



PRODIRECTIONAL

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DISTRICT 7 - ARTESIA O.C.D.



**General Kehoe 02-24S-28E RB No. 208H**  
**Eddy County, NM**

**May 14, 2019**

**Job No. LNM5208119**

**ORIGINAL**

**Certified Report**



**PRODIRECTIONAL**

## Survey Certification Letter

May 15, 2019



Operator Name: Matador Resources  
Well Name: General Kehoe 02-24S-28E RB No. 208H  
County/Parish: Eddy County,  
State: NM  
Rig Name: Patterson 297  
Job Number: LNM5208119

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 | 498' MD – 14,450' MD | 14,510' MD        | 04/18/19 – 04/30/19 | MWD-OWSG       |

Sincerely,

*Mike Coats*

Mike Coats  
Regulatory Specialist  
Professional Directional

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

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

*The Standard of Excellence in Directional Supervision*



# **Matador Resources**

**Eddy County, NM**

**General Kehoe 02-24S-28E RB**

**No. 208**

**OH**

**Survey: ProDirectional**

## **Survey Report**

**15 May, 2019**





ProDirectional  
Survey Report



|                                                                                                                                                                                                                                 |                                                                                                                                                                          |                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Company:</b> Matador Resources<br><b>Project:</b> Eddy County, NM (NAD 83)<br><b>Site:</b> General Kehoe 02-24S-28E RB<br><b>Well:</b> No. 208<br><b>Wellbore:</b> OH<br><b>Design:</b> Gyro-MWD-124.83'-14450', PTB: 14510' | <b>Local Co-ordinate Reference:</b><br><b>TVD Reference:</b><br><b>MD Reference:</b><br><b>North Reference:</b><br><b>Survey Calculation Method:</b><br><b>Database:</b> | <b>Well No. 208</b><br>Well @ 3009.50usft<br>Well @ 3009.50usft<br>Grid<br>Minimum Curvature<br>WellPlanner1 |
| <b>Project:</b> Eddy County, NM (NAD 83)                                                                                                                                                                                        |                                                                                                                                                                          |                                                                                                              |
| <b>Map System:</b> US State Plane 1983<br><b>Geo Datum:</b> North American Datum 1983<br><b>Map Zone:</b> New Mexico Eastern Zone                                                                                               | <b>System Datum:</b>                                                                                                                                                     | Mean Sea Level                                                                                               |
| <b>Site:</b> General Kehoe 02-24S-28E RB                                                                                                                                                                                        |                                                                                                                                                                          |                                                                                                              |
| <b>Site Position:</b><br><b>From:</b> Map<br><b>Position Uncertainty:</b> 0.00 usft                                                                                                                                             | <b>Northing:</b> 456,137.00 usft<br><b>Easting:</b> 628,716.00 usft<br><b>Slot Radius:</b> 13-3/16 "                                                                     | <b>Latitude:</b> 32.253680<br><b>Longitude:</b> -104.050676<br><b>Grid Convergence:</b> 0.15 °               |
| <b>Well:</b> No. 208                                                                                                                                                                                                            |                                                                                                                                                                          |                                                                                                              |
| <b>Well Position</b><br>+N-S 0.00 usft<br>+E-W 0.00 usft<br><b>Position Uncertainty</b> 0.00 usft                                                                                                                               | <b>Northing:</b> 456,137.00 usft<br><b>Easting:</b> 628,746.00 usft<br><b>Wellhead Elevation:</b> usft                                                                   | <b>Latitude:</b> 32.253680<br><b>Longitude:</b> -104.050579<br><b>Ground Level:</b> 2,981.00 usft            |
| <b>Wellbore:</b> OH                                                                                                                                                                                                             |                                                                                                                                                                          |                                                                                                              |
| <b>Magnetics</b>                                                                                                                                                                                                                | <b>Model Name</b><br>HDGM                                                                                                                                                | <b>Sample Date</b><br>4/20/2019                                                                              |
|                                                                                                                                                                                                                                 | <b>Declination</b><br>(°)<br>7.10                                                                                                                                        | <b>Dip Angle</b><br>(°)<br>60.00                                                                             |
|                                                                                                                                                                                                                                 |                                                                                                                                                                          | <b>Field Strength</b><br>(nT)<br>47,914.20                                                                   |
| <b>Design:</b> Gyro-MWD-124.83'-14450', PTB: 14510'                                                                                                                                                                             |                                                                                                                                                                          |                                                                                                              |
| <b>Audit Notes:</b>                                                                                                                                                                                                             |                                                                                                                                                                          |                                                                                                              |
| <b>Version:</b> 1.0                                                                                                                                                                                                             | <b>Phase:</b> ACTUAL                                                                                                                                                     | <b>Tie On Depth:</b> 0.00                                                                                    |
| <b>Vertical Section:</b>                                                                                                                                                                                                        | <b>Depth From (TVD)</b><br>(usft)<br>0.00                                                                                                                                | <b>+N/-S</b><br>(usft)<br>0.00                                                                               |
|                                                                                                                                                                                                                                 | <b>+E/-W</b><br>(usft)<br>0.00                                                                                                                                           | <b>Direction</b><br>(°)<br>180.12                                                                            |



# ProDirectional Survey Report



|           |                                      |                              |                    |
|-----------|--------------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources                    | Local Co-ordinate Reference: | Well No. 208       |
| Project:  | Eddy County, NM (NAD 83)             | TVD Reference:               | Well @ 3009.50usft |
| Site:     | General Kehoe 02-24S-28E RB          | MD Reference:                | Well @ 3009.50usft |
| Well:     | No. 208                              | North Reference:             | Grid               |
| Wellbore: | OH                                   | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | Gyro-MWD-124.83'-14450', PTB: 14510' | Database:                    | WellPlanner1       |

| Survey Program |           | Date              | 5/15/2019  |                                  |  |
|----------------|-----------|-------------------|------------|----------------------------------|--|
| From (usft)    | To (usft) | Survey (Wellbore) | Tool Name  | Description                      |  |
| 124.83         | 402.00    | Survey #1 (OH)    | NS-GYRO-MS | North sensing gyrocompassing m/s |  |
| 498.00         | 14,510.00 | Survey #2 (OH)    | MWD+HDGM   | OWSG MWD + HRGM                  |  |

| 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                   | 456,137.00         | 628,746.00        |  |
| 124.83                        | 0.48       | 289.07               | 124.83        | -0.17            | 0.17          | -0.49         | 0.52                       | 289.07                 | 456,137.17         | 628,745.51        |  |
| 217.00                        | 0.61       | 298.65               | 216.99        | -0.53            | 0.53          | -1.29         | 1.40                       | 292.43                 | 456,137.53         | 628,744.71        |  |
| 309.61                        | 0.63       | 273.32               | 309.60        | -0.79            | 0.80          | -2.23         | 2.37                       | 289.69                 | 456,137.80         | 628,743.77        |  |
| 402.00                        | 0.77       | 266.96               | 401.98        | -0.79            | 0.79          | -3.36         | 3.45                       | 283.31                 | 456,137.79         | 628,742.64        |  |
| 498.00                        | 1.00       | 219.00               | 497.97        | -0.10            | 0.11          | -4.53         | 4.53                       | 271.38                 | 456,137.11         | 628,741.47        |  |
| Pro MWD First Survey: 498' MD |            |                      |               |                  |               |               |                            |                        |                    |                   |  |
| 588.00                        | 0.90       | 231.80               | 587.96        | 0.95             | -0.94         | -5.58         | 5.66                       | 260.45                 | 456,136.06         | 628,740.42        |  |
| 679.00                        | 0.90       | 239.90               | 678.95        | 1.75             | -1.74         | -6.76         | 6.98                       | 255.57                 | 456,135.26         | 628,739.24        |  |
| 770.00                        | 1.00       | 233.40               | 769.94        | 2.59             | -2.57         | -8.01         | 8.42                       | 252.22                 | 456,134.43         | 628,737.99        |  |
| 860.00                        | 1.30       | 229.10               | 859.92        | 3.73             | -3.71         | -9.42         | 10.12                      | 248.51                 | 456,133.29         | 628,736.58        |  |
| 951.00                        | 1.70       | 314.90               | 950.90        | 3.45             | -3.43         | -11.15        | 11.67                      | 252.90                 | 456,133.57         | 628,734.85        |  |
| 1,041.00                      | 1.60       | 305.30               | 1,040.86      | 1.79             | -1.76         | -13.12        | 13.24                      | 262.35                 | 456,135.24         | 628,732.88        |  |
| 1,132.00                      | 1.30       | 320.70               | 1,131.83      | 0.26             | -0.23         | -14.81        | 14.82                      | 269.12                 | 456,136.77         | 628,731.19        |  |
| 1,222.00                      | 1.60       | 19.00                | 1,221.81      | -1.72            | 1.75          | -15.05        | 15.15                      | 276.63                 | 456,138.75         | 628,730.95        |  |
| 1,313.00                      | 1.40       | 13.50                | 1,312.77      | -4.00            | 4.03          | -14.38        | 14.93                      | 285.66                 | 456,141.03         | 628,731.62        |  |
| 1,404.00                      | 1.50       | 10.50                | 1,403.75      | -6.25            | 6.28          | -13.90        | 15.26                      | 294.32                 | 456,143.28         | 628,732.10        |  |
| 1,498.00                      | 1.50       | 4.80                 | 1,497.71      | -8.69            | 8.72          | -13.58        | 16.13                      | 302.71                 | 456,145.72         | 628,732.42        |  |
| 1,591.00                      | 1.50       | 3.20                 | 1,590.68      | -11.12           | 11.15         | -13.41        | 17.44                      | 309.75                 | 456,148.15         | 628,732.59        |  |
| 1,684.00                      | 1.40       | 7.60                 | 1,683.65      | -13.46           | 13.49         | -13.19        | 18.86                      | 315.65                 | 456,150.49         | 628,732.81        |  |
| 1,778.00                      | 1.30       | 11.30                | 1,777.63      | -15.65           | 15.67         | -12.83        | 20.25                      | 320.70                 | 456,152.67         | 628,733.17        |  |



# ProDirectional Survey Report



|           |                                      |                              |                    |
|-----------|--------------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources                    | Local Co-ordinate Reference: | Well No. 208       |
| Project:  | Eddy County, NM (NAD 83)             | TVD Reference:               | Well @ 3009.50usft |
| Site:     | General Kehoe 02-24S-28E RB          | MD Reference:                | Well @ 3009.50usft |
| Well:     | No. 208                              | North Reference:             | Grid               |
| Wellbore: | OH                                   | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | Gyro-MWD-124.83'-14450', PTB: 14510' | 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) |  |  |
| 1,871.00     | 1.10       | 48.10                | 1,870.61      | -17.28           | 17.30         | -11.96        | 21.03                      | 325.36                 | 456,154.30         | 628,734.04        |  |  |
| 1,965.00     | 1.40       | 77.50                | 1,964.58      | -18.13           | 18.15         | -10.16        | 20.81                      | 330.76                 | 456,155.15         | 628,735.84        |  |  |
| 2,058.00     | 1.50       | 85.60                | 2,057.55      | -18.48           | 18.49         | -7.84         | 20.09                      | 337.03                 | 456,155.49         | 628,738.16        |  |  |
| 2,152.00     | 2.10       | 102.80               | 2,151.51      | -18.20           | 18.21         | -4.93         | 18.86                      | 344.84                 | 456,155.21         | 628,741.07        |  |  |
| 2,245.00     | 3.00       | 104.70               | 2,244.42      | -17.21           | 17.21         | -0.92         | 17.24                      | 356.95                 | 456,154.21         | 628,745.08        |  |  |
| 2,338.00     | 3.70       | 102.80               | 2,337.26      | -15.94           | 15.93         | 4.36          | 16.52                      | 15.31                  | 456,152.93         | 628,750.36        |  |  |
| 2,432.00     | 4.10       | 91.30                | 2,431.04      | -15.20           | 15.18         | 10.68         | 18.56                      | 35.12                  | 456,152.18         | 628,756.68        |  |  |
| 2,525.00     | 3.80       | 82.60                | 2,523.82      | -15.54           | 15.50         | 17.06         | 23.05                      | 47.74                  | 456,152.50         | 628,763.06        |  |  |
| 2,619.00     | 3.70       | 21.80                | 2,617.65      | -18.77           | 18.72         | 21.28         | 28.34                      | 48.65                  | 456,155.72         | 628,767.28        |  |  |
| 2,686.00     | 3.30       | 24.60                | 2,684.53      | -22.53           | 22.48         | 22.88         | 32.08                      | 45.50                  | 456,159.48         | 628,768.88        |  |  |
| 2,812.00     | 3.50       | 30.40                | 2,810.31      | -29.15           | 29.10         | 26.34         | 39.25                      | 42.15                  | 456,166.10         | 628,772.34        |  |  |
| 2,906.00     | 4.20       | 9.50                 | 2,904.10      | -35.03           | 34.97         | 28.36         | 45.02                      | 39.04                  | 456,171.97         | 628,774.36        |  |  |
| 2,999.00     | 4.00       | 349.50               | 2,996.86      | -41.57           | 41.52         | 28.33         | 50.26                      | 34.31                  | 456,178.52         | 628,774.33        |  |  |
| 3,092.00     | 4.50       | 335.70               | 3,089.61      | -48.08           | 48.03         | 26.24         | 54.73                      | 28.65                  | 456,185.03         | 628,772.24        |  |  |
| 3,186.00     | 4.80       | 329.30               | 3,183.30      | -54.82           | 54.77         | 22.71         | 59.29                      | 22.52                  | 456,191.77         | 628,768.71        |  |  |
| 3,279.00     | 5.00       | 328.50               | 3,275.96      | -61.61           | 61.57         | 18.61         | 64.32                      | 16.81                  | 456,198.57         | 628,764.61        |  |  |
| 3,372.00     | 5.10       | 327.90               | 3,368.60      | -68.56           | 68.53         | 14.29         | 70.01                      | 11.78                  | 456,205.53         | 628,760.29        |  |  |
| 3,465.00     | 4.60       | 324.80               | 3,461.27      | -75.10           | 75.08         | 9.95          | 75.74                      | 7.55                   | 456,212.08         | 628,755.95        |  |  |
| 3,558.00     | 4.60       | 324.80               | 3,553.97      | -81.19           | 81.17         | 5.65          | 81.37                      | 3.98                   | 456,218.17         | 628,751.65        |  |  |
| 3,652.00     | 5.10       | 330.90               | 3,647.63      | -87.91           | 87.91         | 1.44          | 87.92                      | 0.94                   | 456,224.91         | 628,747.44        |  |  |
| 3,745.00     | 5.40       | 329.30               | 3,740.24      | -95.27           | 95.28         | -2.80         | 95.32                      | 358.32                 | 456,232.28         | 628,743.20        |  |  |
| 3,838.00     | 5.70       | 329.20               | 3,832.81      | -102.99          | 103.01        | -7.40         | 103.28                     | 355.89                 | 456,240.01         | 628,738.60        |  |  |
| 3,932.00     | 5.80       | 327.60               | 3,926.33      | -111.00          | 111.03        | -12.34        | 111.71                     | 353.66                 | 456,248.03         | 628,733.66        |  |  |
| 4,025.00     | 5.70       | 328.00               | 4,018.87      | -118.88          | 118.91        | -17.30        | 120.17                     | 351.72                 | 456,255.91         | 628,728.70        |  |  |
| 4,118.00     | 5.40       | 327.70               | 4,111.43      | -126.48          | 126.53        | -22.09        | 128.44                     | 350.10                 | 456,263.53         | 628,723.91        |  |  |
| 4,211.00     | 4.40       | 326.80               | 4,204.09      | -133.16          | 133.21        | -26.38        | 135.80                     | 348.80                 | 456,270.21         | 628,719.62        |  |  |
| 4,305.00     | 4.10       | 327.90               | 4,297.83      | -139.01          | 139.08        | -30.14        | 142.31                     | 347.77                 | 456,276.08         | 628,715.86        |  |  |



ProDirectional  
Survey Report



|           |                                      |                              |                    |
|-----------|--------------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources                    | Local Co-ordinate Reference: | Well No. 208       |
| Project:  | Eddy County, NM (NAD 83)             | TVD Reference:               | Well @ 3009.50usft |
| Site:     | General Kehoe 02-24S-28E RB          | MD Reference:                | Well @ 3009.50usft |
| Well:     | No. 208                              | North Reference:             | Grid               |
| Wellbore: | OH                                   | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | Gyro-MWD-124.83'-14450', PTB: 14510' | 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) |  |
| 4,398.00     | 3.30       | 327.60               | 4,390.63      | -144.08         | 144.15        | -33.34        | 147.96                     | 346.98                 | 456,281.15         | 628,712.66        |  |
| 4,492.00     | 2.60       | 327.60               | 4,484.51      | -148.16         | 148.24        | -35.93        | 152.53                     | 346.37                 | 456,285.24         | 628,710.07        |  |
| 4,585.00     | 2.70       | 325.60               | 4,577.41      | -151.75         | 151.83        | -38.30        | 156.58                     | 345.84                 | 456,288.83         | 628,707.70        |  |
| 4,678.00     | 2.70       | 320.60               | 4,670.31      | -155.24         | 155.33        | -40.93        | 160.63                     | 345.24                 | 456,292.33         | 628,705.07        |  |
| 4,772.00     | 2.30       | 316.30               | 4,764.22      | -158.31         | 158.40        | -43.64        | 164.30                     | 344.60                 | 456,295.40         | 628,702.36        |  |
| 4,865.00     | 2.30       | 308.20               | 4,857.14      | -160.81         | 160.90        | -46.39        | 167.46                     | 343.92                 | 456,297.90         | 628,699.61        |  |
| 4,959.00     | 2.00       | 304.30               | 4,951.08      | -162.89         | 163.00        | -49.23        | 170.27                     | 343.19                 | 456,300.00         | 628,696.77        |  |
| 5,052.00     | 1.90       | 302.50               | 5,044.02      | -164.63         | 164.74        | -51.87        | 172.71                     | 342.52                 | 456,301.74         | 628,694.13        |  |
| 5,145.00     | 1.70       | 304.40               | 5,136.98      | -166.23         | 166.35        | -54.31        | 174.99                     | 341.92                 | 456,303.35         | 628,691.69        |  |
| 5,239.00     | 1.60       | 303.70               | 5,230.94      | -167.74         | 167.86        | -56.55        | 177.13                     | 341.38                 | 456,304.86         | 628,689.45        |  |
| 5,332.00     | 1.50       | 306.10               | 5,323.90      | -169.18         | 169.30        | -58.62        | 179.16                     | 340.90                 | 456,306.30         | 628,687.38        |  |
| 5,426.00     | 1.30       | 297.40               | 5,417.88      | -170.39         | 170.51        | -60.56        | 180.95                     | 340.45                 | 456,307.51         | 628,685.44        |  |
| 5,519.00     | 0.60       | 314.60               | 5,510.86      | -171.21         | 171.34        | -61.84        | 182.16                     | 340.15                 | 456,308.34         | 628,684.16        |  |
| 5,613.00     | 0.30       | 21.10                | 5,604.86      | -171.79         | 171.92        | -62.10        | 182.79                     | 340.14                 | 456,308.92         | 628,683.90        |  |
| 5,706.00     | 0.30       | 16.10                | 5,697.86      | -172.25         | 172.38        | -61.95        | 183.17                     | 340.23                 | 456,309.38         | 628,684.05        |  |
| 5,800.00     | 0.30       | 50.50                | 5,791.86      | -172.64         | 172.77        | -61.69        | 183.45                     | 340.35                 | 456,309.77         | 628,684.31        |  |
| 5,893.00     | 0.10       | 151.00               | 5,884.86      | -172.73         | 172.86        | -61.46        | 183.46                     | 340.43                 | 456,309.86         | 628,684.54        |  |
| 5,987.00     | 0.30       | 197.80               | 5,978.86      | -172.42         | 172.55        | -61.50        | 183.18                     | 340.38                 | 456,309.55         | 628,684.50        |  |
| 6,081.00     | 0.40       | 207.10               | 6,072.86      | -171.89         | 172.02        | -61.72        | 182.76                     | 340.26                 | 456,309.02         | 628,684.28        |  |
| 6,174.00     | 0.60       | 197.80               | 6,165.85      | -171.14         | 171.27        | -62.02        | 182.15                     | 340.09                 | 456,308.27         | 628,683.98        |  |
| 6,268.00     | 0.80       | 196.10               | 6,259.84      | -170.04         | 170.17        | -62.35        | 181.23                     | 339.88                 | 456,307.17         | 628,683.65        |  |
| 6,361.00     | 0.70       | 218.50               | 6,352.84      | -168.97         | 169.10        | -62.88        | 180.42                     | 339.60                 | 456,306.10         | 628,683.12        |  |
| 6,455.00     | 0.80       | 243.90               | 6,446.83      | -168.23         | 168.36        | -63.83        | 180.06                     | 339.24                 | 456,305.36         | 628,682.17        |  |
| 6,549.00     | 1.00       | 259.50               | 6,540.82      | -167.79         | 167.93        | -65.23        | 180.15                     | 338.77                 | 456,304.93         | 628,680.77        |  |
| 6,643.00     | 1.10       | 258.80               | 6,634.80      | -167.46         | 167.60        | -66.92        | 180.47                     | 338.23                 | 456,304.60         | 628,679.08        |  |
| 6,736.00     | 0.80       | 285.10               | 6,727.79      | -167.45         | 167.60        | -68.42        | 181.03                     | 337.79                 | 456,304.60         | 628,677.58        |  |
| 6,829.00     | 1.20       | 335.10               | 6,820.78      | -168.50         | 168.65        | -69.46        | 182.39                     | 337.62                 | 456,305.65         | 628,676.54        |  |



# ProDirectional Survey Report



|           |                                      |                              |                    |
|-----------|--------------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources                    | Local Co-ordinate Reference: | Well No. 208       |
| Project:  | Eddy County, NM (NAD 83)             | TVD Reference:               | Well @ 3009.50usft |
| Site:     | General Kehoe 02-24S-28E RB          | MD Reference:                | Well @ 3009.50usft |
| Well:     | No. 208                              | North Reference:             | Grid               |
| Wellbore: | OH                                   | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | Gyro-MWD-124.83'-14450', PTB: 14510' | 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) |  |
| 6,923.00     | 2.00       | 328.20               | 6,914.74      | -170.79          | 170.94        | -70.74        | 184.99                     | 337.52                 | 456,307.94         | 628,675.26        |  |
| 7,017.00     | 3.30       | 313.60               | 7,008.64      | -174.04          | 174.20        | -73.56        | 189.09                     | 337.11                 | 456,311.20         | 628,672.44        |  |
| 7,110.00     | 3.00       | 314.00               | 7,101.50      | -177.57          | 177.73        | -77.25        | 193.80                     | 336.51                 | 456,314.73         | 628,668.75        |  |
| 7,204.00     | 3.10       | 307.00               | 7,195.36      | -180.80          | 180.97        | -81.05        | 198.29                     | 335.87                 | 456,317.97         | 628,664.95        |  |
| 7,297.00     | 3.10       | 303.80               | 7,288.23      | -183.71          | 183.88        | -85.15        | 202.64                     | 335.15                 | 456,320.88         | 628,660.85        |  |
| 7,391.00     | 2.40       | 287.10               | 7,382.12      | -185.69          | 185.88        | -89.14        | 206.15                     | 334.38                 | 456,322.88         | 628,656.86        |  |
| 7,484.00     | 1.70       | 272.40               | 7,475.06      | -186.31          | 186.51        | -92.38        | 208.13                     | 333.65                 | 456,323.51         | 628,653.62        |  |
| 7,578.00     | 1.40       | 257.10               | 7,569.03      | -186.11          | 186.31        | -94.89        | 209.08                     | 333.01                 | 456,323.31         | 628,651.11        |  |
| 7,671.00     | 1.20       | 226.90               | 7,662.00      | -185.19          | 185.39        | -96.71        | 209.10                     | 332.45                 | 456,322.39         | 628,649.29        |  |
| 7,765.00     | 1.70       | 221.40               | 7,755.97      | -183.47          | 183.67        | -98.35        | 208.35                     | 331.83                 | 456,320.67         | 628,647.65        |  |
| 7,859.00     | 2.00       | 193.40               | 7,849.93      | -180.82          | 181.03        | -99.65        | 206.65                     | 331.17                 | 456,318.03         | 628,646.35        |  |
| 7,952.00     | 2.30       | 202.50               | 7,942.86      | -177.52          | 177.73        | -100.74       | 204.29                     | 330.45                 | 456,314.73         | 628,645.26        |  |
| 8,046.00     | 2.50       | 203.00               | 8,036.78      | -173.88          | 174.10        | -102.27       | 201.91                     | 329.57                 | 456,311.10         | 628,643.73        |  |
| 8,140.00     | 3.10       | 211.90               | 8,130.67      | -169.83          | 170.05        | -104.41       | 199.55                     | 328.45                 | 456,307.05         | 628,641.59        |  |
| 8,233.00     | 2.50       | 201.40               | 8,223.56      | -165.81          | 166.03        | -106.48       | 197.24                     | 327.33                 | 456,303.03         | 628,639.52        |  |
| 8,327.00     | 2.20       | 191.60               | 8,317.48      | -162.13          | 162.35        | -107.59       | 194.77                     | 326.47                 | 456,299.35         | 628,638.41        |  |
| 8,420.00     | 1.90       | 184.80               | 8,410.42      | -158.84          | 159.07        | -108.08       | 192.31                     | 325.81                 | 456,296.07         | 628,637.92        |  |
| 8,515.00     | 0.80       | 160.00               | 8,505.39      | -156.65          | 156.88        | -107.98       | 190.45                     | 325.46                 | 456,293.88         | 628,638.02        |  |
| 8,607.00     | 0.80       | 147.70               | 8,597.38      | -155.50          | 155.73        | -107.42       | 189.18                     | 325.40                 | 456,292.73         | 628,638.58        |  |
| 8,701.00     | 0.80       | 169.60               | 8,691.37      | -154.30          | 154.53        | -106.95       | 187.93                     | 325.31                 | 456,291.53         | 628,639.05        |  |
| 8,795.00     | 0.80       | 224.20               | 8,785.36      | -153.19          | 153.41        | -107.29       | 187.21                     | 325.03                 | 456,290.41         | 628,638.71        |  |
| 8,888.00     | 1.10       | 209.40               | 8,878.35      | -151.94          | 152.17        | -108.18       | 186.71                     | 324.59                 | 456,289.17         | 628,637.82        |  |
| 8,982.00     | 1.20       | 238.70               | 8,972.33      | -150.64          | 150.87        | -109.46       | 186.40                     | 324.04                 | 456,287.87         | 628,636.54        |  |
| 9,075.00     | 1.50       | 245.60               | 9,065.31      | -149.63          | 149.86        | -111.41       | 186.74                     | 323.37                 | 456,286.86         | 628,634.59        |  |
| 9,138.00     | 1.50       | 243.30               | 9,128.29      | -148.92          | 149.15        | -112.89       | 187.06                     | 322.88                 | 456,286.15         | 628,633.11        |  |
| 9,222.00     | 2.30       | 147.60               | 9,212.26      | -147.00          | 147.24        | -112.97       | 185.58                     | 322.50                 | 456,284.24         | 628,633.03        |  |
| 9,270.00     | 8.60       | 137.50               | 9,260.02      | -143.54          | 143.77        | -110.03       | 181.04                     | 322.57                 | 456,280.77         | 628,635.97        |  |



ProDirectional  
Survey Report



|           |                                      |                              |                    |
|-----------|--------------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources                    | Local Co-ordinate Reference: | Well No. 208       |
| Project:  | Eddy County, NM (NAD 83)             | TVD Reference:               | Well @ 3009.50usft |
| Site:     | General Kehoe 02-24S-28E RB          | MD Reference:                | Well @ 3009.50usft |
| Well:     | No. 208                              | North Reference:             | Grid               |
| Wellbore: | OH                                   | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | Gyro-MWD-124.83'-14450', PTB: 14510' | 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) |  |
| 9,316.00     | 16.00      | 143.30               | 9,304.93      | -135.92          | 136.14        | -103.91       | 171.26                     | 322.65                 | 456,273.14         | 628,642.09        |  |
| 9,363.00     | 22.70      | 148.70               | 9,349.25      | -122.98          | 123.18        | -95.31        | 155.75                     | 322.27                 | 456,260.18         | 628,650.69        |  |
| 9,410.00     | 29.90      | 155.20               | 9,391.37      | -104.59          | 104.77        | -85.67        | 135.34                     | 320.73                 | 456,241.77         | 628,660.33        |  |
| 9,457.00     | 35.40      | 162.10               | 9,430.94      | -81.00           | 81.16         | -76.57        | 111.58                     | 316.67                 | 456,218.16         | 628,669.43        |  |
| 9,503.00     | 41.40      | 167.80               | 9,466.99      | -53.43           | 53.58         | -69.25        | 87.56                      | 307.73                 | 456,190.58         | 628,676.75        |  |
| 9,551.00     | 46.20      | 173.90               | 9,501.64      | -20.67           | 20.81         | -64.05        | 67.34                      | 288.00                 | 456,157.81         | 628,681.95        |  |
| 9,644.00     | 54.20      | 179.50               | 9,561.15      | 50.55            | -50.43        | -60.14        | 78.49                      | 230.02                 | 456,086.57         | 628,685.86        |  |
| 9,738.00     | 61.50      | 175.50               | 9,611.15      | 129.97           | -129.85       | -56.57        | 141.64                     | 203.54                 | 456,007.15         | 628,689.43        |  |
| 9,811.00     | 67.70      | 171.30               | 9,642.46      | 195.40           | -195.30       | -48.93        | 201.34                     | 194.07                 | 455,941.70         | 628,697.07        |  |
| 9,903.00     | 72.00      | 175.30               | 9,674.15      | 281.12           | -281.04       | -38.90        | 283.72                     | 187.88                 | 455,855.96         | 628,707.10        |  |
| 9,951.00     | 75.70      | 180.40               | 9,687.51      | 327.17           | -327.09       | -37.19        | 329.20                     | 186.49                 | 455,809.91         | 628,708.81        |  |
| 9,998.00     | 79.80      | 184.00               | 9,697.48      | 373.05           | -372.97       | -38.96        | 375.00                     | 185.96                 | 455,764.03         | 628,707.04        |  |
| 10,046.00    | 84.30      | 185.10               | 9,704.12      | 420.43           | -420.34       | -42.74        | 422.51                     | 185.81                 | 455,716.66         | 628,703.26        |  |
| 10,093.00    | 88.90      | 185.50               | 9,706.91      | 467.14           | -467.05       | -47.07        | 469.41                     | 185.75                 | 455,669.95         | 628,698.93        |  |
| 10,140.00    | 91.00      | 185.60               | 9,706.95      | 513.93           | -513.82       | -51.61        | 516.41                     | 185.74                 | 455,623.18         | 628,694.39        |  |
| 10,235.00    | 89.90      | 184.80               | 9,706.20      | 608.55           | -608.43       | -60.22        | 611.40                     | 185.65                 | 455,528.57         | 628,685.78        |  |
| 10,330.00    | 89.30      | 185.10               | 9,706.86      | 703.21           | -703.07       | -68.42        | 706.39                     | 185.56                 | 455,433.93         | 628,677.58        |  |
| 10,424.00    | 90.10      | 183.50               | 9,707.36      | 796.96           | -796.80       | -75.47        | 800.37                     | 185.41                 | 455,340.20         | 628,670.53        |  |
| 10,519.00    | 89.40      | 182.10               | 9,707.77      | 891.85           | -891.68       | -80.11        | 895.28                     | 185.13                 | 455,245.32         | 628,665.89        |  |
| 10,614.00    | 86.10      | 182.50               | 9,711.50      | 986.69           | -986.52       | -83.92        | 990.08                     | 184.86                 | 455,150.48         | 628,662.08        |  |
| 10,708.00    | 87.00      | 179.70               | 9,717.16      | 1,080.50         | -1,080.32     | -85.72        | 1,083.72                   | 184.54                 | 455,056.68         | 628,660.28        |  |
| 10,803.00    | 88.70      | 180.00               | 9,720.72      | 1,175.43         | -1,175.25     | -85.47        | 1,178.36                   | 184.16                 | 454,961.75         | 628,660.53        |  |
| 10,898.00    | 92.20      | 181.20               | 9,719.98      | 1,270.41         | -1,270.23     | -86.46        | 1,273.17                   | 183.89                 | 454,866.77         | 628,659.54        |  |
| 10,993.00    | 89.30      | 179.90               | 9,718.73      | 1,365.38         | -1,365.20     | -87.38        | 1,368.00                   | 183.66                 | 454,771.80         | 628,658.62        |  |
| 11,087.00    | 87.50      | 178.80               | 9,721.36      | 1,459.33         | -1,459.15     | -86.31        | 1,461.71                   | 183.39                 | 454,677.85         | 628,659.69        |  |
| 11,182.00    | 90.20      | 180.10               | 9,723.26      | 1,554.30         | -1,554.12     | -85.40        | 1,556.46                   | 183.15                 | 454,582.88         | 628,660.60        |  |
| 11,276.00    | 90.90      | 180.40               | 9,722.36      | 1,648.29         | -1,648.11     | -85.81        | 1,650.35                   | 182.98                 | 454,488.89         | 628,660.19        |  |



# ProDirectional Survey Report



|           |                                      |                              |                    |
|-----------|--------------------------------------|------------------------------|--------------------|
| Company:  | Matador Resources                    | Local Co-ordinate Reference: | Well No. 208       |
| Project:  | Eddy County, NM (NAD 83)             | TVD Reference:               | Well @ 3009.50usft |
| Site:     | General Kehoe 02-24S-28E RB          | MD Reference:                | Well @ 3009.50usft |
| Well:     | No. 208                              | North Reference:             | Grid               |
| Wellbore: | OH                                   | Survey Calculation Method:   | Minimum Curvature  |
| Design:   | Gyro-MWD-124.83'-14450', PTB: 14510' | 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) |  |
| 11,371.00    | 90.50      | 179.80               | 9,721.20      | 1,743.28         | -1,743.11     | -85.97        | 1,745.23                   | 182.82                 | 454,393.89         | 628,660.03        |  |
| 11,466.00    | 89.60      | 179.10               | 9,721.12      | 1,838.27         | -1,838.10     | -85.06        | 1,840.07                   | 182.65                 | 454,298.90         | 628,660.94        |  |
| 11,561.00    | 89.70      | 179.30               | 9,721.70      | 1,933.26         | -1,933.09     | -83.74        | 1,934.90                   | 182.48                 | 454,203.91         | 628,662.26        |  |
| 11,655.00    | 91.40      | 179.40               | 9,720.80      | 2,027.24         | -2,027.08     | -82.67        | 2,028.76                   | 182.34                 | 454,109.92         | 628,663.33        |  |
| 11,750.00    | 91.60      | 178.90               | 9,718.31      | 2,122.20         | -2,122.03     | -81.26        | 2,123.59                   | 182.19                 | 454,014.97         | 628,664.74        |  |
| 11,844.00    | 87.30      | 177.70               | 9,719.21      | 2,216.12         | -2,215.96     | -78.47        | 2,217.35                   | 182.03                 | 453,921.04         | 628,667.53        |  |
| 11,939.00    | 90.50      | 179.80               | 9,721.03      | 2,311.06         | -2,310.91     | -76.40        | 2,312.17                   | 181.89                 | 453,826.09         | 628,669.60        |  |
| 12,034.00    | 91.30      | 179.90               | 9,719.54      | 2,406.05         | -2,405.89     | -76.15        | 2,407.10                   | 181.81                 | 453,731.11         | 628,669.85        |  |
| 12,129.00    | 91.30      | 179.40               | 9,717.39      | 2,501.02         | -2,500.87     | -75.57        | 2,502.01                   | 181.73                 | 453,636.13         | 628,670.43        |  |
| 12,224.00    | 88.80      | 179.90               | 9,717.30      | 2,596.01         | -2,595.86     | -74.99        | 2,596.94                   | 181.65                 | 453,541.14         | 628,671.01        |  |
| 12,318.00    | 90.50      | 181.00               | 9,717.88      | 2,690.00         | -2,689.85     | -75.73        | 2,690.91                   | 181.61                 | 453,447.15         | 628,670.27        |  |
| 12,413.00    | 91.60      | 183.00               | 9,716.14      | 2,784.93         | -2,784.77     | -79.05        | 2,785.89                   | 181.63                 | 453,352.23         | 628,666.95        |  |
| 12,508.00    | 91.30      | 184.30               | 9,713.73      | 2,879.71         | -2,879.54     | -85.09        | 2,880.80                   | 181.69                 | 453,257.46         | 628,660.91        |  |
| 12,602.00    | 84.70      | 182.30               | 9,717.01      | 2,973.45         | -2,973.27     | -90.50        | 2,974.65                   | 181.74                 | 453,163.73         | 628,655.50        |  |
| 12,697.00    | 84.40      | 180.40               | 9,726.04      | 3,068.00         | -3,067.81     | -92.73        | 3,069.21                   | 181.73                 | 453,069.19         | 628,653.27        |  |
| 12,791.00    | 87.60      | 177.60               | 9,732.59      | 3,161.73         | -3,161.55     | -91.09        | 3,162.86                   | 181.65                 | 452,975.45         | 628,654.91        |  |
| 12,885.00    | 90.20      | 175.40               | 9,734.40      | 3,255.51         | -3,255.34     | -85.35        | 3,256.46                   | 181.50                 | 452,881.66         | 628,660.65        |  |
| 12,980.00    | 85.90      | 173.20               | 9,737.63      | 3,349.94         | -3,349.79     | -75.93        | 3,350.65                   | 181.30                 | 452,787.21         | 628,670.07        |  |
| 13,075.00    | 86.60      | 174.30               | 9,743.84      | 3,444.15         | -3,444.02     | -65.61        | 3,444.64                   | 181.09                 | 452,692.98         | 628,680.39        |  |
| 13,169.00    | 93.80      | 174.60               | 9,743.52      | 3,537.63         | -3,537.52     | -56.52        | 3,537.97                   | 180.92                 | 452,599.48         | 628,689.48        |  |
| 13,263.00    | 94.30      | 177.60               | 9,736.88      | 3,631.15         | -3,631.05     | -50.14        | 3,631.40                   | 180.79                 | 452,505.95         | 628,695.86        |  |
| 13,358.00    | 93.50      | 178.90               | 9,730.41      | 3,725.88         | -3,725.79     | -47.25        | 3,726.09                   | 180.73                 | 452,411.21         | 628,698.75        |  |
| 13,453.00    | 93.50      | 181.90               | 9,724.61      | 3,820.69         | -3,820.60     | -47.91        | 3,820.90                   | 180.72                 | 452,316.40         | 628,698.09        |  |
| 13,548.00    | 87.60      | 180.00               | 9,723.70      | 3,915.63         | -3,915.53     | -49.49        | 3,915.84                   | 180.72                 | 452,221.47         | 628,696.51        |  |
| 13,642.00    | 93.40      | 179.40               | 9,722.88      | 4,009.58         | -4,009.49     | -48.99        | 4,009.79                   | 180.70                 | 452,127.51         | 628,697.01        |  |
| 13,737.00    | 88.60      | 178.30               | 9,721.22      | 4,104.51         | -4,104.42     | -47.09        | 4,104.69                   | 180.66                 | 452,032.58         | 628,698.91        |  |
| 13,831.00    | 91.00      | 178.30               | 9,721.55      | 4,198.46         | -4,198.37     | -44.30        | 4,198.61                   | 180.60                 | 451,938.63         | 628,701.70        |  |



# ProDirectional Survey Report



|                  |                                      |                                     |                    |
|------------------|--------------------------------------|-------------------------------------|--------------------|
| <b>Company:</b>  | Matador Resources                    | <b>Local Co-ordinate Reference:</b> | Well No. 208       |
| <b>Project:</b>  | Eddy County, NM (NAD 83)             | <b>TVD Reference:</b>               | Well @ 3009.50usft |
| <b>Site:</b>     | General Kehoe 02-24S-28E RB          | <b>MD Reference:</b>                | Well @ 3009.50usft |
| <b>Well:</b>     | No. 208                              | <b>North Reference:</b>             | Grid               |
| <b>Wellbore:</b> | OH                                   | <b>Survey Calculation Method:</b>   | Minimum Curvature  |
| <b>Design:</b>   | Gyro-MWD-124.83'-14450', PTB: 14510' | <b>Database:</b>                    | 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) |  |
| 13,926.00              | 89.10      | 177.80               | 9,721.47      | 4,293.39         | -4,293.31     | -41.07        | 4,293.51                   | 180.55                 | 451,843.69         | 628,704.93        |  |
| 14,020.00              | 92.50      | 178.80               | 9,720.16      | 4,387.32         | -4,387.25     | -38.28        | 4,387.42                   | 180.50                 | 451,749.75         | 628,707.72        |  |
| 14,115.00              | 90.30      | 177.60               | 9,717.84      | 4,482.23         | -4,482.17     | -35.29        | 4,482.31                   | 180.45                 | 451,654.83         | 628,710.71        |  |
| 14,210.00              | 90.90      | 178.00               | 9,716.84      | 4,577.15         | -4,577.09     | -31.65        | 4,577.20                   | 180.40                 | 451,559.91         | 628,714.35        |  |
| 14,305.00              | 87.20      | 176.40               | 9,718.42      | 4,671.99         | -4,671.94     | -27.01        | 4,672.02                   | 180.33                 | 451,465.06         | 628,718.99        |  |
| 14,400.00              | 94.20      | 179.10               | 9,717.26      | 4,766.83         | -4,766.80     | -23.28        | 4,766.85                   | 180.28                 | 451,370.20         | 628,722.72        |  |
| 14,450.00              | 93.50      | 178.70               | 9,713.90      | 4,816.71         | -4,816.67     | -22.32        | 4,816.73                   | 180.27                 | 451,320.33         | 628,723.68        |  |
| Last Survey: 14450' MD |            |                      |               |                  |               |               |                            |                        |                    |                   |  |
| 14,510.00              | 93.50      | 178.70               | 9,710.24      | 4,876.58         | -4,876.55     | -20.96        | 4,876.59                   | 180.25                 | 451,260.45         | 628,725.04        |  |
| PTB: 14510' MD         |            |                      |               |                  |               |               |                            |                        |                    |                   |  |

| Design Annotations          |                             |                   |                 |                               |  |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 |                               |  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) | Comment                       |  |
| 498.00                      | 497.97                      | 0.11              | -4.53           | Pro MWD First Survey: 498' MD |  |
| 14,450.00                   | 9,713.90                    | -4,816.67         | -22.32          | Last Survey: 14450' MD        |  |
| 14,510.00                   | 9,710.24                    | -4,876.55         | -20.96          | PTB: 14510' MD                |  |