



# Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 5-4-23S-27E Wolfman 5-4 W0LI Fed Com 1H

Wolfman 5-4 W0LI Fed Com 1H

*30.015 44544*

Original Hole

Design: Original Hole

## Survey Report - Geographic

04 January, 2018





# Microsoft Survey Report - Geographic



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 5-4-23S-27E Wolfman 5-4 WOLI Fed Com 1H  
**Well:** Wolfman 5-4 WOLI Fed Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Wolfman 5-4 WOLI Fed Com 1H  
**TVD Reference:** 3182 + 27 @ 3209.0usft (Patterson 220)  
**MD Reference:** 3182 + 27 @ 3209.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Project** Eddy County, N.M. Nad (83)  
**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** New Mexico Eastern Zone

**System Datum:** Mean Sea Level

**Site** Section 5-4-23S-27E Wolfman 5-4 WOLI Fed Com 1H

**Site Position:** Northing: 484,247.00 usft Latitude: 32° 19' 52.378 N  
**From:** Map Easting: 576,272.70 usft Longitude: 104° 13' 12.815 W  
**Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.06 °

**Well** Wolfman 5-4 WOLI Fed Com 1H

**Well Position** +N/-S 0.0 usft Northing: 484,247.00 usft Latitude: 32° 19' 52.378 N  
+E/-W 0.0 usft Easting: 576,272.70 usft Longitude: 104° 13' 12.815 W  
**Position Uncertainty** 0.0 usft Wellhead Elevation: 27.0 usft Ground Level: 3,182.0 usft

**Wellbore** Original Hole

**Magnetics** Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)  
IGRF2015 12/4/2017 7.21 60.05 47,885.86686199

**Design** Original Hole

**Audit Notes:**

**Version:** 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0

**Vertical Section:** Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)  
0.0 0.0 0.0 14.91

**Survey Program** Date 1/4/2018

| From (usft) | To (usft) | Survey (Wellbore)          | Tool Name | Description                 |
|-------------|-----------|----------------------------|-----------|-----------------------------|
| 100.0       | 18,783.0  | 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         |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 484,247.00          | 576,272.70         | 32° 19' 52.378 N | 104° 13' 12.815 W |
| 100.0                 | 0.40            | 70.00       | 100.0                 | 0.1          | 0.3          | 484,247.12          | 576,273.03         | 32° 19' 52.379 N | 104° 13' 12.811 W |
| 200.0                 | 0.90            | 77.00       | 200.0                 | 0.4          | 1.4          | 484,247.42          | 576,274.12         | 32° 19' 52.382 N | 104° 13' 12.798 W |
| 295.0                 | 2.20            | 58.00       | 295.0                 | 1.5          | 3.7          | 484,248.55          | 576,276.40         | 32° 19' 52.394 N | 104° 13' 12.772 W |
| 394.0                 | 2.50            | 53.00       | 393.9                 | 3.9          | 7.0          | 484,250.86          | 576,279.73         | 32° 19' 52.416 N | 104° 13' 12.733 W |
| 419.0                 | 2.50            | 53.00       | 418.8                 | 4.5          | 7.9          | 484,251.51          | 576,280.60         | 32° 19' 52.423 N | 104° 13' 12.723 W |
| 441.0                 | 2.50            | 53.10       | 440.8                 | 5.1          | 8.7          | 484,252.09          | 576,281.37         | 32° 19' 52.429 N | 104° 13' 12.714 W |
| 534.0                 | 2.30            | 60.60       | 533.7                 | 7.2          | 11.9         | 484,254.22          | 576,284.62         | 32° 19' 52.450 N | 104° 13' 12.676 W |
| 593.0                 | 1.50            | 62.90       | 592.7                 | 8.2          | 13.6         | 484,255.16          | 576,286.34         | 32° 19' 52.459 N | 104° 13' 12.656 W |
| 653.0                 | 0.10            | 195.10      | 652.7                 | 8.5          | 14.3         | 484,255.46          | 576,287.02         | 32° 19' 52.462 N | 104° 13' 12.648 W |
| 713.0                 | 0.50            | 174.20      | 712.7                 | 8.2          | 14.3         | 484,255.15          | 576,287.04         | 32° 19' 52.459 N | 104° 13' 12.648 W |

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**Wellbore:** Original Hole  
**Design:** Original Hole

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**MD Reference:** 3182 + 27 @ 3209.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|
| 773.0                       | 0.70               | 180.30         | 772.7                       | 7.5             | 14.4            | 484,254.53                | 576,287.06               | 32° 19' 52.453 N | 104° 13' 12.647 W |
| 833.0                       | 0.50               | 174.00         | 832.7                       | 6.9             | 14.4            | 484,253.90                | 576,287.09               | 32° 19' 52.446 N | 104° 13' 12.647 W |
| 929.0                       | 0.40               | 256.30         | 928.7                       | 6.4             | 14.1            | 484,253.40                | 576,286.80               | 32° 19' 52.441 N | 104° 13' 12.650 W |
| 992.0                       | 0.20               | 305.00         | 991.7                       | 6.4             | 13.8            | 484,253.41                | 576,286.50               | 32° 19' 52.442 N | 104° 13' 12.654 W |
| 1,055.0                     | 0.10               | 125.50         | 1,054.7                     | 6.4             | 13.8            | 484,253.45                | 576,286.46               | 32° 19' 52.442 N | 104° 13' 12.654 W |
| 1,119.0                     | 0.70               | 114.10         | 1,118.7                     | 6.3             | 14.2            | 484,253.25                | 576,286.86               | 32° 19' 52.440 N | 104° 13' 12.650 W |
| 1,182.0                     | 1.60               | 118.20         | 1,181.7                     | 5.7             | 15.3            | 484,252.68                | 576,287.98               | 32° 19' 52.434 N | 104° 13' 12.637 W |
| 1,245.0                     | 1.80               | 114.00         | 1,244.7                     | 4.9             | 17.0            | 484,251.86                | 576,289.66               | 32° 19' 52.426 N | 104° 13' 12.617 W |
| 1,309.0                     | 2.00               | 111.50         | 1,308.6                     | 4.0             | 18.9            | 484,251.04                | 576,291.62               | 32° 19' 52.418 N | 104° 13' 12.594 W |
| 1,372.0                     | 1.80               | 108.50         | 1,371.6                     | 3.3             | 20.9            | 484,250.33                | 576,293.58               | 32° 19' 52.411 N | 104° 13' 12.571 W |
| 1,436.0                     | 1.30               | 97.60          | 1,435.6                     | 2.9             | 22.6            | 484,249.91                | 576,295.25               | 32° 19' 52.407 N | 104° 13' 12.552 W |
| 1,499.0                     | 1.50               | 88.10          | 1,498.5                     | 2.8             | 24.1            | 484,249.85                | 576,296.79               | 32° 19' 52.406 N | 104° 13' 12.534 W |
| 1,563.0                     | 1.90               | 89.30          | 1,562.5                     | 2.9             | 26.0            | 484,249.89                | 576,298.69               | 32° 19' 52.407 N | 104° 13' 12.512 W |
| 1,626.0                     | 2.20               | 91.40          | 1,625.5                     | 2.9             | 28.2            | 484,249.87                | 576,300.94               | 32° 19' 52.406 N | 104° 13' 12.486 W |
| 1,689.0                     | 2.40               | 90.20          | 1,688.4                     | 2.8             | 30.8            | 484,249.84                | 576,303.47               | 32° 19' 52.406 N | 104° 13' 12.456 W |
| 1,753.0                     | 1.10               | 85.30          | 1,752.4                     | 2.9             | 32.7            | 484,249.88                | 576,305.42               | 32° 19' 52.406 N | 104° 13' 12.433 W |
| 1,798.0                     | 0.40               | 296.90         | 1,797.4                     | 3.0             | 33.0            | 484,249.99                | 576,305.71               | 32° 19' 52.407 N | 104° 13' 12.430 W |
| 1,876.0                     | 0.70               | 294.40         | 1,875.4                     | 3.3             | 32.3            | 484,250.31                | 576,305.03               | 32° 19' 52.411 N | 104° 13' 12.438 W |
| 1,971.0                     | 0.80               | 290.00         | 1,970.4                     | 3.8             | 31.2            | 484,250.77                | 576,303.88               | 32° 19' 52.415 N | 104° 13' 12.451 W |
| 2,065.0                     | 2.30               | 351.10         | 2,064.3                     | 5.9             | 30.3            | 484,252.86                | 576,302.97               | 32° 19' 52.436 N | 104° 13' 12.462 W |
| 2,160.0                     | 3.50               | 359.00         | 2,159.2                     | 10.6            | 29.9            | 484,257.64                | 576,302.63               | 32° 19' 52.483 N | 104° 13' 12.466 W |
| 2,255.0                     | 3.50               | 3.20           | 2,254.0                     | 16.4            | 30.0            | 484,263.44                | 576,302.74               | 32° 19' 52.541 N | 104° 13' 12.465 W |
| 2,349.0                     | 3.30               | 359.50         | 2,347.9                     | 22.0            | 30.2            | 484,269.01                | 576,302.87               | 32° 19' 52.596 N | 104° 13' 12.463 W |
| 2,443.0                     | 2.80               | 355.50         | 2,441.7                     | 27.0            | 30.0            | 484,274.00                | 576,302.67               | 32° 19' 52.645 N | 104° 13' 12.465 W |
| 2,538.0                     | 3.50               | 357.70         | 2,536.6                     | 32.2            | 29.7            | 484,279.21                | 576,302.37               | 32° 19' 52.697 N | 104° 13' 12.469 W |
| 2,632.0                     | 3.30               | 355.70         | 2,630.4                     | 37.8            | 29.4            | 484,284.78                | 576,302.05               | 32° 19' 52.752 N | 104° 13' 12.472 W |
| 2,726.0                     | 4.20               | 356.30         | 2,724.2                     | 43.9            | 28.9            | 484,290.91                | 576,301.63               | 32° 19' 52.813 N | 104° 13' 12.477 W |
| 2,821.0                     | 3.90               | 355.50         | 2,819.0                     | 50.6            | 28.4            | 484,297.61                | 576,301.15               | 32° 19' 52.879 N | 104° 13' 12.483 W |
| 2,915.0                     | 4.00               | 353.10         | 2,912.8                     | 57.0            | 27.8            | 484,304.05                | 576,300.51               | 32° 19' 52.942 N | 104° 13' 12.490 W |
| 3,010.0                     | 3.90               | 354.40         | 3,007.5                     | 63.6            | 27.1            | 484,310.55                | 576,299.79               | 32° 19' 53.007 N | 104° 13' 12.498 W |
| 3,104.0                     | 4.10               | 352.60         | 3,101.3                     | 70.1            | 26.3            | 484,317.07                | 576,299.05               | 32° 19' 53.071 N | 104° 13' 12.507 W |
| 3,199.0                     | 3.60               | 348.00         | 3,196.1                     | 76.3            | 25.3            | 484,323.35                | 576,297.99               | 32° 19' 53.134 N | 104° 13' 12.519 W |
| 3,292.0                     | 3.50               | 349.60         | 3,288.9                     | 82.0            | 24.2            | 484,329.00                | 576,296.87               | 32° 19' 53.189 N | 104° 13' 12.532 W |
| 3,387.0                     | 3.30               | 352.90         | 3,383.8                     | 87.6            | 23.3            | 484,334.56                | 576,296.01               | 32° 19' 53.245 N | 104° 13' 12.542 W |
| 3,482.0                     | 4.30               | 354.10         | 3,478.5                     | 93.8            | 22.6            | 484,340.82                | 576,295.31               | 32° 19' 53.306 N | 104° 13' 12.550 W |
| 3,576.0                     | 4.30               | 357.10         | 3,572.3                     | 100.8           | 22.1            | 484,347.85                | 576,294.77               | 32° 19' 53.376 N | 104° 13' 12.556 W |
| 3,671.0                     | 3.90               | 353.10         | 3,667.0                     | 107.6           | 21.5            | 484,354.61                | 576,294.20               | 32° 19' 53.443 N | 104° 13' 12.563 W |
| 3,765.0                     | 3.50               | 346.00         | 3,760.8                     | 113.6           | 20.4            | 484,360.57                | 576,293.12               | 32° 19' 53.502 N | 104° 13' 12.575 W |
| 3,860.0                     | 3.40               | 345.70         | 3,855.7                     | 119.1           | 19.0            | 484,366.11                | 576,291.72               | 32° 19' 53.557 N | 104° 13' 12.592 W |
| 3,955.0                     | 3.00               | 337.80         | 3,950.5                     | 124.1           | 17.4            | 484,371.14                | 576,290.09               | 32° 19' 53.607 N | 104° 13' 12.611 W |
| 4,050.0                     | 3.80               | 351.10         | 4,045.4                     | 129.6           | 16.0            | 484,376.55                | 576,288.66               | 32° 19' 53.660 N | 104° 13' 12.627 W |
| 4,144.0                     | 4.70               | 354.40         | 4,139.1                     | 136.5           | 15.1            | 484,383.46                | 576,287.80               | 32° 19' 53.729 N | 104° 13' 12.637 W |
| 4,238.0                     | 3.90               | 349.50         | 4,232.8                     | 143.4           | 14.1            | 484,390.44                | 576,286.84               | 32° 19' 53.798 N | 104° 13' 12.648 W |
| 4,333.0                     | 3.50               | 341.40         | 4,327.6                     | 149.4           | 12.6            | 484,396.37                | 576,285.33               | 32° 19' 53.856 N | 104° 13' 12.666 W |
| 4,427.0                     | 4.40               | 351.20         | 4,421.4                     | 155.6           | 11.2            | 484,402.65                | 576,283.86               | 32° 19' 53.918 N | 104° 13' 12.683 W |
| 4,522.0                     | 4.00               | 349.60         | 4,516.2                     | 162.5           | 10.0            | 484,409.51                | 576,282.71               | 32° 19' 53.986 N | 104° 13' 12.696 W |
| 4,616.0                     | 3.50               | 345.50         | 4,610.0                     | 168.5           | 8.7             | 484,415.51                | 576,281.40               | 32° 19' 54.046 N | 104° 13' 12.711 W |
| 4,710.0                     | 4.50               | 354.30         | 4,703.7                     | 175.0           | 7.6             | 484,421.96                | 576,280.31               | 32° 19' 54.110 N | 104° 13' 12.724 W |
| 4,805.0                     | 3.70               | 348.00         | 4,798.5                     | 181.7           | 6.6             | 484,428.67                | 576,279.31               | 32° 19' 54.176 N | 104° 13' 12.736 W |
| 4,900.0                     | 4.10               | 353.40         | 4,893.3                     | 188.0           | 5.6             | 484,435.04                | 576,278.28               | 32° 19' 54.239 N | 104° 13' 12.748 W |
| 4,994.0                     | 5.10               | 6.20           | 4,987.0                     | 195.5           | 5.6             | 484,442.53                | 576,278.34               | 32° 19' 54.313 N | 104° 13' 12.747 W |
| 5,088.0                     | 4.70               | 10.90          | 5,080.6                     | 203.5           | 6.8             | 484,450.46                | 576,279.52               | 32° 19' 54.392 N | 104° 13' 12.733 W |
| 5,183.0                     | 3.60               | 13.40          | 5,175.4                     | 210.2           | 8.2             | 484,457.19                | 576,280.95               | 32° 19' 54.458 N | 104° 13' 12.716 W |
| 5,277.0                     | 4.50               | 13.10          | 5,269.1                     | 216.6           | 9.8             | 484,463.65                | 576,282.47               | 32° 19' 54.522 N | 104° 13' 12.698 W |



Microsoft  
Survey Report - Geographic



Company: Mewbourne Oil Company  
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Well: Wolfman 5-4 WOLI Fed Com 1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Wolfman 5-4 WOLI Fed Com 1H  
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 220)  
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 220)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| Measured<br>Depth<br>(usft)             | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|-----------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|
| 5,373.0                                 | 3.80               | 4.50           | 5,364.9                     | 223.5           | 10.9            | 484,470.49                | 576,283.57               | 32° 19' 54.590 N | 104° 13' 12.685 W |
| 5,467.0                                 | 5.50               | 356.90         | 5,458.6                     | 231.1           | 10.9            | 484,478.09                | 576,283.57               | 32° 19' 54.665 N | 104° 13' 12.685 W |
| 5,561.0                                 | 4.40               | 350.50         | 5,552.2                     | 239.1           | 10.0            | 484,486.15                | 576,282.73               | 32° 19' 54.745 N | 104° 13' 12.695 W |
| 5,656.0                                 | 4.40               | 340.30         | 5,646.9                     | 246.2           | 8.2             | 484,493.17                | 576,280.90               | 32° 19' 54.814 N | 104° 13' 12.716 W |
| 5,751.0                                 | 4.30               | 337.80         | 5,741.7                     | 252.9           | 5.6             | 484,499.90                | 576,278.33               | 32° 19' 54.881 N | 104° 13' 12.746 W |
| 5,846.0                                 | 4.30               | 4.80           | 5,836.4                     | 259.7           | 4.6             | 484,506.75                | 576,277.28               | 32° 19' 54.949 N | 104° 13' 12.758 W |
| 5,940.0                                 | 3.40               | 18.70          | 5,930.2                     | 265.9           | 5.8             | 484,512.90                | 576,278.47               | 32° 19' 55.010 N | 104° 13' 12.744 W |
| 6,034.0                                 | 5.00               | 18.00          | 6,023.9                     | 272.4           | 7.9             | 484,519.44                | 576,280.63               | 32° 19' 55.074 N | 104° 13' 12.719 W |
| 6,130.0                                 | 4.50               | 18.80          | 6,119.6                     | 280.0           | 10.4            | 484,526.98                | 576,283.14               | 32° 19' 55.149 N | 104° 13' 12.690 W |
| 6,225.0                                 | 4.30               | 30.80          | 6,214.3                     | 286.6           | 13.5            | 484,533.57                | 576,286.16               | 32° 19' 55.214 N | 104° 13' 12.654 W |
| 6,320.0                                 | 4.60               | 15.40          | 6,309.1                     | 293.3           | 16.3            | 484,540.30                | 576,289.00               | 32° 19' 55.281 N | 104° 13' 12.621 W |
| 6,415.0                                 | 3.80               | 21.70          | 6,403.8                     | 299.9           | 18.5            | 484,546.90                | 576,291.17               | 32° 19' 55.346 N | 104° 13' 12.596 W |
| 6,510.0                                 | 1.20               | 4.30           | 6,498.7                     | 303.8           | 19.7            | 484,550.82                | 576,292.41               | 32° 19' 55.385 N | 104° 13' 12.581 W |
| 6,604.0                                 | 2.40               | 341.90         | 6,592.7                     | 306.7           | 19.2            | 484,553.67                | 576,291.87               | 32° 19' 55.413 N | 104° 13' 12.588 W |
| 6,698.0                                 | 2.80               | 350.50         | 6,686.6                     | 310.8           | 18.2            | 484,557.80                | 576,290.88               | 32° 19' 55.454 N | 104° 13' 12.599 W |
| 6,793.0                                 | 2.10               | 358.60         | 6,781.5                     | 314.8           | 17.8            | 484,561.83                | 576,290.46               | 32° 19' 55.494 N | 104° 13' 12.604 W |
| 6,888.0                                 | 2.30               | 22.80          | 6,876.4                     | 318.3           | 18.5            | 484,565.33                | 576,291.15               | 32° 19' 55.528 N | 104° 13' 12.596 W |
| 6,983.0                                 | 3.30               | 28.70          | 6,971.3                     | 322.5           | 20.5            | 484,569.49                | 576,293.21               | 32° 19' 55.569 N | 104° 13' 12.572 W |
| 7,078.0                                 | 2.90               | 31.50          | 7,066.1                     | 326.9           | 23.1            | 484,573.93                | 576,295.77               | 32° 19' 55.613 N | 104° 13' 12.542 W |
| 7,173.0                                 | 2.20               | 29.00          | 7,161.1                     | 330.6           | 25.2            | 484,577.58                | 576,297.91               | 32° 19' 55.649 N | 104° 13' 12.517 W |
| 7,267.0                                 | 1.60               | 32.70          | 7,255.0                     | 333.3           | 26.8            | 484,580.26                | 576,299.50               | 32° 19' 55.676 N | 104° 13' 12.498 W |
| 7,362.0                                 | 1.10               | 42.00          | 7,350.0                     | 335.1           | 28.1            | 484,582.05                | 576,300.82               | 32° 19' 55.694 N | 104° 13' 12.483 W |
| 7,456.0                                 | 1.00               | 74.00          | 7,444.0                     | 335.9           | 29.5            | 484,582.95                | 576,302.22               | 32° 19' 55.702 N | 104° 13' 12.467 W |
| 7,551.0                                 | 1.90               | 58.30          | 7,538.9                     | 337.0           | 31.7            | 484,584.01                | 576,304.35               | 32° 19' 55.713 N | 104° 13' 12.442 W |
| 7,646.0                                 | 3.20               | 81.30          | 7,633.8                     | 338.2           | 35.6            | 484,585.24                | 576,308.32               | 32° 19' 55.725 N | 104° 13' 12.396 W |
| 7,740.0                                 | 3.70               | 53.50          | 7,727.7                     | 340.4           | 40.6            | 484,587.44                | 576,313.35               | 32° 19' 55.747 N | 104° 13' 12.337 W |
| 7,834.0                                 | 2.90               | 53.40          | 7,821.5                     | 343.7           | 45.0            | 484,590.66                | 576,317.69               | 32° 19' 55.779 N | 104° 13' 12.286 W |
| 7,929.0                                 | 1.70               | 61.00          | 7,916.4                     | 345.8           | 48.2            | 484,592.77                | 576,320.86               | 32° 19' 55.799 N | 104° 13' 12.249 W |
| 8,023.0                                 | 1.70               | 155.80         | 8,010.4                     | 345.2           | 49.9            | 484,592.18                | 576,322.65               | 32° 19' 55.794 N | 104° 13' 12.228 W |
| 8,118.0                                 | 0.90               | 141.40         | 8,105.4                     | 343.3           | 51.0            | 484,590.31                | 576,323.69               | 32° 19' 55.775 N | 104° 13' 12.216 W |
| 8,212.0                                 | 0.40               | 193.60         | 8,199.4                     | 342.4           | 51.4            | 484,589.41                | 576,324.07               | 32° 19' 55.766 N | 104° 13' 12.212 W |
| 8,307.0                                 | 0.50               | 206.50         | 8,294.4                     | 341.7           | 51.1            | 484,588.72                | 576,323.81               | 32° 19' 55.759 N | 104° 13' 12.215 W |
| 8,402.0                                 | 0.70               | 219.50         | 8,389.4                     | 340.9           | 50.6            | 484,587.90                | 576,323.26               | 32° 19' 55.751 N | 104° 13' 12.221 W |
| 8,412.2                                 | 0.60               | 217.18         | 8,399.6                     | 340.8           | 50.5            | 484,587.81                | 576,323.19               | 32° 19' 55.750 N | 104° 13' 12.222 W |
| <b>B.B. Wolfman 5-4 WOLI Fed Com 1H</b> |                    |                |                             |                 |                 |                           |                          |                  |                   |
| 8,433.0                                 | 0.40               | 208.90         | 8,420.4                     | 340.7           | 50.4            | 484,587.66                | 576,323.08               | 32° 19' 55.749 N | 104° 13' 12.223 W |
| 8,519.0                                 | 4.70               | 87.90          | 8,506.3                     | 340.5           | 53.8            | 484,587.53                | 576,326.46               | 32° 19' 55.748 N | 104° 13' 12.184 W |
| 8,550.0                                 | 8.80               | 85.00          | 8,537.1                     | 340.8           | 57.4            | 484,587.78                | 576,330.10               | 32° 19' 55.750 N | 104° 13' 12.142 W |
| 8,582.0                                 | 13.20              | 79.00          | 8,568.5                     | 341.7           | 63.4            | 484,588.69                | 576,336.12               | 32° 19' 55.759 N | 104° 13' 12.071 W |
| 8,613.0                                 | 17.10              | 76.60          | 8,598.4                     | 343.4           | 71.3            | 484,590.42                | 576,344.03               | 32° 19' 55.776 N | 104° 13' 11.979 W |
| 8,645.0                                 | 20.10              | 75.20          | 8,628.7                     | 345.9           | 81.2            | 484,592.92                | 576,353.93               | 32° 19' 55.801 N | 104° 13' 11.864 W |
| 8,676.0                                 | 24.60              | 75.30          | 8,657.4                     | 348.9           | 92.6            | 484,595.92                | 576,365.33               | 32° 19' 55.830 N | 104° 13' 11.731 W |
| 8,708.0                                 | 28.20              | 75.80          | 8,686.0                     | 352.5           | 106.4           | 484,599.47                | 576,379.10               | 32° 19' 55.865 N | 104° 13' 11.570 W |
| 8,739.0                                 | 30.90              | 76.00          | 8,713.0                     | 356.2           | 121.2           | 484,603.19                | 576,393.93               | 32° 19' 55.902 N | 104° 13' 11.397 W |
| 8,771.0                                 | 34.40              | 75.70          | 8,739.9                     | 360.4           | 138.0           | 484,607.41                | 576,410.67               | 32° 19' 55.943 N | 104° 13' 11.202 W |
| 8,802.0                                 | 38.30              | 75.20          | 8,764.9                     | 365.0           | 155.7           | 484,612.03                | 576,428.45               | 32° 19' 55.989 N | 104° 13' 10.995 W |
| 8,834.0                                 | 41.50              | 74.70          | 8,789.4                     | 370.4           | 175.6           | 484,617.36                | 576,448.27               | 32° 19' 56.041 N | 104° 13' 10.764 W |
| 8,865.0                                 | 46.00              | 74.50          | 8,811.8                     | 376.1           | 196.2           | 484,623.05                | 576,468.93               | 32° 19' 56.098 N | 104° 13' 10.523 W |
| 8,896.0                                 | 49.20              | 75.00          | 8,832.7                     | 382.1           | 218.3           | 484,629.07                | 576,491.01               | 32° 19' 56.157 N | 104° 13' 10.266 W |
| 8,928.0                                 | 52.00              | 75.20          | 8,853.0                     | 388.4           | 242.2           | 484,635.43                | 576,514.91               | 32° 19' 56.220 N | 104° 13' 9.987 W  |
| 8,959.0                                 | 54.90              | 75.20          | 8,871.5                     | 394.8           | 266.3           | 484,641.79                | 576,538.98               | 32° 19' 56.282 N | 104° 13' 9.706 W  |
| 8,992.0                                 | 58.30              | 75.50          | 8,889.7                     | 401.8           | 292.9           | 484,648.75                | 576,565.63               | 32° 19' 56.351 N | 104° 13' 9.396 W  |
| 9,023.0                                 | 61.10              | 76.00          | 8,905.3                     | 408.3           | 318.9           | 484,655.34                | 576,591.57               | 32° 19' 56.416 N | 104° 13' 9.093 W  |
| 9,055.0                                 | 64.80              | 76.70          | 8,919.8                     | 415.1           | 346.6           | 484,662.06                | 576,619.26               | 32° 19' 56.482 N | 104° 13' 8.770 W  |



Microsoft  
Survey Report - Geographic



Company: Mewbourne Oil Company  
Project: Eddy County, N.M. Nad (83)  
Site: Section 5-4-23S-27E Wolfman 5-4 WOLI Fed Com 1H  
Well: Wolfman 5-4 WOLI Fed Com 1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Wolfman 5-4 WOLI Fed Com 1H  
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 220)  
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 220)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| Measured<br>Depth<br>(usft)    | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|--------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|
| 9,086.0                        | 67.90              | 77.70          | 8,932.3                     | 421.3           | 374.2           | 484,668.35                | 576,646.95               | 32° 19' 56.544 N | 104° 13' 8.448 W  |
| 9,118.0                        | 70.40              | 78.90          | 8,943.7                     | 427.4           | 403.5           | 484,674.41                | 576,676.23               | 32° 19' 56.604 N | 104° 13' 8.106 W  |
| 9,149.0                        | 73.00              | 80.20          | 8,953.4                     | 432.7           | 432.5           | 484,679.75                | 576,705.17               | 32° 19' 56.656 N | 104° 13' 7.769 W  |
| 9,181.0                        | 76.00              | 80.80          | 8,962.0                     | 437.8           | 462.9           | 484,684.83                | 576,735.58               | 32° 19' 56.706 N | 104° 13' 7.414 W  |
| 9,196.6                        | 77.46              | 81.36          | 8,965.5                     | 440.2           | 477.8           | 484,687.18                | 576,750.55               | 32° 19' 56.729 N | 104° 13' 7.240 W  |
| LP Wolfman 5-4 WOLI Fed Com 1H |                    |                |                             |                 |                 |                           |                          |                  |                   |
| 9,212.0                        | 78.90              | 81.90          | 8,968.7                     | 442.4           | 492.8           | 484,689.38                | 576,765.49               | 32° 19' 56.751 N | 104° 13' 7.066 W  |
| 9,232.0                        | 80.90              | 81.80          | 8,972.2                     | 445.2           | 512.3           | 484,692.17                | 576,784.98               | 32° 19' 56.778 N | 104° 13' 6.838 W  |
| 9,295.0                        | 85.80              | 84.80          | 8,979.5                     | 452.5           | 574.4           | 484,699.46                | 576,847.11               | 32° 19' 56.850 N | 104° 13' 6.114 W  |
| 9,358.0                        | 88.90              | 84.40          | 8,982.4                     | 458.4           | 637.0           | 484,705.39                | 576,909.75               | 32° 19' 56.908 N | 104° 13' 5.384 W  |
| 9,452.0                        | 88.90              | 84.10          | 8,984.2                     | 467.8           | 730.6           | 484,714.80                | 577,003.26               | 32° 19' 57.000 N | 104° 13' 4.294 W  |
| 9,546.0                        | 87.30              | 82.60          | 8,987.3                     | 478.7           | 823.9           | 484,725.68                | 577,096.57               | 32° 19' 57.107 N | 104° 13' 3.206 W  |
| 9,641.0                        | 90.00              | 83.10          | 8,989.6                     | 490.5           | 918.1           | 484,737.50                | 577,190.80               | 32° 19' 57.222 N | 104° 13' 2.108 W  |
| 9,735.0                        | 89.50              | 82.60          | 8,990.0                     | 502.2           | 1,011.4         | 484,749.20                | 577,284.06               | 32° 19' 57.337 N | 104° 13' 1.021 W  |
| 9,830.0                        | 89.60              | 81.60          | 8,990.7                     | 515.3           | 1,105.5         | 484,762.26                | 577,378.16               | 32° 19' 57.465 N | 104° 12' 59.924 W |
| 9,924.0                        | 91.80              | 84.10          | 8,989.6                     | 527.0           | 1,198.7         | 484,773.95                | 577,471.41               | 32° 19' 57.580 N | 104° 12' 58.837 W |
| 10,019.0                       | 90.10              | 87.30          | 8,988.0                     | 534.1           | 1,293.4         | 484,781.07                | 577,566.11               | 32° 19' 57.650 N | 104° 12' 57.733 W |
| 10,114.0                       | 89.90              | 88.20          | 8,988.0                     | 537.8           | 1,388.3         | 484,784.80                | 577,661.04               | 32° 19' 57.686 N | 104° 12' 56.626 W |
| 10,208.0                       | 87.30              | 87.90          | 8,990.3                     | 541.0           | 1,482.2         | 484,788.00                | 577,754.95               | 32° 19' 57.716 N | 104° 12' 55.532 W |
| 10,303.0                       | 86.40              | 86.30          | 8,995.5                     | 545.8           | 1,577.0         | 484,792.80                | 577,849.68               | 32° 19' 57.763 N | 104° 12' 54.428 W |
| 10,397.0                       | 91.20              | 85.50          | 8,997.5                     | 552.5           | 1,670.7         | 484,799.52                | 577,943.39               | 32° 19' 57.828 N | 104° 12' 53.335 W |
| 10,491.0                       | 89.20              | 86.10          | 8,997.2                     | 559.4           | 1,764.4         | 484,806.40                | 578,037.13               | 32° 19' 57.895 N | 104° 12' 52.242 W |
| 10,587.0                       | 87.50              | 85.00          | 8,999.9                     | 566.8           | 1,860.1         | 484,813.85                | 578,132.80               | 32° 19' 57.968 N | 104° 12' 51.127 W |
| 10,683.0                       | 90.00              | 87.70          | 9,002.0                     | 573.0           | 1,955.9         | 484,819.95                | 578,228.56               | 32° 19' 58.027 N | 104° 12' 50.011 W |
| 10,779.0                       | 90.70              | 89.80          | 9,001.4                     | 575.0           | 2,051.8         | 484,822.05                | 578,324.53               | 32° 19' 58.047 N | 104° 12' 48.892 W |
| 10,873.0                       | 87.30              | 86.40          | 9,003.1                     | 578.2           | 2,145.7         | 484,825.16                | 578,418.44               | 32° 19' 58.077 N | 104° 12' 47.798 W |
| 10,968.0                       | 88.00              | 84.60          | 9,007.0                     | 585.6           | 2,240.4         | 484,832.61                | 578,513.06               | 32° 19' 58.149 N | 104° 12' 46.695 W |
| 11,063.0                       | 88.10              | 84.00          | 9,010.2                     | 595.0           | 2,334.8         | 484,842.04                | 578,607.54               | 32° 19' 58.241 N | 104° 12' 45.594 W |
| 11,158.0                       | 88.60              | 84.40          | 9,012.9                     | 604.6           | 2,429.3         | 484,851.64                | 578,702.01               | 32° 19' 58.335 N | 104° 12' 44.492 W |
| 11,254.0                       | 91.10              | 86.30          | 9,013.2                     | 612.4           | 2,525.0         | 484,859.42                | 578,797.68               | 32° 19' 58.411 N | 104° 12' 43.377 W |
| 11,348.0                       | 90.00              | 85.70          | 9,012.3                     | 619.0           | 2,618.7         | 484,865.97                | 578,891.45               | 32° 19' 58.475 N | 104° 12' 42.284 W |
| 11,443.0                       | 89.50              | 85.50          | 9,012.7                     | 626.3           | 2,713.5         | 484,873.26                | 578,986.17               | 32° 19' 58.546 N | 104° 12' 41.180 W |
| 11,537.0                       | 89.30              | 87.60          | 9,013.7                     | 631.9           | 2,807.3         | 484,878.92                | 579,079.98               | 32° 19' 58.601 N | 104° 12' 40.086 W |
| 11,631.0                       | 90.90              | 89.50          | 9,013.5                     | 634.3           | 2,901.2         | 484,881.30                | 579,173.95               | 32° 19' 58.624 N | 104° 12' 38.991 W |
| 11,726.0                       | 89.80              | 89.10          | 9,012.9                     | 635.5           | 2,996.2         | 484,882.46                | 579,268.94               | 32° 19' 58.634 N | 104° 12' 37.884 W |
| 11,821.0                       | 89.70              | 88.80          | 9,013.3                     | 637.2           | 3,091.2         | 484,884.20                | 579,363.92               | 32° 19' 58.650 N | 104° 12' 36.777 W |
| 11,915.0                       | 88.50              | 87.00          | 9,014.8                     | 640.6           | 3,185.1         | 484,887.64                | 579,457.84               | 32° 19' 58.683 N | 104° 12' 35.682 W |
| 12,009.0                       | 87.00              | 89.40          | 9,018.5                     | 643.6           | 3,279.0         | 484,890.59                | 579,551.71               | 32° 19' 58.711 N | 104° 12' 34.588 W |
| 12,104.0                       | 87.60              | 89.90          | 9,023.0                     | 644.2           | 3,373.9         | 484,891.17                | 579,646.60               | 32° 19' 58.716 N | 104° 12' 33.482 W |
| 12,198.0                       | 88.40              | 89.70          | 9,026.3                     | 644.5           | 3,467.8         | 484,891.50                | 579,740.54               | 32° 19' 58.718 N | 104° 12' 32.387 W |
| 12,293.0                       | 91.30              | 88.00          | 9,026.5                     | 646.4           | 3,562.8         | 484,893.41                | 579,835.51               | 32° 19' 58.736 N | 104° 12' 31.280 W |
| 12,387.0                       | 90.90              | 86.40          | 9,024.7                     | 651.0           | 3,656.7         | 484,898.00                | 579,929.38               | 32° 19' 58.780 N | 104° 12' 30.186 W |
| 12,481.0                       | 89.70              | 87.60          | 9,024.2                     | 655.9           | 3,750.5         | 484,902.92                | 580,023.25               | 32° 19' 58.828 N | 104° 12' 29.092 W |
| 12,576.0                       | 87.80              | 89.20          | 9,026.3                     | 658.6           | 3,845.5         | 484,905.57                | 580,118.18               | 32° 19' 58.853 N | 104° 12' 27.985 W |
| 12,670.0                       | 85.50              | 88.10          | 9,031.8                     | 660.8           | 3,939.3         | 484,907.78                | 580,211.98               | 32° 19' 58.874 N | 104° 12' 26.892 W |
| 12,764.0                       | 90.40              | 89.70          | 9,035.1                     | 662.6           | 4,033.2         | 484,909.58                | 580,305.87               | 32° 19' 58.890 N | 104° 12' 25.797 W |
| 12,859.0                       | 90.50              | 89.10          | 9,034.4                     | 663.6           | 4,128.2         | 484,910.57                | 580,400.87               | 32° 19' 58.899 N | 104° 12' 24.690 W |
| 12,953.0                       | 90.50              | 90.90          | 9,033.6                     | 663.6           | 4,222.2         | 484,910.57                | 580,494.86               | 32° 19' 58.898 N | 104° 12' 23.595 W |
| 13,047.0                       | 91.60              | 90.90          | 9,031.9                     | 662.1           | 4,316.1         | 484,909.10                | 580,588.83               | 32° 19' 58.882 N | 104° 12' 22.499 W |
| 13,142.0                       | 92.00              | 92.10          | 9,028.9                     | 659.6           | 4,411.0         | 484,906.61                | 580,683.75               | 32° 19' 58.857 N | 104° 12' 21.393 W |
| 13,236.0                       | 87.20              | 92.10          | 9,029.5                     | 656.2           | 4,505.0         | 484,903.17                | 580,777.66               | 32° 19' 58.822 N | 104° 12' 20.299 W |
| 13,331.0                       | 85.40              | 93.00          | 9,035.7                     | 652.0           | 4,599.7         | 484,898.95                | 580,872.36               | 32° 19' 58.779 N | 104° 12' 19.195 W |
| 13,425.0                       | 86.00              | 90.30          | 9,042.7                     | 649.3           | 4,693.3         | 484,896.25                | 580,966.05               | 32° 19' 58.751 N | 104° 12' 18.103 W |
| 13,520.0                       | 86.70              | 89.10          | 9,048.8                     | 649.7           | 4,788.1         | 484,896.75                | 581,060.85               | 32° 19' 58.755 N | 104° 12' 16.998 W |



Microsoft  
Survey Report - Geographic



Company: Mewbourne Oil Company  
Project: Eddy County, N.M. Nad (83)  
Site: Section 5-4-23S-27E Wolfman 5-4 WOLI Fed Com 1H  
Well: Wolfman 5-4 WOLI Fed Com 1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Wolfman 5-4 WOLI Fed Com 1H  
TVD Reference: 3182 + 27 @ 3209.0usft (Patterson 220)  
MD Reference: 3182 + 27 @ 3209.0usft (Patterson 220)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|
| 13,614.0                    | 89.40              | 88.60          | 9,052.0                     | 651.6           | 4,882.1         | 484,898.64                | 581,154.77               | 32° 19' 58.772 N | 104° 12' 15.903 W |
| 13,709.0                    | 90.90              | 87.50          | 9,051.7                     | 654.9           | 4,977.0         | 484,901.87                | 581,249.71               | 32° 19' 58.803 N | 104° 12' 14.797 W |
| 13,803.0                    | 92.40              | 86.30          | 9,049.0                     | 659.9           | 5,070.8         | 484,906.95                | 581,343.53               | 32° 19' 58.852 N | 104° 12' 13.703 W |
| 13,847.4                    | 92.88              | 87.59          | 9,047.0                     | 662.3           | 5,115.1         | 484,909.32                | 581,387.85               | 32° 19' 58.875 N | 104° 12' 13.186 W |
| point                       |                    |                |                             |                 |                 |                           |                          |                  |                   |
| 13,896.0                    | 93.40              | 89.00          | 9,044.3                     | 663.8           | 5,163.6         | 484,910.76                | 581,436.32               | 32° 19' 58.889 N | 104° 12' 12.621 W |
| 13,990.0                    | 90.20              | 90.40          | 9,041.3                     | 664.2           | 5,257.6         | 484,911.25                | 581,530.26               | 32° 19' 58.893 N | 104° 12' 11.526 W |
| 14,085.0                    | 85.80              | 89.20          | 9,044.7                     | 664.6           | 5,352.5         | 484,911.58                | 581,625.17               | 32° 19' 58.895 N | 104° 12' 10.420 W |
| 14,181.0                    | 90.50              | 90.00          | 9,047.8                     | 665.2           | 5,448.4         | 484,912.25                | 581,721.09               | 32° 19' 58.900 N | 104° 12' 9.302 W  |
| 14,275.0                    | 92.00              | 91.50          | 9,045.7                     | 664.0           | 5,542.4         | 484,911.02                | 581,815.06               | 32° 19' 58.887 N | 104° 12' 8.207 W  |
| 14,369.0                    | 85.70              | 90.70          | 9,047.6                     | 662.2           | 5,636.3         | 484,909.21                | 581,908.97               | 32° 19' 58.868 N | 104° 12' 7.112 W  |
| 14,464.0                    | 89.90              | 91.50          | 9,051.2                     | 660.4           | 5,731.2         | 484,907.39                | 582,003.86               | 32° 19' 58.849 N | 104° 12' 6.006 W  |
| 14,559.0                    | 90.30              | 91.30          | 9,051.1                     | 658.1           | 5,826.1         | 484,905.07                | 582,098.84               | 32° 19' 58.824 N | 104° 12' 4.899 W  |
| 14,654.0                    | 90.00              | 91.50          | 9,050.8                     | 655.7           | 5,921.1         | 484,902.75                | 582,193.81               | 32° 19' 58.800 N | 104° 12' 3.792 W  |
| 14,748.0                    | 88.80              | 90.70          | 9,051.8                     | 653.9           | 6,015.1         | 484,900.94                | 582,287.78               | 32° 19' 58.781 N | 104° 12' 2.697 W  |
| 14,842.0                    | 88.70              | 89.50          | 9,053.9                     | 653.8           | 6,109.1         | 484,900.78                | 582,381.76               | 32° 19' 58.779 N | 104° 12' 1.602 W  |
| 14,937.0                    | 89.60              | 88.20          | 9,055.3                     | 655.7           | 6,204.0         | 484,902.69                | 582,476.73               | 32° 19' 58.796 N | 104° 12' 0.495 W  |
| 15,031.0                    | 89.10              | 86.30          | 9,056.3                     | 660.2           | 6,297.9         | 484,907.20                | 582,570.61               | 32° 19' 58.840 N | 104° 11' 59.401 W |
| 15,125.0                    | 88.70              | 89.10          | 9,058.1                     | 664.0           | 6,391.8         | 484,910.97                | 582,664.50               | 32° 19' 58.876 N | 104° 11' 58.306 W |
| 15,220.0                    | 90.70              | 89.40          | 9,058.6                     | 665.2           | 6,486.8         | 484,912.21                | 582,759.49               | 32° 19' 58.887 N | 104° 11' 57.199 W |
| 15,315.0                    | 91.10              | 90.00          | 9,057.1                     | 665.7           | 6,581.8         | 484,912.71                | 582,854.48               | 32° 19' 58.891 N | 104° 11' 56.092 W |
| 15,409.0                    | 88.40              | 91.00          | 9,057.6                     | 664.9           | 6,675.8         | 484,911.89                | 582,948.46               | 32° 19' 58.881 N | 104° 11' 54.996 W |
| 15,503.0                    | 88.40              | 90.40          | 9,060.2                     | 663.7           | 6,769.7         | 484,910.74                | 583,042.42               | 32° 19' 58.869 N | 104° 11' 53.901 W |
| 15,597.0                    | 88.10              | 90.80          | 9,063.0                     | 662.8           | 6,863.7         | 484,909.76                | 583,136.37               | 32° 19' 58.858 N | 104° 11' 52.806 W |
| 15,692.0                    | 87.60              | 90.60          | 9,066.6                     | 661.6           | 6,958.6         | 484,908.60                | 583,231.29               | 32° 19' 58.845 N | 104° 11' 51.700 W |
| 15,786.0                    | 89.00              | 92.00          | 9,069.4                     | 659.5           | 7,052.5         | 484,906.47                | 583,325.22               | 32° 19' 58.823 N | 104° 11' 50.605 W |
| 15,881.0                    | 86.30              | 88.00          | 9,073.3                     | 659.5           | 7,147.4         | 484,906.46                | 583,420.12               | 32° 19' 58.822 N | 104° 11' 49.499 W |
| 15,975.0                    | 89.20              | 88.50          | 9,077.0                     | 662.3           | 7,241.3         | 484,909.33                | 583,513.99               | 32° 19' 58.849 N | 104° 11' 48.405 W |
| 16,070.0                    | 90.50              | 88.90          | 9,077.2                     | 664.5           | 7,336.3         | 484,911.49                | 583,608.96               | 32° 19' 58.869 N | 104° 11' 47.298 W |
| 16,164.0                    | 89.50              | 87.80          | 9,077.2                     | 667.2           | 7,430.2         | 484,914.19                | 583,702.92               | 32° 19' 58.895 N | 104° 11' 46.203 W |
| 16,258.0                    | 88.90              | 87.90          | 9,078.5                     | 670.7           | 7,524.1         | 484,917.72                | 583,796.84               | 32° 19' 58.929 N | 104° 11' 45.108 W |
| 16,353.0                    | 89.50              | 88.60          | 9,079.9                     | 673.6           | 7,619.1         | 484,920.62                | 583,891.79               | 32° 19' 58.956 N | 104° 11' 44.001 W |
| 16,447.0                    | 87.20              | 88.50          | 9,082.6                     | 676.0           | 7,713.0         | 484,923.00                | 583,985.71               | 32° 19' 58.978 N | 104° 11' 42.906 W |
| 16,542.0                    | 89.60              | 90.00          | 9,085.2                     | 677.2           | 7,808.0         | 484,924.24                | 584,080.66               | 32° 19' 58.989 N | 104° 11' 41.800 W |
| 16,636.0                    | 89.10              | 89.30          | 9,086.3                     | 677.8           | 7,901.9         | 484,924.81                | 584,174.65               | 32° 19' 58.994 N | 104° 11' 40.704 W |
| 16,730.0                    | 91.10              | 92.80          | 9,086.1                     | 676.1           | 7,995.9         | 484,923.09                | 584,268.62               | 32° 19' 58.976 N | 104° 11' 39.609 W |
| 16,825.0                    | 88.80              | 90.60          | 9,086.2                     | 673.3           | 8,090.9         | 484,920.27                | 584,363.56               | 32° 19' 58.947 N | 104° 11' 38.502 W |
| 16,919.0                    | 91.00              | 92.70          | 9,086.4                     | 670.6           | 8,184.8         | 484,917.57                | 584,457.51               | 32° 19' 58.919 N | 104° 11' 37.407 W |
| 17,014.0                    | 95.30              | 98.20          | 9,081.2                     | 661.6           | 8,279.2         | 484,908.57                | 584,551.88               | 32° 19' 58.828 N | 104° 11' 36.308 W |
| 17,108.0                    | 86.10              | 93.40          | 9,080.0                     | 652.1           | 8,372.6         | 484,899.09                | 584,645.27               | 32° 19' 58.733 N | 104° 11' 35.219 W |
| 17,202.0                    | 89.10              | 93.50          | 9,083.9                     | 646.4           | 8,466.3         | 484,893.44                | 584,739.00               | 32° 19' 58.676 N | 104° 11' 34.127 W |
| 17,296.0                    | 89.80              | 91.40          | 9,084.9                     | 642.4           | 8,560.2         | 484,889.42                | 584,832.91               | 32° 19' 58.635 N | 104° 11' 33.032 W |
| 17,391.0                    | 86.60              | 87.20          | 9,087.8                     | 643.6           | 8,655.1         | 484,890.58                | 584,927.82               | 32° 19' 58.645 N | 104° 11' 31.926 W |
| 17,485.0                    | 85.60              | 86.60          | 9,094.2                     | 648.6           | 8,748.8         | 484,895.65                | 585,021.46               | 32° 19' 58.694 N | 104° 11' 30.834 W |
| 17,580.0                    | 85.80              | 87.10          | 9,101.4                     | 653.9           | 8,843.3         | 484,900.85                | 585,116.05               | 32° 19' 58.745 N | 104° 11' 29.732 W |
| 17,675.0                    | 89.10              | 86.20          | 9,105.6                     | 659.4           | 8,938.1         | 484,906.40                | 585,210.78               | 32° 19' 58.798 N | 104° 11' 28.628 W |
| 17,769.0                    | 90.00              | 85.60          | 9,106.3                     | 666.1           | 9,031.8         | 484,913.12                | 585,304.54               | 32° 19' 58.864 N | 104° 11' 27.535 W |
| 17,864.0                    | 89.10              | 84.40          | 9,107.1                     | 674.4           | 9,126.5         | 484,921.40                | 585,399.17               | 32° 19' 58.944 N | 104° 11' 26.432 W |
| 17,958.0                    | 89.70              | 85.10          | 9,108.0                     | 683.0           | 9,220.1         | 484,930.00                | 585,492.77               | 32° 19' 59.028 N | 104° 11' 25.341 W |
| 18,052.0                    | 89.10              | 85.60          | 9,109.0                     | 690.6           | 9,313.8         | 484,937.62                | 585,586.45               | 32° 19' 59.102 N | 104° 11' 24.248 W |
| 18,146.0                    | 87.70              | 85.70          | 9,111.7                     | 697.7           | 9,407.4         | 484,944.75                | 585,680.14               | 32° 19' 59.172 N | 104° 11' 23.156 W |
| 18,239.0                    | 93.80              | 88.60          | 9,110.4                     | 702.4           | 9,500.3         | 484,949.37                | 585,772.97               | 32° 19' 59.216 N | 104° 11' 22.074 W |
| 18,333.0                    | 93.60              | 88.00          | 9,104.4                     | 705.2           | 9,594.0         | 484,952.15                | 585,866.73               | 32° 19' 59.242 N | 104° 11' 20.981 W |
| 18,427.0                    | 92.70              | 88.00          | 9,099.2                     | 708.4           | 9,687.8         | 484,955.43                | 585,960.53               | 32° 19' 59.274 N | 104° 11' 19.888 W |



Microsoft  
Survey Report - Geographic



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, N.M. Nad (83)  
**Site:** Section 5-4-23S-27E Wolfman 5-4 WOLI Fed Com 1H  
**Well:** Wolfman 5-4 WOLI Fed Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Wolfman 5-4 WOLI Fed Com 1H  
**TVD Reference:** 3182 + 27 @ 3209.0usft (Patterson 220)  
**MD Reference:** 3182 + 27 @ 3209.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|
| 18,521.0              | 92.20           | 87.90       | 9,095.2               | 711.8        | 9,781.7      | 484,958.79          | 586,054.38         | 32° 19' 59.306 N | 104° 11' 18.794 W |
| 18,615.0              | 86.70           | 87.40       | 9,096.1               | 715.6        | 9,875.6      | 484,962.64          | 586,148.26         | 32° 19' 59.342 N | 104° 11' 17.700 W |
| 18,709.0              | 86.20           | 87.20       | 9,101.9               | 720.1        | 9,969.3      | 484,967.06          | 586,241.98         | 32° 19' 59.385 N | 104° 11' 16.607 W |
| 18,721.0              | 86.50           | 87.00       | 9,102.7               | 720.7        | 9,981.2      | 484,967.67          | 586,253.94         | 32° 19' 59.391 N | 104° 11' 16.468 W |
| 18,783.0              | 86.50           | 87.00       | 9,106.5               | 723.9        | 10,043.0     | 484,970.90          | 586,315.74         | 32° 19' 59.422 N | 104° 11' 15.748 W |

18783' MD Projected to Bit - PBHL Wolfman 5-4 WOLI Fed Com 1H

**Design Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | Comment      |
|-----------------------|-----------------------|-------------------|--------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |
| 18,783.0              | 9,106.5               | 723.9             | 10,043.0     |

18783' MD Projected to Bit