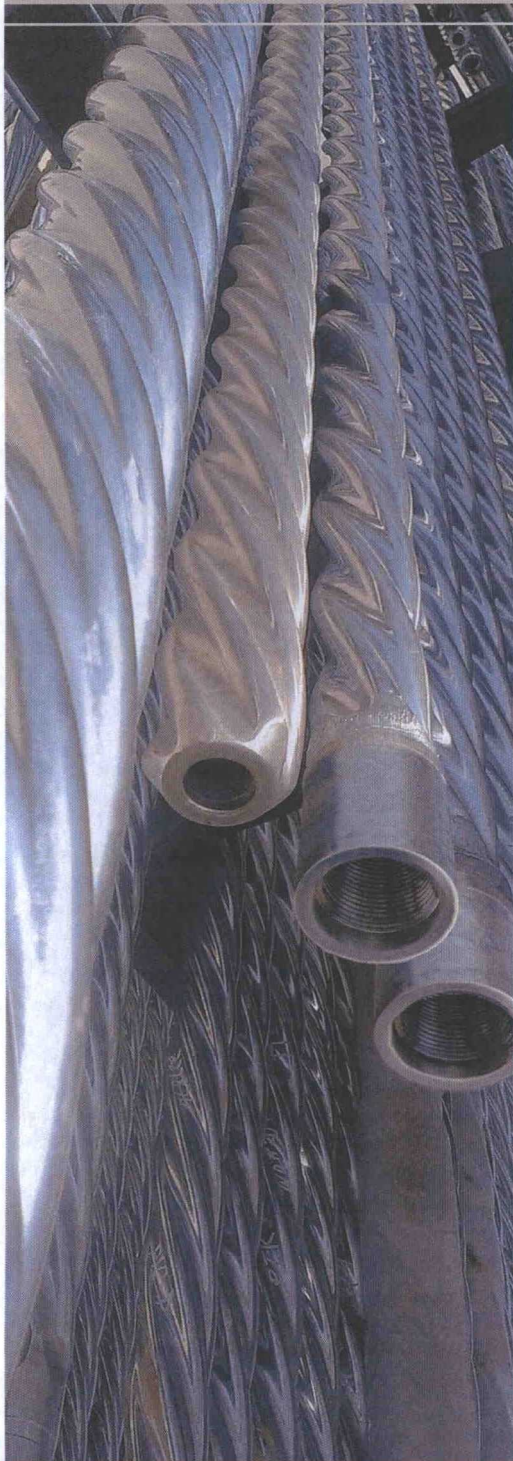




RECEIVED

MAY 03 2018

DISTRICT II-ARTESIA O.C.D.



Tom Matthews 10-24S-28E RB No. 204H

Eddy County, NM

30-015-44515

March 08, 2018

Job No. LNM5163818

ORIGINAL

## Survey Completion Report



PRODIRECTIONAL

## Survey Certification Letter

March 08, 2018



Operator Name: Matador Resources  
Well Name: Tom Matthews 10-24S-28E RB No. 204H  
County/Parish: Eddy County,  
State: NM  
Rig Name: Patterson 274  
Job Number: LNM5163818

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 | 173' MD – 14,162' MD | 14,226' MD        | 01/27/18 – 03/01/18 | MWD            |

Sincerely,

Mike Coats  
Regulatory Specialist  
Professional Directional

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

[prodirectional.com](http://prodirectional.com)





# **Matador Resources**

**Eddy County, NM  
Tom Matthews 10-24S-28E RB  
No. 204H  
OH**

**Survey: ProDirectional**

## **Survey Report**

**08 March, 2018**





# ProDirectional Survey Report



|           |                               |                              |                    |
|-----------|-------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources             | Local Co-ordinate Reference: | Well No. 204H      |
| Project:  | Eddy County, NM(NAD 83)       | TVD Reference:               | Well @ 3044.50usft |
| Site:     | Tom Matthews 10-24S-28E RB    | MD Reference:                | Well @ 3044.50usft |
| Well:     | No. 204H                      | North Reference:             | Grid               |
| Wellbore: | OH                            | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | MWD-173'-14162', Proj. 14226' | Database:                    | WellPlanner1       |

|             |                           |               |                |
|-------------|---------------------------|---------------|----------------|
| Project     | Eddy County, NM(NAD 83)   |               |                |
| Map System: | US State Plane 1983       | System Datum: | Mean Sea Level |
| Geo Datum:  | North American Datum 1983 |               |                |
| Map Zone:   | New Mexico Eastern Zone   |               |                |

|                       |                            |                   |                 |
|-----------------------|----------------------------|-------------------|-----------------|
| Site                  | Tom Matthews 10-24S-28E RB |                   |                 |
| Site Position:        |                            | Northing:         | 447,501.00 usft |
| From:                 | Map                        | Easting:          | 618,050.00 usft |
| Position Uncertainty: | 0.00 usft                  | Slot Radius:      | 13-3/16 "       |
|                       |                            | Latitude:         | 32.2300130      |
|                       |                            | Longitude:        | -104.0852431    |
|                       |                            | Grid Convergence: | 0.13 °          |

|                      |           |                     |           |                 |               |              |
|----------------------|-----------|---------------------|-----------|-----------------|---------------|--------------|
| Well                 | No. 204H  |                     |           |                 |               |              |
| Well Position        | +N/-S     | 0.00 usft           | Northing: | 446,685.00 usft | Latitude:     | 32.2277664   |
|                      | +E/-W     | 0.00 usft           | Easting:  | 618,600.00 usft | Longitude:    | -104.0834706 |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | usft      | Ground Level:   | 3,016.00 usft |              |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OH         |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | HDGM       | 1/26/2018   | 7.27            | 60.02         | 48,034.10           |

|                   |                            |                               |                 |                    |
|-------------------|----------------------------|-------------------------------|-----------------|--------------------|
| Design            |                            | MWD-173'-14162', Proj. 14226' |                 |                    |
| Audit Notes:      |                            |                               |                 |                    |
| Version:          | 1.0                        | Phase:                        | ACTUAL          | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft)               | +E/-W<br>(usft) | Direction<br>(°)   |
|                   | 0.00                       | 0.00                          | 0.00            | 89.78              |

|                |               |                   |           |                 |
|----------------|---------------|-------------------|-----------|-----------------|
| Survey Program | Date 3/8/2018 |                   |           |                 |
| From<br>(usft) | To<br>(usft)  | Survey (Wellbore) | Tool Name | Description     |
| 173.00         | 14,226.00     | Survey #1 (OH)    | MWD+HDGM  | OWSG MWD + HRGM |





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM(NAD 83)  
Site: Tom Matthews 10-24S-28E RB  
Well: No. 204H  
Wellbore: OH  
Design: MWD-173'-14162', Proj. 14226'

Local Co-ordinate Reference: Well No. 204H  
TVD Reference: Well @ 3044.50usft  
MD Reference: Well @ 3044.50usft  
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) |  |
| 0.00                          | 0.00       | 0.00                 | 0.00          | 0.00             | 0.00          | 0.00          | 0.00                       | 0.00                   | 446,685.00         | 618,600.00        |  |
| 173.00                        | 0.20       | 179.30               | 173.00        | 0.00             | -0.30         | 0.00          | 0.30                       | 179.30                 | 446,684.70         | 618,600.00        |  |
| Pro MWD First Survey: 173' MD |            |                      |               |                  |               |               |                            |                        |                    |                   |  |
| 233.00                        | 0.40       | 110.10               | 233.00        | 0.20             | -0.48         | 0.20          | 0.52                       | 157.15                 | 446,684.52         | 618,600.20        |  |
| 325.00                        | 0.50       | 2.20                 | 325.00        | 0.52             | -0.19         | 0.52          | 0.55                       | 109.91                 | 446,684.81         | 618,600.52        |  |
| 416.00                        | 1.30       | 20.20                | 415.99        | 0.89             | 1.18          | 0.89          | 1.48                       | 37.09                  | 446,686.18         | 618,600.89        |  |
| 496.00                        | 1.60       | 16.50                | 495.96        | 1.53             | 3.10          | 1.52          | 3.45                       | 26.13                  | 446,688.10         | 618,601.52        |  |
| 601.00                        | 1.60       | 19.10                | 600.92        | 2.44             | 5.89          | 2.42          | 6.37                       | 22.31                  | 446,690.89         | 618,602.42        |  |
| 693.00                        | 1.80       | 288.50               | 692.89        | 1.50             | 7.56          | 1.47          | 7.70                       | 10.98                  | 446,692.56         | 618,601.47        |  |
| 784.00                        | 3.70       | 256.00               | 783.79        | -2.71            | 7.31          | -2.74         | 7.80                       | 339.46                 | 446,692.31         | 618,597.26        |  |
| 875.00                        | 3.80       | 248.30               | 874.59        | -8.37            | 5.48          | -8.39         | 10.02                      | 303.16                 | 446,690.48         | 618,591.61        |  |
| 971.00                        | 4.60       | 251.10               | 970.34        | -14.97           | 3.06          | -14.99        | 15.30                      | 281.53                 | 446,688.06         | 618,585.01        |  |
| 1,066.00                      | 4.80       | 254.20               | 1,065.02      | -22.41           | 0.74          | -22.42        | 22.43                      | 271.90                 | 446,685.74         | 618,577.58        |  |
| 1,161.00                      | 4.70       | 252.00               | 1,159.69      | -29.95           | -1.54         | -29.94        | 29.98                      | 267.05                 | 446,683.46         | 618,570.06        |  |
| 1,257.00                      | 4.30       | 253.80               | 1,255.39      | -37.15           | -3.76         | -37.14        | 37.33                      | 264.21                 | 446,681.24         | 618,562.86        |  |
| 1,352.00                      | 4.20       | 255.00               | 1,350.13      | -43.94           | -5.66         | -43.92        | 44.28                      | 262.66                 | 446,679.34         | 618,556.08        |  |
| 1,447.00                      | 4.40       | 263.20               | 1,444.87      | -50.92           | -6.99         | -50.90        | 51.37                      | 262.18                 | 446,678.01         | 618,549.10        |  |
| 1,543.00                      | 6.10       | 253.00               | 1,540.46      | -59.47           | -8.92         | -59.43        | 60.10                      | 261.47                 | 446,676.08         | 618,540.57        |  |
| 1,638.00                      | 5.90       | 255.00               | 1,634.94      | -69.02           | -11.66        | -68.98        | 69.95                      | 260.41                 | 446,673.34         | 618,531.02        |  |
| 1,733.00                      | 6.20       | 252.70               | 1,729.41      | -78.64           | -14.44        | -78.59        | 79.91                      | 259.59                 | 446,670.56         | 618,521.41        |  |
| 1,829.00                      | 3.50       | 253.80               | 1,825.06      | -86.42           | -16.80        | -86.35        | 87.97                      | 258.99                 | 446,668.20         | 618,513.65        |  |
| 1,923.00                      | 0.80       | 127.20               | 1,919.01      | -88.66           | -18.00        | -88.59        | 90.40                      | 258.51                 | 446,667.00         | 618,511.41        |  |
| 2,018.00                      | 0.80       | 197.60               | 2,014.00      | -88.33           | -19.04        | -88.26        | 90.29                      | 257.83                 | 446,665.96         | 618,511.74        |  |
| 2,114.00                      | 0.80       | 188.60               | 2,109.99      | -88.64           | -20.34        | -88.56        | 90.87                      | 257.07                 | 446,664.66         | 618,511.44        |  |
| 2,210.00                      | 1.50       | 202.80               | 2,205.97      | -89.24           | -22.16        | -89.15        | 91.86                      | 256.04                 | 446,662.84         | 618,510.85        |  |
| 2,305.00                      | 1.90       | 221.90               | 2,300.93      | -90.78           | -24.48        | -90.68        | 93.93                      | 254.90                 | 446,660.52         | 618,509.32        |  |
| 2,400.00                      | 1.20       | 193.10               | 2,395.89      | -92.06           | -26.62        | -91.96        | 95.74                      | 253.86                 | 446,658.38         | 618,508.04        |  |





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM(NAD 83)  
Site: Tom Matthews 10-24S-28E RB  
Well: No. 204H  
Wellbore: OH  
Design: MWD-173'-14162', Proj. 14226'

Local Co-ordinate Reference: Well No. 204H  
TVD Reference: Well @ 3044.50usft  
MD Reference: Well @ 3044.50usft  
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) |  |
| 2,495.00     | 1.50       | 193.70               | 2,490.87      | -92.59           | -28.79        | -92.48        | 96.86                      | 252.71                 | 446,656.21         | 618,507.52        |  |
| 2,590.00     | 1.30       | 201.50               | 2,585.84      | -93.29           | -31.00        | -93.17        | 98.19                      | 251.59                 | 446,654.00         | 618,506.83        |  |
| 2,664.00     | 1.30       | 201.20               | 2,659.82      | -93.91           | -32.57        | -93.78        | 99.28                      | 250.85                 | 446,652.43         | 618,506.22        |  |
| 2,775.00     | 1.10       | 220.20               | 2,770.80      | -95.06           | -34.56        | -94.93        | 101.02                     | 250.00                 | 446,650.44         | 618,505.07        |  |
| 2,871.00     | 3.20       | 267.40               | 2,866.73      | -98.33           | -35.38        | -98.20        | 104.38                     | 250.19                 | 446,649.62         | 618,501.80        |  |
| 2,966.00     | 3.30       | 266.90               | 2,961.58      | -103.71          | -35.65        | -103.58       | 109.54                     | 251.01                 | 446,649.35         | 618,496.42        |  |
| 3,062.00     | 3.20       | 269.90               | 3,057.42      | -109.15          | -35.80        | -109.01       | 114.74                     | 251.82                 | 446,649.20         | 618,490.99        |  |
| 3,157.00     | 3.10       | 270.30               | 3,152.28      | -114.37          | -35.80        | -114.24       | 119.71                     | 252.60                 | 446,649.20         | 618,485.76        |  |
| 3,253.00     | 3.30       | 267.70               | 3,248.13      | -119.73          | -35.89        | -119.59       | 124.86                     | 253.29                 | 446,649.11         | 618,480.41        |  |
| 3,348.00     | 3.00       | 270.50               | 3,342.99      | -124.95          | -35.98        | -124.81       | 129.89                     | 253.92                 | 446,649.02         | 618,475.19        |  |
| 3,443.00     | 2.50       | 271.40               | 3,437.88      | -129.50          | -35.91        | -129.37       | 134.26                     | 254.49                 | 446,649.09         | 618,470.63        |  |
| 3,538.00     | 2.40       | 272.00               | 3,532.79      | -133.56          | -35.79        | -133.43       | 138.14                     | 254.99                 | 446,649.21         | 618,466.57        |  |
| 3,633.00     | 2.40       | 271.90               | 3,627.71      | -137.54          | -35.65        | -137.40       | 141.95                     | 255.45                 | 446,649.35         | 618,462.60        |  |
| 3,728.00     | 2.50       | 270.70               | 3,722.62      | -141.60          | -35.56        | -141.46       | 145.86                     | 255.89                 | 446,649.44         | 618,458.54        |  |
| 3,823.00     | 1.40       | 191.80               | 3,817.58      | -143.91          | -36.67        | -143.77       | 148.37                     | 255.69                 | 446,648.33         | 618,456.23        |  |
| 3,919.00     | 1.40       | 177.60               | 3,913.55      | -144.11          | -38.99        | -143.96       | 149.15                     | 254.85                 | 446,646.01         | 618,456.04        |  |
| 4,014.00     | 1.30       | 182.40               | 4,008.52      | -144.12          | -41.23        | -143.96       | 149.75                     | 254.02                 | 446,643.77         | 618,456.04        |  |
| 4,109.00     | 1.20       | 189.50               | 4,103.50      | -144.33          | -43.29        | -144.17       | 150.53                     | 253.29                 | 446,641.71         | 618,455.83        |  |
| 4,204.00     | 1.20       | 188.60               | 4,198.48      | -144.65          | -45.25        | -144.48       | 151.40                     | 252.61                 | 446,639.75         | 618,455.52        |  |
| 4,300.00     | 1.10       | 184.80               | 4,294.46      | -144.89          | -47.16        | -144.71       | 152.20                     | 251.95                 | 446,637.84         | 618,455.29        |  |
| 4,395.00     | 1.20       | 178.40               | 4,389.44      | -144.94          | -49.07        | -144.76       | 152.85                     | 251.28                 | 446,635.93         | 618,455.24        |  |
| 4,491.00     | 1.10       | 180.40               | 4,485.42      | -144.93          | -50.99        | -144.73       | 153.45                     | 250.59                 | 446,634.01         | 618,455.27        |  |
| 4,586.00     | 1.10       | 182.60               | 4,580.40      | -144.98          | -52.82        | -144.78       | 154.12                     | 249.96                 | 446,632.18         | 618,455.22        |  |
| 4,681.00     | 1.40       | 185.80               | 4,675.38      | -145.15          | -54.88        | -144.94       | 154.98                     | 249.26                 | 446,630.12         | 618,455.06        |  |
| 4,776.00     | 1.60       | 188.60               | 4,770.35      | -145.48          | -57.35        | -145.26       | 156.17                     | 248.46                 | 446,627.65         | 618,454.74        |  |
| 4,872.00     | 1.30       | 192.10               | 4,866.32      | -145.91          | -59.74        | -145.69       | 157.46                     | 247.70                 | 446,625.26         | 618,454.31        |  |
| 4,967.00     | 1.00       | 23.70                | 4,961.31      | -145.81          | -60.03        | -145.58       | 157.47                     | 247.59                 | 446,624.97         | 618,454.42        |  |





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM(NAD 83)  
Site: Tom Matthews 10-24S-28E RB  
Well: No. 204H  
Wellbore: OH  
Design: MWD-173'-14162', Proj. 14226'

Local Co-ordinate Reference: Well No. 204H  
TVD Reference: Well @ 3044.50usft  
MD Reference: Well @ 3044.50usft  
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) |  |
| 5,062.00     | 1.30       | 8.40                 | 5,056.29      | -145.31          | -58.21        | -145.09       | 156.33                     | 248.14                 | 446,626.79         | 618,454.91        |  |
| 5,158.00     | 1.10       | 8.90                 | 5,152.27      | -145.00          | -56.22        | -144.79       | 155.32                     | 248.78                 | 446,628.78         | 618,455.21        |  |
| 5,253.00     | 1.20       | 342.30               | 5,247.25      | -145.16          | -54.37        | -144.95       | 154.81                     | 249.44                 | 446,630.63         | 618,455.05        |  |
| 5,348.00     | 0.90       | 330.90               | 5,342.23      | -145.81          | -52.77        | -145.61       | 154.88                     | 250.08                 | 446,632.23         | 618,454.39        |  |
| 5,443.00     | 0.90       | 321.20               | 5,437.22      | -146.64          | -51.54        | -146.44       | 155.25                     | 250.61                 | 446,633.46         | 618,453.56        |  |
| 5,538.00     | 0.70       | 303.00               | 5,532.21      | -147.59          | -50.64        | -147.40       | 155.85                     | 251.04                 | 446,634.36         | 618,452.60        |  |
| 5,633.00     | 0.50       | 291.10               | 5,627.21      | -148.46          | -50.17        | -148.27       | 156.53                     | 251.30                 | 446,634.83         | 618,451.73        |  |
| 5,729.00     | 0.40       | 244.60               | 5,723.21      | -149.16          | -50.17        | -148.96       | 157.18                     | 251.39                 | 446,634.83         | 618,451.04        |  |
| 5,824.00     | 0.60       | 237.00               | 5,818.20      | -149.87          | -50.58        | -149.68       | 158.00                     | 251.33                 | 446,634.42         | 618,450.32        |  |
| 5,919.00     | 1.90       | 108.80               | 5,913.19      | -148.80          | -51.36        | -148.61       | 157.23                     | 250.93                 | 446,633.64         | 618,451.39        |  |
| 6,014.00     | 2.10       | 115.50               | 6,008.13      | -145.75          | -52.62        | -145.55       | 154.76                     | 250.12                 | 446,632.38         | 618,454.45        |  |
| 6,110.00     | 1.70       | 131.20               | 6,104.08      | -143.09          | -54.31        | -142.89       | 152.86                     | 249.19                 | 446,630.69         | 618,457.11        |  |
| 6,205.00     | 1.10       | 148.60               | 6,199.05      | -141.56          | -56.02        | -141.35       | 152.05                     | 248.38                 | 446,628.98         | 618,458.65        |  |
| 6,301.00     | 1.00       | 127.10               | 6,295.03      | -140.42          | -57.31        | -140.20       | 151.46                     | 247.77                 | 446,627.69         | 618,459.80        |  |
| 6,396.00     | 1.00       | 132.20               | 6,390.02      | -139.15          | -58.37        | -138.93       | 150.69                     | 247.21                 | 446,626.63         | 618,461.07        |  |
| 6,492.00     | 1.40       | 168.10               | 6,486.00      | -138.29          | -60.08        | -138.06       | 150.57                     | 246.48                 | 446,624.92         | 618,461.94        |  |
| 6,587.00     | 1.30       | 164.10               | 6,580.97      | -137.77          | -62.25        | -137.53       | 150.96                     | 245.65                 | 446,622.75         | 618,462.47        |  |
| 6,682.00     | 1.10       | 148.50               | 6,675.95      | -137.00          | -64.06        | -136.76       | 151.02                     | 244.90                 | 446,620.94         | 618,463.24        |  |
| 6,778.00     | 2.30       | 138.90               | 6,771.91      | -135.26          | -66.30        | -135.01       | 150.41                     | 243.85                 | 446,618.70         | 618,464.99        |  |
| 6,873.00     | 1.90       | 140.40               | 6,866.84      | -133.02          | -68.95        | -132.75       | 149.59                     | 242.55                 | 446,616.05         | 618,467.25        |  |
| 6,968.00     | 1.80       | 133.60               | 6,961.79      | -130.94          | -71.19        | -130.67       | 148.80                     | 241.42                 | 446,613.81         | 618,469.33        |  |
| 7,063.00     | 0.90       | 138.90               | 7,056.77      | -129.38          | -72.78        | -129.10       | 148.20                     | 240.59                 | 446,612.22         | 618,470.90        |  |
| 7,158.00     | 1.00       | 231.80               | 7,151.76      | -129.54          | -73.86        | -129.26       | 148.87                     | 240.26                 | 446,611.14         | 618,470.74        |  |
| 7,253.00     | 1.10       | 247.50               | 7,246.74      | -131.04          | -74.72        | -130.75       | 150.60                     | 240.25                 | 446,610.28         | 618,469.25        |  |
| 7,349.00     | 1.20       | 291.00               | 7,342.72      | -132.83          | -74.71        | -132.54       | 152.15                     | 240.59                 | 446,610.29         | 618,467.46        |  |
| 7,444.00     | 2.00       | 292.00               | 7,437.69      | -135.29          | -73.73        | -135.01       | 153.83                     | 241.36                 | 446,611.27         | 618,464.99        |  |
| 7,539.00     | 0.10       | 72.30                | 7,532.67      | -136.75          | -73.09        | -136.47       | 154.81                     | 241.83                 | 446,611.91         | 618,463.53        |  |



# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM(NAD 83)  
Site: Tom Matthews 10-24S-28E RB  
Well: No. 204H  
Wellbore: OH  
Design: MWD-173'-14162', Proj. 14226'

Local Co-ordinate Reference: Well No. 204H  
TVD Reference: Well @ 3044.50usft  
MD Reference: Well @ 3044.50usft  
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) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 7,635.00     | 0.60       | 116.60               | 7,628.67      | -136.22          | -73.29        | -135.94       | 154.44                     | 241.67                 | 446,611.71         | 618,464.06        |
| 7,730.00     | 1.00       | 120.60               | 7,723.66      | -135.06          | -73.93        | -134.78       | 153.73                     | 241.25                 | 446,611.07         | 618,465.22        |
| 7,825.00     | 1.50       | 72.60                | 7,818.64      | -133.16          | -73.98        | -132.88       | 152.09                     | 240.89                 | 446,611.02         | 618,467.12        |
| 7,921.00     | 2.10       | 62.60                | 7,914.59      | -130.40          | -72.80        | -130.12       | 149.10                     | 240.77                 | 446,612.20         | 618,469.88        |
| 8,016.00     | 1.90       | 60.70                | 8,009.53      | -127.47          | -71.23        | -127.20       | 145.78                     | 240.75                 | 446,613.77         | 618,472.80        |
| 8,111.00     | 1.20       | 55.70                | 8,104.50      | -125.27          | -69.89        | -125.00       | 143.22                     | 240.79                 | 446,615.11         | 618,475.00        |
| 8,207.00     | 1.00       | 59.40                | 8,200.48      | -123.72          | -68.90        | -123.45       | 141.38                     | 240.83                 | 446,616.10         | 618,476.55        |
| 8,302.00     | 0.60       | 45.90                | 8,295.47      | -122.64          | -68.13        | -122.38       | 140.07                     | 240.89                 | 446,616.87         | 618,477.62        |
| 8,398.00     | 0.40       | 142.00               | 8,391.47      | -122.08          | -68.05        | -121.82       | 139.53                     | 240.81                 | 446,616.95         | 618,478.18        |
| 8,494.00     | 0.80       | 138.90               | 8,487.46      | -121.43          | -68.82        | -121.17       | 139.35                     | 240.41                 | 446,616.18         | 618,478.83        |
| 8,589.00     | 1.70       | 166.80               | 8,582.44      | -120.68          | -70.69        | -120.41       | 139.63                     | 239.58                 | 446,614.31         | 618,479.59        |
| 8,684.00     | 2.40       | 170.60               | 8,677.38      | -120.05          | -74.02        | -119.76       | 140.79                     | 238.28                 | 446,610.98         | 618,480.24        |
| 8,778.00     | 2.10       | 175.50               | 8,771.30      | -119.60          | -77.68        | -119.31       | 142.37                     | 236.93                 | 446,607.32         | 618,480.69        |
| 8,884.00     | 1.40       | 181.30               | 8,877.25      | -119.49          | -80.91        | -119.18       | 144.05                     | 235.83                 | 446,604.09         | 618,480.82        |
| 8,948.00     | 5.40       | 83.00                | 8,941.16      | -116.52          | -81.33        | -116.21       | 141.84                     | 235.01                 | 446,603.67         | 618,483.79        |
| 8,980.00     | 9.40       | 77.30                | 8,972.88      | -112.47          | -80.57        | -112.17       | 138.10                     | 234.31                 | 446,604.43         | 618,487.83        |
| 9,026.00     | 15.30      | 75.40                | 9,017.80      | -102.92          | -78.21        | -102.62       | 129.03                     | 232.69                 | 446,606.79         | 618,497.38        |
| 9,075.00     | 19.60      | 81.10                | 9,064.54      | -88.52           | -75.31        | -88.24        | 116.00                     | 229.52                 | 446,609.69         | 618,511.76        |
| 9,170.00     | 27.40      | 85.80                | 9,151.60      | -50.90           | -71.24        | -50.63        | 87.40                      | 215.40                 | 446,613.76         | 618,549.37        |
| 9,266.00     | 35.10      | 88.00                | 9,233.61      | -1.20            | -68.65        | -0.94         | 68.66                      | 180.79                 | 446,616.35         | 618,599.06        |
| 9,361.00     | 45.40      | 86.00                | 9,306.02      | 60.01            | -65.33        | 60.26         | 88.88                      | 137.31                 | 446,619.67         | 618,660.26        |
| 9,456.00     | 54.40      | 85.00                | 9,367.15      | 132.40           | -59.59        | 132.63        | 145.40                     | 114.20                 | 446,625.41         | 618,732.63        |
| 9,552.00     | 63.10      | 86.30                | 9,416.91      | 214.18           | -53.42        | 214.38        | 220.94                     | 103.99                 | 446,631.58         | 618,814.38        |
| 9,647.00     | 69.80      | 88.30                | 9,454.85      | 301.13           | -49.35        | 301.32        | 305.34                     | 99.30                  | 446,635.65         | 618,901.32        |
| 9,714.00     | 75.90      | 89.60                | 9,474.60      | 365.11           | -48.19        | 365.30        | 368.46                     | 97.52                  | 446,636.81         | 618,965.30        |
| 9,776.00     | 81.50      | 90.00                | 9,486.74      | 425.88           | -47.98        | 426.07        | 428.77                     | 96.43                  | 446,637.02         | 619,026.07        |
| 9,839.00     | 81.40      | 90.80                | 9,496.11      | 488.18           | -48.42        | 488.37        | 490.76                     | 95.66                  | 446,636.58         | 619,088.37        |





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM(NAD 83)  
Site: Tom Matthews 10-24S-28E RB  
Well: No. 204H  
Wellbore: OH  
Design: MWD-173'-14162', Proj. 14226'

Local Co-ordinate Reference: Well No. 204H  
TVD Reference: Well @ 3044.50usft  
MD Reference: Well @ 3044.50usft  
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) |
| 9,902.00     | 85.00      | 89.50                | 9,503.56      | 550.72           | -48.58        | 550.91        | 553.05                     | 95.04                  | 446,636.42         | 619,150.91        |
| 9,934.00     | 85.40      | 89.00                | 9,506.24      | 582.61           | -48.16        | 582.80        | 584.79                     | 94.72                  | 446,636.84         | 619,182.80        |
| 10,028.00    | 86.20      | 89.10                | 9,513.13      | 676.35           | -46.61        | 676.53        | 678.14                     | 93.94                  | 446,638.39         | 619,276.53        |
| 10,123.00    | 85.40      | 88.40                | 9,520.08      | 771.08           | -44.54        | 771.25        | 772.54                     | 93.31                  | 446,640.46         | 619,371.25        |
| 10,217.00    | 87.70      | 88.30                | 9,525.74      | 864.87           | -41.84        | 865.04        | 866.05                     | 92.77                  | 446,643.16         | 619,465.04        |
| 10,311.00    | 90.20      | 89.10                | 9,527.46      | 958.83           | -39.71        | 958.99        | 959.81                     | 92.37                  | 446,645.29         | 619,558.99        |
| 10,406.00    | 90.20      | 89.00                | 9,527.13      | 1,053.82         | -38.13        | 1,053.98      | 1,054.67                   | 92.07                  | 446,646.87         | 619,653.98        |
| 10,500.00    | 89.20      | 89.10                | 9,527.62      | 1,147.81         | -36.57        | 1,147.96      | 1,148.54                   | 91.82                  | 446,648.43         | 619,747.96        |
| 10,594.00    | 88.50      | 89.90                | 9,529.51      | 1,241.79         | -35.75        | 1,241.94      | 1,242.45                   | 91.65                  | 446,649.25         | 619,841.94        |
| 10,688.00    | 87.60      | 91.70                | 9,532.71      | 1,335.72         | -37.07        | 1,335.87      | 1,336.38                   | 91.59                  | 446,647.93         | 619,935.87        |
| 10,783.00    | 88.80      | 91.70                | 9,535.69      | 1,430.62         | -39.88        | 1,430.78      | 1,431.33                   | 91.60                  | 446,645.12         | 620,030.78        |
| 10,878.00    | 88.30      | 92.90                | 9,538.10      | 1,525.49         | -43.69        | 1,525.67      | 1,526.30                   | 91.64                  | 446,641.31         | 620,125.67        |
| 10,972.00    | 85.60      | 93.20                | 9,543.10      | 1,619.20         | -48.69        | 1,619.39      | 1,620.13                   | 91.72                  | 446,636.31         | 620,219.39        |
| 11,067.00    | 85.20      | 93.10                | 9,550.72      | 1,713.73         | -53.89        | 1,713.95      | 1,714.79                   | 91.80                  | 446,631.11         | 620,313.95        |
| 11,161.00    | 85.60      | 93.00                | 9,558.26      | 1,807.27         | -58.88        | 1,807.51      | 1,808.47                   | 91.87                  | 446,626.12         | 620,407.51        |
| 11,317.00    | 90.40      | 92.40                | 9,563.70      | 1,962.93         | -66.22        | 1,963.20      | 1,964.31                   | 91.93                  | 446,618.78         | 620,563.20        |
| 11,412.00    | 90.20      | 91.30                | 9,563.20      | 2,057.86         | -69.28        | 2,058.14      | 2,059.31                   | 91.93                  | 446,615.72         | 620,658.14        |
| 11,506.00    | 89.30      | 88.80                | 9,563.61      | 2,151.85         | -69.37        | 2,152.13      | 2,153.25                   | 91.85                  | 446,615.63         | 620,752.13        |
| 11,600.00    | 88.50      | 88.40                | 9,565.42      | 2,245.81         | -67.07        | 2,246.09      | 2,247.09                   | 91.71                  | 446,617.93         | 620,846.09        |
| 11,695.00    | 92.70      | 88.50                | 9,564.42      | 2,340.76         | -64.50        | 2,341.03      | 2,341.91                   | 91.58                  | 446,620.50         | 620,941.03        |
| 11,820.00    | 91.80      | 87.70                | 9,559.51      | 2,465.61         | -60.36        | 2,465.86      | 2,466.60                   | 91.40                  | 446,624.64         | 621,065.86        |
| 11,914.00    | 91.80      | 87.50                | 9,556.56      | 2,559.49         | -56.43        | 2,559.73      | 2,560.35                   | 91.26                  | 446,628.57         | 621,159.73        |
| 12,009.00    | 90.60      | 88.20                | 9,554.57      | 2,654.42         | -52.86        | 2,654.64      | 2,655.17                   | 91.14                  | 446,632.14         | 621,254.64        |
| 12,103.00    | 87.00      | 87.90                | 9,556.54      | 2,748.34         | -49.66        | 2,748.55      | 2,749.00                   | 91.04                  | 446,635.34         | 621,348.55        |
| 12,197.00    | 86.70      | 87.70                | 9,561.70      | 2,842.14         | -46.06        | 2,842.34      | 2,842.71                   | 90.93                  | 446,638.94         | 621,442.34        |
| 12,292.00    | 88.60      | 88.40                | 9,565.60      | 2,937.01         | -42.83        | 2,937.20      | 2,937.51                   | 90.84                  | 446,642.17         | 621,537.20        |
| 12,386.00    | 88.70      | 88.30                | 9,567.81      | 3,030.96         | -40.13        | 3,031.13      | 3,031.40                   | 90.76                  | 446,644.87         | 621,631.13        |





# ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM(NAD 83)  
Site: Tom Matthews 10-24S-28E RB  
Well: No. 204H  
Wellbore: OH  
Design: MWD-173'-14162', Proj. 14226'

Local Co-ordinate Reference: Well No. 204H  
TVD Reference: Well @ 3044.50usft  
MD Reference: Well @ 3044.50usft  
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) |  |
| 12,480.00              | 89.20      | 88.50                | 9,569.54      | 3,124.91         | -37.50        | 3,125.08      | 3,125.31                   | 90.69                  | 446,647.50         | 621,725.08        |  |
| 12,575.00              | 88.70      | 88.00                | 9,571.28      | 3,219.86         | -34.60        | 3,220.02      | 3,220.21                   | 90.62                  | 446,650.40         | 621,820.02        |  |
| 12,670.00              | 88.80      | 89.20                | 9,573.35      | 3,314.82         | -32.28        | 3,314.97      | 3,315.12                   | 90.56                  | 446,652.72         | 621,914.97        |  |
| 12,764.00              | 87.00      | 87.90                | 9,576.80      | 3,408.73         | -29.91        | 3,408.87      | 3,409.00                   | 90.50                  | 446,655.09         | 622,008.87        |  |
| 12,859.00              | 87.90      | 88.30                | 9,581.02      | 3,503.59         | -26.76        | 3,503.72      | 3,503.82                   | 90.44                  | 446,658.24         | 622,103.72        |  |
| 12,953.00              | 88.60      | 89.30                | 9,583.89      | 3,597.53         | -24.79        | 3,597.65      | 3,597.74                   | 90.39                  | 446,660.21         | 622,197.65        |  |
| 13,047.00              | 88.60      | 89.30                | 9,586.19      | 3,691.50         | -23.64        | 3,691.62      | 3,691.69                   | 90.37                  | 446,661.36         | 622,291.62        |  |
| 13,142.00              | 87.90      | 88.60                | 9,589.09      | 3,786.45         | -21.90        | 3,786.56      | 3,786.62                   | 90.33                  | 446,663.10         | 622,386.56        |  |
| 13,235.00              | 88.10      | 89.80                | 9,592.34      | 3,879.38         | -20.61        | 3,879.49      | 3,879.55                   | 90.30                  | 446,664.39         | 622,479.49        |  |
| 13,330.00              | 87.30      | 89.00                | 9,596.15      | 3,974.30         | -19.61        | 3,974.41      | 3,974.46                   | 90.28                  | 446,665.39         | 622,574.41        |  |
| 13,425.00              | 88.20      | 90.50                | 9,599.88      | 4,069.23         | -19.20        | 4,069.33      | 4,069.37                   | 90.27                  | 446,665.80         | 622,669.33        |  |
| 13,519.00              | 91.30      | 91.40                | 9,600.29      | 4,163.19         | -20.76        | 4,163.30      | 4,163.35                   | 90.29                  | 446,664.24         | 622,763.30        |  |
| 13,613.00              | 91.30      | 91.00                | 9,598.16      | 4,257.14         | -22.72        | 4,257.26      | 4,257.32                   | 90.31                  | 446,662.28         | 622,857.26        |  |
| 13,707.00              | 90.00      | 90.00                | 9,597.09      | 4,351.12         | -23.54        | 4,351.25      | 4,351.31                   | 90.31                  | 446,661.46         | 622,951.25        |  |
| 13,802.00              | 87.50      | 89.00                | 9,599.16      | 4,446.09         | -22.72        | 4,446.21      | 4,446.27                   | 90.29                  | 446,662.28         | 623,046.21        |  |
| 13,896.00              | 87.20      | 88.60                | 9,603.51      | 4,539.98         | -20.75        | 4,540.09      | 4,540.14                   | 90.26                  | 446,664.25         | 623,140.09        |  |
| 13,989.00              | 87.00      | 88.00                | 9,608.21      | 4,632.83         | -17.99        | 4,632.93      | 4,632.96                   | 90.22                  | 446,667.01         | 623,232.93        |  |
| 14,084.00              | 88.70      | 89.00                | 9,611.78      | 4,727.73         | -15.51        | 4,727.82      | 4,727.85                   | 90.19                  | 446,669.49         | 623,327.82        |  |
| 14,162.00              | 89.30      | 89.00                | 9,613.14      | 4,805.71         | -14.15        | 4,805.80      | 4,805.82                   | 90.17                  | 446,670.85         | 623,405.80        |  |
| Last Survey: 14162' MD |            |                      |               |                  |               |               |                            |                        |                    |                   |  |
| 14,226.00              | 89.30      | 89.00                | 9,613.92      | 4,869.70         | -13.03        | 4,869.79      | 4,869.80                   | 90.15                  | 446,671.97         | 623,469.79        |  |
| PTB: 14226' MD         |            |                      |               |                  |               |               |                            |                        |                    |                   |  |





# ProDirectional Survey Report



**Company:** Matador Resources  
**Project:** Eddy County, NM(NAD 83)  
**Site:** Tom Matthews 10-24S-28E RB  
**Well:** No. 204H  
**Wellbore:** OH  
**Design:** MWD-173'-14162', Proj. 14226'

**Local Co-ordinate Reference:** Well No. 204H  
**TVD Reference:** Well @ 3044.50usft  
**MD Reference:** Well @ 3044.50usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** WellPlanner1

## Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                       |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                               |
| 173.00                      | 173.00                      | -0.30             | 0.00            | Pro MWD First Survey: 173' MD |
| 14,162.00                   | 9,613.14                    | -14.15            | 4,805.80        | Last Survey: 14162' MD        |
| 14,226.00                   | 9,613.92                    | -13.03            | 4,869.79        | PTB: 14226' MD                |