

30025 43929



COMPANY: Mewbourne Oil Company  
WELL: Toro 36 B3AP State 1H  
COUNTY: Lea County N. M. Nad (83)  
DATUM: North American Datum 1983  
RIG: Patterson Patterson 220

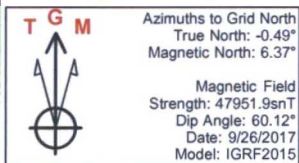


OFFICE: 936.582.7296

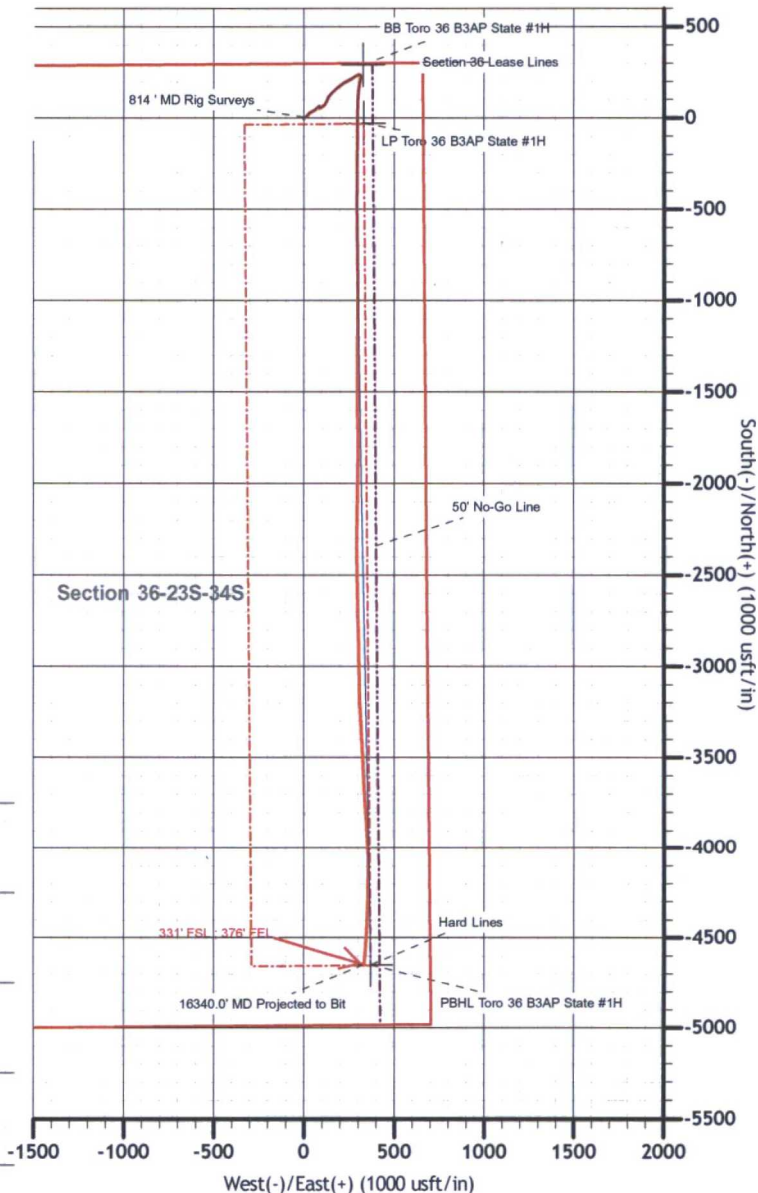
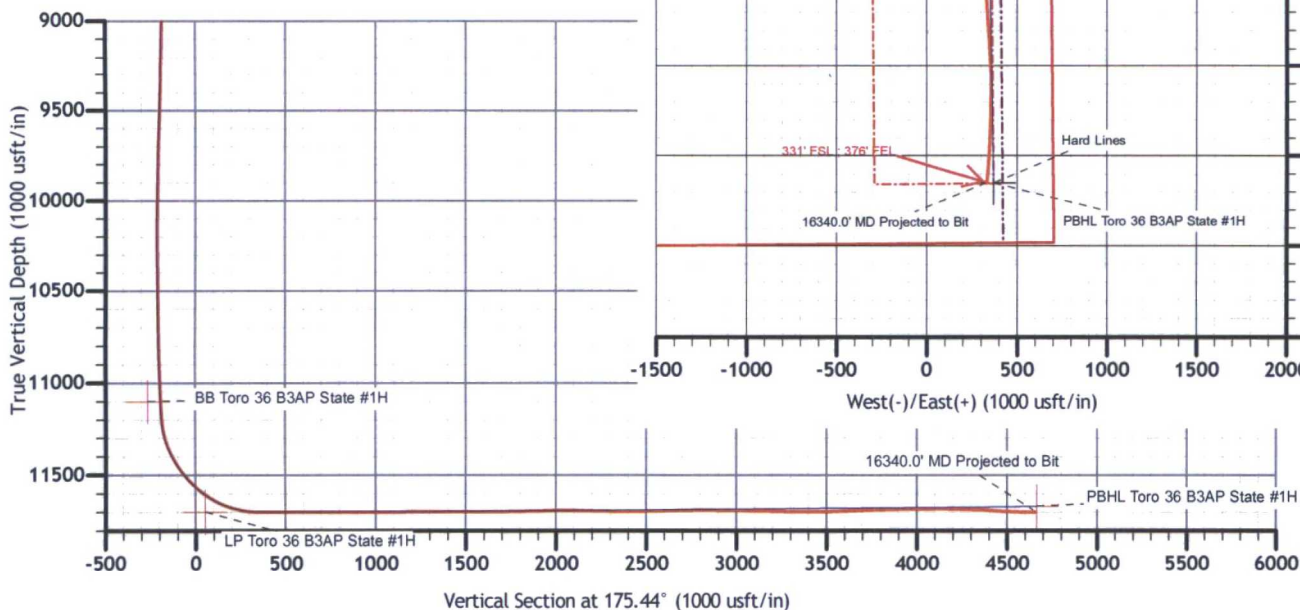
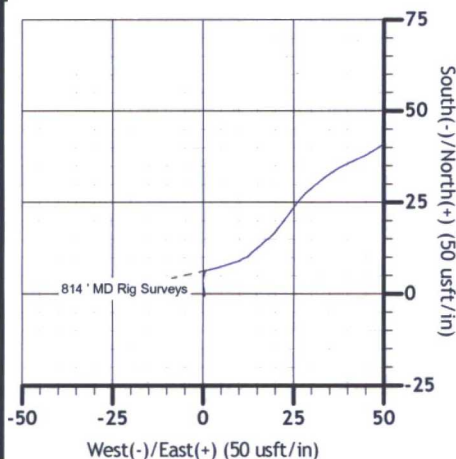
Grid Correction MWD: To convert a Magnetic Direction to a Grid Direction, Add 6.37°

HOBBS OGD  
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| GEODETIC ZONE: New Mexico Eastern Zone |         |           |           |                 |                  |       |      |        |        |                             |
|----------------------------------------|---------|-----------|-----------|-----------------|------------------|-------|------|--------|--------|-----------------------------|
| 3401 + 27 @ 3428.0usft (Patterson 220) |         |           |           |                 |                  |       |      |        |        |                             |
| GROUND ELEVATION: 3401.0               |         |           |           |                 |                  |       |      |        |        |                             |
| +N/-S                                  | +E/-W   | Northing  | Easting   | Latitude        | Longitude        | Slot  |      |        |        |                             |
| 0.0                                    | 0.0     | 462259.40 | 824464.40 | 32° 16' 3.015 N | 103° 25' 2.399 W |       |      |        |        |                             |
| PLAN SECTIONS                          |         |           |           |                 |                  |       |      |        |        |                             |
| Sec                                    | MD      | Inc       | Azi       | TVD             | +N/-S            | +E/-W | Dleg | TFace  | VSect  | Target                      |
| 1                                      | 12651.0 | 89.30     | 180.00    | 11698.5         | -961.8           | 299.0 | 0.00 | 0.00   | 982.6  |                             |
| 2                                      | 12732.7 | 90.49     | 178.88    | 11698.6         | -1043.6          | 299.8 | 2.00 | -43.45 | 1064.1 |                             |
| 3                                      | 16340.1 | 90.49     | 178.88    | 11668.0         | -4650.1          | 370.6 | 0.00 | 0.00   | 4664.8 | PBHL Toro 36 B3AP State #1H |



SHL 200' FNL; 660' FEL  
Section 36-23S-34E  
PBHL 330' FSL; 330' FEL  
Section 36-23S-34E





# **Mewbourne Oil Company**

Lea County N. M. Nad (83)

Section 36-23S-34S Toro 36 B3AP State 1H

Toro 36 B3AP State 1H

Original Hole

Design: Original Hole

## **Standard Survey Report**

03 November, 2017



|                  |                                          |                                     |                                        |
|------------------|------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                    | <b>Local Co-ordinate Reference:</b> | Well Toro 36 B3AP State 1H             |
| <b>Project:</b>  | Lea County N. M. Nad (83)                | <b>TVD Reference:</b>               | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Site:</b>     | Section 36-23S-34S Toro 36 B3AP State 1H | <b>MD Reference:</b>                | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Well:</b>     | Toro 36 B3AP State 1H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                            | <b>Database:</b>                    | Stryker_EDM                            |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <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 36-23S-34S Toro 36 B3AP State 1H |                 |                   |                  |
| Site Position:        |          | Northing:                                | 462,259.40 usft | Latitude:         | 32° 16' 3.015 N  |
| From:                 | Map      | Easting:                                 | 824,464.40 usft | Longitude:        | 103° 25' 2.399 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:                             | 13-3/16 "       | Grid Convergence: | 0.49 °           |

|                      |                       |          |                     |                 |               |                  |
|----------------------|-----------------------|----------|---------------------|-----------------|---------------|------------------|
| Well                 | Toro 36 B3AP State 1H |          |                     |                 |               |                  |
| Well Position        | +N/-S                 | 0.0 usft | Northing:           | 462,259.40 usft | Latitude:     | 32° 16' 3.015 N  |
|                      | +E/-W                 | 0.0 usft | Easting:            | 824,464.40 usft | Longitude:    | 103° 25' 2.399 W |
| Position Uncertainty |                       | 0.0 usft | Wellhead Elevation: | 27.0 usft       | Ground Level: | 3,401.0 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          | 9/26/2017          | 6.85                   | 60.12                | 47,951.86988557            |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <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                 | 49.71                |     |

|                       |                       |                             |                  |                             |
|-----------------------|-----------------------|-----------------------------|------------------|-----------------------------|
| <b>Survey Program</b> | <b>Date</b> 11/3/2017 |                             |                  |                             |
| <b>From (usft)</b>    | <b>To (usft)</b>      | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b>          |
| 50.0                  | 814.0                 | Rig Surveys (Original Hole) | MWD              | MWD v3:standard declination |
| 929.0                 | 16,340.0              | 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> |  |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.0                            | 0.00                           | 0.00                          | 0.00                         |  |
| 50.0                         | 0.20                   | 100.00             | 50.0                         | 0.0                 | 0.1                 | 0.1                            | 0.40                           | 0.40                          | 0.00                         |  |
| 114.0                        | 0.30                   | 172.00             | 114.0                        | -0.2                | 0.2                 | 0.0                            | 0.48                           | 0.16                          | 112.50                       |  |
| 165.0                        | 0.30                   | 138.00             | 165.0                        | -0.4                | 0.3                 | 0.0                            | 0.34                           | 0.00                          | -66.67                       |  |
| 214.0                        | 0.30                   | 26.00              | 214.0                        | -0.4                | 0.5                 | 0.1                            | 1.02                           | 0.00                          | -228.57                      |  |
| 314.0                        | 0.90                   | 349.00             | 314.0                        | 0.6                 | 0.4                 | 0.7                            | 0.68                           | 0.60                          | -37.00                       |  |
| 414.0                        | 1.00                   | 348.00             | 414.0                        | 2.2                 | 0.1                 | 1.5                            | 0.10                           | 0.10                          | -1.00                        |  |
| 514.0                        | 1.00                   | 7.00               | 514.0                        | 3.9                 | 0.0                 | 2.6                            | 0.33                           | 0.00                          | 19.00                        |  |
| 614.0                        | 0.50                   | 18.00              | 614.0                        | 5.2                 | 0.3                 | 3.6                            | 0.52                           | -0.50                         | 11.00                        |  |
| 714.0                        | 0.40                   | 13.00              | 714.0                        | 6.0                 | 0.5                 | 4.2                            | 0.11                           | -0.10                         | -5.00                        |  |

|                  |                                          |                                     |                                        |
|------------------|------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                    | <b>Local Co-ordinate Reference:</b> | Well Toro 36 B3AP State 1H             |
| <b>Project:</b>  | Lea County N. M. Nad (83)                | <b>TVD Reference:</b>               | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Site:</b>     | Section 36-23S-34S Toro 36 B3AP State 1H | <b>MD Reference:</b>                | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Well:</b>     | Toro 36 B3AP State 1H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                            | <b>Database:</b>                    | Stryker_EDM                            |

**Survey**

| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 814.0                      | 0.20            | 54.00       | 814.0                 | 6.4          | 0.7          | 4.7                     | 0.28                    | -0.20                  | 41.00                 |
| <b>814' MD Rig Surveys</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 929.0                      | 0.80            | 78.20       | 928.9                 | 6.7          | 1.7          | 5.6                     | 0.54                    | 0.52                   | 21.04                 |
| 1,024.0                    | 1.10            | 76.60       | 1,023.9               | 7.0          | 3.2          | 7.0                     | 0.32                    | 0.32                   | -1.68                 |
| 1,119.0                    | 1.00            | 71.20       | 1,118.9               | 7.5          | 4.9          | 8.6                     | 0.15                    | -0.11                  | -5.68                 |
| 1,215.0                    | 1.10            | 73.30       | 1,214.9               | 8.1          | 6.5          | 10.2                    | 0.11                    | 0.10                   | 2.19                  |
| 1,309.0                    | 0.80            | 71.80       | 1,308.9               | 8.5          | 8.0          | 11.6                    | 0.32                    | -0.32                  | -1.60                 |
| 1,404.0                    | 0.80            | 77.10       | 1,403.9               | 8.9          | 9.3          | 12.8                    | 0.08                    | 0.00                   | 5.58                  |
| 1,498.0                    | 0.80            | 55.40       | 1,497.9               | 9.4          | 10.5         | 14.1                    | 0.32                    | 0.00                   | -23.09                |
| 1,592.0                    | 0.70            | 70.50       | 1,591.9               | 10.0         | 11.6         | 15.3                    | 0.23                    | -0.11                  | 16.06                 |
| 1,687.0                    | 1.00            | 47.20       | 1,686.9               | 10.7         | 12.7         | 16.6                    | 0.48                    | 0.32                   | -24.53                |
| 1,782.0                    | 1.10            | 48.60       | 1,781.8               | 11.9         | 14.0         | 18.4                    | 0.11                    | 0.11                   | 1.47                  |
| 1,876.0                    | 0.70            | 55.30       | 1,875.8               | 12.8         | 15.2         | 19.8                    | 0.44                    | -0.43                  | 7.13                  |
| 1,973.0                    | 1.00            | 43.80       | 1,972.8               | 13.8         | 16.2         | 21.3                    | 0.35                    | 0.31                   | -11.86                |
| 2,072.0                    | 1.10            | 54.90       | 2,071.8               | 14.9         | 17.6         | 23.1                    | 0.23                    | 0.10                   | 11.21                 |
| 2,166.0                    | 1.10            | 47.90       | 2,165.8               | 16.1         | 19.0         | 24.9                    | 0.14                    | 0.00                   | -7.45                 |
| 2,262.0                    | 1.00            | 34.50       | 2,261.8               | 17.4         | 20.2         | 26.6                    | 0.28                    | -0.10                  | -13.96                |
| 2,357.0                    | 1.30            | 40.20       | 2,356.7               | 18.9         | 21.3         | 28.5                    | 0.34                    | 0.32                   | 6.00                  |
| 2,451.0                    | 1.50            | 35.40       | 2,450.7               | 20.7         | 22.7         | 30.7                    | 0.25                    | 0.21                   | -5.11                 |
| 2,545.0                    | 1.50            | 37.60       | 2,544.7               | 22.7         | 24.2         | 33.1                    | 0.06                    | 0.00                   | 2.34                  |
| 2,639.0                    | 1.60            | 37.00       | 2,638.6               | 24.7         | 25.7         | 35.6                    | 0.11                    | 0.11                   | -0.64                 |
| 2,734.0                    | 1.80            | 43.70       | 2,733.6               | 26.8         | 27.6         | 38.4                    | 0.30                    | 0.21                   | 7.05                  |
| 2,829.0                    | 2.10            | 50.90       | 2,828.6               | 29.0         | 30.0         | 41.6                    | 0.41                    | 0.32                   | 7.58                  |
| 2,924.0                    | 1.80            | 50.90       | 2,923.5               | 31.0         | 32.5         | 44.8                    | 0.32                    | -0.32                  | 0.00                  |
| 3,018.0                    | 2.20            | 56.60       | 3,017.4               | 33.0         | 35.1         | 48.1                    | 0.47                    | 0.43                   | 6.06                  |
| 3,112.0                    | 1.50            | 60.60       | 3,111.4               | 34.6         | 37.7         | 51.1                    | 0.76                    | -0.74                  | 4.26                  |
| 3,207.0                    | 1.50            | 65.90       | 3,206.4               | 35.7         | 39.9         | 53.5                    | 0.15                    | 0.00                   | 5.58                  |
| 3,303.0                    | 2.20            | 66.00       | 3,302.3               | 36.9         | 42.7         | 56.5                    | 0.73                    | 0.73                   | 0.10                  |
| 3,398.0                    | 2.30            | 60.70       | 3,397.2               | 38.6         | 46.1         | 60.1                    | 0.24                    | 0.11                   | -5.58                 |
| 3,493.0                    | 2.40            | 56.70       | 3,492.2               | 40.6         | 49.4         | 64.0                    | 0.20                    | 0.11                   | -4.21                 |
| 3,588.0                    | 2.70            | 65.30       | 3,587.1               | 42.7         | 53.1         | 68.1                    | 0.51                    | 0.32                   | 9.05                  |
| 3,683.0                    | 3.50            | 60.70       | 3,681.9               | 45.0         | 57.6         | 73.1                    | 0.88                    | 0.84                   | -4.84                 |
| 3,777.0                    | 2.40            | 53.70       | 3,775.8               | 47.6         | 61.7         | 77.9                    | 1.23                    | -1.17                  | -7.45                 |
| 3,872.0                    | 2.20            | 41.60       | 3,870.7               | 50.1         | 64.6         | 81.7                    | 0.55                    | -0.21                  | -12.74                |
| 3,966.0                    | 1.30            | 39.70       | 3,964.7               | 52.3         | 66.4         | 84.5                    | 0.96                    | -0.96                  | -2.02                 |
| 4,060.0                    | 1.50            | 44.30       | 4,058.6               | 54.0         | 68.0         | 86.8                    | 0.24                    | 0.21                   | 4.89                  |
| 4,155.0                    | 1.90            | 49.10       | 4,153.6               | 55.9         | 70.0         | 89.6                    | 0.45                    | 0.42                   | 5.05                  |
| 4,249.0                    | 2.20            | 48.00       | 4,247.5               | 58.1         | 72.5         | 92.9                    | 0.32                    | 0.32                   | -1.17                 |
| 4,344.0                    | 2.80            | 45.80       | 4,342.5               | 61.0         | 75.6         | 97.1                    | 0.64                    | 0.63                   | -2.32                 |
| 4,438.0                    | 1.40            | 42.50       | 4,436.4               | 63.4         | 78.0         | 100.5                   | 1.49                    | -1.49                  | -3.51                 |
| 4,534.0                    | 0.90            | 68.50       | 4,532.4               | 64.6         | 79.5         | 102.4                   | 0.74                    | -0.52                  | 27.08                 |
| 4,628.0                    | 2.20            | 68.00       | 4,626.3               | 65.5         | 81.8         | 104.8                   | 1.38                    | 1.38                   | -0.53                 |
| 4,722.0                    | 2.30            | 83.80       | 4,720.3               | 66.4         | 85.4         | 108.1                   | 0.67                    | 0.11                   | 16.81                 |

|                  |                                          |                                     |                                        |
|------------------|------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                    | <b>Local Co-ordinate Reference:</b> | Well Toro 36 B3AP State 1H             |
| <b>Project:</b>  | Lea County N. M. Nad (83)                | <b>TVD Reference:</b>               | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Site:</b>     | Section 36-23S-34S Toro 36 B3AP State 1H | <b>MD Reference:</b>                | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Well:</b>     | Toro 36 B3AP State 1H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                            | <b>Database:</b>                    | Stryker_EDM                            |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,817.0               | 1.00            | 145.20      | 4,815.2               | 65.9         | 87.8         | 109.6                   | 2.13                    | -1.37                  | 64.63                 |
| 4,911.0               | 1.20            | 183.80      | 4,909.2               | 64.3         | 88.2         | 108.8                   | 0.80                    | 0.21                   | 41.06                 |
| 5,006.0               | 1.30            | 196.60      | 5,004.2               | 62.2         | 87.8         | 107.2                   | 0.31                    | 0.11                   | 13.47                 |
| 5,100.0               | 1.50            | 196.50      | 5,098.2               | 60.0         | 87.1         | 105.3                   | 0.21                    | 0.21                   | -0.11                 |
| 5,194.0               | 1.30            | 198.40      | 5,192.1               | 57.9         | 86.4         | 103.4                   | 0.22                    | -0.21                  | 2.02                  |
| 5,289.0               | 1.30            | 219.70      | 5,287.1               | 56.0         | 85.4         | 101.4                   | 0.51                    | 0.00                   | 22.42                 |
| 5,383.0               | 1.00            | 72.80       | 5,381.1               | 55.4         | 85.5         | 101.1                   | 2.35                    | -0.32                  | -156.28               |
| 5,478.0               | 3.00            | 57.80       | 5,476.0               | 57.0         | 88.4         | 104.3                   | 2.16                    | 2.11                   | -15.79                |
| 5,572.0               | 3.50            | 57.80       | 5,569.9               | 59.8         | 92.9         | 109.6                   | 0.53                    | 0.53                   | 0.00                  |
| 5,667.0               | 3.30            | 58.30       | 5,664.7               | 62.8         | 97.7         | 115.1                   | 0.21                    | -0.21                  | 0.53                  |
| 5,762.0               | 3.20            | 56.80       | 5,759.6               | 65.7         | 102.3        | 120.5                   | 0.14                    | -0.11                  | -1.58                 |
| 5,857.0               | 3.00            | 56.50       | 5,854.4               | 68.5         | 106.5        | 125.6                   | 0.21                    | -0.21                  | -0.32                 |
| 5,951.0               | 2.90            | 52.50       | 5,948.3               | 71.3         | 110.5        | 130.4                   | 0.24                    | -0.11                  | -4.26                 |
| 6,046.0               | 2.40            | 47.10       | 6,043.2               | 74.1         | 113.8        | 134.8                   | 0.59                    | -0.53                  | -5.68                 |
| 6,140.0               | 3.80            | 31.70       | 6,137.1               | 78.1         | 116.9        | 139.7                   | 1.72                    | 1.49                   | -16.38                |
| 6,235.0               | 4.10            | 27.30       | 6,231.8               | 83.8         | 120.1        | 145.9                   | 0.45                    | 0.32                   | -4.63                 |
| 6,329.0               | 3.90            | 29.10       | 6,325.6               | 89.6         | 123.2        | 151.9                   | 0.25                    | -0.21                  | 1.91                  |
| 6,424.0               | 4.00            | 25.80       | 6,420.4               | 95.4         | 126.2        | 158.0                   | 0.26                    | 0.11                   | -3.47                 |
| 6,518.0               | 3.80            | 23.80       | 6,514.2               | 101.2        | 128.9        | 163.8                   | 0.26                    | -0.21                  | -2.13                 |
| 6,612.0               | 3.80            | 19.90       | 6,608.0               | 107.0        | 131.2        | 169.3                   | 0.27                    | 0.00                   | -4.15                 |
| 6,706.0               | 4.00            | 16.00       | 6,701.7               | 113.1        | 133.2        | 174.7                   | 0.35                    | 0.21                   | -4.15                 |
| 6,801.0               | 3.30            | 40.80       | 6,796.6               | 118.3        | 135.9        | 180.2                   | 1.80                    | -0.74                  | 26.11                 |
| 6,896.0               | 3.20            | 41.00       | 6,891.4               | 122.4        | 139.4        | 185.5                   | 0.11                    | -0.11                  | 0.21                  |
| 6,990.0               | 3.00            | 39.70       | 6,985.3               | 126.3        | 142.7        | 190.5                   | 0.23                    | -0.21                  | -1.38                 |
| 7,084.0               | 3.00            | 39.10       | 7,079.1               | 130.1        | 145.9        | 195.4                   | 0.03                    | 0.00                   | -0.64                 |
| 7,178.0               | 3.10            | 42.50       | 7,173.0               | 133.9        | 149.1        | 200.3                   | 0.22                    | 0.11                   | 3.62                  |
| 7,272.0               | 2.90            | 39.40       | 7,266.9               | 137.6        | 152.3        | 205.2                   | 0.27                    | -0.21                  | -3.30                 |
| 7,367.0               | 2.90            | 41.40       | 7,361.7               | 141.2        | 155.5        | 209.9                   | 0.11                    | 0.00                   | 2.11                  |
| 7,462.0               | 2.90            | 41.10       | 7,456.6               | 144.9        | 158.6        | 214.7                   | 0.02                    | 0.00                   | -0.32                 |
| 7,556.0               | 1.90            | 45.00       | 7,550.5               | 147.7        | 161.3        | 218.6                   | 1.08                    | -1.06                  | 4.15                  |
| 7,651.0               | 2.80            | 49.10       | 7,645.5               | 150.4        | 164.2        | 222.5                   | 0.96                    | 0.95                   | 4.32                  |
| 7,745.0               | 4.10            | 47.90       | 7,739.3               | 154.1        | 168.4        | 228.1                   | 1.39                    | 1.38                   | -1.28                 |
| 7,839.0               | 3.70            | 48.80       | 7,833.1               | 158.4        | 173.2        | 234.5                   | 0.43                    | -0.43                  | 0.96                  |
| 7,934.0               | 4.60            | 48.00       | 7,927.8               | 163.0        | 178.3        | 241.4                   | 0.95                    | 0.95                   | -0.84                 |
| 8,028.0               | 4.40            | 50.80       | 8,021.5               | 167.8        | 183.9        | 248.8                   | 0.32                    | -0.21                  | 2.98                  |
| 8,123.0               | 4.00            | 51.60       | 8,116.3               | 172.1        | 189.3        | 255.7                   | 0.43                    | -0.42                  | 0.84                  |
| 8,217.0               | 3.60            | 54.50       | 8,210.1               | 175.9        | 194.3        | 261.9                   | 0.47                    | -0.43                  | 3.09                  |
| 8,312.0               | 3.60            | 57.30       | 8,304.9               | 179.2        | 199.2        | 267.9                   | 0.19                    | 0.00                   | 2.95                  |
| 8,407.0               | 3.30            | 56.60       | 8,399.7               | 182.3        | 204.0        | 273.5                   | 0.32                    | -0.32                  | -0.74                 |
| 8,501.0               | 4.60            | 50.00       | 8,493.5               | 186.2        | 209.2        | 280.0                   | 1.46                    | 1.38                   | -7.02                 |
| 8,595.0               | 4.30            | 51.60       | 8,587.2               | 190.8        | 214.8        | 287.3                   | 0.35                    | -0.32                  | 1.70                  |
| 8,689.0               | 3.80            | 54.00       | 8,681.0               | 194.9        | 220.1        | 293.9                   | 0.56                    | -0.53                  | 2.55                  |
| 8,784.0               | 4.10            | 57.30       | 8,775.7               | 198.6        | 225.5        | 300.4                   | 0.40                    | 0.32                   | 3.47                  |

|                  |                                          |                                     |                                        |
|------------------|------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                    | <b>Local Co-ordinate Reference:</b> | Well Toro 36 B3AP State 1H             |
| <b>Project:</b>  | Lea County N. M. Nad (83)                | <b>TVD Reference:</b>               | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Site:</b>     | Section 36-23S-34S Toro 36 B3AP State 1H | <b>MD Reference:</b>                | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Well:</b>     | Toro 36 B3AP State 1H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                            | <b>Database:</b>                    | Stryker_EDM                            |

| Survey                           |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,878.0                          | 3.40            | 66.80       | 8,869.5               | 201.5        | 230.9        | 306.4                   | 0.99                    | -0.74                  | 10.11                 |
| 8,973.0                          | 4.10            | 62.20       | 8,964.3               | 204.2        | 236.5        | 312.4                   | 0.80                    | 0.74                   | -4.84                 |
| 9,067.0                          | 3.50            | 60.60       | 9,058.1               | 207.1        | 242.0        | 318.5                   | 0.65                    | -0.64                  | -1.70                 |
| 9,162.0                          | 4.20            | 65.60       | 9,152.9               | 210.0        | 247.7        | 324.7                   | 0.82                    | 0.74                   | 5.26                  |
| 9,257.0                          | 3.70            | 61.70       | 9,247.7               | 212.9        | 253.5        | 331.0                   | 0.60                    | -0.53                  | -4.11                 |
| 9,351.0                          | 3.80            | 60.20       | 9,341.5               | 215.9        | 258.9        | 337.1                   | 0.15                    | 0.11                   | -1.60                 |
| 9,445.0                          | 4.60            | 60.30       | 9,435.2               | 219.3        | 264.9        | 343.8                   | 0.85                    | 0.85                   | 0.11                  |
| 9,534.0                          | 4.50            | 60.20       | 9,524.0               | 222.8        | 271.0        | 350.8                   | 0.11                    | -0.11                  | -0.11                 |
| 9,634.0                          | 5.00            | 58.40       | 9,623.6               | 227.0        | 278.1        | 359.0                   | 0.52                    | 0.50                   | -1.80                 |
| 9,728.0                          | 4.10            | 56.50       | 9,717.3               | 231.0        | 284.4        | 366.3                   | 0.97                    | -0.96                  | -2.02                 |
| 9,822.0                          | 3.10            | 63.60       | 9,811.1               | 234.0        | 289.5        | 372.1                   | 1.16                    | -1.06                  | 7.55                  |
| 9,917.0                          | 2.50            | 73.10       | 9,906.0               | 235.8        | 293.8        | 376.5                   | 0.80                    | -0.63                  | 10.00                 |
| 10,011.0                         | 3.20            | 66.80       | 9,999.9               | 237.4        | 298.1        | 380.9                   | 0.81                    | 0.74                   | -6.70                 |
| 10,105.0                         | 2.70            | 73.50       | 10,093.8              | 239.0        | 302.7        | 385.5                   | 0.65                    | -0.53                  | 7.13                  |
| 10,199.0                         | 1.90            | 92.20       | 10,187.7              | 239.6        | 306.4        | 388.6                   | 1.16                    | -0.85                  | 19.89                 |
| 10,294.0                         | 1.80            | 111.50      | 10,282.6              | 239.0        | 309.3        | 390.5                   | 0.66                    | -0.11                  | 20.32                 |
| 10,388.0                         | 1.40            | 149.50      | 10,376.6              | 237.5        | 311.3        | 391.0                   | 1.18                    | -0.43                  | 40.43                 |
| 10,482.0                         | 1.40            | 169.80      | 10,470.6              | 235.4        | 312.1        | 390.2                   | 0.52                    | 0.00                   | 21.60                 |
| 10,577.0                         | 1.00            | 157.50      | 10,565.6              | 233.5        | 312.6        | 389.4                   | 0.50                    | -0.42                  | -12.95                |
| 10,671.0                         | 1.40            | 156.70      | 10,659.5              | 231.6        | 313.4        | 388.8                   | 0.43                    | 0.43                   | -0.85                 |
| 10,766.0                         | 1.90            | 135.30      | 10,754.5              | 229.5        | 314.9        | 388.6                   | 0.83                    | 0.53                   | -22.53                |
| 10,861.0                         | 1.40            | 209.80      | 10,849.5              | 227.3        | 315.5        | 387.6                   | 2.14                    | -0.53                  | 78.42                 |
| 10,956.0                         | 2.10            | 199.80      | 10,944.4              | 224.7        | 314.3        | 385.0                   | 0.80                    | 0.74                   | -10.53                |
| 11,050.0                         | 2.40            | 195.10      | 11,038.4              | 221.2        | 313.2        | 381.9                   | 0.37                    | 0.32                   | -5.00                 |
| 11,108.6                         | 2.34            | 196.71      | 11,096.9              | 218.8        | 312.5        | 379.9                   | 0.16                    | -0.11                  | 2.75                  |
| <b>BB Toro 36 B3AP State #1H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,143.0                         | 2.30            | 197.70      | 11,131.3              | 217.5        | 312.1        | 378.7                   | 0.16                    | -0.11                  | 2.87                  |
| 11,201.0                         | 4.20            | 195.00      | 11,189.2              | 214.3        | 311.2        | 376.0                   | 3.29                    | 3.28                   | -4.66                 |
| 11,233.0                         | 7.60            | 190.10      | 11,221.0              | 211.1        | 310.5        | 373.4                   | 10.73                   | 10.63                  | -15.31                |
| 11,264.0                         | 10.90           | 190.10      | 11,251.6              | 206.2        | 309.7        | 369.6                   | 10.65                   | 10.65                  | 0.00                  |
| 11,296.0                         | 14.10           | 191.30      | 11,282.8              | 199.4        | 308.4        | 364.2                   | 10.03                   | 10.00                  | 3.75                  |
| 11,327.0                         | 17.50           | 189.40      | 11,312.7              | 191.1        | 306.9        | 357.7                   | 11.09                   | 10.97                  | -6.13                 |
| 11,359.0                         | 21.30           | 189.40      | 11,342.8              | 180.6        | 305.1        | 349.6                   | 11.88                   | 11.88                  | 0.00                  |
| 11,390.0                         | 24.20           | 189.40      | 11,371.4              | 168.8        | 303.2        | 340.4                   | 9.35                    | 9.35                   | 0.00                  |
| 11,422.0                         | 28.40           | 187.90      | 11,400.1              | 154.8        | 301.1        | 329.7                   | 13.29                   | 13.13                  | -4.69                 |
| 11,453.0                         | 32.30           | 183.90      | 11,426.9              | 139.2        | 299.5        | 318.5                   | 14.16                   | 12.58                  | -12.90                |
| 11,485.0                         | 35.20           | 181.80      | 11,453.5              | 121.5        | 298.6        | 306.3                   | 9.77                    | 9.06                   | -6.56                 |
| 11,516.0                         | 38.60           | 181.00      | 11,478.3              | 102.9        | 298.2        | 293.9                   | 11.08                   | 10.97                  | -2.58                 |
| 11,548.0                         | 41.10           | 181.20      | 11,502.8              | 82.4         | 297.8        | 280.4                   | 7.82                    | 7.81                   | 0.63                  |
| 11,579.0                         | 44.10           | 181.10      | 11,525.6              | 61.4         | 297.3        | 266.5                   | 9.68                    | 9.68                   | -0.32                 |
| 11,611.0                         | 47.10           | 181.20      | 11,548.0              | 38.5         | 296.9        | 251.4                   | 9.38                    | 9.38                   | 0.31                  |
| 11,642.0                         | 49.80           | 181.30      | 11,568.6              | 15.3         | 296.4        | 236.0                   | 8.71                    | 8.71                   | 0.32                  |
| 11,674.0                         | 52.00           | 180.80      | 11,588.8              | -9.5         | 295.9        | 219.6                   | 6.98                    | 6.88                   | -1.56                 |
| 11,705.0                         | 55.10           | 179.70      | 11,607.2              | -34.4        | 295.8        | 203.4                   | 10.40                   | 10.00                  | -3.55                 |

|                  |                                          |                                     |                                        |
|------------------|------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                    | <b>Local Co-ordinate Reference:</b> | Well Toro 36 B3AP State 1H             |
| <b>Project:</b>  | Lea County N. M. Nad (83)                | <b>TVD Reference:</b>               | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Site:</b>     | Section 36-23S-34S Toro 36 B3AP State 1H | <b>MD Reference:</b>                | 3401 + 27 @ 3428.0usft (Patterson 220) |
| <b>Well:</b>     | Toro 36 B3AP State 1H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                            | <b>Database:</b>                    | Stryker_EDM                            |

Survey

| Measured Depth (usft)     | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,737.0                  | 58.70           | 179.70      | 11,624.6              | -61.2        | 296.0        | 186.2                   | 11.25                   | 11.25                  | 0.00                  |
| 11,743.9                  | 59.45           | 179.79      | 11,628.2              | -67.1        | 296.0        | 182.4                   | 11.02                   | 10.97                  | 1.32                  |
| LP Toro 36 B3AP State #1H |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,768.0                  | 62.10           | 180.10      | 11,640.0              | -88.2        | 296.0        | 168.8                   | 11.02                   | 10.97                  | 1.28                  |
| 11,799.0                  | 66.90           | 180.60      | 11,653.3              | -116.1       | 295.8        | 150.6                   | 15.55                   | 15.48                  | 1.61                  |
| 11,831.0                  | 70.20           | 181.00      | 11,665.0              | -145.9       | 295.4        | 131.0                   | 10.38                   | 10.31                  | 1.25                  |
| 11,862.0                  | 73.60           | 181.40      | 11,674.6              | -175.4       | 294.8        | 111.5                   | 11.04                   | 10.97                  | 1.29                  |
| 11,894.0                  | 76.80           | 181.10      | 11,682.8              | -206.3       | 294.1        | 90.9                    | 10.04                   | 10.00                  | -0.94                 |
| 11,925.0                  | 78.90           | 181.10      | 11,689.3              | -236.6       | 293.5        | 70.9                    | 6.77                    | 6.77                   | 0.00                  |
| 11,957.0                  | 81.60           | 180.50      | 11,694.7              | -268.1       | 293.1        | 50.2                    | 8.64                    | 8.44                   | -1.88                 |
| 11,988.0                  | 86.40           | 179.70      | 11,698.0              | -299.0       | 293.0        | 30.2                    | 15.70                   | 15.48                  | -2.58                 |
| 12,004.0                  | 87.90           | 179.40      | 11,698.8              | -314.9       | 293.2        | 20.0                    | 9.56                    | 9.38                   | -1.88                 |
| 12,085.0                  | 92.40           | 180.00      | 11,698.6              | -395.9       | 293.6        | -32.1                   | 5.60                    | 5.56                   | 0.74                  |
| 12,179.0                  | 89.90           | 179.70      | 11,696.7              | -489.9       | 293.8        | -92.6                   | 2.68                    | -2.66                  | -0.32                 |
| 12,274.0                  | 89.20           | 180.00      | 11,697.4              | -584.9       | 294.1        | -153.9                  | 0.80                    | -0.74                  | 0.32                  |
| 12,368.0                  | 90.10           | 178.90      | 11,698.0              | -678.9       | 295.0        | -214.0                  | 1.51                    | 0.96                   | -1.17                 |
| 12,463.0                  | 89.90           | 178.80      | 11,698.0              | -773.9       | 296.9        | -273.9                  | 0.24                    | -0.21                  | -0.11                 |
| 12,557.0                  | 90.10           | 179.30      | 11,698.0              | -867.8       | 298.5        | -333.5                  | 0.57                    | 0.21                   | 0.53                  |
| 12,651.0                  | 89.30           | 180.00      | 11,698.5              | -961.8       | 299.0        | -393.9                  | 1.13                    | -0.85                  | 0.74                  |
| 12,746.0                  | 91.00           | 180.80      | 11,698.2              | -1,056.8     | 298.4        | -455.8                  | 1.98                    | 1.79                   | 0.84                  |
| 12,840.0                  | 90.50           | 180.80      | 11,697.0              | -1,150.8     | 297.1        | -517.6                  | 0.53                    | -0.53                  | 0.00                  |
| 12,935.0                  | 89.50           | 180.50      | 11,697.0              | -1,245.8     | 296.0        | -579.8                  | 1.10                    | -1.05                  | -0.32                 |
| 13,029.0                  | 91.30           | 180.00      | 11,696.4              | -1,339.8     | 295.6        | -640.9                  | 1.99                    | 1.91                   | -0.53                 |
| 13,124.0                  | 90.20           | 179.60      | 11,695.1              | -1,434.8     | 295.9        | -702.1                  | 1.23                    | -1.16                  | -0.42                 |
| 13,219.0                  | 88.70           | 179.70      | 11,696.0              | -1,529.8     | 296.5        | -763.1                  | 1.58                    | -1.58                  | 0.11                  |
| 13,313.0                  | 90.50           | 178.80      | 11,696.7              | -1,623.8     | 297.7        | -822.9                  | 2.14                    | 1.91                   | -0.96                 |
| 13,407.0                  | 91.70           | 179.30      | 11,694.9              | -1,717.7     | 299.3        | -882.5                  | 1.38                    | 1.28                   | 0.53                  |
| 13,502.0                  | 91.40           | 179.50      | 11,692.3              | -1,812.7     | 300.3        | -943.1                  | 0.38                    | -0.32                  | 0.21                  |
| 13,597.0                  | 91.10           | 180.70      | 11,690.2              | -1,907.7     | 300.1        | -1,004.7                | 1.30                    | -0.32                  | 1.26                  |
| 13,691.0                  | 90.80           | 181.90      | 11,688.7              | -2,001.6     | 298.0        | -1,067.0                | 1.32                    | -0.32                  | 1.28                  |
| 13,786.0                  | 88.20           | 181.70      | 11,689.5              | -2,096.6     | 295.0        | -1,130.7                | 2.74                    | -2.74                  | -0.21                 |
| 13,880.0                  | 89.40           | 180.60      | 11,691.5              | -2,190.5     | 293.1        | -1,192.9                | 1.73                    | 1.28                   | -1.17                 |
| 13,975.0                  | 88.40           | 180.80      | 11,693.3              | -2,285.5     | 291.9        | -1,255.2                | 1.07                    | -1.05                  | 0.21                  |
| 14,069.0                  | 90.70           | 178.50      | 11,694.0              | -2,379.5     | 292.5        | -1,315.5                | 3.46                    | 2.45                   | -2.45                 |
| 14,164.0                  | 90.10           | 178.90      | 11,693.4              | -2,474.5     | 294.7        | -1,375.3                | 0.76                    | -0.63                  | 0.42                  |
| 14,258.0                  | 92.10           | 178.60      | 11,691.6              | -2,568.4     | 296.7        | -1,434.5                | 2.15                    | 2.13                   | -0.32                 |
| 14,353.0                  | 91.20           | 179.10      | 11,688.8              | -2,663.4     | 298.6        | -1,494.4                | 1.08                    | -0.95                  | 0.53                  |
| 14,447.0                  | 90.20           | 178.70      | 11,687.7              | -2,757.3     | 300.4        | -1,553.8                | 1.15                    | -1.06                  | -0.43                 |
| 14,542.0                  | 89.50           | 178.50      | 11,687.9              | -2,852.3     | 302.7        | -1,613.5                | 0.77                    | -0.74                  | -0.21                 |
| 14,636.0                  | 89.40           | 179.20      | 11,688.8              | -2,946.3     | 304.6        | -1,672.8                | 0.75                    | -0.11                  | 0.74                  |
| 14,730.0                  | 88.50           | 179.10      | 11,690.6              | -3,040.2     | 306.0        | -1,732.5                | 0.96                    | -0.96                  | -0.11                 |
| 14,825.0                  | 91.10           | 178.60      | 11,690.9              | -3,135.2     | 307.9        | -1,792.5                | 2.79                    | 2.74                   | -0.53                 |
| 14,920.0                  | 85.40           | 176.10      | 11,693.8              | -3,230.0     | 312.3        | -1,850.4                | 6.55                    | -6.00                  | -2.63                 |

|           |                                          |                              |                                        |
|-----------|------------------------------------------|------------------------------|----------------------------------------|
| Company:  | Mewbourne Oil Company                    | Local Co-ordinate Reference: | Well Toro 36 B3AP State 1H             |
| Project:  | Lea County N. M. Nad (83)                | TVD Reference:               | 3401 + 27 @ 3428.0usft (Patterson 220) |
| Site:     | Section 36-23S-34S Toro 36 B3AP State 1H | MD Reference:                | 3401 + 27 @ 3428.0usft (Patterson 220) |
| Well:     | Toro 36 B3AP State 1H                    | North Reference:             | Grid                                   |
| Wellbore: | Original Hole                            | Survey Calculation Method:   | Minimum Curvature                      |
| Design:   | Original Hole                            | Database:                    | Stryker_EDM                            |

| Survey                              |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)               | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 15,015.0                            | 89.70           | 178.00      | 11,697.9              | -3,324.8     | 317.2        | -1,908.0                | 4.95                    | 4.53                   | 2.00                  |
| 15,109.0                            | 90.70           | 176.00      | 11,697.5              | -3,418.6     | 322.1        | -1,964.9                | 2.38                    | 1.06                   | -2.13                 |
| 15,203.0                            | 92.50           | 177.30      | 11,694.9              | -3,512.4     | 327.6        | -2,021.4                | 2.36                    | 1.91                   | 1.38                  |
| 15,298.0                            | 92.80           | 178.10      | 11,690.5              | -3,607.3     | 331.4        | -2,079.8                | 0.90                    | 0.32                   | 0.84                  |
| 15,392.0                            | 90.70           | 175.80      | 11,687.6              | -3,701.1     | 336.4        | -2,136.7                | 3.31                    | -2.23                  | -2.45                 |
| 15,486.0                            | 92.90           | 176.00      | 11,684.7              | -3,794.8     | 343.1        | -2,192.1                | 2.35                    | 2.34                   | 0.21                  |
| 15,580.0                            | 91.90           | 177.10      | 11,680.7              | -3,888.5     | 348.8        | -2,248.4                | 1.58                    | -1.06                  | 1.17                  |
| 15,675.0                            | 89.20           | 176.70      | 11,679.8              | -3,983.4     | 353.9        | -2,305.9                | 2.87                    | -2.84                  | -0.42                 |
| 15,768.0                            | 90.80           | 180.00      | 11,679.8              | -4,076.3     | 356.6        | -2,363.9                | 3.94                    | 1.72                   | 3.55                  |
| 15,863.0                            | 88.30           | 180.30      | 11,680.6              | -4,171.3     | 356.4        | -2,425.5                | 2.65                    | -2.63                  | 0.32                  |
| 15,957.0                            | 89.60           | 181.80      | 11,682.3              | -4,265.3     | 354.6        | -2,487.6                | 2.11                    | 1.38                   | 1.60                  |
| 16,052.0                            | 86.20           | 181.70      | 11,685.8              | -4,360.2     | 351.7        | -2,551.2                | 3.58                    | -3.58                  | -0.11                 |
| 16,146.0                            | 85.30           | 183.10      | 11,692.8              | -4,453.8     | 347.8        | -2,614.7                | 1.77                    | -0.96                  | 1.49                  |
| 16,241.0                            | 89.90           | 185.10      | 11,696.7              | -4,548.5     | 341.0        | -2,681.1                | 5.28                    | 4.84                   | 2.11                  |
| 16,290.0                            | 89.00           | 185.00      | 11,697.2              | -4,597.3     | 336.7        | -2,715.9                | 1.85                    | -1.84                  | -0.20                 |
| 16,339.2                            | 89.00           | 185.00      | 11,698.1              | -4,646.2     | 332.4        | -2,750.9                | 0.00                    | 0.00                   | 0.00                  |
| <b>PBHL Toro 36 B3AP State #1H</b>  |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,340.0                            | 89.00           | 185.00      | 11,698.1              | -4,647.1     | 332.4        | -2,751.5                | 0.00                    | 0.00                   | 0.00                  |
| <b>16340.0' MD Projected to Bit</b> |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Annotations    |                       |                   |              |                              |
|-----------------------|-----------------------|-------------------|--------------|------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                      |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                              |
| 814.0                 | 814.0                 | 6.4               | 0.7          | 814' MD Rig Surveys          |
| 16,340.0              | 11,698.1              | -4,647.1          | 332.4        | 16340.0' MD Projected to Bit |



November 28, 2017

New Mexico Energy, Minerals and Natural Resources Department  
Attn: Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company  
Toro 36 B3AP State #001H  
Antelope Ridge; Bone Spring  
Lea County, New Mexico  
API# 30-025-43929

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

| <u>Name &amp; Title</u> | <u>Drainhole No.</u> | <u>Survey Depths</u> | <u>Dates Performed</u> | <u>Type Survey</u> |
|-------------------------|----------------------|----------------------|------------------------|--------------------|
| Martin Pina             | Original Hole        | 929ft. to 16,290ft.  | 10-09-17 to 11-02-17   | MWD Survey         |

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

  
Todd Estes

Enclosures

CC:

Mewbourne Oil Company  
Attn: Frosty Lathan  
P.O. Box 5720  
Hobbs, NM 88241

Mewbourne Oil Company  
Attn: Robin Terrell  
P.O. Box 5720  
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Toro 36 B3AP State #1H\M171099

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**  
P.O. Box 1250  
Montgomery, TX 77356  
Office (936) 582-7296 \* Fax (936)-588-4163



November 28, 2017

**Survey Certification Report**

**STATE OF            TEXAS**

**COUNTY OF        Montgomery**

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of October 09, 2017, through November 02, 2017 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 929 feet to a depth of 16,290 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Toro 36 B3AP State #001H well, API # **30-025-43929** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in blue ink that reads "Todd Estes". The signature is written in a cursive, flowing style.

**Todd Estes**

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**  
**P.O. Box 1250**  
**Montgomery, TX 77356**  
**Office (936) 582-7296 \* Fax (936)-588-4163**



Microsoft  
MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

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

**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** New Mexico Eastern Zone

**System Datum:** Mean Sea Level

**Site** Section 36-23S-34S Toro 36 B3AP State 1H

|                              |          |                     |                 |                          |                  |
|------------------------------|----------|---------------------|-----------------|--------------------------|------------------|
| <b>Site Position:</b>        |          | <b>Northing:</b>    | 462,259.40 usft | <b>Latitude:</b>         | 32° 16' 3.015 N  |
| <b>From:</b>                 | Map      | <b>Easting:</b>     | 824,464.40 usft | <b>Longitude:</b>        | 103° 25' 2.399 W |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.49 °           |

**Well** Toro 36 B3AP State 1H

|                             |              |          |                            |                 |                      |                  |
|-----------------------------|--------------|----------|----------------------------|-----------------|----------------------|------------------|
| <b>Well Position</b>        | <b>+N/-S</b> | 0.0 usft | <b>Northing:</b>           | 462,259.40 usft | <b>Latitude:</b>     | 32° 16' 3.015 N  |
|                             | <b>+E/-W</b> | 0.0 usft | <b>Easting:</b>            | 824,464.40 usft | <b>Longitude:</b>    | 103° 25' 2.399 W |
| <b>Position Uncertainty</b> |              | 0.0 usft | <b>Wellhead Elevation:</b> | 27.0 usft       | <b>Ground Level:</b> | 3,401.0 usft     |

**Wellbore** Original Hole

| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
|                  | IGRF2015          | 9/26/2017          | 6.85                       | 60.12                    | 47,951.86988558                |

**Design** Original Hole

**Audit Notes:**

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

|                          |                                    |                         |                         |                          |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |
|                          | 0.0                                | 0.0                     | 0.0                     | 49.71                    |



# Microsoft MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey Program** Date 11/3/2017

| From<br>(usft) | To<br>(usft) | Survey (Wellbore)           | Tool Name | Description                 |
|----------------|--------------|-----------------------------|-----------|-----------------------------|
| 50.0           | 814.0        | Rig Surveys (Original Hole) | MWD       | MWD v3:standard declination |
| 929.0          | 16,340.0     | MWD Survey (Original Hole)  | MWD       | MWD v3:standard declination |

## Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |        |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|--------|
| 814.0        | 0.20       | 54.00                | 814.0         | 6.4           | 0.7           | 6.5                        | 6.24                   | Tie-In |
| 929.0        | 0.80       | 78.20                | 928.9         | 6.7           | 1.7           | 6.9                        | 13.84                  |        |
| 1,024.0      | 1.10       | 76.60                | 1,023.9       | 7.0           | 3.2           | 7.7                        | 24.33                  |        |
| 1,119.0      | 1.00       | 71.20                | 1,118.9       | 7.5           | 4.9           | 9.0                        | 32.85                  |        |
| 1,215.0      | 1.10       | 73.30                | 1,214.9       | 8.1           | 6.5           | 10.4                       | 39.03                  |        |
| 1,309.0      | 0.80       | 71.80                | 1,308.9       | 8.5           | 8.0           | 11.7                       | 43.26                  |        |
| 1,404.0      | 0.80       | 77.10                | 1,403.9       | 8.9           | 9.3           | 12.9                       | 46.32                  |        |
| 1,498.0      | 0.80       | 55.40                | 1,497.9       | 9.4           | 10.5          | 14.1                       | 48.11                  |        |
| 1,592.0      | 0.70       | 70.50                | 1,591.9       | 10.0          | 11.6          | 15.3                       | 49.24                  |        |
| 1,687.0      | 1.00       | 47.20                | 1,686.9       | 10.7          | 12.7          | 16.6                       | 49.87                  |        |
| 1,782.0      | 1.10       | 48.60                | 1,781.8       | 11.9          | 14.0          | 18.4                       | 49.68                  |        |
| 1,876.0      | 0.70       | 55.30                | 1,875.8       | 12.8          | 15.2          | 19.8                       | 49.80                  |        |
| 1,973.0      | 1.00       | 43.80                | 1,972.8       | 13.8          | 16.2          | 21.3                       | 49.71                  |        |
| 2,072.0      | 1.10       | 54.90                | 2,071.8       | 14.9          | 17.6          | 23.1                       | 49.70                  |        |
| 2,166.0      | 1.10       | 47.90                | 2,165.8       | 16.1          | 19.0          | 24.9                       | 49.83                  |        |
| 2,262.0      | 1.00       | 34.50                | 2,261.8       | 17.4          | 20.2          | 26.6                       | 49.28                  |        |
| 2,357.0      | 1.30       | 40.20                | 2,356.7       | 18.9          | 21.3          | 28.5                       | 48.52                  |        |
| 2,451.0      | 1.50       | 35.40                | 2,450.7       | 20.7          | 22.7          | 30.7                       | 47.71                  |        |
| 2,545.0      | 1.50       | 37.60                | 2,544.7       | 22.7          | 24.2          | 33.2                       | 46.88                  |        |
| 2,639.0      | 1.60       | 37.00                | 2,638.6       | 24.7          | 25.7          | 35.7                       | 46.20                  |        |
| 2,734.0      | 1.80       | 43.70                | 2,733.6       | 26.8          | 27.6          | 38.5                       | 45.79                  |        |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 2,829.0      | 2.10       | 50.90                | 2,828.6       | 29.0          | 30.0          | 41.7                       | 45.93                  |
| 2,924.0      | 1.80       | 50.90                | 2,923.5       | 31.0          | 32.5          | 44.9                       | 46.28                  |
| 3,018.0      | 2.20       | 56.60                | 3,017.4       | 33.0          | 35.1          | 48.2                       | 46.81                  |
| 3,112.0      | 1.50       | 60.60                | 3,111.4       | 34.6          | 37.7          | 51.1                       | 47.48                  |
| 3,207.0      | 1.50       | 65.90                | 3,206.4       | 35.7          | 39.9          | 53.5                       | 48.20                  |
| 3,303.0      | 2.20       | 66.00                | 3,302.3       | 36.9          | 42.7          | 56.5                       | 49.16                  |
| 3,398.0      | 2.30       | 60.70                | 3,397.2       | 38.6          | 46.1          | 60.1                       | 50.03                  |
| 3,493.0      | 2.40       | 56.70                | 3,492.2       | 40.6          | 49.4          | 64.0                       | 50.55                  |
| 3,588.0      | 2.70       | 65.30                | 3,587.1       | 42.7          | 53.1          | 68.1                       | 51.21                  |
| 3,683.0      | 3.50       | 60.70                | 3,681.9       | 45.0          | 57.6          | 73.1                       | 52.01                  |
| 3,777.0      | 2.40       | 53.70                | 3,775.8       | 47.6          | 61.7          | 77.9                       | 52.37                  |
| 3,872.0      | 2.20       | 41.60                | 3,870.7       | 50.1          | 64.6          | 81.7                       | 52.17                  |
| 3,966.0      | 1.30       | 39.70                | 3,964.7       | 52.3          | 66.4          | 84.5                       | 51.79                  |
| 4,060.0      | 1.50       | 44.30                | 4,058.6       | 54.0          | 68.0          | 86.8                       | 51.53                  |
| 4,155.0      | 1.90       | 49.10                | 4,153.6       | 55.9          | 70.0          | 89.6                       | 51.39                  |
| 4,249.0      | 2.20       | 48.00                | 4,247.5       | 58.1          | 72.5          | 93.0                       | 51.29                  |
| 4,344.0      | 2.80       | 45.80                | 4,342.5       | 61.0          | 75.6          | 97.1                       | 51.09                  |
| 4,438.0      | 1.40       | 42.50                | 4,436.4       | 63.4          | 78.0          | 100.5                      | 50.88                  |
| 4,534.0      | 0.90       | 68.50                | 4,532.4       | 64.6          | 79.5          | 102.4                      | 50.91                  |
| 4,628.0      | 2.20       | 68.00                | 4,626.3       | 65.5          | 81.8          | 104.8                      | 51.32                  |
| 4,722.0      | 2.30       | 83.80                | 4,720.3       | 66.4          | 85.4          | 108.2                      | 52.13                  |
| 4,817.0      | 1.00       | 145.20               | 4,815.2       | 65.9          | 87.8          | 109.8                      | 53.08                  |
| 4,911.0      | 1.20       | 183.80               | 4,909.2       | 64.3          | 88.2          | 109.1                      | 53.91                  |
| 5,006.0      | 1.30       | 196.60               | 5,004.2       | 62.2          | 87.8          | 107.6                      | 54.66                  |
| 5,100.0      | 1.50       | 196.50               | 5,098.2       | 60.0          | 87.1          | 105.8                      | 55.43                  |
| 5,194.0      | 1.30       | 198.40               | 5,192.1       | 57.9          | 86.4          | 104.0                      | 56.21                  |
| 5,289.0      | 1.30       | 219.70               | 5,287.1       | 56.0          | 85.4          | 102.1                      | 56.75                  |



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
Project: Lea County N. M. Nad (83)  
Site: Section 36-23S-34S Toro 36 B3AP State 1H  
Well: Toro 36 B3AP State 1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3AP State 1H  
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Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 5,383.0      | 1.00       | 72.80                | 5,381.1       | 55.4          | 85.5          | 101.9                      | 57.05                  |
| 5,478.0      | 3.00       | 57.80                | 5,476.0       | 57.0          | 88.4          | 105.2                      | 57.19                  |
| 5,572.0      | 3.50       | 57.80                | 5,569.9       | 59.8          | 92.9          | 110.5                      | 57.22                  |
| 5,667.0      | 3.30       | 58.30                | 5,664.7       | 62.8          | 97.7          | 116.2                      | 57.26                  |
| 5,762.0      | 3.20       | 56.80                | 5,759.6       | 65.7          | 102.3         | 121.5                      | 57.28                  |
| 5,857.0      | 3.00       | 56.50                | 5,854.4       | 68.5          | 106.5         | 126.7                      | 57.25                  |
| 5,951.0      | 2.90       | 52.50                | 5,948.3       | 71.3          | 110.5         | 131.5                      | 57.15                  |
| 6,046.0      | 2.40       | 47.10                | 6,043.2       | 74.1          | 113.8         | 135.9                      | 56.92                  |
| 6,140.0      | 3.80       | 31.70                | 6,137.1       | 78.1          | 116.9         | 140.6                      | 56.25                  |
| 6,235.0      | 4.10       | 27.30                | 6,231.8       | 83.8          | 120.1         | 146.5                      | 55.09                  |
| 6,329.0      | 3.90       | 29.10                | 6,325.6       | 89.6          | 123.2         | 152.4                      | 53.97                  |
| 6,424.0      | 4.00       | 25.80                | 6,420.4       | 95.4          | 126.2         | 158.2                      | 52.92                  |
| 6,518.0      | 3.80       | 23.80                | 6,514.2       | 101.2         | 128.9         | 163.9                      | 51.86                  |
| 6,612.0      | 3.80       | 19.90                | 6,608.0       | 107.0         | 131.2         | 169.3                      | 50.81                  |
| 6,706.0      | 4.00       | 16.00                | 6,701.7       | 113.1         | 133.2         | 174.7                      | 49.67                  |
| 6,801.0      | 3.30       | 40.80                | 6,796.6       | 118.3         | 135.9         | 180.2                      | 48.95                  |
| 6,896.0      | 3.20       | 41.00                | 6,891.4       | 122.4         | 139.4         | 185.5                      | 48.72                  |
| 6,990.0      | 3.00       | 39.70                | 6,985.3       | 126.3         | 142.7         | 190.6                      | 48.50                  |
| 7,084.0      | 3.00       | 39.10                | 7,079.1       | 130.1         | 145.9         | 195.4                      | 48.27                  |
| 7,178.0      | 3.10       | 42.50                | 7,173.0       | 133.9         | 149.1         | 200.4                      | 48.09                  |
| 7,272.0      | 2.90       | 39.40                | 7,266.9       | 137.6         | 152.3         | 205.3                      | 47.92                  |
| 7,367.0      | 2.90       | 41.40                | 7,361.7       | 141.2         | 155.5         | 210.0                      | 47.74                  |
| 7,462.0      | 2.90       | 41.10                | 7,456.6       | 144.9         | 158.6         | 214.8                      | 47.60                  |
| 7,556.0      | 1.90       | 45.00                | 7,550.5       | 147.7         | 161.3         | 218.7                      | 47.51                  |
| 7,651.0      | 2.80       | 49.10                | 7,645.5       | 150.4         | 164.2         | 222.6                      | 47.51                  |
| 7,745.0      | 4.10       | 47.90                | 7,739.3       | 154.1         | 168.4         | 228.3                      | 47.53                  |
| 7,839.0      | 3.70       | 48.80                | 7,833.1       | 158.4         | 173.2         | 234.7                      | 47.55                  |



# Microsoft MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

## Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 7,934.0      | 4.60       | 48.00                | 7,927.8       | 163.0         | 178.3         | 241.5                      | 47.58                  |
| 8,028.0      | 4.40       | 50.80                | 8,021.5       | 167.8         | 183.9         | 248.9                      | 47.63                  |
| 8,123.0      | 4.00       | 51.60                | 8,116.3       | 172.1         | 189.3         | 255.9                      | 47.73                  |
| 8,217.0      | 3.60       | 54.50                | 8,210.1       | 175.9         | 194.3         | 262.1                      | 47.85                  |
| 8,312.0      | 3.60       | 57.30                | 8,304.9       | 179.2         | 199.2         | 268.0                      | 48.03                  |
| 8,407.0      | 3.30       | 56.60                | 8,399.7       | 182.3         | 204.0         | 273.6                      | 48.21                  |
| 8,501.0      | 4.60       | 50.00                | 8,493.5       | 186.2         | 209.2         | 280.1                      | 48.32                  |
| 8,595.0      | 4.30       | 51.60                | 8,587.2       | 190.8         | 214.8         | 287.4                      | 48.38                  |
| 8,689.0      | 3.80       | 54.00                | 8,681.0       | 194.9         | 220.1         | 294.0                      | 48.48                  |
| 8,784.0      | 4.10       | 57.30                | 8,775.7       | 198.6         | 225.5         | 300.5                      | 48.64                  |
| 8,878.0      | 3.40       | 66.80                | 8,869.5       | 201.5         | 230.9         | 306.4                      | 48.89                  |
| 8,973.0      | 4.10       | 62.20                | 8,964.3       | 204.2         | 236.5         | 312.4                      | 49.20                  |
| 9,067.0      | 3.50       | 60.60                | 9,058.1       | 207.1         | 242.0         | 318.5                      | 49.43                  |
| 9,162.0      | 4.20       | 65.60                | 9,152.9       | 210.0         | 247.7         | 324.7                      | 49.70                  |
| 9,257.0      | 3.70       | 61.70                | 9,247.7       | 212.9         | 253.5         | 331.1                      | 49.98                  |
| 9,351.0      | 3.80       | 60.20                | 9,341.5       | 215.9         | 258.9         | 337.1                      | 50.18                  |
| 9,445.0      | 4.60       | 60.30                | 9,435.2       | 219.3         | 264.9         | 343.9                      | 50.38                  |
| 9,534.0      | 4.50       | 60.20                | 9,524.0       | 222.8         | 271.0         | 350.8                      | 50.58                  |
| 9,634.0      | 5.00       | 58.40                | 9,623.6       | 227.0         | 278.1         | 359.0                      | 50.78                  |
| 9,728.0      | 4.10       | 56.50                | 9,717.3       | 231.0         | 284.4         | 366.4                      | 50.91                  |
| 9,822.0      | 3.10       | 63.60                | 9,811.1       | 234.0         | 289.5         | 372.2                      | 51.05                  |
| 9,917.0      | 2.50       | 73.10                | 9,906.0       | 235.8         | 293.8         | 376.7                      | 51.25                  |
| 10,011.0     | 3.20       | 66.80                | 9,999.9       | 237.4         | 298.1         | 381.1                      | 51.47                  |
| 10,105.0     | 2.70       | 73.50                | 10,093.8      | 239.0         | 302.7         | 385.7                      | 51.70                  |
| 10,199.0     | 1.90       | 92.20                | 10,187.7      | 239.6         | 306.4         | 388.9                      | 51.97                  |
| 10,294.0     | 1.80       | 111.50               | 10,282.7      | 239.0         | 309.3         | 390.9                      | 52.31                  |
| 10,388.0     | 1.40       | 149.50               | 10,376.6      | 237.5         | 311.3         | 391.5                      | 52.66                  |

Company: Mewbourne Oil Company  
Project: Lea County N. M. Nad (83)  
Site: Section 36-23S-34S Toro 36 B3AP State 1H  
Well: Toro 36 B3AP State 1H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Toro 36 B3AP State 1H  
TVD Reference: 3401 + 27 @ 3428.0usft (Patterson 220)  
MD Reference: 3401 + 27 @ 3428.0usft (Patterson 220)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| MD<br>(usft)              | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|---------------------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 10,482.0                  | 1.40       | 169.80               | 10,470.6      | 235.4         | 312.1         | 390.9                      | 52.98                  |
| 10,577.0                  | 1.00       | 157.50               | 10,565.6      | 233.5         | 312.6         | 390.1                      | 53.25                  |
| 10,671.0                  | 1.40       | 156.70               | 10,659.5      | 231.6         | 313.4         | 389.7                      | 53.53                  |
| 10,766.0                  | 1.90       | 135.30               | 10,754.5      | 229.5         | 314.9         | 389.6                      | 53.92                  |
| 10,861.0                  | 1.40       | 209.80               | 10,849.5      | 227.3         | 315.5         | 388.8                      | 54.22                  |
| 10,956.0                  | 2.10       | 199.80               | 10,944.4      | 224.7         | 314.3         | 386.3                      | 54.44                  |
| 11,050.0                  | 2.40       | 195.10               | 11,038.4      | 221.2         | 313.2         | 383.4                      | 54.77                  |
| 11,108.6                  | 2.34       | 196.71               | 11,096.9      | 218.8         | 312.5         | 381.5                      | 55.00                  |
| BB Toro 36 B3AP State #1H |            |                      |               |               |               |                            |                        |
| 11,143.0                  | 2.30       | 197.70               | 11,131.3      | 217.5         | 312.1         | 380.4                      | 55.13                  |
| 11,201.0                  | 4.20       | 195.00               | 11,189.2      | 214.3         | 311.2         | 377.9                      | 55.44                  |
| 11,233.0                  | 7.60       | 190.10               | 11,221.0      | 211.1         | 310.5         | 375.5                      | 55.79                  |
| 11,264.0                  | 10.90      | 190.10               | 11,251.6      | 206.2         | 309.7         | 372.0                      | 56.34                  |
| 11,296.0                  | 14.10      | 191.30               | 11,282.8      | 199.4         | 308.4         | 367.2                      | 57.11                  |
| 11,327.0                  | 17.50      | 189.40               | 11,312.7      | 191.1         | 306.9         | 361.5                      | 58.09                  |
| 11,359.0                  | 21.30      | 189.40               | 11,342.8      | 180.6         | 305.1         | 354.6                      | 59.38                  |
| 11,390.0                  | 24.20      | 189.40               | 11,371.4      | 168.8         | 303.2         | 347.0                      | 60.89                  |
| 11,422.0                  | 28.40      | 187.90               | 11,400.1      | 154.8         | 301.1         | 338.5                      | 62.79                  |
| 11,453.0                  | 32.30      | 183.90               | 11,426.9      | 139.2         | 299.5         | 330.3                      | 65.07                  |
| 11,485.0                  | 35.20      | 181.80               | 11,453.5      | 121.5         | 298.6         | 322.4                      | 67.86                  |
| 11,516.0                  | 38.60      | 181.00               | 11,478.3      | 102.9         | 298.2         | 315.4                      | 70.97                  |
| 11,548.0                  | 41.10      | 181.20               | 11,502.8      | 82.4          | 297.8         | 308.9                      | 74.54                  |
| 11,579.0                  | 44.10      | 181.10               | 11,525.6      | 61.4          | 297.3         | 303.6                      | 78.34                  |
| 11,611.0                  | 47.10      | 181.20               | 11,548.0      | 38.5          | 296.9         | 299.4                      | 82.61                  |
| 11,642.0                  | 49.80      | 181.30               | 11,568.6      | 15.3          | 296.4         | 296.8                      | 87.04                  |
| 11,674.0                  | 52.00      | 180.80               | 11,588.8      | -9.5          | 295.9         | 296.1                      | 91.84                  |
| 11,705.0                  | 55.10      | 179.70               | 11,607.2      | -34.4         | 295.8         | 297.8                      | 96.64                  |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft)                     | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|----------------------------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 11,737.0                         | 58.70      | 179.70               | 11,624.6      | -61.2         | 296.0         | 302.2                      | 101.69                 |
| 11,743.9                         | 59.45      | 179.79               | 11,628.2      | -67.1         | 296.0         | 303.5                      | 102.78                 |
| <b>LP Toro 36 B3AP State #1H</b> |            |                      |               |               |               |                            |                        |
| 11,768.0                         | 62.10      | 180.10               | 11,640.0      | -88.2         | 296.0         | 308.9                      | 106.59                 |
| 11,799.0                         | 66.90      | 180.60               | 11,653.3      | -116.1        | 295.8         | 317.8                      | 111.44                 |
| 11,831.0                         | 70.20      | 181.00               | 11,665.0      | -145.9        | 295.4         | 329.5                      | 116.29                 |
| 11,862.0                         | 73.60      | 181.40               | 11,674.6      | -175.4        | 294.8         | 343.0                      | 120.75                 |
| 11,894.0                         | 76.80      | 181.10               | 11,682.8      | -206.3        | 294.1         | 359.3                      | 125.05                 |
| 11,925.0                         | 78.90      | 181.10               | 11,689.3      | -236.6        | 293.5         | 377.0                      | 128.87                 |
| 11,957.0                         | 81.60      | 180.50               | 11,694.7      | -268.1        | 293.1         | 397.2                      | 132.45                 |
| 11,988.0                         | 86.40      | 179.70               | 11,698.0      | -299.0        | 293.0         | 418.6                      | 135.57                 |
| 12,004.0                         | 87.90      | 179.40               | 11,698.8      | -314.9        | 293.2         | 430.3                      | 137.05                 |
| 12,085.0                         | 92.40      | 180.00               | 11,698.6      | -395.9        | 293.6         | 492.9                      | 143.44                 |
| 12,179.0                         | 89.90      | 179.70               | 11,696.7      | -489.9        | 293.8         | 571.3                      | 149.04                 |
| 12,274.0                         | 89.20      | 180.00               | 11,697.4      | -584.9        | 294.1         | 654.7                      | 153.31                 |
| 12,368.0                         | 90.10      | 178.90               | 11,698.0      | -678.9        | 295.0         | 740.2                      | 156.51                 |
| 12,463.0                         | 89.90      | 178.80               | 11,698.0      | -773.9        | 296.9         | 828.9                      | 159.01                 |
| 12,557.0                         | 90.10      | 179.30               | 11,698.0      | -867.8        | 298.5         | 917.7                      | 161.02                 |
| 12,651.0                         | 89.30      | 180.00               | 11,698.5      | -961.8        | 299.0         | 1,007.2                    | 162.73                 |
| 12,746.0                         | 91.00      | 180.80               | 11,698.2      | -1,056.8      | 298.4         | 1,098.1                    | 164.23                 |
| 12,840.0                         | 90.50      | 180.80               | 11,697.0      | -1,150.8      | 297.1         | 1,188.5                    | 165.53                 |
| 12,935.0                         | 89.50      | 180.50               | 11,697.0      | -1,245.8      | 296.0         | 1,280.5                    | 166.64                 |
| 13,029.0                         | 91.30      | 180.00               | 11,696.4      | -1,339.8      | 295.6         | 1,372.0                    | 167.56                 |
| 13,124.0                         | 90.20      | 179.60               | 11,695.1      | -1,434.8      | 295.9         | 1,465.0                    | 168.35                 |
| 13,219.0                         | 88.70      | 179.70               | 11,696.0      | -1,529.8      | 296.5         | 1,558.2                    | 169.03                 |
| 13,313.0                         | 90.50      | 178.80               | 11,696.7      | -1,623.8      | 297.7         | 1,650.8                    | 169.61                 |
| 13,407.0                         | 91.70      | 179.30               | 11,694.9      | -1,717.7      | 299.3         | 1,743.6                    | 170.12                 |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 13,502.0     | 91.40      | 179.50               | 11,692.3      | -1,812.7      | 300.3         | 1,837.4                    | 170.59                 |
| 13,597.0     | 91.10      | 180.70               | 11,690.2      | -1,907.7      | 300.1         | 1,931.1                    | 171.06                 |
| 13,691.0     | 90.80      | 181.90               | 11,688.7      | -2,001.6      | 298.0         | 2,023.7                    | 171.53                 |
| 13,786.0     | 88.20      | 181.70               | 11,689.5      | -2,096.6      | 295.0         | 2,117.2                    | 171.99                 |
| 13,880.0     | 89.40      | 180.60               | 11,691.5      | -2,190.5      | 293.1         | 2,210.0                    | 172.38                 |
| 13,975.0     | 88.40      | 180.80               | 11,693.3      | -2,285.5      | 291.9         | 2,304.1                    | 172.72                 |
| 14,069.0     | 90.70      | 178.50               | 11,694.0      | -2,379.5      | 292.5         | 2,397.4                    | 172.99                 |
| 14,164.0     | 90.10      | 178.90               | 11,693.4      | -2,474.5      | 294.7         | 2,491.9                    | 173.21                 |
| 14,258.0     | 92.10      | 178.60               | 11,691.6      | -2,568.4      | 296.7         | 2,585.5                    | 173.41                 |
| 14,353.0     | 91.20      | 179.10               | 11,688.8      | -2,663.4      | 298.6         | 2,680.0                    | 173.60                 |
| 14,447.0     | 90.20      | 178.70               | 11,687.7      | -2,757.3      | 300.4         | 2,773.6                    | 173.78                 |
| 14,542.0     | 89.50      | 178.50               | 11,687.9      | -2,852.3      | 302.7         | 2,868.3                    | 173.94                 |
| 14,636.0     | 89.40      | 179.20               | 11,688.8      | -2,946.3      | 304.6         | 2,962.0                    | 174.10                 |
| 14,730.0     | 88.50      | 179.10               | 11,690.6      | -3,040.2      | 306.0         | 3,055.6                    | 174.25                 |
| 14,825.0     | 91.10      | 178.60               | 11,690.9      | -3,135.2      | 307.9         | 3,150.3                    | 174.39                 |
| 14,920.0     | 85.40      | 176.10               | 11,693.8      | -3,230.0      | 312.3         | 3,245.1                    | 174.48                 |
| 15,015.0     | 89.70      | 178.00               | 11,697.9      | -3,324.8      | 317.2         | 3,339.9                    | 174.55                 |
| 15,109.0     | 90.70      | 176.00               | 11,697.5      | -3,418.6      | 322.1         | 3,433.8                    | 174.62                 |
| 15,203.0     | 92.50      | 177.30               | 11,694.9      | -3,512.4      | 327.6         | 3,527.7                    | 174.67                 |
| 15,298.0     | 92.80      | 178.10               | 11,690.5      | -3,607.3      | 331.4         | 3,622.5                    | 174.75                 |
| 15,392.0     | 90.70      | 175.80               | 11,687.6      | -3,701.1      | 336.4         | 3,716.3                    | 174.81                 |
| 15,486.0     | 92.90      | 176.00               | 11,684.7      | -3,794.8      | 343.1         | 3,810.3                    | 174.83                 |
| 15,580.0     | 91.90      | 177.10               | 11,680.7      | -3,888.5      | 348.8         | 3,904.1                    | 174.87                 |
| 15,675.0     | 89.20      | 176.70               | 11,679.8      | -3,983.4      | 353.9         | 3,999.1                    | 174.92                 |
| 15,768.0     | 90.80      | 180.00               | 11,679.8      | -4,076.3      | 356.6         | 4,091.9                    | 175.00                 |
| 15,863.0     | 88.30      | 180.30               | 11,680.6      | -4,171.3      | 356.4         | 4,186.5                    | 175.12                 |
| 15,957.0     | 89.60      | 181.80               | 11,682.3      | -4,265.3      | 354.6         | 4,280.0                    | 175.25                 |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 36-23S-34S Toro 36 B3AP State 1H  
**Well:** Toro 36 B3AP State 1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Toro 36 B3AP State 1H  
**TVD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**MD Reference:** 3401 + 27 @ 3428.0usft (Patterson 220)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft)                        | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|-------------------------------------|------------|----------------------|---------------|---------------|---------------|----------------------------|------------------------|
| 16,052.0                            | 86.20      | 181.70               | 11,685.8      | -4,360.2      | 351.7         | 4,374.3                    | 175.39                 |
| 16,146.0                            | 85.30      | 183.10               | 11,692.8      | -4,453.8      | 347.8         | 4,467.4                    | 175.53                 |
| 16,241.0                            | 89.90      | 185.10               | 11,696.7      | -4,548.5      | 341.0         | 4,561.2                    | 175.71                 |
| 16,290.0                            | 89.00      | 185.00               | 11,697.2      | -4,597.3      | 336.7         | 4,609.6                    | 175.81                 |
| 16,339.2                            | 89.00      | 185.00               | 11,698.1      | -4,646.2      | 332.4         | 4,658.1                    | 175.91                 |
| <b>PBHL Toro 36 B3AP State #1H</b>  |            |                      |               |               |               |                            |                        |
| 16,340.0                            | 89.00      | 185.00               | 11,698.1      | -4,647.1      | 332.4         | 4,658.9                    | 175.91                 |
| <b>16340.0' MD Projected to Bit</b> |            |                      |               |               |               |                            |                        |

**Survey Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                      |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                              |
| 16,340.0                    | 11,698.1                    | -4,647.1          | 332.4           | 16340.0' MD Projected to Bit |