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DISTRICT 7 - ARTESIA O.C.D.

# **Mewbourne Oil Company**

Eddy County, N.M. Nad (83)

Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML

Rustler Breaks 26/23 W2ML Fee Com 1H

Original Hole

Design: Original Hole

## **Survey Report - Geographic**

08 March, 2019

**STRYKER**  
DIRECTIONAL



# Stryker Directional Survey Report - Geographic



|                  |                                                    |                                     |                                           |
|------------------|----------------------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Rustler Breaks 26/23 W2ML Fee Com 1H |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Site:</b>     | Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML | <b>MD Reference:</b>                | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Well:</b>     | Rustler Breaks 26/23 W2ML Fee Com 1H               | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | STYKER_EDM                                |

|                    |                            |                      |                |
|--------------------|----------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, N.M. Nad (83) |                      |                |
| <b>Map System:</b> | US State Plane 1983        | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983  |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone    |                      |                |

|                              |                                                    |                          |                  |
|------------------------------|----------------------------------------------------|--------------------------|------------------|
| <b>Site</b>                  | Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML |                          |                  |
| <b>Site Position:</b>        |                                                    | <b>Northing:</b>         | 429,581.20 usft  |
| <b>From:</b>                 | Map                                                | <b>Easting:</b>          | 624,226.00 usft  |
| <b>Position Uncertainty:</b> | 0.0 usft                                           | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |                                                    | <b>Latitude:</b>         | 32° 10' 50.566 N |
|                              |                                                    | <b>Longitude:</b>        | 104° 3' 55.492 W |
|                              |                                                    | <b>Grid Convergence:</b> | 0.14 °           |

|                             |                                      |                            |                                  |
|-----------------------------|--------------------------------------|----------------------------|----------------------------------|
| <b>Well:</b>                | Rustler Breaks 26/23 W2ML Fee Com 1H |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>                         | 0.0 usft                   | <b>Northing:</b> 429,581.20 usft |
|                             | <b>+E/-W</b>                         | 0.0 usft                   | <b>Easting:</b> 624,226.00 usft  |
| <b>Position Uncertainty</b> | 0.0 usft                             | <b>Wellhead Elevation:</b> | 27.0 usft                        |
|                             |                                      | <b>Latitude:</b>           | 32° 10' 50.566 N                 |
|                             |                                      | <b>Longitude:</b>          | 104° 3' 55.492 W                 |
|                             |                                      | <b>Ground Level:</b>       | 2,969.0 usft                     |

|                 |               |
|-----------------|---------------|
| <b>Wellbore</b> | Original Hole |
|-----------------|---------------|

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  | IGRF2015          | 12/26/18           | (°)                | (°)              | (nT)                  |
|                  |                   |                    | 7.01               | 59.92            | 47,706.53885200       |

|               |               |
|---------------|---------------|
| <b>Design</b> | Original Hole |
|---------------|---------------|

|                      |        |
|----------------------|--------|
| <b>Audit Notes:</b>  |        |
| <b>Version:</b>      | 1.0    |
| <b>Phase:</b>        | ACTUAL |
| <b>Tie On Depth:</b> | 0.0    |

|                          |                         |              |              |                  |
|--------------------------|-------------------------|--------------|--------------|------------------|
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Direction</b> |
|                          | (usft)                  | (usft)       | (usft)       | (°)              |
|                          | 0.0                     | 0.0          | 0.0          | 279.03           |

|                       |             |                            |                  |                             |
|-----------------------|-------------|----------------------------|------------------|-----------------------------|
| <b>Survey Program</b> | <b>Date</b> | 03/08/19                   |                  |                             |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b>   | <b>Tool Name</b> | <b>Description</b>          |
| (usft)                | (usft)      |                            |                  |                             |
| 726.0                 | 18,435.0    | MWD Survey (Original Hole) | MWD              | MWD v3:standard declination |

| Survey                |                 |             |                       |              |              |                     |                    |                  |                  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 572.0                 | 1.90            | 281.30      | 571.8                 | 1.6          | -14.9        | 429,582.80          | 624,211.10         | 32° 10' 50.582 N | 104° 3' 55.665 W |
| 726.0                 | 2.30            | 278.00      | 725.7                 | 2.5          | -20.5        | 429,583.73          | 624,205.54         | 32° 10' 50.591 N | 104° 3' 55.730 W |
| 853.0                 | 2.80            | 280.40      | 852.6                 | 3.4          | -26.0        | 429,584.64          | 624,199.97         | 32° 10' 50.601 N | 104° 3' 55.795 W |
| 1,042.0               | 3.10            | 281.10      | 1,041.3               | 5.3          | -35.6        | 429,586.46          | 624,190.41         | 32° 10' 50.619 N | 104° 3' 55.906 W |
| 1,232.0               | 3.00            | 281.40      | 1,231.1               | 7.2          | -45.5        | 429,588.43          | 624,180.50         | 32° 10' 50.638 N | 104° 3' 56.021 W |
| 1,422.0               | 0.80            | 207.30      | 1,421.0               | 7.0          | -51.0        | 429,588.24          | 624,175.01         | 32° 10' 50.637 N | 104° 3' 56.085 W |
| 1,612.0               | 1.90            | 147.40      | 1,610.9               | 3.2          | -49.9        | 429,584.41          | 624,176.10         | 32° 10' 50.599 N | 104° 3' 56.072 W |
| 1,803.0               | 2.20            | 141.70      | 1,801.8               | -2.3         | -45.9        | 429,578.86          | 624,180.08         | 32° 10' 50.544 N | 104° 3' 56.026 W |
| 1,991.0               | 3.50            | 124.40      | 1,989.5               | -8.4         | -39.0        | 429,572.79          | 624,187.05         | 32° 10' 50.483 N | 104° 3' 55.945 W |
| 2,179.0               | 2.50            | 134.30      | 2,177.3               | -14.5        | -31.3        | 429,566.68          | 624,194.72         | 32° 10' 50.423 N | 104° 3' 55.856 W |
| 2,366.0               | 2.90            | 128.10      | 2,364.1               | -20.3        | -24.6        | 429,560.91          | 624,201.36         | 32° 10' 50.366 N | 104° 3' 55.779 W |



Stryker Directional  
Survey Report - Geographic



|           |                                                    |                              |                                           |
|-----------|----------------------------------------------------|------------------------------|-------------------------------------------|
| Company:  | Mewbourne Oil Company                              | Local Co-ordinate Reference: | Well Rustler Breaks 26/23 W2ML Fee Com 1H |
| Project:  | Eddy County, N.M. Nad (83)                         | TVD Reference:               | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| Site:     | Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML | MD Reference:                | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| Well:     | Rustler Breaks 26/23 W2ML Fee Com 1H               | North Reference:             | Grid                                      |
| Wellbore: | Original Hole                                      | Survey Calculation Method:   | Minimum Curvature                         |
| Design:   | Original Hole                                      | Database:                    | STYKER_EDM                                |

| Survey                |                 |             |                       |              |              |                     |                    |                  |                  |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |  |
| 2,554.0               | 3.20            | 133.70      | 2,551.8               | -26.8        | -17.1        | 429,554.35          | 624,208.90         | 32° 10' 50.301 N | 104° 3' 55.692 W |  |
| 2,562.0               | 3.30            | 136.30      | 2,559.8               | -27.2        | -16.8        | 429,554.03          | 624,209.22         | 32° 10' 50.297 N | 104° 3' 55.688 W |  |
| 2,651.0               | 3.60            | 135.50      | 2,648.6               | -31.0        | -13.1        | 429,550.19          | 624,212.95         | 32° 10' 50.259 N | 104° 3' 55.645 W |  |
| 2,838.0               | 3.60            | 136.20      | 2,835.3               | -39.4        | -4.9         | 429,541.76          | 624,221.13         | 32° 10' 50.176 N | 104° 3' 55.550 W |  |
| 3,026.0               | 1.00            | 212.40      | 3,023.1               | -45.1        | -1.7         | 429,536.12          | 624,224.33         | 32° 10' 50.120 N | 104° 3' 55.513 W |  |
| 3,214.0               | 1.30            | 215.10      | 3,211.1               | -48.2        | -3.8         | 429,532.99          | 624,222.23         | 32° 10' 50.089 N | 104° 3' 55.537 W |  |
| 3,402.0               | 1.20            | 225.80      | 3,399.0               | -51.3        | -6.4         | 429,529.87          | 624,219.59         | 32° 10' 50.058 N | 104° 3' 55.568 W |  |
| 3,590.0               | 1.40            | 224.20      | 3,587.0               | -54.3        | -9.4         | 429,526.85          | 624,216.58         | 32° 10' 50.028 N | 104° 3' 55.603 W |  |
| 3,777.0               | 1.10            | 218.70      | 3,774.0               | -57.4        | -12.1        | 429,523.81          | 624,213.86         | 32° 10' 49.998 N | 104° 3' 55.635 W |  |
| 3,965.0               | 1.10            | 220.20      | 3,961.9               | -60.2        | -14.4        | 429,521.02          | 624,211.57         | 32° 10' 49.971 N | 104° 3' 55.662 W |  |
| 4,152.0               | 1.10            | 228.70      | 4,148.9               | -62.7        | -16.9        | 429,518.47          | 624,209.06         | 32° 10' 49.945 N | 104° 3' 55.691 W |  |
| 4,340.0               | 1.30            | 215.70      | 4,336.8               | -65.7        | -19.5        | 429,515.55          | 624,206.46         | 32° 10' 49.917 N | 104° 3' 55.721 W |  |
| 4,528.0               | 1.50            | 216.20      | 4,524.8               | -69.4        | -22.2        | 429,511.83          | 624,203.76         | 32° 10' 49.880 N | 104° 3' 55.753 W |  |
| 4,716.0               | 1.50            | 229.90      | 4,712.7               | -72.9        | -25.6        | 429,508.26          | 624,200.43         | 32° 10' 49.845 N | 104° 3' 55.792 W |  |
| 4,904.0               | 1.60            | 233.50      | 4,900.7               | -76.1        | -29.6        | 429,505.11          | 624,196.44         | 32° 10' 49.814 N | 104° 3' 55.838 W |  |
| 5,092.0               | 1.50            | 222.60      | 5,088.6               | -79.5        | -33.3        | 429,501.74          | 624,192.66         | 32° 10' 49.780 N | 104° 3' 55.882 W |  |
| 5,280.0               | 1.10            | 231.30      | 5,276.5               | -82.4        | -36.4        | 429,498.80          | 624,189.59         | 32° 10' 49.751 N | 104° 3' 55.918 W |  |
| 5,467.0               | 1.50            | 227.70      | 5,463.5               | -85.2        | -39.6        | 429,496.03          | 624,186.38         | 32° 10' 49.724 N | 104° 3' 55.955 W |  |
| 5,654.0               | 1.40            | 221.70      | 5,650.4               | -88.5        | -43.0        | 429,492.68          | 624,183.05         | 32° 10' 49.691 N | 104° 3' 55.994 W |  |
| 5,843.0               | 1.10            | 219.40      | 5,839.4               | -91.6        | -45.6        | 429,489.55          | 624,180.36         | 32° 10' 49.660 N | 104° 3' 56.026 W |  |
| 6,031.0               | 1.30            | 214.10      | 6,027.3               | -94.8        | -48.0        | 429,486.39          | 624,178.02         | 32° 10' 49.629 N | 104° 3' 56.053 W |  |
| 6,218.0               | 1.20            | 202.60      | 6,214.3               | -98.4        | -49.9        | 429,482.83          | 624,176.08         | 32° 10' 49.594 N | 104° 3' 56.076 W |  |
| 6,406.0               | 1.10            | 176.00      | 6,402.3               | -102.0       | -50.6        | 429,479.21          | 624,175.45         | 32° 10' 49.558 N | 104° 3' 56.083 W |  |
| 6,594.0               | 1.10            | 145.00      | 6,590.2               | -105.3       | -49.4        | 429,475.93          | 624,176.61         | 32° 10' 49.525 N | 104° 3' 56.070 W |  |
| 6,780.0               | 1.00            | 160.80      | 6,776.2               | -108.3       | -47.8        | 429,472.94          | 624,178.16         | 32° 10' 49.496 N | 104° 3' 56.052 W |  |
| 6,968.0               | 0.90            | 128.20      | 6,964.2               | -110.7       | -46.1        | 429,470.47          | 624,179.86         | 32° 10' 49.471 N | 104° 3' 56.032 W |  |
| 7,156.0               | 0.30            | 339.80      | 7,152.2               | -111.2       | -45.1        | 429,470.02          | 624,180.85         | 32° 10' 49.467 N | 104° 3' 56.020 W |  |
| 7,343.0               | 0.70            | 357.40      | 7,339.2               | -109.6       | -45.4        | 429,471.62          | 624,180.63         | 32° 10' 49.483 N | 104° 3' 56.023 W |  |
| 7,531.0               | 0.70            | 34.80       | 7,527.1               | -107.5       | -44.8        | 429,473.71          | 624,181.24         | 32° 10' 49.503 N | 104° 3' 56.016 W |  |
| 7,720.0               | 1.30            | 75.40       | 7,716.1               | -106.0       | -42.0        | 429,475.20          | 624,183.97         | 32° 10' 49.518 N | 104° 3' 56.048 W |  |
| 7,907.0               | 0.40            | 113.70      | 7,903.1               | -105.7       | -39.4        | 429,475.47          | 624,186.62         | 32° 10' 49.520 N | 104° 3' 55.953 W |  |
| 8,095.0               | 0.50            | 347.90      | 8,091.1               | -105.2       | -39.0        | 429,476.01          | 624,187.05         | 32° 10' 49.526 N | 104° 3' 55.948 W |  |
| 8,283.0               | 0.70            | 321.20      | 8,279.1               | -103.5       | -39.8        | 429,477.71          | 624,186.16         | 32° 10' 49.543 N | 104° 3' 55.958 W |  |
| 8,471.0               | 0.60            | 253.60      | 8,467.1               | -102.9       | -41.5        | 429,478.33          | 624,184.49         | 32° 10' 49.549 N | 104° 3' 55.978 W |  |
| 8,659.0               | 1.20            | 225.20      | 8,655.1               | -104.5       | -43.9        | 429,476.66          | 624,182.15         | 32° 10' 49.532 N | 104° 3' 56.005 W |  |
| 8,847.0               | 1.00            | 232.80      | 8,843.0               | -106.9       | -46.6        | 429,474.28          | 624,179.45         | 32° 10' 49.509 N | 104° 3' 56.037 W |  |
| 9,036.0               | 1.10            | 226.70      | 9,032.0               | -109.2       | -49.2        | 429,472.04          | 624,176.82         | 32° 10' 49.487 N | 104° 3' 56.067 W |  |
| 9,224.0               | 1.10            | 258.90      | 9,220.0               | -110.7       | -52.3        | 429,470.46          | 624,173.73         | 32° 10' 49.471 N | 104° 3' 56.103 W |  |
| 9,412.0               | 1.50            | 48.10       | 9,407.9               | -109.4       | -52.2        | 429,471.75          | 624,173.79         | 32° 10' 49.484 N | 104° 3' 56.103 W |  |
| 9,558.0               | 1.10            | 41.90       | 9,553.9               | -107.1       | -49.9        | 429,474.07          | 624,176.15         | 32° 10' 49.507 N | 104° 3' 56.075 W |  |
| 9,745.0               | 0.70            | 22.40       | 9,740.9               | -104.7       | -48.2        | 429,476.46          | 624,177.78         | 32° 10' 49.530 N | 104° 3' 56.056 W |  |
| 9,934.0               | 0.80            | 2.70        | 9,929.9               | -102.4       | -47.7        | 429,478.85          | 624,178.29         | 32° 10' 49.554 N | 104° 3' 56.050 W |  |
| 10,028.0              | 0.60            | 346.00      | 10,023.9              | -101.2       | -47.8        | 429,479.98          | 624,178.20         | 32° 10' 49.565 N | 104° 3' 56.051 W |  |
| 10,059.0              | 0.50            | 10.00       | 10,054.8              | -100.9       | -47.8        | 429,480.27          | 624,178.18         | 32° 10' 49.568 N | 104° 3' 56.051 W |  |
| 10,090.0              | 0.60            | 2.90        | 10,085.8              | -100.6       | -47.8        | 429,480.57          | 624,178.21         | 32° 10' 49.571 N | 104° 3' 56.051 W |  |
| 10,122.0              | 2.60            | 2.40        | 10,117.8              | -99.7        | -47.8        | 429,481.46          | 624,178.25         | 32° 10' 49.580 N | 104° 3' 56.050 W |  |
| 10,153.0              | 6.00            | 5.50        | 10,148.7              | -97.4        | -47.6        | 429,483.78          | 624,178.44         | 32° 10' 49.603 N | 104° 3' 56.048 W |  |
| 10,184.0              | 9.60            | 4.80        | 10,179.5              | -93.2        | -47.2        | 429,487.97          | 624,178.81         | 32° 10' 49.644 N | 104° 3' 56.044 W |  |
| 10,216.0              | 13.30           | 4.70        | 10,210.8              | -86.9        | -46.7        | 429,494.30          | 624,179.33         | 32° 10' 49.707 N | 104° 3' 56.037 W |  |
| 10,247.0              | 16.80           | 6.90        | 10,240.7              | -78.9        | -45.8        | 429,502.30          | 624,180.17         | 32° 10' 49.786 N | 104° 3' 56.027 W |  |
| 10,279.0              | 19.50           | 6.60        | 10,271.1              | -69.0        | -44.7        | 429,512.20          | 624,181.34         | 32° 10' 49.884 N | 104° 3' 56.014 W |  |
| 10,304.0              | 21.30           | 3.40        | 10,294.6              | -60.3        | -43.9        | 429,520.88          | 624,182.08         | 32° 10' 49.970 N | 104° 3' 56.005 W |  |
| 10,336.0              | 24.70           | 0.50        | 10,324.0              | -47.8        | -43.5        | 429,533.37          | 624,182.49         | 32° 10' 50.094 N | 104° 3' 56.000 W |  |
| 10,367.0              | 27.90           | 359.00      | 10,351.8              | -34.1        | -43.6        | 429,547.10          | 624,182.42         | 32° 10' 50.229 N | 104° 3' 56.000 W |  |



# Stryker Directional Survey Report - Geographic



|                  |                                                    |                                     |                                           |
|------------------|----------------------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Rustler Breaks 26/23 W2ML Fee Com 1H |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Site:</b>     | Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML | <b>MD Reference:</b>                | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Well:</b>     | Rustler Breaks 26/23 W2ML Fee Com 1H               | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | STYKER_EDM                                |

| Survey                                   |                 |             |                       |              |              |                     |                    |                  |                  |  |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|------------------|--|
| Measured Depth (usft)                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |  |
| 10,399.0                                 | 31.70           | 358.40      | 10,379.6              | -18.2        | -44.0        | 429,563.00          | 624,182.05         | 32° 10' 50.387 N | 104° 3' 56.004 W |  |
| 10,430.0                                 | 35.00           | 359.60      | 10,405.5              | -1.2         | -44.2        | 429,580.03          | 624,181.76         | 32° 10' 50.555 N | 104° 3' 56.007 W |  |
| 10,461.0                                 | 37.20           | 0.60        | 10,430.5              | 17.1         | -44.2        | 429,598.30          | 624,181.80         | 32° 10' 50.736 N | 104° 3' 56.006 W |  |
| 10,493.0                                 | 39.30           | 0.50        | 10,455.6              | 36.9         | -44.0        | 429,618.11          | 624,181.99         | 32° 10' 50.932 N | 104° 3' 56.003 W |  |
| 10,524.0                                 | 42.50           | 359.10      | 10,479.1              | 57.2         | -44.1        | 429,638.40          | 624,181.91         | 32° 10' 51.133 N | 104° 3' 56.003 W |  |
| 10,555.0                                 | 45.70           | 357.40      | 10,501.3              | 78.8         | -44.8        | 429,659.96          | 624,181.24         | 32° 10' 51.346 N | 104° 3' 56.010 W |  |
| 10,587.0                                 | 49.80           | 356.20      | 10,522.8              | 102.4        | -46.1        | 429,683.60          | 624,179.91         | 32° 10' 51.580 N | 104° 3' 56.025 W |  |
| 10,618.0                                 | 53.30           | 356.80      | 10,542.1              | 126.6        | -47.6        | 429,707.83          | 624,178.43         | 32° 10' 51.820 N | 104° 3' 56.042 W |  |
| 10,650.0                                 | 57.10           | 357.70      | 10,560.4              | 152.9        | -48.8        | 429,734.07          | 624,177.18         | 32° 10' 52.080 N | 104° 3' 56.056 W |  |
| 10,681.0                                 | 60.00           | 358.30      | 10,576.6              | 179.3        | -49.7        | 429,760.50          | 624,176.26         | 32° 10' 52.341 N | 104° 3' 56.065 W |  |
| 10,713.0                                 | 63.30           | 358.60      | 10,591.7              | 207.4        | -50.5        | 429,788.65          | 624,175.50         | 32° 10' 52.620 N | 104° 3' 56.074 W |  |
| 10,743.0                                 | 66.60           | 358.90      | 10,604.4              | 234.6        | -51.1        | 429,815.81          | 624,174.90         | 32° 10' 52.889 N | 104° 3' 56.080 W |  |
| 10,775.0                                 | 69.10           | 359.00      | 10,616.5              | 264.2        | -51.6        | 429,845.44          | 624,174.36         | 32° 10' 53.182 N | 104° 3' 56.085 W |  |
| 10,806.0                                 | 72.00           | 359.30      | 10,626.8              | 293.5        | -52.1        | 429,874.67          | 624,173.93         | 32° 10' 53.471 N | 104° 3' 56.089 W |  |
| 10,827.0                                 | 74.20           | 359.80      | 10,632.9              | 313.6        | -52.2        | 429,894.76          | 624,173.77         | 32° 10' 53.670 N | 104° 3' 56.091 W |  |
| 10,872.0                                 | 77.00           | 0.20        | 10,644.1              | 357.1        | -52.2        | 429,938.34          | 624,173.77         | 32° 10' 54.101 N | 104° 3' 56.089 W |  |
| 10,966.0                                 | 81.00           | 3.10        | 10,662.1              | 449.3        | -49.6        | 430,030.55          | 624,176.44         | 32° 10' 55.014 N | 104° 3' 56.055 W |  |
| 11,058.0                                 | 86.38           | 1.44        | 10,672.2              | 540.6        | -46.0        | 430,121.84          | 624,180.05         | 32° 10' 55.917 N | 104° 3' 56.011 W |  |
| New LP Rustler 26-23 W2ML Fee Com #1H    |                 |             |                       |              |              |                     |                    |                  |                  |  |
| 11,059.3                                 | 86.46           | 1.41        | 10,672.3              | 542.0        | -45.9        | 430,123.15          | 624,180.09         | 32° 10' 55.930 N | 104° 3' 56.010 W |  |
| LP Rustler Breaks 26-23 W2ML Fee Com #1H |                 |             |                       |              |              |                     |                    |                  |                  |  |
| 11,060.0                                 | 86.50           | 1.40        | 10,672.3              | 542.7        | -45.9        | 430,123.88          | 624,180.10         | 32° 10' 55.937 N | 104° 3' 56.010 W |  |
| 11,154.0                                 | 88.70           | 0.90        | 10,676.2              | 636.6        | -44.0        | 430,217.77          | 624,181.99         | 32° 10' 56.866 N | 104° 3' 55.986 W |  |
| 11,248.0                                 | 90.00           | 1.60        | 10,677.3              | 730.5        | -42.0        | 430,311.74          | 624,184.04         | 32° 10' 57.796 N | 104° 3' 55.959 W |  |
| 11,342.0                                 | 92.50           | 3.00        | 10,675.2              | 824.4        | -38.2        | 430,405.63          | 624,187.81         | 32° 10' 58.725 N | 104° 3' 55.912 W |  |
| 11,436.0                                 | 91.50           | 2.90        | 10,672.0              | 918.2        | -33.4        | 430,499.45          | 624,192.64         | 32° 11' 59.654 N | 104° 3' 55.853 W |  |
| 11,530.0                                 | 94.10           | 5.90        | 10,667.4              | 1,011.8      | -26.2        | 430,593.04          | 624,199.84         | 32° 11' 0.580 N  | 104° 3' 55.767 W |  |
| 11,624.0                                 | 89.20           | 2.70        | 10,664.7              | 1,105.5      | -19.1        | 430,686.70          | 624,206.88         | 32° 11' 1.506 N  | 104° 3' 55.682 W |  |
| 11,719.0                                 | 90.30           | 4.20        | 10,665.1              | 1,200.3      | -13.4        | 430,781.52          | 624,212.60         | 32° 11' 2.444 N  | 104° 3' 55.613 W |  |
| 11,813.0                                 | 85.40           | 0.80        | 10,668.6              | 1,294.1      | -9.3         | 430,875.32          | 624,216.70         | 32° 11' 3.373 N  | 104° 3' 55.563 W |  |
| 11,907.0                                 | 91.20           | 1.10        | 10,671.4              | 1,388.0      | -7.7         | 430,969.23          | 624,218.25         | 32° 11' 4.302 N  | 104° 3' 55.542 W |  |
| 12,000.0                                 | 91.30           | 1.20        | 10,669.4              | 1,481.0      | -5.9         | 431,062.19          | 624,220.12         | 32° 11' 5.222 N  | 104° 3' 55.517 W |  |
| 12,094.0                                 | 93.20           | 1.20        | 10,665.7              | 1,574.9      | -3.9         | 431,156.09          | 624,222.09         | 32° 11' 6.151 N  | 104° 3' 55.492 W |  |
| 12,188.0                                 | 88.90           | 357.10      | 10,664.0              | 1,668.8      | -5.3         | 431,250.02          | 624,220.69         | 32° 11' 7.081 N  | 104° 3' 55.505 W |  |
| 12,282.0                                 | 88.20           | 357.50      | 10,666.3              | 1,762.7      | -9.7         | 431,343.88          | 624,216.27         | 32° 11' 8.010 N  | 104° 3' 55.554 W |  |
| 12,377.0                                 | 89.60           | 359.10      | 10,668.2              | 1,857.6      | -12.6        | 431,438.82          | 624,213.45         | 32° 11' 8.949 N  | 104° 3' 55.584 W |  |
| 12,470.0                                 | 90.00           | 359.10      | 10,668.5              | 1,950.6      | -14.0        | 431,531.81          | 624,211.99         | 32° 11' 9.869 N  | 104° 3' 55.598 W |  |
| 12,563.0                                 | 92.50           | 359.30      | 10,666.5              | 2,043.6      | -15.3        | 431,624.77          | 624,210.69         | 32° 11' 10.789 N | 104° 3' 55.611 W |  |
| 12,657.0                                 | 91.60           | 358.30      | 10,663.1              | 2,137.5      | -17.3        | 431,718.69          | 624,208.72         | 32° 11' 11.719 N | 104° 3' 55.631 W |  |
| 12,751.0                                 | 89.40           | 357.90      | 10,662.3              | 2,231.4      | -20.4        | 431,812.63          | 624,205.61         | 32° 11' 12.649 N | 104° 3' 55.665 W |  |
| 12,844.0                                 | 92.90           | 357.60      | 10,660.4              | 2,324.3      | -24.0        | 431,905.52          | 624,201.96         | 32° 11' 13.568 N | 104° 3' 55.704 W |  |
| 12,938.0                                 | 93.60           | 358.80      | 10,655.1              | 2,418.1      | -27.0        | 431,999.32          | 624,199.01         | 32° 11' 14.496 N | 104° 3' 55.736 W |  |
| 13,032.0                                 | 91.80           | 358.90      | 10,650.6              | 2,512.0      | -28.9        | 432,093.19          | 624,197.12         | 32° 11' 15.425 N | 104° 3' 55.755 W |  |
| 13,126.0                                 | 89.90           | 356.30      | 10,649.3              | 2,605.9      | -32.8        | 432,187.09          | 624,193.19         | 32° 11' 16.355 N | 104° 3' 55.798 W |  |
| 13,220.0                                 | 88.70           | 354.90      | 10,650.4              | 2,699.6      | -40.0        | 432,280.80          | 624,185.98         | 32° 11' 17.282 N | 104° 3' 55.879 W |  |
| 13,314.0                                 | 89.90           | 357.70      | 10,651.5              | 2,793.4      | -46.1        | 432,374.59          | 624,179.91         | 32° 11' 18.210 N | 104° 3' 55.947 W |  |
| 13,408.0                                 | 91.30           | 359.70      | 10,650.6              | 2,887.3      | -48.2        | 432,468.55          | 624,177.78         | 32° 11' 19.140 N | 104° 3' 55.969 W |  |
| 13,502.0                                 | 87.70           | 359.20      | 10,651.4              | 2,981.3      | -49.1        | 432,562.53          | 624,176.88         | 32° 11' 20.070 N | 104° 3' 55.977 W |  |
| 13,597.0                                 | 91.40           | 0.10        | 10,652.1              | 3,076.3      | -49.7        | 432,657.50          | 624,176.30         | 32° 11' 21.010 N | 104° 3' 55.981 W |  |
| 13,691.0                                 | 92.90           | 0.50        | 10,648.6              | 3,170.2      | -49.2        | 432,751.43          | 624,176.79         | 32° 11' 21.940 N | 104° 3' 55.973 W |  |
| 13,784.0                                 | 87.90           | 358.50      | 10,648.0              | 3,263.2      | -50.0        | 432,844.39          | 624,175.98         | 32° 11' 22.860 N | 104° 3' 55.979 W |  |
| 13,879.0                                 | 90.40           | 359.80      | 10,649.4              | 3,358.2      | -51.4        | 432,939.36          | 624,174.57         | 32° 11' 23.799 N | 104° 3' 55.993 W |  |
| 13,973.0                                 | 90.00           | 0.50        | 10,649.0              | 3,452.2      | -51.2        | 433,033.36          | 624,174.81         | 32° 11' 24.730 N | 104° 3' 55.987 W |  |
| 14,068.0                                 | 90.90           | 0.50        | 10,648.3              | 3,547.2      | -50.4        | 433,128.35          | 624,175.64         | 32° 11' 25.670 N | 104° 3' 55.975 W |  |



# Stryker Directional Survey Report - Geographic



|                  |                                                    |                                     |                                           |
|------------------|----------------------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Rustler Breaks 26/23 W2ML Fee Com 1H |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Site:</b>     | Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML | <b>MD Reference:</b>                | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Well:</b>     | Rustler Breaks 26/23 W2ML Fee Com 1H               | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | STYKER_EDM                                |

| Survey                                                                                      |                 |             |                       |              |              |                     |                    |                  |                  |
|---------------------------------------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (usft)                                                                       | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 14,162.0                                                                                    | 91.50           | 2.40        | 10,646.3              | 3,641.1      | -48.0        | 433,222.30          | 624,178.02         | 32° 11' 26.599 N | 104° 3' 55.945 W |
| 14,257.0                                                                                    | 90.50           | 359.90      | 10,644.7              | 3,736.1      | -46.1        | 433,317.26          | 624,179.93         | 32° 11' 27.539 N | 104° 3' 55.920 W |
| 14,351.0                                                                                    | 89.00           | 359.50      | 10,645.1              | 3,830.1      | -46.6        | 433,411.25          | 624,179.44         | 32° 11' 28.469 N | 104° 3' 55.923 W |
| 14,445.0                                                                                    | 91.70           | 359.00      | 10,644.5              | 3,924.0      | -47.8        | 433,505.23          | 624,178.21         | 32° 11' 29.399 N | 104° 3' 55.934 W |
| 14,539.0                                                                                    | 90.50           | 357.60      | 10,642.7              | 4,018.0      | -50.6        | 433,599.17          | 624,175.42         | 32° 11' 30.329 N | 104° 3' 55.964 W |
| 14,639.0                                                                                    | 90.80           | 357.70      | 10,641.6              | 4,117.9      | -54.7        | 433,699.08          | 624,171.32         | 32° 11' 31.318 N | 104° 3' 56.009 W |
| 14,733.0                                                                                    | 91.50           | 1.50        | 10,639.7              | 4,211.8      | -55.3        | 433,793.04          | 624,170.66         | 32° 11' 32.248 N | 104° 3' 56.014 W |
| 14,827.0                                                                                    | 92.60           | 3.40        | 10,636.3              | 4,305.7      | -51.3        | 433,886.89          | 624,174.68         | 32° 11' 33.176 N | 104° 3' 55.964 W |
| 14,921.0                                                                                    | 93.40           | 0.10        | 10,631.4              | 4,399.5      | -48.5        | 433,980.70          | 624,177.54         | 32° 11' 34.105 N | 104° 3' 55.928 W |
| 15,015.0                                                                                    | 91.20           | 356.80      | 10,627.6              | 4,493.4      | -51.0        | 434,074.57          | 624,175.00         | 32° 11' 35.034 N | 104° 3' 55.955 W |
| 15,109.0                                                                                    | 90.70           | 354.60      | 10,626.1              | 4,587.1      | -58.1        | 434,168.29          | 624,167.95         | 32° 11' 35.961 N | 104° 3' 56.034 W |
| 15,203.0                                                                                    | 90.10           | 357.50      | 10,625.4              | 4,680.9      | -64.5        | 434,262.05          | 624,161.48         | 32° 11' 36.889 N | 104° 3' 56.107 W |
| 15,297.0                                                                                    | 90.40           | 357.20      | 10,625.0              | 4,774.8      | -68.9        | 434,355.95          | 624,157.13         | 32° 11' 37.818 N | 104° 3' 56.155 W |
| 15,391.0                                                                                    | 91.30           | 2.50        | 10,623.6              | 4,868.7      | -69.1        | 434,449.91          | 624,156.89         | 32° 11' 38.748 N | 104° 3' 56.155 W |
| 15,484.0                                                                                    | 89.00           | 359.80      | 10,623.4              | 4,961.7      | -67.3        | 434,542.87          | 624,158.75         | 32° 11' 39.668 N | 104° 3' 56.131 W |
| 15,578.0                                                                                    | 89.00           | 359.80      | 10,625.0              | 5,055.7      | -67.6        | 434,636.86          | 624,158.43         | 32° 11' 40.598 N | 104° 3' 56.132 W |
| 15,672.0                                                                                    | 92.90           | 2.30        | 10,623.4              | 5,149.6      | -65.9        | 434,730.80          | 624,160.15         | 32° 11' 41.528 N | 104° 3' 56.109 W |
| 15,764.0                                                                                    | 91.60           | 358.20      | 10,619.8              | 5,241.5      | -65.5        | 434,822.71          | 624,160.55         | 32° 11' 42.437 N | 104° 3' 56.102 W |
| 15,858.0                                                                                    | 89.80           | 358.00      | 10,618.7              | 5,335.4      | -68.6        | 434,916.65          | 624,157.43         | 32° 11' 43.367 N | 104° 3' 56.135 W |
| 15,952.0                                                                                    | 93.10           | 0.80        | 10,616.3              | 5,429.4      | -69.6        | 435,010.59          | 624,156.44         | 32° 11' 44.297 N | 104° 3' 56.144 W |
| 16,046.0                                                                                    | 89.10           | 359.40      | 10,614.5              | 5,523.4      | -69.4        | 435,104.55          | 624,156.61         | 32° 11' 45.227 N | 104° 3' 56.139 W |
| 16,089.2                                                                                    | 88.46           | 359.17      | 10,615.4              | 5,566.5      | -69.9        | 435,147.74          | 624,156.07         | 32° 11' 45.654 N | 104° 3' 56.144 W |
| Point Rustler Breaks 26-23 W2ML Fee Com #1H                                                 |                 |             |                       |              |              |                     |                    |                  |                  |
| 16,140.0                                                                                    | 87.70           | 358.90      | 10,617.1              | 5,617.3      | -70.8        | 435,198.50          | 624,155.21         | 32° 11' 46.156 N | 104° 3' 56.153 W |
| 16,234.0                                                                                    | 88.70           | 0.30        | 10,620.1              | 5,711.2      | -71.4        | 435,292.45          | 624,154.56         | 32° 11' 47.086 N | 104° 3' 56.158 W |
| 16,323.0                                                                                    | 87.80           | 0.70        | 10,622.8              | 5,800.2      | -70.7        | 435,381.40          | 624,155.33         | 32° 11' 47.966 N | 104° 3' 56.146 W |
| 16,417.0                                                                                    | 90.00           | 0.30        | 10,624.6              | 5,894.2      | -69.9        | 435,475.38          | 624,156.15         | 32° 11' 48.896 N | 104° 3' 56.134 W |
| 16,510.0                                                                                    | 91.20           | 2.80        | 10,623.6              | 5,987.1      | -67.3        | 435,568.33          | 624,158.67         | 32° 11' 49.816 N | 104° 3' 56.102 W |
| 16,605.0                                                                                    | 89.50           | 4.30        | 10,623.0              | 6,081.9      | -61.5        | 435,663.14          | 624,164.55         | 32° 11' 50.754 N | 104° 3' 56.031 W |
| 16,699.0                                                                                    | 93.70           | 5.20        | 10,620.4              | 6,175.6      | -53.7        | 435,756.76          | 624,172.33         | 32° 11' 51.680 N | 104° 3' 55.937 W |
| 16,793.0                                                                                    | 90.90           | 1.70        | 10,616.6              | 6,269.3      | -48.0        | 435,850.49          | 624,177.98         | 32° 11' 52.608 N | 104° 3' 55.869 W |
| 16,886.0                                                                                    | 88.40           | 0.10        | 10,617.2              | 6,362.3      | -46.6        | 435,943.46          | 624,179.44         | 32° 11' 53.528 N | 104° 3' 55.849 W |
| 16,980.0                                                                                    | 90.90           | 359.30      | 10,617.8              | 6,456.3      | -47.1        | 436,037.45          | 624,178.95         | 32° 11' 54.458 N | 104° 3' 55.852 W |
| 17,074.0                                                                                    | 92.80           | 0.30        | 10,614.7              | 6,550.2      | -47.4        | 436,131.40          | 624,178.62         | 32° 11' 55.388 N | 104° 3' 55.853 W |
| 17,167.0                                                                                    | 90.20           | 357.30      | 10,612.3              | 6,643.1      | -49.3        | 436,224.33          | 624,176.67         | 32° 11' 56.307 N | 104° 3' 55.873 W |
| 17,260.0                                                                                    | 89.40           | 357.90      | 10,612.6              | 6,736.0      | -53.2        | 436,317.24          | 624,172.77         | 32° 11' 57.227 N | 104° 3' 55.916 W |
| 17,354.0                                                                                    | 92.80           | 1.40        | 10,610.8              | 6,830.0      | -53.8        | 436,411.19          | 624,172.20         | 32° 11' 58.157 N | 104° 3' 55.920 W |
| 17,448.0                                                                                    | 91.60           | 357.40      | 10,607.2              | 6,923.9      | -54.8        | 436,505.10          | 624,171.21         | 32° 11' 59.086 N | 104° 3' 55.929 W |
| 17,541.0                                                                                    | 89.80           | 358.80      | 10,606.1              | 7,016.8      | -57.9        | 436,598.04          | 624,168.13         | 32° 12' 0.006 N  | 104° 3' 55.962 W |
| 17,634.0                                                                                    | 89.70           | 356.40      | 10,606.5              | 7,109.7      | -61.8        | 436,690.95          | 624,164.24         | 32° 12' 0.925 N  | 104° 3' 56.005 W |
| 17,728.0                                                                                    | 92.20           | 358.10      | 10,604.9              | 7,203.6      | -66.3        | 436,784.81          | 624,159.73         | 32° 12' 1.854 N  | 104° 3' 56.054 W |
| 17,821.0                                                                                    | 90.50           | 356.50      | 10,602.7              | 7,296.5      | -70.7        | 436,877.68          | 624,155.35         | 32° 12' 2.774 N  | 104° 3' 56.103 W |
| 17,915.0                                                                                    | 89.10           | 356.90      | 10,603.1              | 7,390.3      | -76.1        | 436,971.52          | 624,149.94         | 32° 12' 3.702 N  | 104° 3' 56.163 W |
| 18,008.0                                                                                    | 89.80           | 358.30      | 10,604.0              | 7,483.2      | -80.0        | 437,064.43          | 624,146.04         | 32° 12' 4.622 N  | 104° 3' 56.205 W |
| 18,101.0                                                                                    | 89.00           | 356.70      | 10,604.9              | 7,576.1      | -84.0        | 437,157.33          | 624,141.99         | 32° 12' 5.541 N  | 104° 3' 56.250 W |
| 18,195.0                                                                                    | 92.70           | 1.20        | 10,603.5              | 7,670.1      | -85.7        | 437,251.27          | 624,140.26         | 32° 12' 6.471 N  | 104° 3' 56.267 W |
| 18,288.0                                                                                    | 92.00           | 3.40        | 10,599.7              | 7,762.9      | -82.0        | 437,344.11          | 624,143.99         | 32° 12' 7.390 N  | 104° 3' 56.221 W |
| 18,382.0                                                                                    | 90.80           | 3.80        | 10,597.4              | 7,856.7      | -76.1        | 437,437.89          | 624,149.89         | 32° 12' 8.318 N  | 104° 3' 56.150 W |
| PBHL Rustler Breaks 26-23 W2ML Fee Com #1H - New PBHL Rustler Breaks 26-23 W2ML Fee Com #1H |                 |             |                       |              |              |                     |                    |                  |                  |
| 18,435.0                                                                                    | 90.80           | 3.80        | 10,596.7              | 7,909.6      | -72.6        | 437,490.77          | 624,153.41         | 32° 12' 8.841 N  | 104° 3' 56.107 W |
| 18435.0' MD Projected to Bit                                                                |                 |             |                       |              |              |                     |                    |                  |                  |



**Stryker Directional**  
Survey Report - Geographic



|                  |                                                    |                                     |                                           |
|------------------|----------------------------------------------------|-------------------------------------|-------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Rustler Breaks 26/23 W2ML Fee Com 1H |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Site:</b>     | Section 35 26 23-24S-28E Rustler Breaks 26/23 W2ML | <b>MD Reference:</b>                | 2969 + 27 @ 2996.0usft (Patterson 242)    |
| <b>Well:</b>     | Rustler Breaks 26/23 W2ML Fee Com 1H               | <b>North Reference:</b>             | Grid                                      |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                         |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | STYKER_EDM                                |

| Design Annotations          |                             |                   |                 |                              |  |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                      |  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                              |  |
| 18,435.0                    | 10,596.7                    | 7,909.6           | -72.6           | 18435.0' MD Projected to Bit |  |