



**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**AUG 18 2017**

**RECEIVED**

# **Mewbourne Oil Company**

**Eddy County, New Mexico**

**Section 18-23S-27E Slider 18 W0MD Fed Com #1H**

**Slider 18 W0MD Fed Com #1H**

**Original Hole**

**30-015-43621**

**Design: Original Hole**

## **Standard Survey Report**

**02 August, 2017**





# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 18-23S-27E Slider 18 W0MD Fed Com #1H  
**Well:** Slider 18 W0MD Fed Com #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Slider 18 W0MD Fed Com #1H  
**TVD Reference:** 3219 + 27 @ 3246.0usft (Patterson 250)  
**MD Reference:** 3219 + 27 @ 3246.0usft (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 18-23S-27E Slider 18 W0MD Fed Com #1H

**Site Position:**  
**From:** Map  
**Position Uncertainty:** 0.0 usft

**Northing:** 472,072.60 usft  
**Easting:** 530,002.50 usft  
**Slot Radius:** 13-3/16 "

**Latitude:** 32° 17' 52.104 N  
**Longitude:** 104° 14' 10.443 W  
**Grid Convergence:** 0.05 °

**Well** Slider 18 W0MD Fed Com #1H

**Well Position** +N/-S 0.0 usft **Northing:** 472,072.60 usft **Latitude:** 32° 17' 52.104 N  
+E/-W 0.0 usft **Easting:** 530,002.50 usft **Longitude:** 104° 14' 10.443 W  
**Position Uncertainty** 0.0 usft **Wellhead Elevation:** 27.0 usft **Ground Level:** 3,219.0 usft

**Wellbore** Original Hole

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | IGRF2015          | 4/28/2017          | 7.28                       | 60.02                    | 47,925.74930031                |

**Design** Original Hole

**Audit Notes:**

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

|                          |                                    |                         |                         |                          |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |
|                          | 0.0                                | 0.0                     | 0.0                     | 242.00                   |

**Survey Program** Date 8/2/2017

| From<br>(usft) | To<br>(usft) | Survey (Wellbore)          | Tool Name | Description                 |
|----------------|--------------|----------------------------|-----------|-----------------------------|
| 269.0          | 269.0        | Rig Survey (Original Hole) | MWD       | MWD v3:standard declination |
| 269.0          | 13,655.0     | MWD Survey (Original Hole) | MWD+IGRF  | OWSG MWD + IGRF or WMM      |

**Survey**

| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 269.0                       | 0.70               | 242.00         | 269.0                       | -0.8            | -1.5            | 1.6                           | 0.26                          | 0.26                         | 0.00                        |
| 391.0                       | 0.90               | 229.00         | 391.0                       | -1.7            | -2.8            | 3.3                           | 0.22                          | 0.16                         | -10.66                      |
| 453.0                       | 0.80               | 222.00         | 453.0                       | -2.4            | -3.5            | 4.2                           | 0.23                          | -0.16                        | -11.29                      |
| 505.0                       | 0.50               | 195.00         | 505.0                       | -2.9            | -3.8            | 4.7                           | 0.81                          | -0.58                        | -51.92                      |
| 574.0                       | 0.70               | 164.80         | 574.0                       | -3.6            | -3.8            | 5.0                           | 0.53                          | 0.29                         | -43.77                      |
| 635.0                       | 0.70               | 137.00         | 635.0                       | -4.2            | -3.4            | 5.0                           | 0.55                          | 0.00                         | -45.57                      |
| 697.0                       | 1.00               | 138.20         | 697.0                       | -4.9            | -2.8            | 4.8                           | 0.48                          | 0.48                         | 1.94                        |
| 759.0                       | 1.20               | 128.00         | 758.9                       | -5.7            | -1.9            | 4.4                           | 0.45                          | 0.32                         | -16.45                      |



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**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 820.0                 | 1.30            | 132.50      | 819.9                 | -6.6         | -0.9         | 3.9                     | 0.23                    | 0.16                   | 7.38                  |
| 881.0                 | 1.80            | 129.00      | 880.9                 | -7.6         | 0.4          | 3.3                     | 0.83                    | 0.82                   | -5.74                 |
| 943.0                 | 2.70            | 127.00      | 942.9                 | -9.1         | 2.3          | 2.3                     | 1.46                    | 1.45                   | -3.23                 |
| 1,004.0               | 2.40            | 123.10      | 1,003.8               | -10.7        | 4.5          | 1.0                     | 0.57                    | -0.49                  | -6.39                 |
| 1,101.0               | 1.00            | 102.80      | 1,100.8               | -12.0        | 7.0          | -0.6                    | 1.55                    | -1.44                  | -21.13                |
| 1,165.0               | 0.90            | 111.60      | 1,164.7               | -12.3        | 8.0          | -1.3                    | 0.28                    | -0.16                  | 14.06                 |
| 1,228.0               | 0.90            | 115.10      | 1,227.7               | -12.7        | 8.9          | -1.9                    | 0.09                    | 0.00                   | 5.56                  |
| 1,292.0               | 1.30            | 103.10      | 1,291.7               | -13.0        | 10.1         | -2.8                    | 0.72                    | 0.63                   | -18.75                |
| 1,355.0               | 1.90            | 99.80       | 1,354.7               | -13.4        | 11.8         | -4.2                    | 0.96                    | 0.95                   | -5.24                 |
| 1,419.0               | 1.30            | 82.20       | 1,418.7               | -13.5        | 13.6         | -5.7                    | 1.20                    | -0.94                  | -27.50                |
| 1,482.0               | 0.80            | 48.30       | 1,481.7               | -13.1        | 14.6         | -8.8                    | 1.27                    | -0.79                  | -56.98                |
| 1,545.0               | 0.90            | 37.40       | 1,544.7               | -12.4        | 15.2         | -7.6                    | 0.26                    | 0.16                   | -14.13                |
| 1,609.0               | 1.20            | 52.10       | 1,608.6               | -11.6        | 16.1         | -8.8                    | 0.63                    | 0.47                   | 22.97                 |
| 1,736.0               | 1.80            | 70.60       | 1,735.6               | -10.1        | 19.0         | -12.0                   | 0.60                    | 0.47                   | 14.57                 |
| 1,886.0               | 2.30            | 73.90       | 1,885.5               | -8.5         | 24.1         | -17.3                   | 0.34                    | 0.33                   | 2.20                  |
| 1,949.0               | 0.90            | 61.50       | 1,948.5               | -7.9         | 25.8         | -19.1                   | 2.28                    | -2.22                  | -19.68                |
| 2,014.0               | 0.30            | 356.90      | 2,013.5               | -7.5         | 26.2         | -19.6                   | 1.26                    | -0.92                  | -99.38                |
| 2,076.0               | 0.40            | 326.90      | 2,075.5               | -7.1         | 26.1         | -19.7                   | 0.33                    | 0.16                   | -48.39                |
| 2,170.0               | 0.50            | 339.20      | 2,169.5               | -6.5         | 25.8         | -19.7                   | 0.15                    | 0.11                   | 13.09                 |
| 2,263.0               | 0.40            | 1.30        | 2,262.5               | -5.8         | 25.6         | -19.9                   | 0.21                    | -0.11                  | 23.76                 |
| 2,357.0               | 0.40            | 353.20      | 2,356.5               | -5.1         | 25.6         | -20.2                   | 0.06                    | 0.00                   | -8.62                 |
| 2,450.0               | 0.20            | 11.10       | 2,449.5               | -4.6         | 25.6         | -20.4                   | 0.23                    | -0.22                  | 19.25                 |
| 2,543.0               | 0.20            | 58.70       | 2,542.5               | -4.4         | 25.7         | -20.7                   | 0.17                    | 0.00                   | 51.18                 |
| 2,637.0               | 0.00            | 221.20      | 2,636.5               | -4.3         | 25.9         | -20.8                   | 0.21                    | -0.21                  | 0.00                  |
| 2,730.0               | 0.10            | 357.60      | 2,729.5               | -4.2         | 25.9         | -20.9                   | 0.11                    | 0.11                   | 0.00                  |
| 2,823.0               | 0.10            | 276.20      | 2,822.5               | -4.1         | 25.8         | -20.8                   | 0.14                    | 0.00                   | -87.53                |
| 2,917.0               | 0.30            | 245.00      | 2,916.5               | -4.2         | 25.5         | -20.5                   | 0.23                    | 0.21                   | -33.19                |
| 3,010.0               | 0.10            | 240.00      | 3,009.5               | -4.4         | 25.2         | -20.2                   | 0.22                    | -0.22                  | -5.38                 |
| 3,104.0               | 0.30            | 248.70      | 3,103.5               | -4.5         | 24.9         | -19.9                   | 0.21                    | 0.21                   | 9.26                  |
| 3,197.0               | 0.40            | 228.60      | 3,196.5               | -4.8         | 24.4         | -19.3                   | 0.17                    | 0.11                   | -21.61                |
| 3,291.0               | 0.40            | 229.70      | 3,290.5               | -5.2         | 23.9         | -18.7                   | 0.01                    | 0.00                   | 1.17                  |
| 3,384.0               | 0.40            | 233.10      | 3,383.5               | -5.6         | 23.4         | -18.0                   | 0.03                    | 0.00                   | 3.66                  |
| 3,478.0               | 0.30            | 240.00      | 3,477.5               | -6.0         | 23.0         | -17.5                   | 0.12                    | -0.11                  | 7.34                  |
| 3,571.0               | 0.20            | 186.20      | 3,570.5               | -6.2         | 22.7         | -17.1                   | 0.26                    | -0.11                  | -57.85                |
| 3,665.0               | 0.00            | 178.90      | 3,664.5               | -6.4         | 22.7         | -17.0                   | 0.21                    | -0.21                  | 0.00                  |
| 3,758.0               | 0.00            | 129.50      | 3,757.5               | -6.4         | 22.7         | -17.0                   | 0.00                    | 0.00                   | 0.00                  |
| 3,852.0               | 0.10            | 170.80      | 3,851.5               | -6.5         | 22.7         | -17.0                   | 0.11                    | 0.11                   | 0.00                  |
| 3,945.0               | 0.00            | 112.50      | 3,944.5               | -6.6         | 22.7         | -17.0                   | 0.11                    | -0.11                  | 0.00                  |
| 4,039.0               | 0.10            | 17.90       | 4,038.5               | -6.5         | 22.8         | -17.1                   | 0.11                    | 0.11                   | 0.00                  |
| 4,132.0               | 0.30            | 36.40       | 4,131.5               | -6.2         | 22.9         | -17.3                   | 0.22                    | 0.22                   | 19.89                 |
| 4,226.0               | 0.40            | 21.80       | 4,225.5               | -5.7         | 23.2         | -17.8                   | 0.14                    | 0.11                   | -15.53                |
| 4,319.0               | 0.40            | 48.30       | 4,318.5               | -5.2         | 23.6         | -18.4                   | 0.18                    | 0.00                   | 26.34                 |



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**Wellbore:** Original Hole  
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**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
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### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,412.0               | 0.10            | 267.50      | 4,411.5               | -5.0         | 23.7         | -18.6                   | 0.52                    | -0.32                  | -149.25               |
| 4,506.0               | 0.40            | 268.60      | 4,505.5               | -5.0         | 23.3         | -18.2                   | 0.32                    | 0.32                   | 1.17                  |
| 4,599.0               | 0.60            | 257.90      | 4,598.4               | -5.1         | 22.5         | -17.5                   | 0.24                    | 0.22                   | -11.51                |
| 4,692.0               | 0.40            | 252.70      | 4,691.4               | -5.3         | 21.7         | -16.7                   | 0.22                    | -0.22                  | -5.59                 |
| 4,786.0               | 0.60            | 270.30      | 4,785.4               | -5.4         | 20.9         | -15.9                   | 0.27                    | 0.21                   | 18.72                 |
| 4,879.0               | 0.40            | 269.80      | 4,878.4               | -5.4         | 20.1         | -15.2                   | 0.22                    | -0.22                  | -0.54                 |
| 4,973.0               | 0.40            | 281.40      | 4,972.4               | -5.3         | 19.4         | -14.7                   | 0.09                    | 0.00                   | 12.34                 |
| 5,066.0               | 1.20            | 191.40      | 5,065.4               | -6.2         | 18.9         | -13.8                   | 1.36                    | 0.86                   | -96.77                |
| 5,159.0               | 3.10            | 173.60      | 5,158.4               | -9.7         | 19.0         | -12.3                   | 2.14                    | 2.04                   | -19.14                |
| 5,252.0               | 3.20            | 171.80      | 5,251.2               | -14.7        | 19.7         | -10.5                   | 0.15                    | 0.11                   | -1.94                 |
| 5,345.0               | 3.00            | 169.60      | 5,344.1               | -19.7        | 20.5         | -8.8                    | 0.25                    | -0.22                  | -2.37                 |
| 5,438.0               | 2.50            | 157.50      | 5,437.0               | -24.0        | 21.7         | -7.9                    | 0.82                    | -0.54                  | -13.01                |
| 5,532.0               | 3.00            | 152.60      | 5,530.9               | -28.0        | 23.6         | -7.7                    | 0.59                    | 0.53                   | -5.21                 |
| 5,625.0               | 2.50            | 158.90      | 5,623.8               | -32.1        | 25.5         | -7.4                    | 0.63                    | -0.54                  | 6.77                  |
| 5,718.0               | 3.20            | 171.10      | 5,716.6               | -36.5        | 26.6         | -6.3                    | 0.99                    | 0.75                   | 13.12                 |
| 5,812.0               | 2.50            | 170.80      | 5,810.5               | -41.2        | 27.3         | -4.8                    | 0.74                    | -0.74                  | -0.32                 |
| 5,905.0               | 3.60            | 190.00      | 5,903.4               | -46.0        | 27.1         | -2.4                    | 1.60                    | 1.18                   | 20.65                 |
| 5,999.0               | 3.10            | 202.90      | 5,997.2               | -51.3        | 25.6         | 1.4                     | 0.96                    | -0.53                  | 13.72                 |
| 6,092.0               | 2.50            | 202.40      | 6,090.1               | -55.5        | 23.9         | 4.9                     | 0.65                    | -0.65                  | -0.54                 |
| 6,186.0               | 4.00            | 199.40      | 6,184.0               | -60.5        | 22.0         | 8.9                     | 1.61                    | 1.60                   | -3.19                 |
| 6,279.0               | 4.50            | 192.60      | 6,276.7               | -67.1        | 20.1         | 13.7                    | 0.76                    | 0.54                   | -7.31                 |
| 6,373.0               | 4.40            | 191.80      | 6,370.4               | -74.2        | 18.6         | 18.4                    | 0.13                    | -0.11                  | -0.85                 |
| 6,466.0               | 4.00            | 191.20      | 6,463.2               | -80.9        | 17.2         | 22.7                    | 0.43                    | -0.43                  | -0.65                 |
| 6,560.0               | 4.00            | 201.60      | 6,557.0               | -87.1        | 15.4         | 27.3                    | 0.77                    | 0.00                   | 11.06                 |
| 6,654.0               | 3.90            | 213.50      | 6,650.7               | -92.9        | 12.4         | 32.6                    | 0.88                    | -0.11                  | 12.66                 |
| 6,747.0               | 2.50            | 204.90      | 6,743.6               | -97.3        | 9.8          | 37.0                    | 1.59                    | -1.51                  | -9.25                 |
| 6,841.0               | 2.90            | 188.30      | 6,837.5               | -101.6       | 8.6          | 40.1                    | 0.93                    | 0.43                   | -17.66                |
| 6,934.0               | 2.90            | 188.40      | 6,930.4               | -106.2       | 7.9          | 42.8                    | 0.01                    | 0.00                   | 0.11                  |
| 7,028.0               | 2.90            | 188.30      | 7,024.2               | -110.9       | 7.3          | 45.7                    | 0.01                    | 0.00                   | -0.11                 |
| 7,121.0               | 2.70            | 189.90      | 7,117.1               | -115.4       | 6.5          | 48.4                    | 0.23                    | -0.22                  | 1.72                  |
| 7,215.0               | 2.20            | 193.60      | 7,211.0               | -119.3       | 5.7          | 51.0                    | 0.56                    | -0.53                  | 3.94                  |
| 7,308.0               | 3.30            | 180.30      | 7,303.9               | -123.7       | 5.3          | 53.4                    | 1.36                    | 1.18                   | -14.30                |
| 7,402.0               | 2.80            | 184.60      | 7,397.8               | -128.7       | 5.1          | 55.9                    | 0.58                    | -0.53                  | 4.57                  |
| 7,495.0               | 2.20            | 182.70      | 7,490.7               | -132.8       | 4.8          | 58.1                    | 0.65                    | -0.65                  | -2.04                 |
| 7,589.0               | 3.70            | 181.10      | 7,584.6               | -137.6       | 4.7          | 60.5                    | 1.60                    | 1.60                   | -1.70                 |
| 7,682.0               | 3.10            | 167.50      | 7,677.4               | -143.1       | 5.2          | 62.6                    | 1.08                    | -0.65                  | -14.62                |
| 7,776.0               | 2.80            | 155.10      | 7,771.3               | -147.6       | 6.7          | 63.4                    | 0.75                    | -0.32                  | -13.19                |
| 7,869.0               | 2.70            | 137.30      | 7,864.2               | -151.3       | 9.1          | 63.0                    | 0.92                    | -0.11                  | -19.14                |
| 7,963.0               | 3.00            | 128.60      | 7,958.1               | -154.5       | 12.6         | 61.4                    | 0.56                    | 0.32                   | -9.26                 |
| 8,056.0               | 2.20            | 133.80      | 8,051.0               | -157.2       | 15.7         | 59.9                    | 0.90                    | -0.86                  | 5.59                  |
| 8,150.0               | 1.50            | 143.00      | 8,144.9               | -159.5       | 17.8         | 59.2                    | 0.81                    | -0.74                  | 9.79                  |
| 8,243.0               | 1.10            | 159.50      | 8,237.9               | -161.3       | 18.8         | 59.1                    | 0.58                    | -0.43                  | 17.74                 |
| 8,305.3               | 1.15            | 172.62      | 8,300.2               | -162.4       | 19.1         | 59.4                    | 0.42                    | 0.08                   | 21.06                 |



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|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| <b>BB Slider 18 W0MD Fed Com 1H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,337.0                             | 1.20            | 178.70      | 8,331.9               | -163.1       | 19.2         | 59.6                    | 0.42                    | 0.15                   | 19.18                 |
| 8,399.0                             | 1.20            | 189.50      | 8,393.9               | -164.4       | 19.1         | 60.3                    | 0.36                    | 0.00                   | 17.42                 |
| 8,463.0                             | 1.50            | 26.60       | 8,457.9               | -164.3       | 19.3         | 60.0                    | 4.17                    | 0.47                   | -254.53               |
| 8,494.0                             | 6.20            | 8.60        | 8,488.8               | -162.3       | 19.8         | 58.7                    | 15.47                   | 15.16                  | -58.06                |
| 8,525.0                             | 9.00            | 14.30       | 8,519.5               | -158.3       | 20.6         | 56.1                    | 9.34                    | 9.03                   | 18.39                 |
| 8,557.0                             | 13.30           | 11.30       | 8,550.9               | -152.2       | 22.0         | 52.1                    | 13.55                   | 13.44                  | -9.38                 |
| 8,588.0                             | 17.40           | 9.30        | 8,580.8               | -144.2       | 23.4         | 47.0                    | 13.33                   | 13.23                  | -6.45                 |
| 8,619.0                             | 22.10           | 5.30        | 8,610.0               | -133.8       | 24.7         | 41.0                    | 15.77                   | 15.16                  | -12.90                |
| 8,650.0                             | 26.40           | 0.80        | 8,638.2               | -121.1       | 25.3         | 34.5                    | 15.09                   | 13.87                  | -14.52                |
| 8,681.0                             | 30.60           | 2.40        | 8,665.5               | -106.3       | 25.8         | 27.1                    | 13.77                   | 13.55                  | 5.16                  |
| 8,713.0                             | 35.40           | 1.60        | 8,692.3               | -88.9        | 26.4         | 18.4                    | 15.06                   | 15.00                  | -2.50                 |
| 8,744.0                             | 39.80           | 359.80      | 8,716.9               | -70.0        | 26.6         | 9.4                     | 14.63                   | 14.19                  | -5.81                 |
| 8,775.0                             | 44.40           | 358.00      | 8,739.8               | -49.2        | 26.2         | 0.0                     | 15.34                   | 14.84                  | -5.81                 |
| 8,806.0                             | 49.60           | 357.70      | 8,761.0               | -26.5        | 25.3         | -9.9                    | 16.79                   | 16.77                  | -0.97                 |
| 8,837.0                             | 53.40           | 358.30      | 8,780.3               | -2.3         | 24.5         | -20.5                   | 12.35                   | 12.26                  | 1.94                  |
| 8,869.0                             | 56.00           | 359.40      | 8,798.8               | 23.8         | 24.0         | -32.3                   | 8.60                    | 8.13                   | 3.44                  |
| 8,900.0                             | 57.40           | 357.70      | 8,815.8               | 49.7         | 23.3         | -43.9                   | 6.43                    | 4.52                   | -5.48                 |
| 8,931.0                             | 58.10           | 357.40      | 8,832.3               | 75.9         | 22.2         | -55.2                   | 2.40                    | 2.26                   | -0.97                 |
| 8,962.0                             | 60.70           | 359.10      | 8,848.1               | 102.6        | 21.4         | -67.0                   | 9.62                    | 8.39                   | 5.48                  |
| 8,994.0                             | 65.10           | 0.70        | 8,862.7               | 131.0        | 21.3         | -80.3                   | 14.45                   | 13.75                  | 5.00                  |
| 9,025.0                             | 67.20           | 1.30        | 8,875.2               | 159.4        | 21.8         | -94.1                   | 7.00                    | 6.77                   | 1.94                  |
| 9,056.0                             | 69.80           | 1.30        | 8,886.6               | 188.2        | 22.5         | -108.2                  | 8.39                    | 8.39                   | 0.00                  |
| 9,087.0                             | 72.80           | 2.00        | 8,896.5               | 217.6        | 23.3         | -122.7                  | 9.91                    | 9.68                   | 2.26                  |
| 9,118.0                             | 74.80           | 2.20        | 8,905.2               | 247.3        | 24.4         | -137.7                  | 6.48                    | 6.45                   | 0.65                  |
| 9,150.0                             | 77.90           | 2.10        | 8,912.7               | 278.4        | 25.6         | -153.3                  | 9.69                    | 9.69                   | -0.31                 |
| 9,181.0                             | 81.90           | 1.60        | 8,918.2               | 308.9        | 26.6         | -168.5                  | 13.00                   | 12.90                  | -1.61                 |
| 9,200.0                             | 84.10           | 2.00        | 8,920.5               | 327.7        | 27.2         | -177.8                  | 11.77                   | 11.58                  | 2.11                  |
| 9,267.0                             | 88.00           | 1.20        | 8,925.1               | 394.5        | 29.0         | -210.8                  | 5.94                    | 5.82                   | -1.19                 |
| 9,299.0                             | 89.00           | 1.70        | 8,925.9               | 426.5        | 29.8         | -226.6                  | 3.49                    | 3.13                   | 1.56                  |
| 9,348.9                             | 89.05           | 1.86        | 8,926.8               | 476.3        | 31.4         | -251.3                  | 0.34                    | 0.11                   | 0.32                  |
| <b>LP Slider 18 W0MD Fed Com 1H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,392.0                             | 89.10           | 2.00        | 8,927.5               | 519.5        | 32.8         | -272.9                  | 0.34                    | 0.11                   | 0.32                  |
| 9,486.0                             | 87.00           | 1.00        | 8,930.7               | 613.4        | 35.3         | -319.1                  | 2.47                    | -2.23                  | -1.06                 |
| 9,600.0                             | 89.90           | 0.20        | 8,933.7               | 727.3        | 36.5         | -373.7                  | 2.64                    | 2.54                   | -0.70                 |
| 9,694.0                             | 91.50           | 0.80        | 8,932.6               | 821.3        | 37.3         | -418.5                  | 1.82                    | 1.70                   | 0.64                  |
| 9,788.0                             | 90.00           | 1.60        | 8,931.4               | 915.3        | 39.3         | -464.4                  | 1.81                    | -1.60                  | 0.85                  |
| 9,881.0                             | 89.40           | 1.60        | 8,931.9               | 1,008.2      | 41.9         | -510.3                  | 0.65                    | -0.65                  | 0.00                  |
| 9,975.0                             | 90.00           | 0.60        | 8,932.3               | 1,102.2      | 43.7         | -556.0                  | 1.24                    | 0.64                   | -1.06                 |
| 10,068.0                            | 91.80           | 1.60        | 8,930.9               | 1,195.2      | 45.5         | -601.2                  | 2.21                    | 1.94                   | 1.08                  |
| 10,162.0                            | 92.40           | 1.20        | 8,927.4               | 1,289.1      | 47.8         | -647.3                  | 0.77                    | 0.64                   | -0.43                 |
| 10,256.0                            | 92.00           | 1.50        | 8,923.8               | 1,383.0      | 50.0         | -693.4                  | 0.53                    | -0.43                  | 0.32                  |
| 10,349.0                            | 92.00           | 2.00        | 8,920.6               | 1,475.9      | 52.8         | -739.5                  | 0.54                    | 0.00                   | 0.54                  |



# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 18-23S-27E Slider 18 W0MD Fed Com #1H  
**Well:** Slider 18 W0MD Fed Com #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Slider 18 W0MD Fed Com #1H  
**TVD Reference:** 3219 + 27 @ 3246.0usft (Patterson 250)  
**MD Reference:** 3219 + 27 @ 3246.0usft (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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,443.0              | 91.00           | 1.40        | 8,918.1               | 1,569.8      | 55.6         | -786.1                  | 1.24                    | -1.06                  | -0.64                 |
| 10,536.0              | 89.60           | 1.00        | 8,917.6               | 1,662.8      | 57.5         | -831.4                  | 1.57                    | -1.51                  | -0.43                 |
| 10,630.0              | 88.50           | 0.60        | 8,919.2               | 1,756.7      | 58.9         | -876.7                  | 1.25                    | -1.17                  | -0.43                 |
| 10,723.0              | 90.10           | 0.70        | 8,920.3               | 1,849.7      | 59.9         | -921.3                  | 1.72                    | 1.72                   | 0.11                  |
| 10,817.0              | 91.20           | 1.20        | 8,919.3               | 1,943.7      | 61.5         | -966.8                  | 1.29                    | 1.17                   | 0.53                  |
| 10,910.0              | 93.40           | 1.90        | 8,915.5               | 2,036.6      | 64.0         | -1,012.6                | 2.48                    | 2.37                   | 0.75                  |
| 11,004.0              | 90.80           | 2.10        | 8,912.1               | 2,130.5      | 67.3         | -1,059.6                | 2.77                    | -2.77                  | 0.21                  |
| 11,097.0              | 90.50           | 1.40        | 8,911.0               | 2,223.4      | 70.1         | -1,105.7                | 0.82                    | -0.32                  | -0.75                 |
| 11,190.0              | 88.70           | 359.60      | 8,911.7               | 2,316.4      | 70.9         | -1,150.1                | 2.74                    | -1.94                  | -1.94                 |
| 11,284.0              | 90.20           | 359.60      | 8,912.6               | 2,410.4      | 70.3         | -1,193.6                | 1.60                    | 1.60                   | 0.00                  |
| 11,377.0              | 91.10           | 0.20        | 8,911.5               | 2,503.4      | 70.1         | -1,237.2                | 1.16                    | 0.97                   | 0.65                  |
| 11,471.0              | 91.20           | 0.00        | 8,909.6               | 2,597.4      | 70.3         | -1,281.4                | 0.24                    | 0.11                   | -0.21                 |
| 11,564.0              | 87.10           | 0.40        | 8,911.0               | 2,690.3      | 70.6         | -1,325.4                | 4.43                    | -4.41                  | 0.43                  |
| 11,657.0              | 87.70           | 0.50        | 8,915.2               | 2,783.2      | 71.3         | -1,369.6                | 0.65                    | 0.65                   | 0.11                  |
| 11,751.0              | 89.10           | 0.00        | 8,917.9               | 2,877.2      | 71.7         | -1,414.1                | 1.58                    | 1.49                   | -0.53                 |
| 11,844.0              | 92.00           | 2.30        | 8,917.0               | 2,970.2      | 73.6         | -1,459.4                | 3.98                    | 3.12                   | 2.47                  |
| 11,937.0              | 91.40           | 3.40        | 8,914.2               | 3,063.0      | 78.2         | -1,507.0                | 1.35                    | -0.65                  | 1.18                  |
| 12,030.0              | 91.40           | 1.90        | 8,911.9               | 3,155.9      | 82.5         | -1,554.4                | 1.61                    | 0.00                   | -1.61                 |
| 12,124.0              | 90.10           | 359.30      | 8,910.7               | 3,248.8      | 83.5         | -1,599.4                | 3.09                    | -1.38                  | -2.77                 |
| 12,217.0              | 87.20           | 357.50      | 8,912.9               | 3,342.8      | 80.9         | -1,640.8                | 3.67                    | -3.12                  | -1.94                 |
| 12,310.0              | 90.10           | 358.30      | 8,915.1               | 3,435.7      | 77.5         | -1,681.4                | 3.23                    | 3.12                   | 0.86                  |
| 12,403.0              | 88.70           | 357.60      | 8,916.1               | 3,528.6      | 74.2         | -1,722.1                | 1.68                    | -1.51                  | -0.75                 |
| 12,497.0              | 89.10           | 357.00      | 8,917.9               | 3,622.5      | 69.7         | -1,762.2                | 0.77                    | 0.43                   | -0.64                 |
| 12,591.0              | 91.70           | 358.60      | 8,917.2               | 3,716.4      | 66.1         | -1,803.1                | 3.25                    | 2.77                   | 1.70                  |
| 12,684.0              | 90.50           | 358.00      | 8,915.4               | 3,809.3      | 63.4         | -1,844.3                | 1.44                    | -1.29                  | -0.65                 |
| 12,777.0              | 91.20           | 358.30      | 8,914.0               | 3,902.3      | 60.4         | -1,885.3                | 0.82                    | 0.75                   | 0.32                  |
| 12,870.0              | 91.10           | 359.10      | 8,912.2               | 3,995.2      | 58.3         | -1,927.1                | 0.87                    | -0.11                  | 0.86                  |
| 12,963.0              | 92.70           | 0.10        | 8,909.1               | 4,088.2      | 57.6         | -1,970.1                | 2.03                    | 1.72                   | 1.08                  |
| 13,057.0              | 92.60           | 1.20        | 8,904.8               | 4,182.1      | 58.7         | -2,015.2                | 1.17                    | -0.11                  | 1.17                  |
| 13,150.0              | 91.30           | 1.10        | 8,901.6               | 4,275.0      | 60.5         | -2,060.4                | 1.40                    | -1.40                  | -0.11                 |
| 13,244.0              | 90.80           | 1.30        | 8,899.9               | 4,369.0      | 62.5         | -2,106.3                | 0.57                    | -0.53                  | 0.21                  |
| 13,337.0              | 90.50           | 1.10        | 8,898.8               | 4,461.9      | 64.5         | -2,151.7                | 0.39                    | -0.32                  | -0.22                 |
| 13,431.0              | 92.30           | 1.90        | 8,896.5               | 4,555.9      | 66.9         | -2,197.9                | 2.10                    | 1.91                   | 0.85                  |
| 13,524.0              | 90.70           | 1.40        | 8,894.1               | 4,648.8      | 69.6         | -2,243.9                | 1.80                    | -1.72                  | -0.54                 |
| 13,599.0              | 91.40           | 1.70        | 8,892.7               | 4,723.8      | 71.6         | -2,280.9                | 1.02                    | 0.93                   | 0.40                  |
| 13,655.0              | 91.40           | 1.70        | 8,891.3               | 4,779.7      | 73.3         | -2,308.6                | 0.00                    | 0.00                   | 0.00                  |

13655' MD Projected to Bit - PBHL Slider 18 W0MD Fed Com 1H



## Microsoft Survey Report



Company: Mewbourne Oil Company  
Project: Eddy County, New Mexico  
Site: Section 18-23S-27E Slider 18 W0MD Fed Com #1H  
Well: Slider 18 W0MD Fed Com #1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Slider 18 W0MD Fed Com #1H  
TVD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)  
MD Reference: 3219 + 27 @ 3246.0usft (Patterson 250)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

### Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment                    |
|-----------------------------|-----------------------------|-------------------|----------------|----------------------------|
|                             |                             | +N-S<br>(usft)    | +E-W<br>(usft) |                            |
| 13,655.0                    | 8,891.3                     | 4,779.7           | 73.3           | 13655' MD Projected to Bit |