

# **Mewbourne Oil Company**

**Eddy County, New Mexico**

**Tonto 31 B2AP Fed #1H**

**Sec 31, T19S, R33E**

**SL: 295' FNL & 830' FEL**

**BHL: 330' FSL & 660' FEL**

**Plan: Design #1**

## **Standard Planning Report**

**07 January, 2015**

## Planning Report

|           |                          |                              |                                        |
|-----------|--------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                    | Local Co-ordinate Reference: | Site Tonto 31 B2AP Fed #1H             |
| Company:  | Mewbourne Oil Company    | TVD Reference:               | WELL @ 3601.0usft (Original Well Elev) |
| Project:  | Eddy County, New Mexico  | MD Reference:                | WELL @ 3601.0usft (Original Well Elev) |
| Site:     | Tonto 31 B2AP Fed #1H    | North Reference:             | Grid                                   |
| Well:     | Sec 31, T19S, R33E       | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FSL & 660' FEL |                              |                                        |
| Design:   | Design #1                |                              |                                        |

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

|                       |                       |                   |                   |
|-----------------------|-----------------------|-------------------|-------------------|
| Site                  | Tonto 31 B2AP Fed #1H |                   |                   |
| Site Position:        |                       | Northing:         | 590,975.10 usft   |
| From:                 | Map                   | Easting:          | 696,191.50 usft   |
| Position Uncertainty: | 0.0 usft              | Slot Radius:      | 13-3/16 "         |
|                       |                       | Latitude:         | 32° 37' 23.078 N  |
|                       |                       | Longitude:        | 103° 41' 45.980 W |
|                       |                       | Grid Convergence: | 0.34 "            |

|                      |                    |                     |                   |
|----------------------|--------------------|---------------------|-------------------|
| Well                 | Sec 31, T19S, R33E |                     |                   |
| Well Position        | +N/-S              | 0.0 usft            | Northing:         |
|                      | +E/-W              | 0.0 usft            | Easting:          |
| Position Uncertainty | 0.0 usft           | Wellhead Elevation: | 3,601.0 usft      |
|                      |                    | Latitude:           | 32° 37' 23.078 N  |
|                      |                    | Longitude:          | 103° 41' 45.980 W |
|                      |                    | Ground Level:       | 3,581.0 usft      |

|           |                          |             |                |
|-----------|--------------------------|-------------|----------------|
| Wellbore  | BHL: 330' FSL & 660' FEL |             |                |
| Magnetics | Model Name               | Sample Date | Declination    |
|           |                          |             | (°)            |
|           | IGRF200510               | 12/31/2009  | 7.84           |
|           |                          |             | Dip Angle      |
|           |                          |             | (°)            |
|           |                          |             | Field Strength |
|           |                          |             | (nT)           |
|           |                          |             | 49,019         |

|                   |                  |           |               |
|-------------------|------------------|-----------|---------------|
| Design            | Design #1        |           |               |
| Audit Notes:      |                  |           |               |
| Version:          | Phase:           | PROTOTYPE | Tie On Depth: |
|                   |                  |           | 0.0           |
| Vertical Section: | Depth From (TVD) | +N/-S     | +E/-W         |
|                   | (usft)           | (usft)    | (usft)        |
|                   | 0.0              | 0.0       | 0.0           |
|                   |                  |           | Direction     |
|                   |                  |           | (°)           |
|                   |                  |           | 177.60        |

|               |             |         |          |          |        |             |             |             |        |                     |
|---------------|-------------|---------|----------|----------|--------|-------------|-------------|-------------|--------|---------------------|
| Plan Sections |             |         |          |          |        |             |             |             |        |                     |
| Measured      | Inclination | Azimuth | Vertical | +N/-S    | +E/-W  | Dogleg      | Build       | Turn        | TFO    | Target              |
| Depth         | (°)         | (°)     | Depth    | (usft)   | (usft) | Rate        | Rate        | Rate        | (°)    |                     |
| (usft)        |             |         | (usft)   |          |        | (°/100usft) | (°/100usft) | (°/100usft) |        |                     |
| 0.0           | 0.00        | 0.00    | 0.0      | 0.0      | 0.0    | 0.00        | 0.00        | 0.00        | 0.00   |                     |
| 9,528.5       | 0.00        | 0.00    | 9,528.5  | 0.0      | 0.0    | 0.00        | 0.00        | 0.00        | 0.00   |                     |
| 10,277.2      | 89.84       | 177.60  | 10,006.0 | -475.7   | 20.0   | 12.00       | 12.00       | 0.00        | 177.60 |                     |
| 14,461.3      | 89.84       | 177.60  | 10,018.0 | -4,656.1 | 195.5  | 0.00        | 0.00        | 0.00        | 0.00   | BHL: 330 FSL & 660' |

# Planning Report

|           |                          |                              |                                        |
|-----------|--------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                    | Local Co-ordinate Reference: | Site Tonto 31 B2AP Fed #1H             |
| Company:  | Mewbourne Oil Company    | TVD Reference:               | WELL @ 3601.0usft (Original Well Elev) |
| Project:  | Eddy County, New Mexico  | MD Reference:                | WELL @ 3601.0usft (Original Well Elev) |
| Site:     | Tonto 31 B2AP Fed #1H    | North Reference:             | Grid                                   |
| Well:     | Sec 31, T19S, R33E       | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FSL & 660' FEL |                              |                                        |
| Design:   | Design #1                |                              |                                        |

| Planned 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) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| SL: 295 FNL & 830 FEL |                 |             |                       |              |              |                         |                         |                        |                       |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0               | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0               | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0               | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 0.00            | 0.00        | 3,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 0.00            | 0.00        | 3,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0               | 0.00            | 0.00        | 3,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0               | 0.00            | 0.00        | 4,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0               | 0.00            | 0.00        | 4,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0               | 0.00            | 0.00        | 4,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0               | 0.00            | 0.00        | 4,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0               | 0.00            | 0.00        | 4,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0               | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0               | 0.00            | 0.00        | 4,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 0.00            | 0.00        | 4,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 0.00            | 0.00        | 4,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 0.00            | 0.00        | 4,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 0.00            | 0.00        | 5,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0               | 0.00            | 0.00        | 5,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 0.00            | 0.00        | 5,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|           |                          |                              |                                        |
|-----------|--------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                    | Local Co-ordinate Reference: | Site Tonto 31 B2AP Fed #1H             |
| Company:  | Mewbourne Oil Company    | TVD Reference:               | WELL @ 3601.0usft (Original Well Elev) |
| Project:  | Eddy County, New Mexico  | MD Reference:                | WELL @ 3601.0usft (Original Well Elev) |
| Site:     | Tonto 31 B2AP Fed #1H    | North Reference:             | Grid                                   |
| Well:     | Sec 31, T19S, R33E       | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FSL & 660' FEL |                              |                                        |
| Design:   | Design #1                |                              |                                        |

| Planned Survey                      |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|-------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft)         | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 5,300.0                             | 0.00               | 0.00           | 5,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,400.0                             | 0.00               | 0.00           | 5,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,500.0                             | 0.00               | 0.00           | 5,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,600.0                             | 0.00               | 0.00           | 5,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,700.0                             | 0.00               | 0.00           | 5,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,800.0                             | 0.00               | 0.00           | 5,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,900.0                             | 0.00               | 0.00           | 5,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,000.0                             | 0.00               | 0.00           | 6,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,100.0                             | 0.00               | 0.00           | 6,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,200.0                             | 0.00               | 0.00           | 6,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,300.0                             | 0.00               | 0.00           | 6,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,400.0                             | 0.00               | 0.00           | 6,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,500.0                             | 0.00               | 0.00           | 6,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,600.0                             | 0.00               | 0.00           | 6,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,700.0                             | 0.00               | 0.00           | 6,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,800.0                             | 0.00               | 0.00           | 6,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,900.0                             | 0.00               | 0.00           | 6,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,000.0                             | 0.00               | 0.00           | 7,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,100.0                             | 0.00               | 0.00           | 7,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,200.0                             | 0.00               | 0.00           | 7,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,300.0                             | 0.00               | 0.00           | 7,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,400.0                             | 0.00               | 0.00           | 7,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,500.0                             | 0.00               | 0.00           | 7,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,600.0                             | 0.00               | 0.00           | 7,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,700.0                             | 0.00               | 0.00           | 7,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,800.0                             | 0.00               | 0.00           | 7,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,900.0                             | 0.00               | 0.00           | 7,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,000.0                             | 0.00               | 0.00           | 8,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,100.0                             | 0.00               | 0.00           | 8,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,200.0                             | 0.00               | 0.00           | 8,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,300.0                             | 0.00               | 0.00           | 8,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,400.0                             | 0.00               | 0.00           | 8,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,500.0                             | 0.00               | 0.00           | 8,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,600.0                             | 0.00               | 0.00           | 8,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,700.0                             | 0.00               | 0.00           | 8,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,800.0                             | 0.00               | 0.00           | 8,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,900.0                             | 0.00               | 0.00           | 8,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,000.0                             | 0.00               | 0.00           | 9,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,100.0                             | 0.00               | 0.00           | 9,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,200.0                             | 0.00               | 0.00           | 9,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,300.0                             | 0.00               | 0.00           | 9,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,400.0                             | 0.00               | 0.00           | 9,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,500.0                             | 0.00               | 0.00           | 9,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,528.5                             | 0.00               | 0.00           | 9,528.5                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| KOP @ 9529                          |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 9,600.0                             | 8.58               | 177.60         | 9,599.7                     | -5.3            | 0.2             | 5.3                           | 12.00                         | 12.00                        | 0.00                        |  |
| 9,700.0                             | 20.58              | 177.60         | 9,696.3                     | -30.4           | 1.3             | 30.5                          | 12.00                         | 12.00                        | 0.00                        |  |
| 9,712.5                             | 22.08              | 177.60         | 9,708.0                     | -35.0           | 1.5             | 35.0                          | 12.00                         | 12.00                        | 0.00                        |  |
| First Take Point: 330 FNL & 829 FEL |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 9,800.0                             | 32.58              | 177.60         | 9,785.6                     | -75.1           | 3.2             | 75.1                          | 12.00                         | 12.00                        | 0.00                        |  |
| 9,900.0                             | 44.58              | 177.60         | 9,863.6                     | -137.2          | 5.8             | 137.4                         | 12.00                         | 12.00                        | 0.00                        |  |
| 10,000.0                            | 56.58              | 177.60         | 9,927.0                     | -214.3          | 9.0             | 214.5                         | 12.00                         | 12.00                        | 0.00                        |  |
| 10,100.0                            | 68.57              | 177.60         | 9,973.0                     | -302.8          | 12.7            | 303.1                         | 12.00                         | 12.00                        | 0.00                        |  |
| 10,200.0                            | 80.57              | 177.60         | 9,999.6                     | -398.9          | 16.8            | 399.3                         | 12.00                         | 12.00                        | 0.00                        |  |

# Planning Report

|           |                          |                              |                                        |
|-----------|--------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                    | Local Co-ordinate Reference: | Site Tonto 31 B2AP Fed #1H             |
| Company:  | Mewbourne Oil Company    | TVD Reference:               | WELL @ 3601.0usft (Original Well Elev) |
| Project:  | Eddy County, New Mexico  | MD Reference:                | WELL @ 3601.0usft (Original Well Elev) |
| Site:     | Tonto 31 B2AP Fed #1H    | North Reference:             | Grid                                   |
| Well:     | Sec 31, T19S, R33E       | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FSL & 660' FEL |                              |                                        |
| Design:   | Design #1                |                              |                                        |

| Planned Survey          |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)   | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 10,277.2                | 89.83           | 177.60      | 10,006.0              | -475.7       | 20.0         | 476.1                   | 12.00                   | 12.00                  | 0.00                  |
| LP: 770 FNL & 816 FEL   |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,300.0                | 89.84           | 177.60      | 10,006.1              | -498.5       | 20.9         | 498.9                   | 0.01                    | 0.01                   | 0.00                  |
| 10,400.0                | 89.84           | 177.60      | 10,006.4              | -598.4       | 25.1         | 598.9                   | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0                | 89.84           | 177.60      | 10,006.6              | -698.3       | 29.3         | 698.9                   | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                | 89.84           | 177.60      | 10,006.9              | -798.2       | 33.5         | 798.9                   | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                | 89.84           | 177.60      | 10,007.2              | -898.2       | 37.7         | 898.9                   | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                | 89.84           | 177.60      | 10,007.5              | -998.1       | 41.9         | 998.9                   | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                | 89.84           | 177.60      | 10,007.8              | -1,098.0     | 46.1         | 1,098.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                | 89.84           | 177.60      | 10,008.1              | -1,197.9     | 50.3         | 1,198.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                | 89.84           | 177.60      | 10,008.4              | -1,297.8     | 54.5         | 1,298.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                | 89.84           | 177.60      | 10,008.6              | -1,397.7     | 58.7         | 1,398.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                | 89.84           | 177.60      | 10,008.9              | -1,497.6     | 62.9         | 1,498.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                | 89.84           | 177.60      | 10,009.2              | -1,597.5     | 67.1         | 1,598.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                | 89.84           | 177.60      | 10,009.5              | -1,697.4     | 71.3         | 1,698.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                | 89.84           | 177.60      | 10,009.8              | -1,797.4     | 75.5         | 1,798.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                | 89.84           | 177.60      | 10,010.1              | -1,897.3     | 79.7         | 1,898.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                | 89.84           | 177.60      | 10,010.4              | -1,997.2     | 83.9         | 1,998.9                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                | 89.84           | 177.60      | 10,010.7              | -2,097.1     | 88.0         | 2,098.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                | 89.84           | 177.60      | 10,010.9              | -2,197.0     | 92.2         | 2,198.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                | 89.84           | 177.60      | 10,011.2              | -2,296.9     | 96.4         | 2,298.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                | 89.84           | 177.60      | 10,011.5              | -2,396.8     | 100.6        | 2,398.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                | 89.84           | 177.60      | 10,011.8              | -2,496.7     | 104.8        | 2,498.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                | 89.84           | 177.60      | 10,012.1              | -2,596.6     | 109.0        | 2,598.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                | 89.84           | 177.60      | 10,012.4              | -2,696.6     | 113.2        | 2,698.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                | 89.84           | 177.60      | 10,012.7              | -2,796.5     | 117.4        | 2,798.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                | 89.84           | 177.60      | 10,012.9              | -2,896.4     | 121.6        | 2,898.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                | 89.84           | 177.60      | 10,013.2              | -2,996.3     | 125.8        | 2,998.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                | 89.84           | 177.60      | 10,013.5              | -3,096.2     | 130.0        | 3,098.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                | 89.84           | 177.60      | 10,013.8              | -3,196.1     | 134.2        | 3,198.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                | 89.84           | 177.60      | 10,014.1              | -3,296.0     | 138.4        | 3,298.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                | 89.84           | 177.60      | 10,014.4              | -3,395.9     | 142.6        | 3,398.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                | 89.84           | 177.60      | 10,014.7              | -3,495.9     | 146.8        | 3,498.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                | 89.84           | 177.60      | 10,015.0              | -3,595.8     | 151.0        | 3,598.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                | 89.84           | 177.60      | 10,015.2              | -3,695.7     | 155.2        | 3,698.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                | 89.84           | 177.60      | 10,015.5              | -3,795.6     | 159.4        | 3,798.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                | 89.84           | 177.60      | 10,015.8              | -3,895.5     | 163.6        | 3,898.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                | 89.84           | 177.60      | 10,016.1              | -3,995.4     | 167.8        | 3,998.9                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                | 89.84           | 177.60      | 10,016.4              | -4,095.3     | 171.9        | 4,098.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                | 89.84           | 177.60      | 10,016.7              | -4,195.2     | 176.1        | 4,198.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                | 89.84           | 177.60      | 10,017.0              | -4,295.1     | 180.3        | 4,298.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                | 89.84           | 177.60      | 10,017.3              | -4,395.1     | 184.5        | 4,398.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                | 89.84           | 177.60      | 10,017.5              | -4,495.0     | 188.7        | 4,498.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                | 89.84           | 177.60      | 10,017.8              | -4,594.9     | 192.9        | 4,598.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,461.3                | 89.84           | 177.60      | 10,018.0              | -4,656.1     | 195.5        | 4,660.2                 | 0.00                    | 0.00                   | 0.00                  |
| BHL: 330 FSL & 660' FEL |                 |             |                       |              |              |                         |                         |                        |                       |

# Planning Report

|           |                          |                              |                                        |
|-----------|--------------------------|------------------------------|----------------------------------------|
| Database: | Hobbs                    | Local Co-ordinate Reference: | Site Tonto 31 B2AP Fed #1H             |
| Company:  | Mewbourne Oil Company    | TVD Reference:               | WELL @ 3601.0usft (Original Well Elev) |
| Project:  | Eddy County, New Mexico  | MD Reference:                | WELL @ 3601.0usft (Original Well Elev) |
| Site:     | Tonto 31 B2AP Fed #1H    | North Reference:             | Grid                                   |
| Well:     | Sec 31, T19S, R33E       | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | BHL: 330' FSL & 660' FEL |                              |                                        |
| Design:   | Design #1                |                              |                                        |

| Design Targets                                                                                                              |                  |                 |               |                 |                 |                    |                   |                  |                   |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|
| Target Name<br>- hit/miss target<br>- Shape                                                                                 | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude         |
| SL: 295 FNL & 830 FEL<br>- plan hits target center<br>- Point                                                               | 0.00             | 0.01            | 0.0           | 0.0             | 0.0             | 590,975.10         | 696,191.50        | 32° 37' 23.078 N | 103° 41' 45.980 W |
| KOP @ 9529<br>- plan hits target center<br>- Point                                                                          | 0.00             | 0.01            | 9,528.5       | 0.0             | 0.0             | 590,975.10         | 696,191.50        | 32° 37' 23.078 N | 103° 41' 45.980 W |
| First Take Point: 330 FN<br>- plan misses target center by 0.2usft at 9712.5usft MD (9708.0 TVD, -35.0 N, 1.5 E)<br>- Point | 0.00             | 0.00            | 9,708.0       | -35.0           | 1.3             | 590,940.10         | 696,192.80        | 32° 37' 22.732 N | 103° 41' 45.967 W |
| LP: 770 FNL & 816 FEL<br>- plan hits target center<br>- Point                                                               | 0.00             | 0.00            | 10,006.0      | -475.7          | 20.0            | 590,499.40         | 696,211.50        | 32° 37' 18.370 N | 103° 41' 45.779 W |
| BHL: 330 FSL & 660' FE<br>- plan hits target center<br>- Point                                                              | 0.00             | 0.00            | 10,018.0      | -4,656.1        | 195.5           | 586,319.00         | 696,386.99        | 32° 36' 36.994 N | 103° 41' 44.021 W |