



NM OIL CONSERVATION  
ARTESIA DISTRICT  
OCT 31 2017

RECEIVED

## Mewbourne Oil Company

Eddy County, New Mexico

Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1

Devon 12-1 W2PI Fee Com 1H

30.015 - 43880

Original Hole

Survey: MWD Survey #1

## Standard Survey Report

08 August, 2017





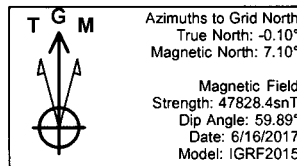
COMPANY: Mewbourne Oil Company  
WELL: Devon 12-1 W2PI Fee Com 1H  
COUNTY: Eddy County, New Mexico  
DATUM: NAD 1927 (NADCON CONUS)  
RIG: Patterson Patterson 250



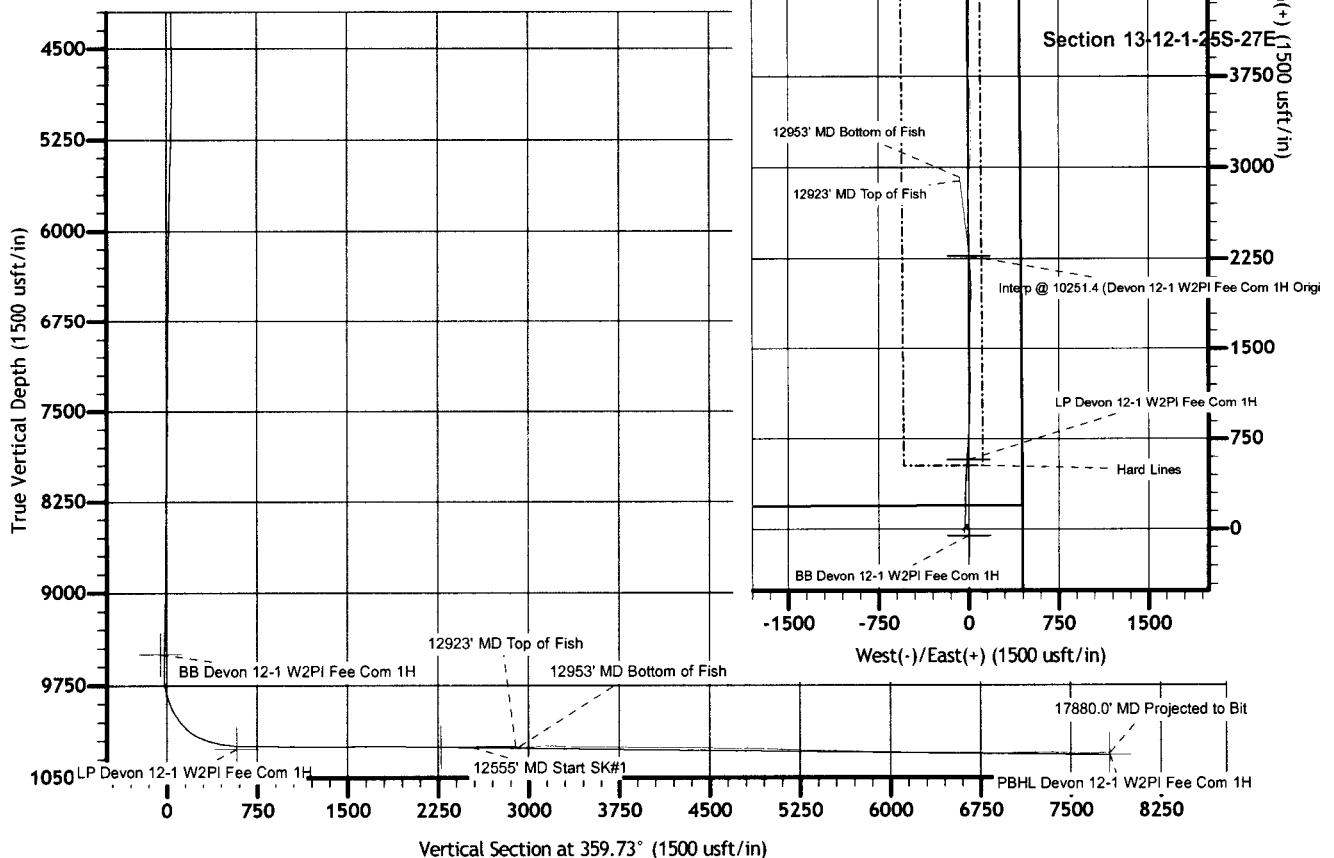
Grid Correction MWD: To convert a Magnetic Direction to a Grid Direction, Add 7.10°

OFFICE: 936.582.7296

| GEODETIC ZONE: New Mexico East 3001<br>3060 + 27 @ 3087.0usft (Patterson 250)<br>GROUND ELEVATION: 3060.0 |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
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SHL 200' FNL; 450' FEL  
Section 13-25S-27E PBHL  
2310' FSL; 450" FEL  
Section 1-25S-27E





# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1  
**Well:** Devon 12-1 W2PI Fee Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 12-1 W2PI Fee Com 1H  
**TVD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**MD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, New Mexico              |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

**Site** Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1

**Site Position:** **Northing:** 413,498.50 usft **Latitude:** 32° 8' 12.015 N  
**From:** Map **Easting:** 560,956.90 usft **Longitude:** 104° 8' 11.048 W  
**Position Uncertainty:** 0.0 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.10 °

**Well** Devon 12-1 W2PI Fee Com 1H

**Well Position** **+N/-S** 0.0 usft **Northing:** 413,498.50 usft **Latitude:** 32° 8' 12.015 N  
**+E/-W** 0.0 usft **Easting:** 560,956.90 usft **Longitude:** 104° 8' 11.048 W  
**Position Uncertainty** 0.0 usft **Wellhead Elevation:** 3,087.0 usft **Ground Level:** 3,060.0 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 (nT)</b> |  |
|                  | IGRF2015          | 6/16/2017          | 7.21                   | 59.89                | 47,828.35275204            |  |

**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          | 355.47        |

| <b>Survey Program</b> |                  | <b>Date</b>                      | 8/8/2017         |                             |  |  |
|-----------------------|------------------|----------------------------------|------------------|-----------------------------|--|--|
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>         | <b>Tool Name</b> | <b>Description</b>          |  |  |
| 149.0                 | 12,499.0         | MWD Survey #1 (Original Hole)    | MWD+IGRF         | OWSG MWD + IGRF or WMM      |  |  |
| 12,499.0              | 12,500.0         | STK#1 (Original Hole)            | MWD+IGRF         | OWSG MWD + IGRF or WMM      |  |  |
| 12,953.0              | 12,953.0         | Fish 12953-12923 (Original Hole) | MWD              | MWD v3:standard declination |  |  |

| <b>Survey</b>                |                        |                    |                              |                     |                     |                                |                                |                               |                              |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.0                            | 0.00                           | 0.00                          | 0.00                         |
| 149.0                        | 1.60                   | 308.00             | 149.0                        | 1.3                 | -1.6                | 1.4                            | 1.07                           | 1.07                          | 0.00                         |
| 200.0                        | 2.30                   | 288.00             | 200.0                        | 2.0                 | -3.2                | 2.3                            | 1.89                           | 1.37                          | -39.22                       |
| 262.0                        | 2.00                   | 272.10             | 261.9                        | 2.5                 | -5.4                | 2.9                            | 1.07                           | -0.48                         | -25.65                       |
| 324.0                        | 1.70                   | 281.10             | 323.9                        | 2.7                 | -7.4                | 3.3                            | 0.67                           | -0.48                         | 14.52                        |
| 384.0                        | 2.50                   | 281.10             | 383.8                        | 3.1                 | -9.6                | 3.8                            | 1.33                           | 1.33                          | 0.00                         |
| 477.0                        | 2.30                   | 276.10             | 476.8                        | 3.7                 | -13.4               | 4.7                            | 0.31                           | -0.22                         | -5.38                        |
| 662.0                        | 1.40                   | 274.00             | 661.7                        | 4.2                 | -19.4               | 5.8                            | 0.49                           | -0.49                         | -1.14                        |

Rig Surveys

**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
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**Well:** Devon 12-1 W2PI Fee Com 1H  
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**Design:** Original Hole

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**MD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 723.0                 | 1.40            | 286.10      | 722.6                 | 4.5          | -20.8        | 6.1                     | 0.48                    | 0.00                   | 19.84                 |
| 784.0                 | 1.50            | 288.70      | 783.6                 | 5.0          | -22.3        | 6.7                     | 0.20                    | 0.16                   | 4.26                  |
| 845.0                 | 1.40            | 289.40      | 844.6                 | 5.5          | -23.8        | 7.3                     | 0.17                    | -0.16                  | 1.15                  |
| 907.0                 | 1.30            | 286.90      | 906.6                 | 5.9          | -25.1        | 7.9                     | 0.19                    | -0.16                  | -4.03                 |
| 967.0                 | 1.10            | 285.30      | 966.6                 | 6.3          | -26.4        | 8.3                     | 0.34                    | -0.33                  | -2.67                 |
| 1,028.0               | 1.00            | 278.00      | 1,027.6               | 6.5          | -27.4        | 8.6                     | 0.27                    | -0.16                  | -11.97                |
| 1,094.0               | 0.70            | 293.90      | 1,093.6               | 6.7          | -28.4        | 9.0                     | 0.57                    | -0.45                  | 24.09                 |
| 1,157.0               | 0.60            | 302.80      | 1,156.5               | 7.1          | -29.0        | 9.3                     | 0.23                    | -0.16                  | 14.13                 |
| 1,221.0               | 0.60            | 294.50      | 1,220.5               | 7.4          | -29.6        | 9.7                     | 0.14                    | 0.00                   | -12.97                |
| 1,284.0               | 0.50            | 272.00      | 1,283.5               | 7.5          | -30.2        | 9.9                     | 0.37                    | -0.16                  | -35.71                |
| 1,347.0               | 0.50            | 288.90      | 1,346.5               | 7.6          | -30.7        | 10.0                    | 0.23                    | 0.00                   | 26.83                 |
| 1,411.0               | 0.40            | 250.70      | 1,410.5               | 7.7          | -31.2        | 10.1                    | 0.48                    | -0.16                  | -59.69                |
| 1,475.0               | 0.30            | 281.30      | 1,474.5               | 7.6          | -31.6        | 10.1                    | 0.33                    | -0.16                  | 47.81                 |
| 1,538.0               | 0.20            | 273.80      | 1,537.5               | 7.7          | -31.8        | 10.1                    | 0.17                    | -0.16                  | -11.90                |
| 1,601.0               | 0.30            | 55.40       | 1,600.5               | 7.8          | -31.8        | 10.2                    | 0.75                    | 0.16                   | 224.76                |
| 1,665.0               | 0.90            | 72.30       | 1,664.5               | 8.0          | -31.2        | 10.4                    | 0.97                    | 0.94                   | 26.41                 |
| 1,728.0               | 2.00            | 74.20       | 1,727.5               | 8.5          | -29.7        | 10.8                    | 1.75                    | 1.75                   | 3.02                  |
| 1,792.0               | 2.00            | 78.10       | 1,791.5               | 9.0          | -27.5        | 11.1                    | 0.21                    | 0.00                   | 6.09                  |
| 1,855.0               | 2.20            | 68.30       | 1,854.4               | 9.7          | -25.3        | 11.6                    | 0.65                    | 0.32                   | -15.56                |
| 1,919.0               | 1.80            | 62.00       | 1,918.4               | 10.6         | -23.3        | 12.4                    | 0.71                    | -0.63                  | -9.84                 |
| 1,982.0               | 1.10            | 54.60       | 1,981.4               | 11.4         | -21.9        | 13.1                    | 1.15                    | -1.11                  | -11.75                |
| 2,045.0               | 1.00            | 26.30       | 2,044.4               | 12.2         | -21.2        | 13.9                    | 0.83                    | -0.16                  | -44.92                |
| 2,175.0               | 1.50            | 58.70       | 2,174.3               | 14.2         | -19.2        | 15.6                    | 0.65                    | 0.38                   | 24.92                 |
| 2,268.0               | 1.50            | 55.40       | 2,267.3               | 15.5         | -17.2        | 16.8                    | 0.09                    | 0.00                   | -3.55                 |
| 2,355.0               | 1.40            | 34.80       | 2,354.3               | 17.0         | -15.6        | 18.2                    | 0.61                    | -0.11                  | -23.68                |
| 2,449.0               | 1.20            | 22.30       | 2,448.2               | 18.8         | -14.6        | 19.9                    | 0.37                    | -0.21                  | -13.30                |
| 2,542.0               | 1.20            | 34.20       | 2,541.2               | 20.6         | -13.7        | 21.6                    | 0.27                    | 0.00                   | 12.80                 |
| 2,636.0               | 1.00            | 18.90       | 2,635.2               | 22.1         | -12.9        | 23.1                    | 0.38                    | -0.21                  | -16.28                |
| 2,729.0               | 0.90            | 34.60       | 2,728.2               | 23.5         | -12.2        | 24.4                    | 0.30                    | -0.11                  | 16.88                 |
| 2,823.0               | 1.00            | 22.60       | 2,822.2               | 24.9         | -11.4        | 25.7                    | 0.24                    | 0.11                   | -12.77                |
| 2,916.0               | 0.90            | 7.90        | 2,915.2               | 26.3         | -11.0        | 27.1                    | 0.28                    | -0.11                  | -15.81                |
| 3,010.0               | 0.80            | 26.30       | 3,009.2               | 27.7         | -10.6        | 28.4                    | 0.31                    | -0.11                  | 19.57                 |
| 3,101.0               | 0.70            | 353.00      | 3,100.2               | 28.8         | -10.4        | 29.5                    | 0.48                    | -0.11                  | -36.59                |
| 3,197.0               | 0.50            | 335.20      | 3,196.1               | 29.8         | -10.7        | 30.5                    | 0.28                    | -0.21                  | -18.54                |
| 3,290.0               | 0.70            | 326.80      | 3,289.1               | 30.6         | -11.2        | 31.4                    | 0.23                    | 0.22                   | -9.03                 |
| 3,384.0               | 0.70            | 339.00      | 3,383.1               | 31.6         | -11.7        | 32.4                    | 0.16                    | 0.00                   | 12.98                 |
| 3,477.0               | 0.80            | 335.50      | 3,476.1               | 32.7         | -12.1        | 33.6                    | 0.12                    | 0.11                   | -3.76                 |
| 3,571.0               | 0.80            | 326.60      | 3,570.1               | 33.9         | -12.8        | 34.8                    | 0.13                    | 0.00                   | -9.47                 |
| 3,664.0               | 0.70            | 321.80      | 3,663.1               | 34.9         | -13.5        | 35.8                    | 0.13                    | -0.11                  | -5.16                 |
| 3,757.0               | 0.70            | 343.30      | 3,756.1               | 35.9         | -14.0        | 36.9                    | 0.28                    | 0.00                   | 23.12                 |
| 3,851.0               | 0.70            | 327.00      | 3,850.1               | 36.9         | -14.5        | 37.9                    | 0.21                    | 0.00                   | -17.34                |
| 3,944.0               | 0.60            | 332.00      | 3,943.1               | 37.8         | -15.0        | 38.9                    | 0.12                    | -0.11                  | 5.38                  |

**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1  
**Well:** Devon 12-1 W2PI Fee Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 12-1 W2PI Fee Com 1H  
**TVD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**MD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,037.0               | 0.50            | 307.70      | 4,036.1               | 38.5         | -15.6        | 39.6                    | 0.27                    | -0.11                  | -26.13                |
| 4,131.0               | 0.70            | 305.70      | 4,130.1               | 39.1         | -16.4        | 40.2                    | 0.21                    | 0.21                   | -2.13                 |
| 4,224.0               | 0.40            | 312.80      | 4,223.1               | 39.6         | -17.1        | 40.8                    | 0.33                    | -0.32                  | 7.63                  |
| 4,318.0               | 0.40            | 297.10      | 4,317.1               | 40.0         | -17.6        | 41.2                    | 0.12                    | 0.00                   | -16.70                |
| 4,411.0               | 0.40            | 279.70      | 4,410.1               | 40.2         | -18.2        | 41.5                    | 0.13                    | 0.00                   | -18.71                |
| 4,505.0               | 0.30            | 315.20      | 4,504.1               | 40.4         | -18.7        | 41.8                    | 0.25                    | -0.11                  | 37.77                 |
| 4,598.0               | 0.10            | 22.00       | 4,597.1               | 40.7         | -18.8        | 42.0                    | 0.30                    | -0.22                  | 71.83                 |
| 4,691.0               | 0.40            | 306.40      | 4,690.1               | 40.9         | -19.1        | 42.3                    | 0.42                    | 0.32                   | -81.29                |
| 4,785.0               | 0.30            | 333.90      | 4,784.1               | 41.3         | -19.4        | 42.8                    | 0.20                    | -0.11                  | 29.26                 |
| 4,878.0               | 0.30            | 322.70      | 4,877.1               | 41.8         | -19.7        | 43.2                    | 0.06                    | 0.00                   | -12.04                |
| 4,972.0               | 0.50            | 279.60      | 4,971.1               | 42.0         | -20.3        | 43.5                    | 0.37                    | 0.21                   | -45.85                |
| 5,065.0               | 1.20            | 190.90      | 5,064.1               | 41.1         | -20.8        | 42.7                    | 1.39                    | 0.75                   | -95.38                |
| 5,159.0               | 1.70            | 190.80      | 5,158.0               | 38.8         | -21.3        | 40.4                    | 0.53                    | 0.53                   | -0.11                 |
| 5,252.0               | 1.70            | 200.80      | 5,251.0               | 36.2         | -22.0        | 37.8                    | 0.32                    | 0.00                   | 10.75                 |
| 5,346.0               | 1.60            | 210.40      | 5,344.9               | 33.7         | -23.2        | 35.4                    | 0.31                    | -0.11                  | 10.21                 |
| 5,439.0               | 1.60            | 206.70      | 5,437.9               | 31.4         | -24.4        | 33.3                    | 0.11                    | 0.00                   | -3.98                 |
| 5,533.0               | 1.50            | 221.60      | 5,531.9               | 29.3         | -25.8        | 31.3                    | 0.44                    | -0.11                  | 15.85                 |
| 5,626.0               | 1.50            | 215.50      | 5,624.8               | 27.4         | -27.4        | 29.5                    | 0.17                    | 0.00                   | -6.56                 |
| 5,719.0               | 1.60            | 219.80      | 5,717.8               | 25.5         | -28.9        | 27.7                    | 0.16                    | 0.11                   | 4.62                  |
| 5,813.0               | 1.20            | 185.00      | 5,811.8               | 23.5         | -29.8        | 25.7                    | 0.98                    | -0.43                  | -37.02                |
| 5,906.0               | 0.90            | 151.30      | 5,904.8               | 21.9         | -29.5        | 24.1                    | 0.72                    | -0.32                  | -36.24                |
| 5,999.0               | 0.80            | 189.20      | 5,997.8               | 20.6         | -29.3        | 22.8                    | 0.60                    | -0.11                  | 40.75                 |
| 6,093.0               | 1.90            | 219.20      | 6,091.7               | 18.7         | -30.4        | 21.1                    | 1.35                    | 1.17                   | 31.91                 |
| 6,186.0               | 1.90            | 253.60      | 6,184.7               | 17.1         | -32.8        | 19.6                    | 1.21                    | 0.00                   | 36.99                 |
| 6,279.0               | 1.90            | 262.00      | 6,277.6               | 16.4         | -35.9        | 19.2                    | 0.30                    | 0.00                   | 9.03                  |
| 6,373.0               | 1.30            | 251.50      | 6,371.6               | 15.9         | -38.4        | 18.9                    | 0.71                    | -0.64                  | -11.17                |
| 6,467.0               | 0.40            | 99.50       | 6,465.6               | 15.5         | -39.1        | 18.5                    | 1.77                    | -0.96                  | -161.70               |
| 6,560.0               | 0.80            | 267.40      | 6,558.6               | 15.4         | -39.4        | 18.5                    | 1.28                    | 0.43                   | 180.54                |
| 6,654.0               | 1.10            | 202.00      | 6,652.6               | 14.5         | -40.4        | 17.7                    | 1.12                    | 0.32                   | -69.57                |
| 6,747.0               | 0.60            | 134.60      | 6,745.6               | 13.4         | -40.4        | 16.5                    | 1.11                    | -0.54                  | -72.47                |
| 6,841.0               | 0.70            | 134.50      | 6,839.6               | 12.6         | -39.6        | 15.7                    | 0.11                    | 0.11                   | -0.11                 |
| 6,934.0               | 1.30            | 260.50      | 6,932.6               | 12.1         | -40.3        | 15.2                    | 1.94                    | 0.65                   | 135.48                |
| 7,028.0               | 0.60            | 194.80      | 7,026.5               | 11.4         | -41.5        | 14.6                    | 1.26                    | -0.74                  | -69.89                |
| 7,121.0               | 0.70            | 184.60      | 7,119.5               | 10.4         | -41.6        | 13.6                    | 0.16                    | 0.11                   | -10.97                |
| 7,215.0               | 1.00            | 213.00      | 7,213.5               | 9.1          | -42.1        | 12.4                    | 0.54                    | 0.32                   | 30.21                 |
| 7,308.0               | 1.80            | 226.60      | 7,306.5               | 7.4          | -43.6        | 10.8                    | 0.93                    | 0.86                   | 14.62                 |
| 7,402.0               | 1.10            | 176.60      | 7,400.5               | 5.5          | -44.6        | 9.0                     | 1.47                    | -0.74                  | -53.19                |
| 7,495.0               | 1.10            | 292.70      | 7,493.5               | 5.0          | -45.4        | 8.5                     | 2.01                    | 0.00                   | 124.84                |
| 7,589.0               | 1.40            | 299.90      | 7,587.4               | 5.9          | -47.2        | 9.6                     | 0.36                    | 0.32                   | 7.66                  |
| 7,682.0               | 0.40            | 196.70      | 7,680.4               | 6.1          | -48.3        | 9.9                     | 1.66                    | -1.08                  | -110.97               |
| 7,776.0               | 1.20            | 214.80      | 7,774.4               | 5.0          | -49.0        | 8.9                     | 0.88                    | 0.85                   | 19.26                 |
| 7,869.0               | 1.00            | 218.50      | 7,867.4               | 3.6          | -50.0        | 7.5                     | 0.23                    | -0.22                  | 3.98                  |
| 7,963.0               | 1.60            | 209.80      | 7,961.4               | 1.8          | -51.2        | 5.8                     | 0.67                    | 0.64                   | -9.26                 |



Microsoft  
Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1  
**Well:** Devon 12-1 W2PI Fee Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 12-1 W2PI Fee Com 1H  
**TVD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**MD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,056.0                              | 0.70            | 156.10      | 8,054.4               | 0.2          | -51.6        | 4.2                     | 1.41                    | -0.97                  | -57.74                |
| 8,150.0                              | 1.50            | 165.20      | 8,148.3               | -1.6         | -51.1        | 2.5                     | 0.87                    | 0.85                   | 9.68                  |
| 8,243.0                              | 1.10            | 121.40      | 8,241.3               | -3.2         | -50.0        | 0.8                     | 1.12                    | -0.43                  | -47.10                |
| 8,336.0                              | 1.20            | 123.20      | 8,334.3               | -4.2         | -48.4        | -0.4                    | 0.11                    | 0.11                   | 1.94                  |
| 8,430.0                              | 2.00            | 99.00       | 8,428.3               | -5.0         | -46.0        | -1.4                    | 1.10                    | 0.85                   | -25.74                |
| 8,523.0                              | 1.00            | 94.70       | 8,521.2               | -5.3         | -43.6        | -1.9                    | 1.08                    | -1.08                  | -4.62                 |
| 8,617.0                              | 0.90            | 95.10       | 8,615.2               | -5.5         | -42.0        | -2.1                    | 0.11                    | -0.11                  | 0.43                  |
| 8,710.0                              | 1.00            | 114.40      | 8,708.2               | -5.9         | -40.5        | -2.6                    | 0.36                    | 0.11                   | 20.75                 |
| 8,803.0                              | 1.10            | 148.30      | 8,801.2               | -6.9         | -39.3        | -3.8                    | 0.67                    | 0.11                   | 36.45                 |
| 8,896.0                              | 1.30            | 152.30      | 8,894.2               | -8.6         | -38.4        | -5.6                    | 0.23                    | 0.22                   | 4.30                  |
| 8,990.0                              | 0.90            | 162.80      | 8,988.2               | -10.3        | -37.7        | -7.3                    | 0.47                    | -0.43                  | 11.17                 |
| 9,083.0                              | 1.00            | 173.10      | 9,081.1               | -11.8        | -37.3        | -8.8                    | 0.21                    | 0.11                   | 11.08                 |
| 9,176.0                              | 0.90            | 167.80      | 9,174.1               | -13.3        | -37.1        | -10.3                   | 0.14                    | -0.11                  | -5.70                 |
| 9,269.0                              | 1.20            | 184.70      | 9,267.1               | -15.0        | -37.0        | -12.0                   | 0.46                    | 0.32                   | 18.17                 |
| 9,363.0                              | 1.30            | 184.40      | 9,361.1               | -17.0        | -37.2        | -14.1                   | 0.11                    | 0.11                   | -0.32                 |
| 9,456.0                              | 1.50            | 187.80      | 9,454.1               | -19.3        | -37.4        | -16.3                   | 0.23                    | 0.22                   | 3.66                  |
| 9,502.4                              | 1.49            | 195.16      | 9,500.5               | -20.5        | -37.7        | -17.4                   | 0.41                    | -0.03                  | 15.85                 |
| <b>BB Devon 12-1 W2PI Fee Com 1H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,550.0                              | 1.50            | 202.70      | 9,548.0               | -21.7        | -38.1        | -18.6                   | 0.41                    | 0.03                   | 15.85                 |
| 9,643.0                              | 1.00            | 205.40      | 9,641.0               | -23.5        | -38.9        | -20.4                   | 0.54                    | -0.54                  | 2.90                  |
| 9,704.0                              | 1.00            | 343.30      | 9,702.0               | -23.5        | -39.3        | -20.3                   | 3.06                    | 0.00                   | 226.07                |
| 9,735.0                              | 6.00            | 5.10        | 9,732.9               | -21.6        | -39.2        | -18.4                   | 16.40                   | 16.13                  | 70.32                 |
| 9,766.0                              | 11.60           | 5.30        | 9,763.6               | -16.9        | -38.8        | -13.8                   | 18.06                   | 18.06                  | 0.65                  |
| 9,797.0                              | 15.00           | 6.00        | 9,793.7               | -9.8         | -38.1        | -6.8                    | 10.98                   | 10.97                  | 2.26                  |
| 9,828.0                              | 17.50           | 6.00        | 9,823.5               | -1.2         | -37.2        | 1.8                     | 8.06                    | 8.06                   | 0.00                  |
| 9,860.0                              | 19.20           | 6.70        | 9,853.9               | 8.8          | -36.0        | 11.7                    | 5.36                    | 5.31                   | 2.19                  |
| 9,891.0                              | 19.70           | 6.80        | 9,883.1               | 19.1         | -34.8        | 21.8                    | 1.62                    | 1.61                   | 0.32                  |
| 9,922.0                              | 21.00           | 5.40        | 9,912.2               | 29.8         | -33.7        | 32.4                    | 4.48                    | 4.19                   | -4.52                 |
| 9,953.0                              | 25.20           | 3.80        | 9,940.7               | 41.9         | -32.7        | 44.4                    | 13.70                   | 13.55                  | -5.16                 |
| 9,984.0                              | 29.80           | 2.10        | 9,968.2               | 56.2         | -32.0        | 58.6                    | 15.05                   | 14.84                  | -5.48                 |
| 10,015.0                             | 34.10           | 0.90        | 9,994.4               | 72.6         | -31.6        | 74.9                    | 14.02                   | 13.87                  | -3.87                 |
| 10,046.0                             | 37.90           | 0.00        | 10,019.5              | 90.8         | -31.4        | 93.0                    | 12.38                   | 12.26                  | -2.90                 |
| 10,077.0                             | 39.40           | 1.70        | 10,043.7              | 110.2        | -31.2        | 112.3                   | 5.93                    | 4.84                   | 5.48                  |
| 10,109.0                             | 39.40           | 3.30        | 10,068.5              | 130.5        | -30.3        | 132.5                   | 3.17                    | 0.00                   | 5.00                  |
| 10,140.0                             | 43.10           | 3.00        | 10,091.8              | 150.9        | -29.2        | 152.7                   | 11.95                   | 11.94                  | -0.97                 |
| 10,171.0                             | 48.00           | 0.80        | 10,113.5              | 173.0        | -28.4        | 174.7                   | 16.60                   | 15.81                  | -7.10                 |
| 10,202.0                             | 53.80           | 359.00      | 10,133.0              | 197.0        | -28.5        | 198.7                   | 19.24                   | 18.71                  | -5.81                 |
| 10,232.0                             | 59.40           | 359.40      | 10,149.5              | 222.1        | -28.8        | 223.7                   | 18.70                   | 18.67                  | 1.33                  |
| 10,263.0                             | 63.40           | 0.00        | 10,164.4              | 249.3        | -29.0        | 250.8                   | 13.01                   | 12.90                  | 1.94                  |
| 10,294.0                             | 66.90           | 0.80        | 10,177.4              | 277.4        | -28.8        | 278.8                   | 11.53                   | 11.29                  | 2.58                  |
| 10,326.0                             | 70.10           | 1.10        | 10,189.1              | 307.2        | -28.3        | 308.5                   | 10.04                   | 10.00                  | 0.94                  |
| 10,358.0                             | 72.30           | 0.90        | 10,199.4              | 337.5        | -27.8        | 338.6                   | 6.90                    | 6.88                   | -0.63                 |
| 10,369.0                             | 73.40           | 1.40        | 10,202.7              | 348.0        | -27.5        | 349.1                   | 10.90                   | 10.00                  | 4.55                  |

**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1  
**Well:** Devon 12-1 W2PI Fee Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 12-1 W2PI Fee Com 1H  
**TVD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**MD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,442.0                                                            | 77.70           | 3.10        | 10,220.9              | 418.6        | -24.8        | 419.2                   | 6.31                    | 5.89                   | 2.33                  |
| 10,474.0                                                            | 81.70           | 3.80        | 10,226.6              | 450.0        | -22.9        | 450.4                   | 12.68                   | 12.50                  | 2.19                  |
| 10,505.0                                                            | 83.50           | 3.80        | 10,230.6              | 480.7        | -20.8        | 480.8                   | 5.81                    | 5.81                   | 0.00                  |
| 10,536.0                                                            | 83.00           | 3.50        | 10,234.2              | 511.4        | -18.9        | 511.3                   | 1.88                    | -1.61                  | -0.97                 |
| 10,567.0                                                            | 82.80           | 3.60        | 10,238.1              | 542.1        | -17.0        | 541.8                   | 0.72                    | -0.65                  | 0.32                  |
| 10,598.0                                                            | 84.80           | 3.30        | 10,241.4              | 572.9        | -15.1        | 572.3                   | 6.52                    | 6.45                   | -0.97                 |
| 10,607.2                                                            | 85.87           | 3.24        | 10,242.2              | 582.0        | -14.6        | 581.4                   | 11.63                   | 11.61                  | -0.65                 |
| <b>LP Devon 12-1 W2PI Fee Com 1H</b>                                |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,629.0                                                            | 88.40           | 3.10        | 10,243.3              | 603.8        | -13.4        | 602.9                   | 11.63                   | 11.61                  | -0.64                 |
| 10,661.0                                                            | 90.80           | 2.50        | 10,243.5              | 635.7        | -11.8        | 634.7                   | 7.73                    | 7.50                   | -1.88                 |
| 10,723.0                                                            | 90.60           | 3.00        | 10,242.7              | 697.6        | -8.8         | 696.2                   | 0.87                    | -0.32                  | 0.81                  |
| 10,816.0                                                            | 90.50           | 5.40        | 10,241.8              | 790.4        | -2.0         | 788.1                   | 2.58                    | -0.11                  | 2.58                  |
| 10,910.0                                                            | 87.30           | 1.80        | 10,243.6              | 884.2        | 3.9          | 881.1                   | 5.12                    | -3.40                  | -3.83                 |
| 11,003.0                                                            | 90.50           | 3.10        | 10,245.4              | 977.0        | 7.8          | 973.4                   | 3.71                    | 3.44                   | 1.40                  |
| 11,097.0                                                            | 87.30           | 359.50      | 10,247.2              | 1,071.0      | 10.0         | 1,066.8                 | 5.12                    | -3.40                  | -3.83                 |
| 11,190.0                                                            | 90.10           | 1.90        | 10,249.3              | 1,163.9      | 11.1         | 1,159.4                 | 3.96                    | 3.01                   | 2.58                  |
| 11,284.0                                                            | 89.50           | 358.80      | 10,249.7              | 1,257.9      | 11.7         | 1,253.1                 | 3.36                    | -0.64                  | -3.30                 |
| 11,377.0                                                            | 90.20           | 358.60      | 10,249.9              | 1,350.9      | 9.6          | 1,345.9                 | 0.78                    | 0.75                   | -0.22                 |
| 11,471.0                                                            | 90.10           | 358.90      | 10,249.7              | 1,444.9      | 7.5          | 1,439.8                 | 0.34                    | -0.11                  | 0.32                  |
| 11,564.0                                                            | 93.90           | 0.70        | 10,246.4              | 1,537.8      | 7.2          | 1,532.4                 | 4.52                    | 4.09                   | 1.94                  |
| 11,658.0                                                            | 87.60           | 358.50      | 10,245.2              | 1,631.7      | 6.5          | 1,626.1                 | 7.10                    | -6.70                  | -2.34                 |
| 11,751.0                                                            | 91.30           | 1.70        | 10,246.1              | 1,724.7      | 6.7          | 1,718.8                 | 5.26                    | 3.98                   | 3.44                  |
| 11,844.0                                                            | 92.90           | 3.40        | 10,242.7              | 1,817.5      | 10.8         | 1,811.0                 | 2.51                    | 1.72                   | 1.83                  |
| 11,938.0                                                            | 87.70           | 1.80        | 10,242.2              | 1,911.4      | 15.1         | 1,904.2                 | 5.79                    | -5.53                  | -1.70                 |
| 12,031.0                                                            | 86.90           | 0.00        | 10,246.6              | 2,004.3      | 16.6         | 1,996.7                 | 2.12                    | -0.86                  | -1.94                 |
| 12,125.0                                                            | 90.40           | 357.30      | 10,248.8              | 2,098.2      | 14.3         | 2,090.5                 | 4.70                    | 3.72                   | -2.87                 |
| 12,218.0                                                            | 87.70           | 355.30      | 10,250.3              | 2,191.0      | 8.3          | 2,183.5                 | 3.61                    | -2.90                  | -2.15                 |
| 12,303.0                                                            | 90.86           | 355.84      | 10,251.4              | 2,275.7      | 1.8          | 2,268.5                 | 3.78                    | 3.72                   | 0.64                  |
| <b>Interp @ 10251.4 (Devon 12-1 W2PI Fee Com 1H Origi</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,312.0                                                            | 91.20           | 355.90      | 10,251.2              | 2,284.7      | 1.1          | 2,277.5                 | 3.78                    | 3.72                   | 0.64                  |
| 12,405.0                                                            | 90.60           | 354.20      | 10,249.8              | 2,377.3      | -6.9         | 2,370.5                 | 1.94                    | -0.65                  | -1.83                 |
| 12,499.0                                                            | 91.50           | 352.40      | 10,248.0              | 2,470.7      | -17.9        | 2,464.4                 | 2.14                    | 0.96                   | -1.91                 |
| 12,555.0                                                            | 90.78           | 352.34      | 10,246.9              | 2,526.2      | -25.3        | 2,520.3                 | 1.29                    | -1.29                  | -0.11                 |
| 12,592.0                                                            | 90.30           | 352.30      | 10,246.6              | 2,562.8      | -30.2        | 2,557.2                 | 1.29                    | -1.29                  | -0.11                 |
| 12,686.0                                                            | 90.80           | 353.50      | 10,245.7              | 2,656.1      | -41.8        | 2,651.1                 | 1.38                    | 0.53                   | 1.28                  |
| 12,779.0                                                            | 89.30           | 352.30      | 10,245.6              | 2,748.4      | -53.3        | 2,744.0                 | 2.07                    | -1.61                  | -1.29                 |
| 12,873.0                                                            | 89.70           | 353.20      | 10,246.4              | 2,841.6      | -65.2        | 2,837.9                 | 1.05                    | 0.43                   | 0.96                  |
| 12,953.0                                                            | 89.70           | 353.20      | 10,246.8              | 2,921.1      | -74.7        | 2,917.8                 | 0.00                    | 0.00                   | 0.00                  |
| <b>12953' MD Projected to Bit - PBHL Devon 12-1 W2PI Fee Com 1H</b> |                 |             |                       |              |              |                         |                         |                        |                       |



## Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 13-12-1-25S-27E Devon 12-1 W2PI Fee Com 1  
**Well:** Devon 12-1 W2PI Fee Com 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 12-1 W2PI Fee Com 1H  
**TVD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**MD Reference:** 3060 + 27 @ 3087.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

### Design Targets

| Target Name                 | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude        | Longitude        |
|-----------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------------|------------------|
| - hit/miss target           |                  |                 |               |                 |                 |                    |                   |                 |                  |
| - Shape                     |                  |                 |               |                 |                 |                    |                   |                 |                  |
| Interp @ 10251.4 (De        | 0.00             | 0.00            | 10,251.4      | 2,275.7         | 1.8             | 415,774.21         | 560,958.69        | 32° 8' 34.536 N | 104° 8' 10.979 W |
| - survey hits target center |                  |                 |               |                 |                 |                    |                   |                 |                  |
| - Point                     |                  |                 |               |                 |                 |                    |                   |                 |                  |

### Survey Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates<br>+N/-S<br>(usft) | +E/-W<br>(usft) | Comment                    |
|-----------------------------|-----------------------------|--------------------------------------|-----------------|----------------------------|
| 12,953.0                    | 10,246.8                    | 2,921.1                              | -74.7           | 12953' MD Projected to Bit |