |                 |                |  |
| Wellbore: OH                    |         |                   |            | Survey Calculation Method:   |            |            |                         |                     |                 |                |  |
| Design: MWD                     |         |                   |            | Database:                    |            |            |                         |                     |                 |                |  |
| Survey                          |         |                   |            |                              |            |            |                         |                     |                 |                |  |
| MD (usft)                       | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft)                | N/S (usft) | E/W (usft) | Closure Distance (usft) | Closure Azimuth (°) | Northing (usft) | Easting (usft) |  |
| 12,672.00                       | 93.90   | 178.40            | 9,515.28   | 3,167.85                     | -3,173.86  | -557.43    | 3,222.44                | 189.96              | 485,115.14      | 763,083.57     |  |
| 12,767.00                       | 91.60   | 178.80            | 9,510.72   | 3,262.72                     | -3,268.72  | -555.11    | 3,315.52                | 189.64              | 485,020.28      | 763,085.89     |  |
| 12,863.00                       | 93.10   | 179.50            | 9,506.78   | 3,358.64                     | -3,364.62  | -553.69    | 3,409.87                | 189.34              | 484,924.38      | 763,087.31     |  |
| 12,958.00                       | 90.80   | 179.40            | 9,503.55   | 3,453.58                     | -3,459.55  | -552.78    | 3,503.44                | 189.08              | 484,829.45      | 763,088.22     |  |
| 13,054.00                       | 91.30   | 178.60            | 9,501.79   | 3,549.56                     | -3,555.52  | -551.10    | 3,597.98                | 188.81              | 484,733.48      | 763,089.90     |  |
| 13,150.00                       | 89.20   | 180.90            | 9,501.37   | 3,645.54                     | -3,651.51  | -550.69    | 3,692.80                | 188.58              | 484,637.49      | 763,090.31     |  |
| 13,245.00                       | 88.80   | 181.10            | 9,503.03   | 3,740.49                     | -3,746.48  | -552.34    | 3,786.98                | 188.39              | 484,542.52      | 763,088.66     |  |
| 13,341.00                       | 88.80   | 180.00            | 9,505.04   | 3,836.45                     | -3,842.45  | -553.26    | 3,882.08                | 188.19              | 484,446.55      | 763,087.74     |  |
| 13,437.00                       | 88.90   | 179.40            | 9,506.97   | 3,932.43                     | -3,938.43  | -552.76    | 3,977.03                | 187.99              | 484,350.57      | 763,088.24     |  |
| 13,532.00                       | 88.10   | 178.60            | 9,509.45   | 4,027.39                     | -4,033.38  | -551.10    | 4,070.86                | 187.78              | 484,255.62      | 763,089.90     |  |
| 13,628.00                       | 86.00   | 177.90            | 9,514.39   | 4,123.24                     | -4,129.21  | -548.18    | 4,165.43                | 187.56              | 484,159.79      | 763,092.82     |  |
| 13,723.00                       | 89.40   | 178.40            | 9,518.21   | 4,218.13                     | -4,224.07  | -545.11    | 4,259.09                | 187.35              | 484,064.93      | 763,095.89     |  |
| 13,819.00                       | 89.80   | 177.90            | 9,518.88   | 4,314.10                     | -4,320.01  | -542.01    | 4,353.88                | 187.15              | 483,968.99      | 763,098.99     |  |
| 13,914.00                       | 90.00   | 177.50            | 9,519.04   | 4,409.06                     | -4,414.94  | -538.20    | 4,447.62                | 186.95              | 483,874.06      | 763,102.80     |  |
| 14,010.00                       | 91.40   | 177.90            | 9,517.87   | 4,505.01                     | -4,510.85  | -534.35    | 4,542.39                | 186.76              | 483,778.15      | 763,106.65     |  |
| 14,106.00                       | 92.20   | 178.30            | 9,514.85   | 4,600.93                     | -4,606.75  | -531.17    | 4,637.27                | 186.58              | 483,682.25      | 763,109.83     |  |
| 14,201.00                       | 94.30   | 179.10            | 9,509.47   | 4,695.77                     | -4,701.56  | -529.02    | 4,731.23                | 186.42              | 483,587.44      | 763,111.98     |  |
| 14,297.00                       | 93.30   | 179.30            | 9,503.11   | 4,791.55                     | -4,797.34  | -527.68    | 4,826.28                | 186.28              | 483,491.66      | 763,113.32     |  |
| 14,393.00                       | 91.70   | 179.40            | 9,498.92   | 4,887.46                     | -4,893.24  | -526.59    | 4,921.50                | 186.14              | 483,395.76      | 763,114.41     |  |
| 14,488.00                       | 93.70   | 179.60            | 9,494.44   | 4,982.35                     | -4,988.13  | -525.76    | 5,015.76                | 186.02              | 483,300.87      | 763,115.24     |  |
| 14,584.00                       | 91.70   | 180.40            | 9,489.92   | 5,078.23                     | -5,084.02  | -525.76    | 5,111.13                | 185.90              | 483,204.98      | 763,115.24     |  |
| 14,677.00                       | 89.20   | 182.40            | 9,489.19   | 5,171.16                     | -5,176.97  | -528.04    | 5,203.83                | 185.82              | 483,112.03      | 763,112.96     |  |
| 14,773.00                       | 88.10   | 183.40            | 9,491.45   | 5,266.95                     | -5,272.82  | -532.89    | 5,299.68                | 185.77              | 483,016.18      | 763,108.11     |  |
| 14,868.00                       | 88.30   | 183.10            | 9,494.44   | 5,361.69                     | -5,367.62  | -538.27    | 5,394.54                | 185.73              | 482,921.38      | 763,102.73     |  |
| 14,964.00                       | 88.90   | 183.10            | 9,496.78   | 5,457.46                     | -5,463.45  | -543.46    | 5,490.41                | 185.68              | 482,825.55      | 763,097.54     |  |
| 15,059.00                       | 89.30   | 182.30            | 9,498.27   | 5,552.29                     | -5,558.33  | -547.94    | 5,585.28                | 185.63              | 482,730.67      | 763,093.06     |  |
| 15,155.00                       | 90.30   | 182.10            | 9,498.61   | 5,648.17                     | -5,654.26  | -551.62    | 5,681.10                | 185.57              | 482,634.74      | 763,089.38     |  |



## ProDirectional Survey Report

**Company:**

Matador Resources

**Project:**

Lea County, NM (NAD83)

**Site:**

Rodney Robinson Federal

**Well:**

No. 102H

**Wellbore:**

OH

**Design:**

MWD

**Local Co-ordinate Reference:**

Well No. 102H

**TVD Reference:**

Well @ 3760.50usft

**MD Reference:**

Well @ 3760.50usft

**North Reference:**

Grid

**Survey Calculation Method:**

Minimum Curvature

**Database:**

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 15,251.00    | 90.60      | 182.10               | 9,497.86      | 5,744.06         | -5,750.19     | -555.14       | 5,776.93                   | 185.51                 | 482,538.81         | 763,085.86        |
| 15,346.00    | 90.30      | 180.80               | 9,497.11      | 5,839.00         | -5,845.16     | -557.55       | 5,871.69                   | 185.45                 | 482,443.84         | 763,083.45        |
| 15,442.00    | 90.00      | 180.30               | 9,496.86      | 5,934.98         | -5,941.15     | -558.47       | 5,967.34                   | 185.37                 | 482,347.85         | 763,082.53        |
| 15,537.00    | 90.20      | 180.90               | 9,496.69      | 6,029.96         | -6,036.15     | -559.46       | 6,062.02                   | 185.30                 | 482,252.85         | 763,081.54        |
| 15,633.00    | 89.90      | 180.60               | 9,496.61      | 6,125.93         | -6,132.14     | -560.72       | 6,157.72                   | 185.22                 | 482,156.86         | 763,080.28        |
| 15,729.00    | 90.60      | 180.90               | 9,496.19      | 6,221.90         | -6,228.13     | -561.97       | 6,253.43                   | 185.16                 | 482,060.87         | 763,079.03        |
| 15,824.00    | 91.90      | 181.20               | 9,494.12      | 6,316.84         | -6,323.09     | -563.71       | 6,348.17                   | 185.09                 | 481,965.91         | 763,077.29        |
| 15,919.00    | 92.40      | 181.40               | 9,490.55      | 6,411.72         | -6,418.00     | -565.87       | 6,442.89                   | 185.04                 | 481,871.00         | 763,075.13        |
| 16,015.00    | 89.40      | 181.80               | 9,489.05      | 6,507.62         | -6,513.94     | -568.55       | 6,538.70                   | 184.99                 | 481,775.06         | 763,072.45        |
| 16,111.00    | 89.00      | 182.30               | 9,490.39      | 6,603.51         | -6,609.86     | -571.98       | 6,634.57                   | 184.95                 | 481,679.14         | 763,069.02        |
| 16,206.00    | 89.00      | 182.60               | 9,492.04      | 6,698.36         | -6,704.76     | -576.04       | 6,729.46                   | 184.91                 | 481,584.24         | 763,064.96        |
| 16,302.00    | 89.10      | 180.90               | 9,493.64      | 6,794.27         | -6,800.70     | -578.97       | 6,825.30                   | 184.87                 | 481,488.30         | 763,062.03        |
| 16,397.00    | 88.80      | 180.20               | 9,495.38      | 6,889.23         | -6,895.68     | -579.89       | 6,920.02                   | 184.81                 | 481,393.32         | 763,061.11        |
| 16,493.00    | 89.40      | 180.40               | 9,496.88      | 6,985.21         | -6,991.67     | -580.39       | 7,015.71                   | 184.75                 | 481,297.33         | 763,060.61        |
| 16,588.00    | 89.40      | 179.70               | 9,497.88      | 7,080.19         | -7,086.66     | -580.47       | 7,110.39                   | 184.68                 | 481,202.34         | 763,060.53        |
| 16,684.00    | 90.70      | 180.40               | 9,497.80      | 7,176.18         | -7,182.66     | -580.55       | 7,206.08                   | 184.62                 | 481,106.34         | 763,060.45        |
| 16,780.00    | 89.80      | 178.30               | 9,497.38      | 7,272.18         | -7,278.64     | -579.47       | 7,301.67                   | 184.55                 | 481,010.36         | 763,061.53        |
| 16,875.00    | 91.10      | 178.60               | 9,496.63      | 7,367.16         | -7,373.60     | -576.90       | 7,396.14                   | 184.47                 | 480,915.40         | 763,064.10        |
| 16,971.00    | 91.80      | 176.70               | 9,494.20      | 7,463.08         | -7,469.49     | -572.96       | 7,491.43                   | 184.39                 | 480,819.51         | 763,068.04        |
| 17,066.00    | 88.80      | 176.60               | 9,493.70      | 7,557.96         | -7,564.31     | -567.41       | 7,585.57                   | 184.29                 | 480,724.69         | 763,073.59        |
| 17,162.00    | 86.30      | 176.40               | 9,497.81      | 7,653.74         | -7,660.04     | -561.56       | 7,680.60                   | 184.19                 | 480,628.96         | 763,079.44        |
| 17,257.00    | 86.60      | 176.30               | 9,503.69      | 7,748.42         | -7,754.66     | -555.52       | 7,774.54                   | 184.10                 | 480,534.34         | 763,085.48        |
| 17,353.00    | 86.90      | 176.00               | 9,509.13      | 7,844.11         | -7,850.29     | -549.08       | 7,869.47                   | 184.00                 | 480,438.71         | 763,091.92        |
| 17,448.00    | 87.60      | 175.50               | 9,513.69      | 7,938.81         | -7,944.92     | -542.05       | 7,963.39                   | 183.90                 | 480,344.08         | 763,098.95        |
| 17,544.00    | 90.10      | 173.80               | 9,515.62      | 8,034.45         | -8,040.47     | -533.10       | 8,058.13                   | 183.79                 | 480,248.53         | 763,107.90        |
| 17,639.00    | 89.10      | 176.50               | 9,516.28      | 8,129.18         | -8,135.12     | -525.07       | 8,152.05                   | 183.69                 | 480,153.88         | 763,115.93        |
| 17,735.00    | 90.60      | 177.90               | 9,516.53      | 8,225.10         | -8,231.00     | -520.38       | 8,247.44                   | 183.62                 | 480,058.00         | 763,120.62        |



# ProDirectional Survey Report



## Company:

Matador Resources  
Lea County, NM (NAD83)  
Project:  
Site: Rodney Robinson Federal  
Well: No. 102H  
Wellbore: OH  
Design: MWD

## Local Co-ordinate Reference:

TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:  
Well No. 102H  
Well @ 3760.50usft  
Well @ 3760.50usft  
Grid  
Minimum Curvature  
WellPlanner1

## Survey

| MD<br>(usft)                  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|-------------------------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 17,831.00                     | 88.50      | 179.20               | 9,517.29      | 8,321.08         | -8,326.96     | -517.95       | 8,343.05                   | 183.56                 | 479,962.04         | 763,123.05        |
| 17,926.00                     | 89.30      | 179.30               | 9,519.11      | 8,416.06         | -8,421.93     | -516.71       | 8,437.77                   | 183.51                 | 479,867.07         | 763,124.29        |
| 18,022.00                     | 89.80      | 179.60               | 9,519.86      | 8,512.06         | -8,517.93     | -515.79       | 8,533.53                   | 183.47                 | 479,771.07         | 763,125.21        |
| 18,117.00                     | 90.90      | 179.10               | 9,519.28      | 8,607.05         | -8,612.92     | -514.71       | 8,628.28                   | 183.42                 | 479,676.08         | 763,126.29        |
| 18,212.00                     | 90.30      | 178.70               | 9,518.29      | 8,702.05         | -8,707.89     | -512.89       | 8,722.98                   | 183.37                 | 479,581.11         | 763,128.11        |
| 18,308.00                     | 89.70      | 177.10               | 9,518.29      | 8,798.01         | -8,803.83     | -509.37       | 8,818.55                   | 183.31                 | 479,485.17         | 763,131.63        |
| 18,403.00                     | 89.80      | 176.30               | 9,518.70      | 8,892.90         | -8,898.67     | -503.90       | 8,912.92                   | 183.24                 | 479,390.33         | 763,137.10        |
| 18,498.00                     | 90.80      | 176.00               | 9,518.21      | 8,987.75         | -8,993.45     | -497.52       | 9,007.20                   | 183.17                 | 479,295.55         | 763,143.48        |
| 18,593.00                     | 90.30      | 176.60               | 9,517.29      | 9,082.60         | -9,088.25     | -491.39       | 9,101.52                   | 183.09                 | 479,200.75         | 763,149.61        |
| 18,689.00                     | 87.20      | 178.30               | 9,519.39      | 9,178.51         | -9,184.11     | -487.12       | 9,197.02                   | 183.04                 | 479,104.89         | 763,153.88        |
| 18,784.00                     | 87.10      | 177.50               | 9,524.11      | 9,273.36         | -9,278.93     | -483.65       | 9,291.53                   | 182.98                 | 479,010.07         | 763,157.35        |
| 18,880.00                     | 87.30      | 177.00               | 9,528.80      | 9,369.17         | -9,374.71     | -479.05       | 9,386.94                   | 182.93                 | 478,914.29         | 763,161.95        |
| 18,976.00                     | 86.90      | 176.00               | 9,533.66      | 9,464.93         | -9,470.40     | -473.19       | 9,482.22                   | 182.86                 | 478,818.60         | 763,167.81        |
| 19,071.00                     | 87.10      | 175.60               | 9,538.63      | 9,559.61         | -9,565.02     | -466.24       | 9,576.37                   | 182.79                 | 478,723.98         | 763,174.76        |
| 19,167.00                     | 86.90      | 174.80               | 9,543.65      | 9,655.22         | -9,660.55     | -458.22       | 9,671.41                   | 182.72                 | 478,628.45         | 763,182.78        |
| 19,263.00                     | 86.20      | 174.40               | 9,549.43      | 9,750.71         | -9,755.95     | -449.20       | 9,766.28                   | 182.64                 | 478,533.05         | 763,191.80        |
| 19,358.00                     | 86.80      | 173.90               | 9,555.23      | 9,845.13         | -9,850.28     | -439.54       | 9,860.08                   | 182.55                 | 478,438.72         | 763,201.46        |
| 19,454.00                     | 90.90      | 173.40               | 9,557.16      | 9,940.61         | -9,945.65     | -428.93       | 9,954.89                   | 182.47                 | 478,343.35         | 763,212.07        |
| 19,549.00                     | 91.40      | 173.50               | 9,555.25      | 10,035.08        | -10,040.01    | -418.09       | 10,048.71                  | 182.38                 | 478,248.99         | 763,222.91        |
| 19,645.00                     | 91.60      | 172.80               | 9,552.74      | 10,130.48        | -10,135.29    | -406.65       | 10,143.44                  | 182.30                 | 478,153.71         | 763,234.35        |
| <b>Last Survey: 19645' MD</b> |            |                      |               |                  |               |               |                            |                        |                    |                   |
| 19,704.20                     | 91.60      | 172.80               | 9,551.08      | 10,189.26        | -10,194.00    | -399.23       | 10,201.81                  | 182.24                 | 478,095.00         | 763,241.77        |
| <b>LTP: 19704.2' MD</b>       |            |                      |               |                  |               |               |                            |                        |                    |                   |
| 19,750.00                     | 91.60      | 172.80               | 9,549.81      | 10,234.74        | -10,239.42    | -393.49       | 10,246.98                  | 182.20                 | 478,049.58         | 763,247.51        |
| <b>PTB: 19750' MD</b>         |            |                      |               |                  |               |               |                            |                        |                    |                   |





# ProDirectional Survey Report

**Company:**

Matador Resources

**Project:**

Lea County, NM (NAD83)

**Site:**

Rodney Robinson Federal

**Well:**

No. 102H

**Wellbore:**

OH

**Design:**

MWD

**Local Co-ordinate Reference:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 102H

Well @ 3760.50usft

Well @ 3760.50usft

Grid

Minimum Curvature

WellPlanner1

**Design Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates<br>+N/-S<br>(usft) | +E/-W<br>(usft) | Comment                       |
|-----------------------------|-----------------------------|--------------------------------------|-----------------|-------------------------------|
| 191.00                      | 191.00                      | 0.08                                 | -1.00           | Pro MWD First Survey: 191' MD |
| 9,201.70                    | 9,149.92                    | 167.08                               | -597.94         | FTP: 9201.7' MD               |
| 19,645.00                   | 9,552.74                    | -10,135.29                           | -406.65         | Last Survey: 19645' MD        |
| 19,704.20                   | 9,551.08                    | -10,194.00                           | -399.23         | LTP: 19704.2' MD              |
| 19,750.00                   | 9,549.81                    | -10,239.42                           | -393.49         | PTB: 19750' MD                |