



## **Mewbourne Oil Company**

**Lea County N. M. Nad (83)**

**Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com**

**Salado Draw 9/16 W0AP Fed Com 3H**

**Original Hole**

**Design: Original Hole**

## **Standard Survey Report**

**10 June, 2019**

**HOBBS OCD**

**JUL 09 2019**

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# Microsoft Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Salado Draw 9/16 W0AP Fed Com 3H  |
| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

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

|                       |          |                                                    |                 |                   |                  |
|-----------------------|----------|----------------------------------------------------|-----------------|-------------------|------------------|
| Site                  |          | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com |                 |                   |                  |
| Site Position:        |          | Northing:                                          | 387,936.57 usft | Latitude:         | 32° 3' 51.174 N  |
| From:                 | Map      | Easting:                                           | 777,987.06 usft | Longitude:        | 103° 34' 9.823 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:                                       | 13-3/16 "       | Grid Convergence: | 0.41 °           |

|                             |                                  |          |                            |                 |                      |                  |
|-----------------------------|----------------------------------|----------|----------------------------|-----------------|----------------------|------------------|
| <b>Well</b>                 | Salado Draw 9/16 W0AP Fed Com 3H |          |                            |                 |                      |                  |
| <b>Well Position</b>        | <b>+N/-S</b>                     | 0.0 usft | <b>Northing:</b>           | 387,936.57 usft | <b>Latitude:</b>     | 32° 3' 51.174 N  |
|                             | <b>+E/-W</b>                     | 0.0 usft | <b>Easting:</b>            | 777,987.06 usft | <b>Longitude:</b>    | 103° 34' 9.823 W |
| <b>Position Uncertainty</b> |                                  | 0.0 usft | <b>Wellhead Elevation:</b> | 27.0 usft       | <b>Ground Level:</b> | 3,333.0 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          | 11/29/18           | 6.78                   | 59.90                | 47,694.98378083            |

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

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

|                          |                                |                     |                     |                      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                 | 114.92               |

|                       |                      |                            |                  |                             |
|-----------------------|----------------------|----------------------------|------------------|-----------------------------|
| <b>Survey Program</b> | <b>Date</b> 06/10/19 |                            |                  |                             |
| <b>From (usft)</b>    | <b>To (usft)</b>     | <b>Survey (Wellbore)</b>   | <b>Tool Name</b> | <b>Description</b>          |
| 1,127.0               | 21,034.0             | MWD Survey (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> |
| 967.0                        | 0.46                   | 95.27              | 967.0                        | -7.0                | 4.4                 | 7.0                            | 0.00                           | 0.00                          | 0.00                         |
| 1,127.0                      | 0.80                   | 84.10              | 1,127.0                      | -7.0                | 6.2                 | 8.5                            | 0.22                           | 0.21                          | -6.98                        |
| 1,221.0                      | 0.80                   | 67.70              | 1,220.9                      | -6.6                | 7.4                 | 9.5                            | 0.24                           | 0.00                          | -17.45                       |
| 1,315.0                      | 0.70                   | 69.00              | 1,314.9                      | -6.2                | 8.6                 | 10.4                           | 0.11                           | -0.11                         | 1.38                         |
| 1,410.0                      | 0.70                   | 68.50              | 1,409.9                      | -5.8                | 9.7                 | 11.2                           | 0.01                           | 0.00                          | -0.53                        |
| 1,505.0                      | 0.60                   | 51.60              | 1,504.9                      | -5.3                | 10.6                | 11.8                           | 0.23                           | -0.11                         | -17.79                       |
| 1,600.0                      | 0.60                   | 60.50              | 1,599.9                      | -4.7                | 11.4                | 12.3                           | 0.10                           | 0.00                          | 9.37                         |
| 1,793.0                      | 0.50                   | 57.90              | 1,792.9                      | -3.8                | 13.0                | 13.4                           | 0.05                           | -0.05                         | -1.35                        |
| 1,800.0                      | 0.45                   | 63.32              | 1,799.9                      | -3.7                | 13.1                | 13.4                           | 0.91                           | -0.65                         | 77.37                        |

Interp @ 1799.9 (Salado Draw 9/16 W0AP Fed Com 3H)



# Microsoft Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Salado Draw 9/16 W0AP Fed Com 3H  |
| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 1,888.0               | 0.60            | 161.90      | 1,887.9               | -4.0         | 13.5         | 13.9                    | 0.91                    | 0.17                   | 112.03                |
| 1,982.0               | 0.40            | 76.30       | 1,981.9               | -4.4         | 14.0         | 14.5                    | 0.74                    | -0.21                  | -91.06                |
| 2,076.0               | 0.30            | 79.20       | 2,075.9               | -4.3         | 14.5         | 15.0                    | 0.11                    | -0.11                  | 3.09                  |
| 2,171.0               | 0.60            | 94.30       | 2,170.9               | -4.3         | 15.3         | 15.7                    | 0.34                    | 0.32                   | 15.89                 |
| 2,266.0               | 1.40            | 273.00      | 2,265.9               | -4.2         | 14.6         | 15.0                    | 2.11                    | 0.84                   | 188.11                |
| 2,361.0               | 1.10            | 268.20      | 2,360.9               | -4.2         | 12.6         | 13.2                    | 0.33                    | -0.32                  | -5.05                 |
| 2,456.0               | 0.80            | 258.50      | 2,455.9               | -4.4         | 11.0         | 11.8                    | 0.36                    | -0.32                  | -10.21                |
| 2,548.0               | 0.50            | 248.40      | 2,547.8               | -4.6         | 10.0         | 11.0                    | 0.35                    | -0.33                  | -10.98                |
| 2,643.0               | 0.20            | 189.40      | 2,642.8               | -5.0         | 9.6          | 10.8                    | 0.46                    | -0.32                  | -62.11                |
| 2,738.0               | 0.30            | 144.50      | 2,737.8               | -5.3         | 9.7          | 11.0                    | 0.22                    | 0.11                   | -47.26                |
| 2,833.0               | 0.70            | 104.90      | 2,832.8               | -5.7         | 10.4         | 11.8                    | 0.53                    | 0.42                   | -41.68                |
| 2,927.0               | 1.20            | 99.20       | 2,926.8               | -6.0         | 11.9         | 13.3                    | 0.54                    | 0.53                   | -6.06                 |
| 3,022.0               | 1.00            | 157.60      | 3,021.8               | -6.9         | 13.2         | 14.9                    | 1.14                    | -0.21                  | 61.47                 |
| 3,116.0               | 1.30            | 149.20      | 3,115.8               | -8.6         | 14.1         | 16.4                    | 0.37                    | 0.32                   | -8.94                 |
| 3,211.0               | 0.40            | 186.30      | 3,210.8               | -9.8         | 14.6         | 17.4                    | 1.06                    | -0.95                  | 39.05                 |
| 3,305.0               | 0.40            | 324.30      | 3,304.8               | -9.9         | 14.4         | 17.2                    | 0.79                    | 0.00                   | 146.81                |
| 3,400.0               | 1.00            | 29.80       | 3,399.8               | -8.9         | 14.6         | 17.0                    | 0.96                    | 0.63                   | 68.95                 |
| 3,496.0               | 1.60            | 28.90       | 3,495.8               | -7.0         | 15.7         | 17.2                    | 0.63                    | 0.63                   | -0.94                 |
| 3,590.0               | 1.10            | 20.40       | 3,589.7               | -5.0         | 16.6         | 17.2                    | 0.57                    | -0.53                  | -9.04                 |
| 3,686.0               | 1.10            | 273.00      | 3,685.7               | -4.1         | 16.0         | 16.2                    | 1.85                    | 0.00                   | -111.88               |
| 3,781.0               | 1.70            | 289.30      | 3,780.7               | -3.6         | 13.8         | 14.0                    | 0.75                    | 0.63                   | 17.16                 |
| 3,876.0               | 0.70            | 336.70      | 3,875.7               | -2.6         | 12.2         | 12.2                    | 1.40                    | -1.05                  | 49.89                 |
| 3,969.0               | 0.10            | 66.10       | 3,968.7               | -2.0         | 12.1         | 11.8                    | 0.76                    | -0.65                  | 96.13                 |
| 4,065.0               | 0.70            | 133.60      | 4,064.7               | -2.4         | 12.6         | 12.4                    | 0.70                    | 0.63                   | 70.31                 |
| 4,160.0               | 1.30            | 238.70      | 4,159.7               | -3.4         | 12.1         | 12.4                    | 1.71                    | 0.63                   | 110.63                |
| 4,254.0               | 1.50            | 241.90      | 4,253.6               | -4.5         | 10.1         | 11.0                    | 0.23                    | 0.21                   | 3.40                  |
| 4,348.0               | 1.70            | 236.60      | 4,347.6               | -5.8         | 7.8          | 9.5                     | 0.26                    | 0.21                   | -5.64                 |
| 4,444.0               | 1.80            | 221.40      | 4,443.5               | -7.8         | 5.6          | 8.4                     | 0.49                    | 0.10                   | -15.83                |
| 4,539.0               | 1.60            | 182.80      | 4,538.5               | -10.2        | 4.6          | 8.4                     | 1.20                    | -0.21                  | -40.63                |
| 4,634.0               | 1.70            | 161.80      | 4,633.5               | -12.9        | 4.9          | 9.9                     | 0.64                    | 0.11                   | -22.11                |
| 4,729.0               | 1.60            | 216.40      | 4,728.4               | -15.3        | 4.6          | 10.6                    | 1.60                    | -0.11                  | 57.47                 |
| 4,824.0               | 1.80            | 210.50      | 4,823.4               | -17.6        | 3.1          | 10.2                    | 0.28                    | 0.21                   | -6.21                 |
| 4,918.0               | 2.80            | 262.20      | 4,917.3               | -19.2        | 0.0          | 8.1                     | 2.34                    | 1.06                   | 55.00                 |
| 5,013.0               | 3.10            | 269.60      | 5,012.2               | -19.5        | -4.8         | 3.8                     | 0.51                    | 0.32                   | 7.79                  |
| 5,107.0               | 2.60            | 284.60      | 5,106.1               | -19.0        | -9.4         | -0.5                    | 0.95                    | -0.53                  | 15.96                 |
| 5,202.0               | 3.50            | 305.70      | 5,200.9               | -16.8        | -13.9        | -5.5                    | 1.50                    | 0.95                   | 22.21                 |
| 5,296.0               | 3.60            | 308.30      | 5,294.8               | -13.3        | -18.5        | -11.2                   | 0.20                    | 0.11                   | 2.77                  |
| 5,391.0               | 5.10            | 312.50      | 5,389.5               | -8.6         | -24.0        | -18.1                   | 1.61                    | 1.58                   | 4.42                  |
| 5,485.0               | 4.90            | 314.80      | 5,483.1               | -2.9         | -29.9        | -25.9                   | 0.30                    | -0.21                  | 2.45                  |
| 5,579.0               | 4.50            | 313.10      | 5,576.8               | 2.4          | -35.5        | -33.2                   | 0.45                    | -0.43                  | -1.81                 |
| 5,674.0               | 4.50            | 313.80      | 5,671.5               | 7.5          | -40.9        | -40.2                   | 0.06                    | 0.00                   | 0.74                  |
| 5,768.0               | 4.30            | 314.80      | 5,765.2               | 12.6         | -46.0        | -47.0                   | 0.23                    | -0.21                  | 1.06                  |



# Microsoft Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
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| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,863.0               | 3.90            | 315.00      | 5,860.0               | 17.4         | -50.8        | -53.4                   | 0.42                    | -0.42                  | 0.21                  |
| 5,957.0               | 3.60            | 312.90      | 5,953.8               | 21.6         | -55.3        | -59.2                   | 0.35                    | -0.32                  | -2.23                 |
| 6,053.0               | 3.40            | 313.60      | 6,049.6               | 25.7         | -59.5        | -64.8                   | 0.21                    | -0.21                  | 0.73                  |
| 6,148.0               | 4.40            | 313.60      | 6,144.4               | 30.1         | -64.2        | -70.9                   | 1.05                    | 1.05                   | 0.00                  |
| 6,242.0               | 4.40            | 315.80      | 6,238.1               | 35.2         | -69.3        | -77.7                   | 0.18                    | 0.00                   | 2.34                  |
| 6,338.0               | 4.20            | 313.00      | 6,333.9               | 40.2         | -74.5        | -84.5                   | 0.30                    | -0.21                  | -2.92                 |
| 6,432.0               | 4.20            | 312.40      | 6,427.6               | 44.9         | -79.5        | -91.0                   | 0.05                    | 0.00                   | -0.64                 |
| 6,527.0               | 4.00            | 313.40      | 6,522.4               | 49.5         | -84.5        | -97.5                   | 0.22                    | -0.21                  | 1.05                  |
| 6,622.0               | 4.40            | 312.10      | 6,617.1               | 54.2         | -89.6        | -104.1                  | 0.43                    | 0.42                   | -1.37                 |
| 6,717.0               | 4.60            | 310.20      | 6,711.8               | 59.1         | -95.2        | -111.3                  | 0.26                    | 0.21                   | -2.00                 |
| 6,812.0               | 4.30            | 311.50      | 6,806.5               | 64.0         | -100.8       | -118.4                  | 0.33                    | -0.32                  | 1.37                  |
| 6,906.0               | 4.00            | 309.00      | 6,900.3               | 68.4         | -106.0       | -124.9                  | 0.37                    | -0.32                  | -2.66                 |
| 7,001.0               | 3.80            | 309.80      | 6,995.1               | 72.5         | -111.0       | -131.2                  | 0.22                    | -0.21                  | 0.84                  |
| 7,096.0               | 4.20            | 307.60      | 7,089.8               | 76.6         | -116.2       | -137.6                  | 0.45                    | 0.42                   | -2.32                 |
| 7,191.0               | 4.30            | 305.60      | 7,184.6               | 80.8         | -121.8       | -144.5                  | 0.19                    | 0.11                   | -2.11                 |
| 7,285.0               | 4.80            | 308.20      | 7,278.3               | 85.3         | -127.8       | -151.8                  | 0.58                    | 0.53                   | 2.77                  |
| 7,380.0               | 4.60            | 308.60      | 7,373.0               | 90.1         | -133.9       | -159.4                  | 0.21                    | -0.21                  | 0.42                  |
| 7,475.0               | 4.10            | 306.70      | 7,467.7               | 94.5         | -139.6       | -166.4                  | 0.55                    | -0.53                  | -2.00                 |
| 7,570.0               | 3.90            | 300.00      | 7,562.4               | 98.2         | -145.1       | -172.9                  | 0.53                    | -0.21                  | -7.05                 |
| 7,665.0               | 3.60            | 298.60      | 7,657.2               | 101.2        | -150.5       | -179.1                  | 0.33                    | -0.32                  | -1.47                 |
| 7,760.0               | 4.00            | 295.90      | 7,752.0               | 104.1        | -156.1       | -185.4                  | 0.46                    | 0.42                   | -2.84                 |
| 7,855.0               | 4.90            | 299.90      | 7,846.7               | 107.5        | -162.6       | -192.8                  | 1.00                    | 0.95                   | 4.21                  |
| 7,949.0               | 5.40            | 304.80      | 7,940.4               | 112.1        | -169.7       | -201.1                  | 0.71                    | 0.53                   | 5.21                  |
| 8,044.0               | 5.10            | 303.90      | 8,035.0               | 117.0        | -176.9       | -209.7                  | 0.33                    | -0.32                  | -0.95                 |
| 8,139.0               | 5.20            | 313.90      | 8,129.6               | 122.3        | -183.5       | -218.0                  | 0.95                    | 0.11                   | 10.53                 |
| 8,234.0               | 5.10            | 312.20      | 8,224.2               | 128.1        | -189.7       | -226.1                  | 0.19                    | -0.11                  | -1.79                 |
| 8,327.0               | 4.70            | 309.40      | 8,316.9               | 133.3        | -195.7       | -233.7                  | 0.50                    | -0.43                  | -3.01                 |
| 8,421.0               | 4.70            | 312.20      | 8,410.5               | 138.4        | -201.6       | -241.1                  | 0.24                    | 0.00                   | 2.98                  |
| 8,516.0               | 4.40            | 310.30      | 8,505.2               | 143.3        | -207.2       | -248.3                  | 0.35                    | -0.32                  | -2.00                 |
| 8,610.0               | 4.10            | 309.30      | 8,599.0               | 147.8        | -212.6       | -255.1                  | 0.33                    | -0.32                  | -1.06                 |
| 8,705.0               | 4.10            | 306.70      | 8,693.7               | 152.0        | -217.9       | -261.7                  | 0.20                    | 0.00                   | -2.74                 |
| 8,800.0               | 4.20            | 307.40      | 8,788.5               | 156.1        | -223.4       | -268.4                  | 0.12                    | 0.11                   | 0.74                  |
| 8,894.0               | 3.80            | 308.80      | 8,882.3               | 160.2        | -228.6       | -274.8                  | 0.44                    | -0.43                  | 1.49                  |
| 8,989.0               | 3.50            | 312.60      | 8,977.1               | 164.1        | -233.2       | -280.6                  | 0.41                    | -0.32                  | 4.00                  |
| 9,084.0               | 3.30            | 310.70      | 9,071.9               | 167.8        | -237.4       | -286.0                  | 0.24                    | -0.21                  | -2.00                 |
| 9,178.0               | 3.20            | 321.20      | 9,165.8               | 171.7        | -241.1       | -291.0                  | 0.64                    | -0.11                  | 11.17                 |
| 9,273.0               | 3.10            | 325.60      | 9,260.6               | 175.8        | -244.2       | -295.5                  | 0.28                    | -0.11                  | 4.63                  |
| 9,368.0               | 3.20            | 322.70      | 9,355.5               | 180.1        | -247.2       | -300.1                  | 0.20                    | 0.11                   | -3.05                 |
| 9,463.0               | 3.30            | 320.60      | 9,450.3               | 184.3        | -250.6       | -304.9                  | 0.16                    | 0.11                   | -2.21                 |
| 9,558.0               | 2.90            | 321.00      | 9,545.2               | 188.3        | -253.8       | -309.5                  | 0.42                    | -0.42                  | 0.42                  |
| 9,652.0               | 2.90            | 322.00      | 9,639.1               | 192.0        | -256.8       | -313.8                  | 0.05                    | 0.00                   | 1.06                  |
| 9,746.0               | 2.40            | 316.90      | 9,733.0               | 195.3        | -259.6       | -317.7                  | 0.59                    | -0.53                  | -5.43                 |
| 9,841.0               | 2.20            | 311.20      | 9,827.9               | 198.0        | -262.3       | -321.3                  | 0.32                    | -0.21                  | -6.00                 |



# Microsoft Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Salado Draw 9/16 W0AP Fed Com 3H  |
| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

## 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) |
|----------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,936.0                                      | 1.60            | 311.20      | 9,922.8               | 200.0        | -264.7       | -324.3                  | 0.63                    | -0.63                  | 0.00                  |
| 10,031.0                                     | 1.70            | 288.30      | 10,017.8              | 201.3        | -267.0       | -327.0                  | 0.70                    | 0.11                   | -24.11                |
| 10,126.0                                     | 3.40            | 301.30      | 10,112.7              | 203.3        | -270.8       | -331.2                  | 1.88                    | 1.79                   | 13.68                 |
| 10,221.0                                     | 3.40            | 303.40      | 10,207.5              | 206.3        | -275.5       | -336.8                  | 0.13                    | 0.00                   | 2.21                  |
| 10,315.0                                     | 3.00            | 307.70      | 10,301.4              | 209.3        | -279.8       | -342.0                  | 0.50                    | -0.43                  | 4.57                  |
| 10,410.0                                     | 2.90            | 307.00      | 10,396.3              | 212.3        | -283.7       | -346.7                  | 0.11                    | -0.11                  | -0.74                 |
| 10,504.0                                     | 3.90            | 313.40      | 10,490.1              | 215.9        | -287.9       | -352.1                  | 1.14                    | 1.06                   | 6.81                  |
| 10,598.0                                     | 3.70            | 316.90      | 10,583.9              | 220.3        | -292.3       | -357.9                  | 0.33                    | -0.21                  | 3.72                  |
| 10,692.0                                     | 3.60            | 317.60      | 10,677.7              | 224.7        | -296.4       | -363.5                  | 0.12                    | -0.11                  | 0.74                  |
| 10,787.0                                     | 3.30            | 313.60      | 10,772.5              | 228.8        | -300.4       | -368.8                  | 0.40                    | -0.32                  | -4.21                 |
| 10,880.0                                     | 3.00            | 306.50      | 10,865.4              | 232.1        | -304.3       | -373.7                  | 0.53                    | -0.32                  | -7.63                 |
| 10,974.0                                     | 3.20            | 303.30      | 10,959.2              | 235.0        | -308.4       | -378.7                  | 0.28                    | 0.21                   | -3.40                 |
| 11,069.0                                     | 2.90            | 307.60      | 11,054.1              | 237.9        | -312.6       | -383.7                  | 0.40                    | -0.32                  | 4.53                  |
| 11,163.0                                     | 2.80            | 304.50      | 11,148.0              | 240.7        | -316.3       | -388.3                  | 0.20                    | -0.11                  | -3.30                 |
| 11,257.0                                     | 2.70            | 308.60      | 11,241.9              | 243.3        | -320.0       | -392.7                  | 0.23                    | -0.11                  | 4.36                  |
| 11,352.0                                     | 2.60            | 321.30      | 11,336.8              | 246.4        | -323.1       | -396.8                  | 0.63                    | -0.11                  | 13.37                 |
| 11,446.0                                     | 2.20            | 326.00      | 11,430.7              | 249.6        | -325.4       | -400.3                  | 0.47                    | -0.43                  | 5.00                  |
| 11,462.0                                     | 2.20            | 325.00      | 11,446.7              | 250.1        | -325.7       | -400.8                  | 0.24                    | 0.00                   | -6.25                 |
| 11,589.0                                     | 2.00            | 338.20      | 11,573.6              | 254.1        | -328.0       | -404.5                  | 0.41                    | -0.16                  | 10.39                 |
| 11,620.3                                     | 2.03            | 341.36      | 11,604.9              | 255.2        | -328.3       | -405.3                  | 0.37                    | 0.09                   | 10.10                 |
| <b>B.B. Salado Draw 9/16 W0AP Fed Com 3H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,683.0                                     | 2.10            | 347.40      | 11,667.5              | 257.3        | -328.9       | -406.8                  | 0.37                    | 0.12                   | 9.63                  |
| 11,742.0                                     | 2.00            | 349.90      | 11,726.5              | 259.4        | -329.4       | -408.0                  | 0.23                    | -0.17                  | 4.24                  |
| 11,776.0                                     | 2.00            | 346.10      | 11,760.5              | 260.6        | -329.6       | -408.7                  | 0.39                    | 0.00                   | -11.18                |
| 11,807.0                                     | 1.00            | 310.50      | 11,791.5              | 261.3        | -329.9       | -409.3                  | 4.26                    | -3.23                  | -114.84               |
| 11,839.0                                     | 1.70            | 205.00      | 11,823.5              | 261.0        | -330.4       | -409.6                  | 6.85                    | 2.19                   | -329.69               |
| 11,871.0                                     | 3.50            | 193.10      | 11,855.4              | 259.6        | -330.8       | -409.4                  | 5.84                    | 5.63                   | -37.19                |
| 11,902.0                                     | 4.10            | 189.80      | 11,886.4              | 257.6        | -331.2       | -408.9                  | 2.06                    | 1.94                   | -10.65                |
| 11,934.0                                     | 4.10            | 183.70      | 11,918.3              | 255.4        | -331.5       | -408.2                  | 1.36                    | 0.00                   | -19.06                |
| 11,965.0                                     | 6.50            | 178.60      | 11,949.1              | 252.5        | -331.5       | -407.0                  | 7.88                    | 7.74                   | -16.45                |
| 11,997.0                                     | 10.90           | 179.70      | 11,980.8              | 247.7        | -331.4       | -404.9                  | 13.76                   | 13.75                  | 3.44                  |
| 12,028.0                                     | 16.40           | 181.20      | 12,010.9              | 240.4        | -331.5       | -401.9                  | 17.78                   | 17.74                  | 4.84                  |
| 12,060.0                                     | 21.60           | 182.00      | 12,041.1              | 229.9        | -331.8       | -397.8                  | 16.27                   | 16.25                  | 2.50                  |
| 12,091.0                                     | 27.40           | 185.30      | 12,069.3              | 217.1        | -332.7       | -393.2                  | 19.22                   | 18.71                  | 10.65                 |
| 12,123.0                                     | 33.00           | 188.70      | 12,097.0              | 201.2        | -334.7       | -388.3                  | 18.29                   | 17.50                  | 10.63                 |
| 12,155.0                                     | 37.40           | 191.00      | 12,123.1              | 183.0        | -337.8       | -383.5                  | 14.36                   | 13.75                  | 7.19                  |
| 12,186.0                                     | 41.10           | 193.50      | 12,147.1              | 163.8        | -342.0       | -379.2                  | 12.98                   | 11.94                  | 8.06                  |
| 12,218.0                                     | 48.00           | 195.50      | 12,169.9              | 142.1        | -347.6       | -375.2                  | 22.00                   | 21.56                  | 6.25                  |
| 12,250.0                                     | 54.70           | 196.50      | 12,189.9              | 118.1        | -354.5       | -371.3                  | 21.08                   | 20.94                  | 3.13                  |
| 12,281.0                                     | 59.70           | 197.70      | 12,206.7              | 93.2         | -362.2       | -367.8                  | 16.45                   | 16.13                  | 3.87                  |
| 12,313.0                                     | 65.80           | 197.00      | 12,221.3              | 66.1         | -370.7       | -364.0                  | 19.16                   | 19.06                  | -2.19                 |
| 12,344.0                                     | 72.80           | 196.70      | 12,232.3              | 38.4         | -379.1       | -359.9                  | 22.60                   | 22.58                  | -0.97                 |



Microsoft  
Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Salado Draw 9/16 W0AP Fed Com 3H  |
| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

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) |
|-------------------------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,375.0                                                                      | 79.20           | 195.00      | 12,239.8              | 9.4          | -387.3       | -355.2                  | 21.32                   | 20.65                  | -5.48                 |
| 12,407.0                                                                      | 84.30           | 194.30      | 12,244.4              | -21.2        | -395.3       | -349.6                  | 16.08                   | 15.94                  | -2.19                 |
| 12,438.0                                                                      | 84.60           | 194.60      | 12,247.4              | -51.1        | -403.0       | -343.9                  | 1.37                    | 0.97                   | 0.97                  |
| 12,470.0                                                                      | 85.00           | 194.50      | 12,250.3              | -81.9        | -411.0       | -338.2                  | 1.29                    | 1.25                   | -0.31                 |
| 12,502.0                                                                      | 89.00           | 194.40      | 12,251.9              | -112.9       | -419.0       | -332.4                  | 12.50                   | 12.50                  | -0.31                 |
| 12,565.0                                                                      | 91.00           | 194.60      | 12,251.9              | -173.9       | -434.7       | -321.0                  | 3.19                    | 3.17                   | 0.32                  |
| 12,659.0                                                                      | 88.90           | 195.90      | 12,252.0              | -264.5       | -459.5       | -305.2                  | 2.63                    | -2.23                  | 1.38                  |
| 12,753.0                                                                      | 88.30           | 196.00      | 12,254.3              | -354.9       | -485.3       | -290.6                  | 0.65                    | -0.64                  | 0.11                  |
| 12,848.0                                                                      | 90.40           | 196.90      | 12,255.4              | -446.0       | -512.2       | -276.6                  | 2.40                    | 2.21                   | 0.95                  |
| 12,943.0                                                                      | 92.80           | 198.30      | 12,252.7              | -536.5       | -540.9       | -264.5                  | 2.92                    | 2.53                   | 1.47                  |
| 13,038.0                                                                      | 90.40           | 196.80      | 12,250.1              | -627.0       | -569.5       | -252.3                  | 2.98                    | -2.53                  | -1.58                 |
| 13,132.0                                                                      | 89.60           | 195.10      | 12,250.1              | -717.4       | -595.4       | -237.6                  | 2.00                    | -0.85                  | -1.81                 |
| 13,227.0                                                                      | 89.50           | 193.90      | 12,250.8              | -809.4       | -619.1       | -220.5                  | 1.27                    | -0.11                  | -1.26                 |
| 13,321.0                                                                      | 92.80           | 195.10      | 12,248.9              | -900.4       | -642.7       | -203.5                  | 3.74                    | 3.51                   | 1.28                  |
| 13,415.0                                                                      | 87.00           | 190.80      | 12,249.1              | -991.9       | -663.7       | -184.0                  | 7.68                    | -6.17                  | -4.57                 |
| 13,510.0                                                                      | 88.00           | 189.90      | 12,253.3              | -1,085.3     | -680.8       | -160.1                  | 1.42                    | 1.05                   | -0.95                 |
| 13,605.0                                                                      | 91.50           | 189.40      | 12,253.7              | -1,178.9     | -696.7       | -135.1                  | 3.72                    | 3.68                   | -0.53                 |
| 13,700.0                                                                      | 91.70           | 188.70      | 12,251.0              | -1,272.7     | -711.6       | -109.1                  | 0.77                    | 0.21                   | -0.74                 |
| 13,795.0                                                                      | 90.00           | 183.40      | 12,249.6              | -1,367.1     | -721.6       | -78.4                   | 5.86                    | -1.79                  | -5.58                 |
| 13,891.0                                                                      | 88.80           | 182.80      | 12,250.6              | -1,463.0     | -726.8       | -42.7                   | 1.40                    | -1.25                  | -0.63                 |
| 13,986.0                                                                      | 90.80           | 183.90      | 12,250.9              | -1,557.8     | -732.4       | -7.8                    | 2.40                    | 2.11                   | 1.16                  |
| 14,081.0                                                                      | 89.60           | 185.10      | 12,250.6              | -1,652.5     | -739.8       | 25.3                    | 1.79                    | -1.26                  | 1.26                  |
| 14,175.0                                                                      | 88.80           | 184.00      | 12,251.9              | -1,746.2     | -747.3       | 58.1                    | 1.45                    | -0.85                  | -1.17                 |
| 14,269.0                                                                      | 88.80           | 182.50      | 12,253.9              | -1,840.0     | -752.6       | 92.8                    | 1.60                    | 0.00                   | -1.60                 |
| 14,364.0                                                                      | 88.20           | 179.20      | 12,256.4              | -1,935.0     | -754.0       | 131.5                   | 3.53                    | -0.63                  | -3.47                 |
| 14,459.0                                                                      | 90.20           | 178.70      | 12,257.7              | -2,029.9     | -752.3       | 173.1                   | 2.17                    | 2.11                   | -0.53                 |
| 14,570.0                                                                      | 88.70           | 177.90      | 12,258.8              | -2,140.9     | -749.0       | 222.8                   | 1.53                    | -1.35                  | -0.72                 |
| 14,577.0                                                                      | 88.71           | 177.87      | 12,258.9              | -2,147.9     | -748.7       | 226.0                   | 0.44                    | 0.11                   | -0.43                 |
| 14577.0' MD Top of Fish - Interp @ 12258.9 (Salado Draw 9/16 W0AP Fed Com 3H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 14,664.0                                                                      | 88.80           | 177.50      | 12,260.8              | -2,234.8     | -745.2       | 265.8                   | 0.44                    | 0.11                   | -0.43                 |
| 14,758.0                                                                      | 90.80           | 178.90      | 12,261.1              | -2,328.7     | -742.3       | 308.1                   | 2.60                    | 2.13                   | 1.49                  |
| 14,854.0                                                                      | 89.30           | 179.30      | 12,261.1              | -2,424.7     | -740.8       | 349.9                   | 1.62                    | -1.56                  | 0.42                  |
| 14,948.0                                                                      | 89.70           | 180.50      | 12,261.9              | -2,518.7     | -740.6       | 389.6                   | 1.35                    | 0.43                   | 1.28                  |
| 15,043.0                                                                      | 91.60           | 181.20      | 12,260.8              | -2,613.7     | -742.0       | 428.4                   | 2.13                    | 2.00                   | 0.74                  |
| 15,138.0                                                                      | 90.00           | 180.20      | 12,259.5              | -2,708.7     | -743.2       | 467.3                   | 1.99                    | -1.68                  | -1.05                 |
| 15,233.0                                                                      | 87.60           | 178.90      | 12,261.5              | -2,803.6     | -742.4       | 508.0                   | 2.87                    | -2.53                  | -1.37                 |
| 15,327.0                                                                      | 89.70           | 180.50      | 12,263.7              | -2,897.6     | -741.9       | 548.1                   | 2.81                    | 2.23                   | 1.70                  |
| 15,422.0                                                                      | 88.40           | 179.30      | 12,265.3              | -2,992.6     | -741.8       | 588.2                   | 1.86                    | -1.37                  | -1.26                 |
| 15,518.0                                                                      | 91.30           | 181.50      | 12,265.5              | -3,088.5     | -742.4       | 628.1                   | 3.79                    | 3.02                   | 2.29                  |
| 15,612.0                                                                      | 86.60           | 178.20      | 12,267.2              | -3,182.5     | -742.2       | 667.9                   | 6.11                    | -5.00                  | -3.51                 |
| 15,706.0                                                                      | 85.20           | 177.60      | 12,274.0              | -3,276.2     | -738.8       | 710.5                   | 1.62                    | -1.49                  | -0.64                 |
| 15,802.0                                                                      | 89.10           | 179.90      | 12,278.7              | -3,372.0     | -736.7       | 752.7                   | 4.71                    | 4.06                   | 2.40                  |
| 15,896.0                                                                      | 90.90           | 181.90      | 12,278.7              | -3,466.0     | -738.2       | 791.0                   | 2.86                    | 1.91                   | 2.13                  |



Microsoft  
Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com  
**Well:** Salado Draw 9/16 W0AP Fed Com 3H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Salado Draw 9/16 W0AP Fed Com 3H  
**TVD Reference:** 3333 + 27 @ 3360.0usft (Patterson 231)  
**MD Reference:** 3333 + 27 @ 3360.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

**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) |
|-----------------------|-----------------|-------------|-----------------------|---------------------|-------------------|-------------------------|-------------------------|------------------------|-----------------------|
| 15,989.0              | 90.50           | 180.10      | 12,277.6              | -3,559.0            | -739.8            | 828.7                   | 1.98                    | -0.43                  | -1.94                 |
| 16,084.0              | 90.30           | 180.60      | 12,276.9              | -3,654.0            | -740.4            | 868.2                   | 0.57                    | -0.21                  | 0.53                  |
| 16,178.0              | 90.70           | 180.40      | 12,276.1              | -3,748.0            | -741.2            | 907.1                   | 0.48                    | 0.43                   | -0.21                 |
| <del>16,273.0</del>   | 91.70           | 180.20      | 12,274.1              | <del>-3,842.9</del> | <del>-741.7</del> | 946.6                   | 1.07                    | 1.05                   | -0.21                 |
| 16,368.0              | 90.20           | 177.80      | 12,272.5              | -3,937.9            | -740.0            | 988.1                   | 2.98                    | -1.58                  | -2.53                 |
| 16,464.0              | 90.40           | 177.70      | 12,272.0              | -4,033.8            | -736.2            | 1,032.0                 | 0.23                    | 0.21                   | -0.10                 |
| 16,559.0              | 91.50           | 179.00      | 12,270.5              | -4,128.8            | -733.5            | 1,074.5                 | 1.79                    | 1.16                   | 1.37                  |
| 16,654.0              | 90.40           | 179.80      | 12,268.9              | -4,223.7            | -732.5            | 1,115.4                 | 1.43                    | -1.16                  | 0.84                  |
| 16,749.0              | 91.50           | 181.20      | 12,267.3              | -4,318.7            | -733.3            | 1,154.7                 | 1.87                    | 1.16                   | 1.47                  |
| 16,781.0              | 90.40           | 180.90      | 12,266.8              | -4,350.7            | -733.9            | 1,167.6                 | 3.56                    | -3.44                  | -0.94                 |
| 16,812.0              | 88.80           | 180.60      | 12,267.0              | -4,381.7            | -734.3            | 1,180.3                 | 5.25                    | -5.16                  | -0.97                 |
| 16,844.0              | 85.90           | 179.00      | 12,268.5              | -4,413.7            | -734.2            | 1,193.9                 | 10.35                   | -9.06                  | -5.00                 |
| 16,877.0              | 86.20           | 179.90      | 12,270.8              | -4,446.6            | -733.9            | 1,208.0                 | 2.87                    | 0.91                   | 2.73                  |
| 16,908.0              | 85.90           | 180.00      | 12,272.9              | -4,477.5            | -733.9            | 1,221.1                 | 1.02                    | -0.97                  | 0.32                  |
| 16,940.0              | 85.40           | 180.00      | 12,275.3              | -4,509.4            | -733.9            | 1,234.5                 | 1.56                    | -1.56                  | 0.00                  |
| 17,034.0              | 83.90           | 180.00      | 12,284.1              | -4,603.0            | -733.9            | 1,274.0                 | 1.60                    | -1.60                  | 0.00                  |
| 17,128.0              | 84.70           | 179.60      | 12,293.4              | -4,696.5            | -733.6            | 1,313.7                 | 0.95                    | 0.85                   | -0.43                 |
| 17,159.0              | 85.50           | 179.60      | 12,296.1              | -4,727.4            | -733.3            | 1,326.9                 | 2.58                    | 2.58                   | 0.00                  |
| 17,191.0              | 86.60           | 180.50      | 12,298.3              | -4,759.4            | -733.4            | 1,340.3                 | 4.44                    | 3.44                   | 2.81                  |
| 17,223.0              | 88.20           | 181.10      | 12,299.7              | -4,791.3            | -733.8            | 1,353.4                 | 5.34                    | 5.00                   | 1.88                  |
| 17,254.0              | 88.30           | 181.70      | 12,300.7              | -4,822.3            | -734.6            | 1,365.7                 | 1.96                    | 0.32                   | 1.94                  |
| 17,286.0              | 89.20           | 183.00      | 12,301.4              | -4,854.3            | -735.9            | 1,378.0                 | 4.94                    | 2.81                   | 4.06                  |
| 17,317.0              | 91.30           | 182.70      | 12,301.2              | -4,885.2            | -737.4            | 1,389.7                 | 6.84                    | 6.77                   | -0.97                 |
| 17,349.0              | 92.40           | 182.70      | 12,300.2              | -4,917.2            | -738.9            | 1,401.8                 | 3.44                    | 3.44                   | 0.00                  |
| 17,380.0              | 91.60           | 182.20      | 12,299.1              | -4,948.1            | -740.3            | 1,413.6                 | 3.04                    | -2.58                  | -1.61                 |
| 17,411.0              | 90.00           | 182.30      | 12,298.7              | -4,979.1            | -741.5            | 1,425.5                 | 5.17                    | -5.16                  | 0.32                  |
| 17,442.0              | 89.60           | 181.80      | 12,298.8              | -5,010.1            | -742.6            | 1,437.6                 | 2.07                    | -1.29                  | -1.61                 |
| 17,474.0              | 89.80           | 181.50      | 12,299.0              | -5,042.1            | -743.5            | 1,450.2                 | 1.13                    | 0.63                   | -0.94                 |
| 17,505.0              | 90.30           | 179.00      | 12,298.9              | -5,073.1            | -743.6            | 1,463.2                 | 8.22                    | 1.61                   | -8.06                 |
| 17,540.0              | 90.00           | 176.90      | 12,298.8              | -5,108.0            | -742.4            | 1,479.0                 | 6.06                    | -0.86                  | -6.00                 |
| 17,571.0              | 89.80           | 176.80      | 12,298.9              | -5,139.0            | -740.7            | 1,493.6                 | 0.72                    | -0.65                  | -0.32                 |
| 17,603.0              | 89.80           | 177.60      | 12,299.0              | -5,170.9            | -739.1            | 1,508.5                 | 2.50                    | 0.00                   | 2.50                  |
| 17,635.0              | 90.00           | 178.20      | 12,299.1              | -5,202.9            | -737.9            | 1,523.0                 | 1.98                    | 0.63                   | 1.88                  |
| 17,666.0              | 89.10           | 178.10      | 12,299.3              | -5,233.9            | -736.9            | 1,537.0                 | 2.92                    | -2.90                  | -0.32                 |
| 17,698.0              | 89.50           | 178.50      | 12,299.7              | -5,265.9            | -736.0            | 1,551.3                 | 1.77                    | 1.25                   | 1.25                  |
| 17,730.0              | 91.40           | 176.80      | 12,299.4              | -5,297.9            | -734.7            | 1,566.0                 | 7.97                    | 5.94                   | -5.31                 |
| 17,761.0              | 92.00           | 177.40      | 12,298.5              | -5,328.8            | -733.1            | 1,580.5                 | 2.74                    | 1.94                   | 1.94                  |
| 17,793.0              | 90.90           | 178.50      | 12,297.7              | -5,360.8            | -732.0            | 1,595.0                 | 4.86                    | -3.44                  | 3.44                  |
| 17,825.0              | 90.00           | 180.80      | 12,297.5              | -5,392.8            | -731.8            | 1,608.6                 | 7.72                    | -2.81                  | 7.19                  |
| 17,856.0              | 90.50           | 181.30      | 12,297.3              | -5,423.8            | -732.3            | 1,621.2                 | 2.28                    | 1.61                   | 1.61                  |
| 17,888.0              | 91.60           | 181.60      | 12,296.7              | -5,455.7            | -733.2            | 1,633.9                 | 3.56                    | 3.44                   | 0.94                  |
| 17,919.0              | 93.50           | 181.10      | 12,295.4              | -5,486.7            | -733.9            | 1,646.3                 | 6.34                    | 6.13                   | -1.61                 |
| 17,951.0              | 91.60           | 179.80      | 12,293.9              | -5,518.7            | -734.1            | 1,659.5                 | 7.19                    | -5.94                  | -4.06                 |



# Microsoft Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Salado Draw 9/16 W0AP Fed Com 3H  |
| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

## 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) |
|-----------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 17,983.0                                            | 91.90           | 180.80      | 12,293.0              | -5,550.7     | -734.3       | 1,672.9                 | 3.26                    | 0.94                   | 3.13                  |
| 18,000.0                                            | 92.28           | 179.48      | 12,292.3              | -5,567.7     | -734.3       | 1,680.0                 | 8.06                    | 2.26                   | -7.74                 |
| Interp @ 12245.6 (Salado Draw 9/16 W0AP Fed Com 3H) |                 |             |                       |              |              |                         |                         |                        |                       |
| 18,014.0                                            | 92.60           | 178.40      | 12,291.7              | -5,581.6     | -734.1       | 1,686.1                 | 8.06                    | 2.25                   | -7.74                 |
| 18,046.0                                            | 93.30           | 179.30      | 12,290.1              | -5,613.6     | -733.4       | 1,700.2                 | 3.56                    | 2.19                   | 2.81                  |
| 18,077.0                                            | 92.60           | 178.60      | 12,288.5              | -5,644.5     | -732.9       | 1,713.7                 | 3.19                    | -2.26                  | -2.26                 |
| 18,109.0                                            | 92.60           | 179.30      | 12,287.1              | -5,676.5     | -732.3       | 1,727.7                 | 2.19                    | 0.00                   | 2.19                  |
| 18,140.0                                            | 91.00           | 175.60      | 12,286.1              | -5,707.4     | -730.9       | 1,742.0                 | 13.00                   | -5.16                  | -11.94                |
| 18,172.0                                            | 89.60           | 172.40      | 12,285.9              | -5,739.3     | -727.6       | 1,758.4                 | 10.91                   | -4.38                  | -10.00                |
| 18,204.0                                            | 89.80           | 173.10      | 12,286.1              | -5,771.0     | -723.5       | 1,775.5                 | 2.28                    | 0.63                   | 2.19                  |
| 18,235.0                                            | 90.00           | 177.40      | 12,286.1              | -5,801.9     | -721.0       | 1,790.8                 | 13.89                   | 0.65                   | 13.87                 |
| 18,267.0                                            | 89.50           | 179.10      | 12,286.3              | -5,833.9     | -720.0       | 1,805.2                 | 5.54                    | -1.56                  | 5.31                  |
| 18,298.0                                            | 89.70           | 181.90      | 12,286.5              | -5,864.9     | -720.3       | 1,818.0                 | 9.06                    | 0.65                   | 9.03                  |
| 18,330.0                                            | 90.60           | 183.70      | 12,286.4              | -5,896.8     | -721.8       | 1,830.1                 | 6.29                    | 2.81                   | 5.63                  |
| 18,362.0                                            | 91.60           | 183.60      | 12,285.8              | -5,928.8     | -723.9       | 1,841.7                 | 3.14                    | 3.13                   | -0.31                 |
| 18,393.0                                            | 92.10           | 183.00      | 12,284.8              | -5,959.7     | -725.6       | 1,853.1                 | 2.52                    | 1.61                   | -1.94                 |
| 18,425.0                                            | 93.80           | 183.00      | 12,283.1              | -5,991.6     | -727.3       | 1,865.0                 | 5.31                    | 5.31                   | 0.00                  |
| 18,456.0                                            | 95.20           | 182.50      | 12,280.7              | -6,022.5     | -728.8       | 1,876.7                 | 4.79                    | 4.52                   | -1.61                 |
| 18,488.0                                            | 96.10           | 182.80      | 12,277.6              | -6,054.3     | -730.3       | 1,888.7                 | 2.96                    | 2.81                   | 0.94                  |
| 18,519.0                                            | 95.60           | 182.50      | 12,274.4              | -6,085.1     | -731.7       | 1,900.4                 | 1.88                    | -1.61                  | -0.97                 |
| 18,551.0                                            | 93.00           | 180.80      | 12,272.0              | -6,117.0     | -732.6       | 1,913.0                 | 9.70                    | -8.13                  | -5.31                 |
| 18,583.0                                            | 92.70           | 180.90      | 12,270.4              | -6,148.9     | -733.1       | 1,926.1                 | 0.99                    | -0.94                  | 0.31                  |
| 18,615.0                                            | 90.90           | 180.20      | 12,269.4              | -6,180.9     | -733.4       | 1,939.3                 | 6.03                    | -5.63                  | -2.19                 |
| 18,646.0                                            | 89.70           | 178.10      | 12,269.2              | -6,211.9     | -732.9       | 1,952.7                 | 7.80                    | -3.87                  | -6.77                 |
| 18,678.0                                            | 89.90           | 176.40      | 12,269.4              | -6,243.9     | -731.4       | 1,967.6                 | 5.35                    | 0.63                   | -5.31                 |
| 18,709.0                                            | 90.20           | 175.90      | 12,269.3              | -6,274.8     | -729.3       | 1,982.5                 | 1.88                    | 0.97                   | -1.61                 |
| 18,741.0                                            | 89.80           | 175.10      | 12,269.3              | -6,306.7     | -726.8       | 1,998.2                 | 2.80                    | -1.25                  | -2.50                 |
| 18,772.0                                            | 90.70           | 174.00      | 12,269.2              | -6,337.6     | -723.9       | 2,013.9                 | 4.58                    | 2.90                   | -3.55                 |
| 18,804.0                                            | 90.90           | 172.10      | 12,268.7              | -6,369.3     | -720.0       | 2,030.8                 | 5.97                    | 0.63                   | -5.94                 |
| 18,836.0                                            | 90.40           | 170.60      | 12,268.4              | -6,401.0     | -715.2       | 2,048.5                 | 4.94                    | -1.56                  | -4.69                 |
| 18,867.0                                            | 90.30           | 169.90      | 12,268.2              | -6,431.5     | -709.9       | 2,066.1                 | 2.28                    | -0.32                  | -2.26                 |
| 18,899.0                                            | 89.70           | 169.60      | 12,268.2              | -6,463.0     | -704.2       | 2,084.6                 | 2.10                    | -1.88                  | -0.94                 |
| 18,931.0                                            | 89.40           | 169.80      | 12,268.4              | -6,494.5     | -698.5       | 2,103.0                 | 1.13                    | -0.94                  | 0.63                  |
| 18,963.0                                            | 90.00           | 169.30      | 12,268.6              | -6,526.0     | -692.7       | 2,121.5                 | 2.44                    | 1.88                   | -1.56                 |
| 18,994.0                                            | 89.50           | 167.20      | 12,268.7              | -6,556.3     | -686.4       | 2,140.1                 | 6.96                    | -1.61                  | -6.77                 |
| 19,026.0                                            | 88.50           | 165.00      | 12,269.3              | -6,587.4     | -678.7       | 2,160.1                 | 7.55                    | -3.13                  | -6.88                 |
| 19,058.0                                            | 88.40           | 165.00      | 12,270.2              | -6,618.3     | -670.4       | 2,180.6                 | 0.31                    | -0.31                  | 0.00                  |
| 19,089.0                                            | 87.90           | 160.90      | 12,271.2              | -6,647.9     | -661.4       | 2,201.4                 | 13.32                   | -1.61                  | -13.23                |
| 19,108.0                                            | 88.60           | 158.90      | 12,271.8              | -6,665.7     | -654.8       | 2,214.8                 | 11.15                   | 3.68                   | -10.53                |
| 19,140.0                                            | 88.70           | 158.00      | 12,272.5              | -6,695.5     | -643.1       | 2,238.0                 | 2.83                    | 0.31                   | -2.81                 |
| 19,171.0                                            | 89.40           | 158.00      | 12,273.0              | -6,724.2     | -631.5       | 2,260.6                 | 2.26                    | 2.26                   | 0.00                  |
| 19,203.0                                            | 91.70           | 155.70      | 12,272.7              | -6,753.6     | -618.9       | 2,284.4                 | 10.16                   | 7.19                   | -7.19                 |



# Microsoft Survey Report



|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Salado Draw 9/16 W0AP Fed Com 3H  |
| <b>Project:</b>  | Lea County N. M. Nad (83)                          | <b>TVD Reference:</b>               | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Site:</b>     | Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com | <b>MD Reference:</b>                | 3333 + 27 @ 3360.0usft (Patterson 231) |
| <b>Well:</b>     | Salado Draw 9/16 W0AP Fed Com 3H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                      | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 19,235.0              | 92.70           | 156.50      | 12,271.5              | -6,782.8     | -605.9       | 2,308.5                 | 4.00                    | 3.13                   | 2.50                  |
| 19,266.0              | 93.20           | 157.40      | 12,269.9              | -6,811.3     | -593.8       | 2,331.5                 | 3.32                    | 1.61                   | 2.90                  |
| 19,330.0              | 93.60           | 160.70      | 12,266.1              | -6,871.0     | -571.0       | 2,377.3                 | 5.18                    | 0.63                   | 5.16                  |
| 19,361.0              | 92.20           | 161.20      | 12,264.5              | -6,900.3     | -560.9       | 2,398.8                 | 4.79                    | -4.52                  | 1.61                  |
| 19,393.0              | 93.00           | 161.00      | 12,263.1              | -6,930.5     | -550.5       | 2,421.0                 | 2.58                    | 2.50                   | -0.63                 |
| 19,425.0              | 92.40           | 160.50      | 12,261.6              | -6,960.7     | -540.0       | 2,443.2                 | 2.44                    | -1.88                  | -1.56                 |
| 19,457.0              | 92.30           | 160.40      | 12,260.3              | -6,990.8     | -529.3       | 2,465.6                 | 0.44                    | -0.31                  | -0.31                 |
| 19,488.0              | 92.70           | 161.00      | 12,258.9              | -7,020.0     | -519.0       | 2,487.2                 | 2.32                    | 1.29                   | 1.94                  |
| 19,520.0              | 93.10           | 161.00      | 12,257.3              | -7,050.3     | -508.6       | 2,509.4                 | 1.25                    | 1.25                   | 0.00                  |
| 19,551.0              | 92.30           | 161.60      | 12,255.8              | -7,079.6     | -498.7       | 2,530.8                 | 3.22                    | -2.58                  | 1.94                  |
| 19,583.0              | 91.90           | 161.60      | 12,254.6              | -7,109.9     | -488.6       | 2,552.7                 | 1.25                    | -1.25                  | 0.00                  |
| 19,615.0              | 91.10           | 162.10      | 12,253.8              | -7,140.3     | -478.6       | 2,574.5                 | 2.95                    | -2.50                  | 1.56                  |
| 19,646.0              | 89.80           | 162.40      | 12,253.6              | -7,169.8     | -469.2       | 2,595.6                 | 4.30                    | -4.19                  | 0.97                  |
| 19,678.0              | 89.90           | 162.60      | 12,253.7              | -7,200.4     | -459.6       | 2,617.1                 | 0.70                    | 0.31                   | 0.63                  |
| 19,709.0              | 89.00           | 161.80      | 12,253.9              | -7,229.9     | -450.1       | 2,638.2                 | 3.88                    | -2.90                  | -2.58                 |
| 19,741.0              | 87.90           | 161.20      | 12,254.8              | -7,260.2     | -439.9       | 2,660.2                 | 3.92                    | -3.44                  | -1.88                 |
| 19,773.0              | 87.70           | 161.10      | 12,256.0              | -7,290.5     | -429.6       | 2,682.3                 | 0.70                    | -0.63                  | -0.31                 |
| 19,805.0              | 88.50           | 161.70      | 12,257.1              | -7,320.8     | -419.4       | 2,704.3                 | 3.12                    | 2.50                   | 1.88                  |
| 19,836.0              | 89.10           | 162.50      | 12,257.8              | -7,350.3     | -409.9       | 2,725.4                 | 3.23                    | 1.94                   | 2.58                  |
| 19,867.0              | 89.30           | 162.60      | 12,258.2              | -7,379.8     | -400.6       | 2,746.3                 | 0.72                    | 0.65                   | 0.32                  |
| 19,899.0              | 90.60           | 163.50      | 12,258.2              | -7,410.5     | -391.3       | 2,767.6                 | 4.94                    | 4.06                   | 2.81                  |
| 19,931.0              | 90.70           | 164.20      | 12,257.9              | -7,441.2     | -382.4       | 2,788.6                 | 2.21                    | 0.31                   | 2.19                  |
| 19,962.0              | 90.70           | 164.30      | 12,257.5              | -7,471.0     | -374.0       | 2,808.8                 | 0.32                    | 0.00                   | 0.32                  |
| 19,994.0              | 90.10           | 164.10      | 12,257.2              | -7,501.8     | -365.2       | 2,829.7                 | 1.98                    | -1.88                  | -0.63                 |
| 20,026.0              | 88.40           | 163.40      | 12,257.7              | -7,532.5     | -356.3       | 2,850.8                 | 5.75                    | -5.31                  | -2.19                 |
| 20,089.0              | 87.30           | 163.40      | 12,260.0              | -7,592.9     | -338.3       | 2,892.5                 | 1.75                    | -1.75                  | 0.00                  |
| 20,121.0              | 89.70           | 165.20      | 12,260.9              | -7,623.7     | -329.6       | 2,913.3                 | 9.37                    | 7.50                   | 5.63                  |
| 20,152.0              | 90.20           | 166.20      | 12,260.9              | -7,653.7     | -322.0       | 2,932.9                 | 3.61                    | 1.61                   | 3.23                  |
| 20,184.0              | 91.10           | 167.40      | 12,260.5              | -7,684.8     | -314.7       | 2,952.7                 | 4.69                    | 2.81                   | 3.75                  |
| 20,215.0              | 91.20           | 167.60      | 12,259.9              | -7,715.1     | -308.0       | 2,971.5                 | 0.72                    | 0.32                   | 0.65                  |
| 20,247.0              | 90.00           | 169.30      | 12,259.6              | -7,746.5     | -301.6       | 2,990.5                 | 6.50                    | -3.75                  | 5.31                  |
| 20,278.0              | 90.90           | 170.40      | 12,259.3              | -7,777.0     | -296.1       | 3,008.3                 | 4.58                    | 2.90                   | 3.55                  |
| 20,310.0              | 88.70           | 170.30      | 12,259.4              | -7,808.5     | -290.7       | 3,026.5                 | 6.88                    | -6.88                  | -0.31                 |
| 20,342.0              | 87.60           | 170.80      | 12,260.5              | -7,840.1     | -285.5       | 3,044.6                 | 3.78                    | -3.44                  | 1.56                  |
| 20,373.0              | 89.00           | 171.40      | 12,261.4              | -7,870.7     | -280.7       | 3,061.8                 | 4.91                    | 4.52                   | 1.94                  |
| 20,405.0              | 87.70           | 172.50      | 12,262.3              | -7,902.3     | -276.2       | 3,079.2                 | 5.32                    | -4.06                  | 3.44                  |
| 20,434.0              | 89.10           | 173.30      | 12,263.1              | -7,931.1     | -272.6       | 3,094.6                 | 5.56                    | 4.83                   | 2.76                  |
| 20,465.0              | 88.20           | 174.10      | 12,263.9              | -7,961.9     | -269.2       | 3,110.6                 | 3.88                    | -2.90                  | 2.58                  |
| 20,496.0              | 87.50           | 175.10      | 12,265.0              | -7,992.8     | -266.3       | 3,126.3                 | 3.94                    | -2.26                  | 3.23                  |
| 20,528.0              | 88.00           | 176.90      | 12,266.3              | -8,024.7     | -264.1       | 3,141.7                 | 5.83                    | 1.56                   | 5.63                  |
| 20,559.0              | 88.30           | 177.40      | 12,267.3              | -8,055.6     | -262.5       | 3,156.2                 | 1.88                    | 0.97                   | 1.61                  |
| 20,591.0              | 88.20           | 180.00      | 12,268.3              | -8,087.6     | -261.8       | 3,170.3                 | 8.13                    | -0.31                  | 8.13                  |
| 20,623.0              | 88.20           | 182.40      | 12,269.3              | -8,119.5     | -262.5       | 3,183.2                 | 7.50                    | 0.00                   | 7.50                  |



# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 9/16-26S-33E Salado Draw 9/16 W0AP Fed Com  
**Well:** Salado Draw 9/16 W0AP Fed Com 3H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Salado Draw 9/16 W0AP Fed Com 3H  
**TVD Reference:** 3333 + 27 @ 3360.0usft (Patterson 231)  
**MD Reference:** 3333 + 27 @ 3360.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 20,654.0              | 88.40           | 183.20      | 12,270.2              | -8,150.5     | -264.0       | 3,194.8                 | 2.66                    | 0.65                   | 2.58                  |
| 20,718.0              | 87.50           | 183.80      | 12,272.5              | -8,214.3     | -267.9       | 3,218.2                 | 1.69                    | -1.41                  | 0.94                  |
| 20,749.0              | 87.30           | 183.70      | 12,273.9              | -8,245.2     | -269.9       | 3,229.4                 | 0.72                    | -0.65                  | -0.32                 |
| 20,781.0              | 87.10           | 183.50      | 12,275.4              | -8,277.1     | -271.9       | 3,241.0                 | 0.88                    | -0.63                  | -0.63                 |
| 20,844.0              | 87.10           | 184.10      | 12,278.6              | -8,339.9     | -276.1       | 3,263.7                 | 0.95                    | 0.00                   | 0.95                  |
| 20,939.0              | 87.30           | 186.40      | 12,283.3              | -8,434.4     | -284.8       | 3,295.6                 | 2.43                    | 0.21                   | 2.42                  |
| 21,034.0              | 87.30           | 187.00      | 12,287.7              | -8,528.6     | -295.9       | 3,325.3                 | 0.63                    | 0.00                   | 0.63                  |

21034' MD Survey Depth - New SHL Salado Draw 9/16 W0AP Fed Com 3H - PBHL Salado Draw 9/16 W0AP Fed Com 3H

## Design Targets

### Target Name

| - hit/miss target<br>- Shape                                                                                                                | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude         |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|-------------------|
| Interp @ 12258.9 (Sa<br>- actual wellpath hits target center<br>- Point                                                                     | 0.00          | 0.00         | 12,258.9   | -2,147.9     | -748.7       | 385,788.71      | 777,238.32     | 32° 3' 29.972 N | 103° 34' 18.700 W |
| New SHL Salado Draw<br>- actual wellpath misses target center by 1609.7usft at 21034.0usft MD (12287.7 TVD, -8528.6 N, -295.9 E)<br>- Point | 0.00          | 0.00         | 12,280.0   | -10,085.1    | -706.2       | 377,851.47      | 777,280.88     | 32° 2' 11.427 N | 103° 34' 18.856 W |

## Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates<br>+N/-S (usft) | +E/-W (usft) | Comment                 |
|-----------------------|-----------------------|-----------------------------------|--------------|-------------------------|
| 14,577.0              | 12,258.9              | -2,147.9                          | -748.7       | 14577.0' MD Top of Fish |
| 21,034.0              | 12,287.7              | -8,528.6                          | -295.9       | 21034' MD Survey Depth  |



COMPANY: Mewbourne Oil Company  
WELL: Salado Draw 9/16 W0AP Fed Com 3H  
COUNTY: Lea County N. M. Nad (83)  
DATUM: North American Datum 1983  
RIG: Patterson 231

**STRYKER**  
DIRECTIONAL

OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.38°

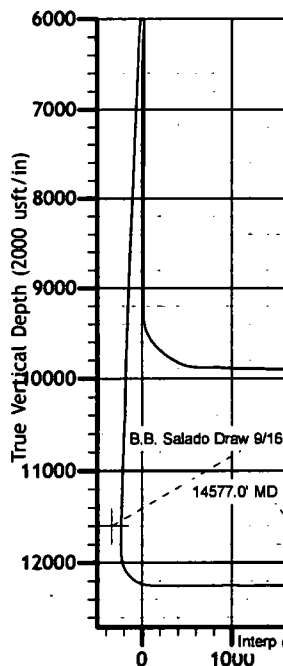
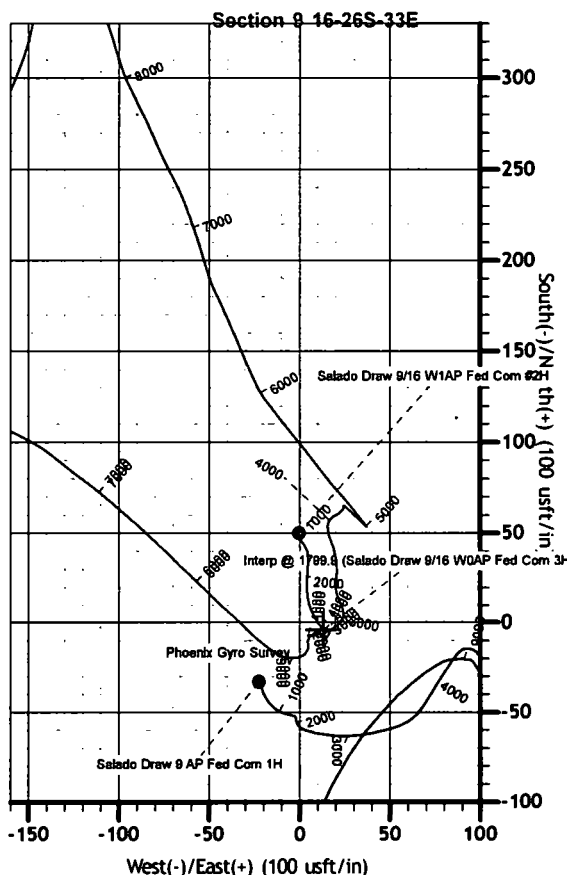
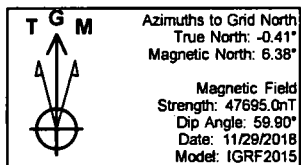
GEODETIC ZONE: New Mexico Eastern Zone  
3333 + 27 @ 3360.0usft (Patterson 231)  
GROUND ELEVATION: 3333.0

| +N/-S | +E/-W | Northing  | Easting   | Latitude        | Longitude        | Slot |
|-------|-------|-----------|-----------|-----------------|------------------|------|
| 0.0   | 0.0   | 387936.57 | 777987.06 | 32° 3' 51.174 N | 103° 34' 9.823 W |      |

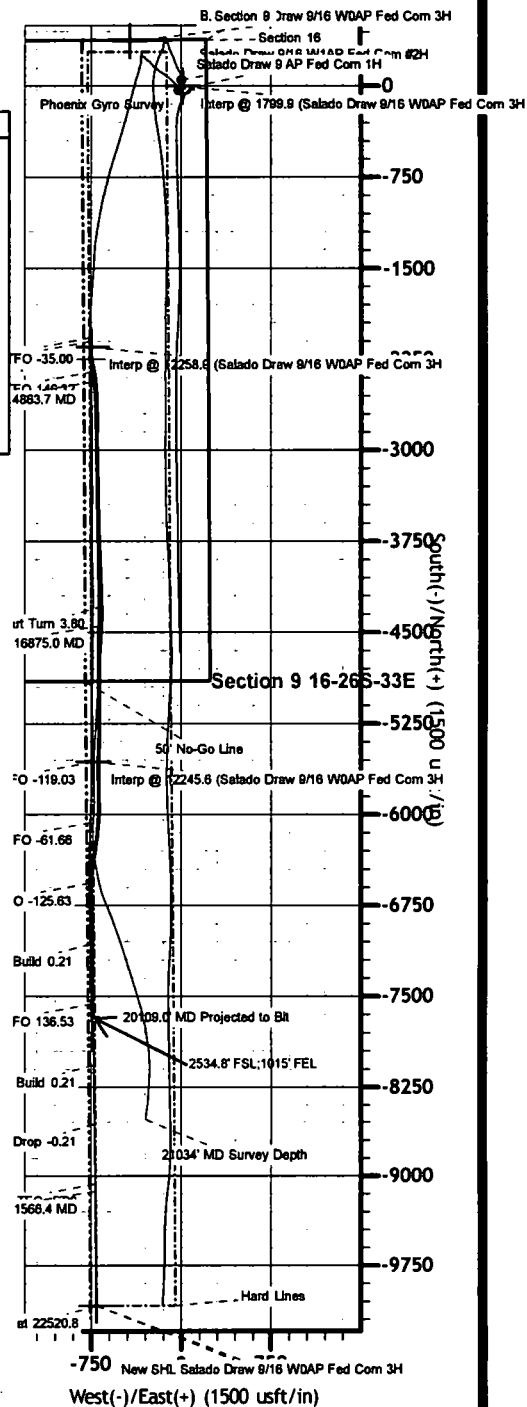
PLAN SECTIONS

| Sec | MD      | Inc   | Azi    | TVD     | +N/-S    | +E/-W  | Dleg | TFace   | VSecl   | Target                                   |
|-----|---------|-------|--------|---------|----------|--------|------|---------|---------|------------------------------------------|
| 1   | 14500.0 | 88.65 | 178.40 | 12257.8 | -2070.9  | -751.3 | 0.00 | 0.00    | 2118.3  |                                          |
| 2   | 14530.0 | 90.71 | 177.34 | 12257.7 | -2100.9  | -750.1 | 5.00 | -45.00  | 2148.2  |                                          |
| 3   | 14779.8 | 93.78 | 175.19 | 12247.9 | -2349.9  | -733.9 | 1.50 | -35.00  | 2395.5  |                                          |
| 4   | 14883.7 | 90.00 | 177.71 | 12245.1 | -2433.6  | -728.7 | 5.41 | 146.32  | 2478.6  |                                          |
| 5   | 16713.7 | 90.00 | 177.71 | 12245.1 | -4482.1  | -654.7 | 0.00 | 0.00    | 4317.4  |                                          |
| 6   | 16875.0 | 90.00 | 183.84 | 12245.1 | -4443.3  | -658.9 | 3.80 | 90.00   | 4478.4  |                                          |
| 7   | 18000.0 | 90.00 | 183.84 | 12245.1 | -5565.8  | -732.2 | 0.00 | 0.00    | 5603.3  |                                          |
| 8   | 18501.0 | 88.89 | 181.83 | 12250.0 | -6066.1  | -756.9 | 0.46 | -118.03 | 6104.2  |                                          |
| 9   | 19000.9 | 89.97 | 178.83 | 12255.0 | -6566.0  | -764.2 | 0.45 | -61.66  | 6603.3  |                                          |
| 10  | 19501.7 | 88.89 | 178.33 | 12260.0 | -7066.6  | -756.2 | 0.37 | -125.63 | 7102.1  |                                          |
| 11  | 19999.1 | 88.96 | 178.33 | 12265.0 | -7563.8  | -741.7 | 0.21 | 0.00    | 7597.1  |                                          |
| 12  | 20500.9 | 88.90 | 179.33 | 12270.0 | -8065.4  | -731.4 | 0.29 | 136.53  | 8096.8  |                                          |
| 13  | 21002.7 | 89.96 | 178.33 | 12275.0 | -8567.2  | -725.6 | 0.21 | 0.00    | 8597.0  |                                          |
| 14  | 21501.2 | 88.89 | 179.33 | 12280.0 | -9065.6  | -719.6 | 0.21 | 180.00  | 9093.7  |                                          |
| 15  | 21568.4 | 90.04 | 179.23 | 12280.6 | -9130.8  | -719.0 | 1.76 | -5.20   | 9158.7  |                                          |
| 16  | 22520.8 | 90.04 | 179.23 | 12280.0 | -10085.1 | -706.2 | 0.00 | 0.00    | 10109.8 | New SHL Salado Draw 9/16 W0AP Fed Com 3H |

SHL: FNL; FEL  
Section 9-26S-33E  
PBHL: 100' FSL; 330' FEL  
Section 16-26S-33E



Vertical Section at 184.01° (2000 usft/in)



Section 9 16-26S-33E  
West(-)/East(+) (1500 usft/in)