

# **Mewbourne Oil Company**

Lea County, New Mexico

Pepper Ridge 15/22 W1AH Fed Com #2H

Sec 15, T26S, R33E

SL: 185' FNL & 580' FEL, Sec 15

BHL: 330' FNL & 990' FEL, Sec 10

**HOBBS OCD**

**FEB 06 2017**

**RECEIVED**

**Plan: Design #1**

## **Standard Planning Report**

**13 July, 2016**

# Planning Report

|                  |                                     |                                     |                                          |
|------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Database:</b> | Hobbs                               | <b>Local Co-ordinate Reference:</b> | Site Pepper Ridge 15/22 W1AH Fed Com #2H |
| <b>Company:</b>  | Mewbourne Oil Company               | <b>TVD Reference:</b>               | WELL @ 3352.0usft (Original Well Elev)   |
| <b>Project:</b>  | Lea County, New Mexico              | <b>MD Reference:</b>                | WELL @ 3352.0usft (Original Well Elev)   |
| <b>Site:</b>     | Pepper Ridge 15/22 W1AH Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Sec 15, T26S, R33E                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | BHL: 330' FNL & 990' FEL, Sec 10    |                                     |                                          |
| <b>Design:</b>   | Design #1                           |                                     |                                          |

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

|                              |                                     |                     |                 |                                     |
|------------------------------|-------------------------------------|---------------------|-----------------|-------------------------------------|
| <b>Site</b>                  | Pepper Ridge 15/22 W1AH Fed Com #2H |                     |                 |                                     |
| <b>Site Position:</b>        |                                     | <b>Northing:</b>    | 382,823.00 usft | <b>Latitude:</b> 32° 3' 0.338 N     |
| <b>From:</b>                 | Map                                 | <b>Easting:</b>     | 741,754.00 usft | <b>Longitude:</b> 103° 33' 10.996 W |
| <b>Position Uncertainty:</b> | 0.0 usft                            | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> 0.41 °     |

|                             |                    |          |                            |                 |
|-----------------------------|--------------------|----------|----------------------------|-----------------|
| <b>Well</b>                 | Sec 15, T26S, R33E |          |                            |                 |
| <b>Well Position</b>        | <b>+N/-S</b>       | 0.0 usft | <b>Northing:</b>           | 382,823.00 usft |
|                             | <b>+E/-W</b>       | 0.0 usft | <b>Easting:</b>            | 741,754.00 usft |
| <b>Position Uncertainty</b> | 0.0 usft           |          | <b>Wellhead Elevation:</b> | 3,352.0 usft    |
|                             |                    |          | <b>Ground Level:</b>       | 3,325.0 usft    |

|                  |                                  |                    |                        |                      |                            |
|------------------|----------------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | BHL: 330' FNL & 990' FEL, Sec 10 |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>                | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010                         | 7/11/2016          | 6.94                   | 59.90                | 48,007                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Design #1                      |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <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                  | 355.01               |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target               |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 11,500.0              | 0.00            | 0.00        | 11,500.0              | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 11,804.1              | 30.71           | 239.11      | 11,789.7              | -40.9        | -68.3        | 10.10                   | 10.10                  | 0.00                  | 239.11  |                      |
| 11,823.8              | 30.71           | 239.11      | 11,806.7              | -46.0        | -76.9        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 12,887.4              | 90.00           | 359.58      | 12,457.0              | 512.0        | -414.0       | 9.87                    | 5.57                   | 11.33                 | 116.83  | LP/FTP: 330' FSL & 9 |
| 17,506.5              | 90.00           | 359.58      | 12,457.0              | 5,131.0      | -448.0       | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL: 330' FNL & 990' |

# Planning Report

**Database:** Hobbs  
**Company:** Mewbourne Oil Company  
**Project:** Lea County, New Mexico  
**Site:** Pepper Ridge 15/22 W1AH Fed Com #2H  
**Well:** Sec 15, T26S, R33E  
**Wellbore:** BHL: 330' FNL & 990' FEL, Sec 10  
**Design:** Design #1

**Local Co-ordinate Reference:** Site Pepper Ridge 15/22 W1AH Fed Com #2H  
**TVD Reference:** WELL @ 3352.0usft (Original Well Elev)  
**MD Reference:** WELL @ 3352.0usft (Original Well Elev)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

## 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: 185' FNL & 580' FEL, Sec15 |                 |             |                       |              |              |                         |                         |                        |                       |
| 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                  |

# Planning Report

|                  |                                     |                                     |                                          |
|------------------|-------------------------------------|-------------------------------------|------------------------------------------|
| <b>Database:</b> | Hobbs                               | <b>Local Co-ordinate Reference:</b> | Site Pepper Ridge 15/22 W1AH Fed Com #2H |
| <b>Company:</b>  | Mewbourne Oil Company               | <b>TVD Reference:</b>               | WELL @ 3352.0usft (Original Well Elev)   |
| <b>Project:</b>  | Lea County, New Mexico              | <b>MD Reference:</b>                | WELL @ 3352.0usft (Original Well Elev)   |
| <b>Site:</b>     | Pepper Ridge 15/22 W1AH Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Sec 15, T26S, R33E                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | BHL: 330' FNL & 990' FEL, Sec 10    |                                     |                                          |
| <b>Design:</b>   | 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) |
| 5,200.0               | 0.00            | 0.00        | 5,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 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                  |
| 9,600.0               | 0.00            | 0.00        | 9,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0               | 0.00            | 0.00        | 9,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0               | 0.00            | 0.00        | 9,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0               | 0.00            | 0.00        | 9,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0              | 0.00            | 0.00        | 10,000.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0              | 0.00            | 0.00        | 10,100.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0              | 0.00            | 0.00        | 10,200.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0              | 0.00            | 0.00        | 10,300.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0              | 0.00            | 0.00        | 10,400.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

Database: Hobbs

Company: Mewbourne Oil Company

Project: Lea County, New Mexico

Site: Pepper Ridge 15/22 W1AH Fed Com #2H

Well: Sec 15, T26S, R33E

Wellbore: BHL: 330' FNL & 990' FEL, Sec 10

Design: Design #1

Local Co-ordinate Reference:

Site Pepper Ridge 15/22 W1AH Fed Com #2H

TVD Reference:

WELL @ 3352.0usft (Original Well Elev)

MD Reference:

WELL @ 3352.0usft (Original Well Elev)

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

## 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) |
|------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,500.0                                       | 0.00            | 0.00        | 10,500.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                                       | 0.00            | 0.00        | 10,600.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                                       | 0.00            | 0.00        | 10,700.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                                       | 0.00            | 0.00        | 10,800.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                                       | 0.00            | 0.00        | 10,900.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                                       | 0.00            | 0.00        | 11,000.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                                       | 0.00            | 0.00        | 11,100.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                                       | 0.00            | 0.00        | 11,200.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                                       | 0.00            | 0.00        | 11,300.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                                       | 0.00            | 0.00        | 11,400.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                                       | 0.00            | 0.00        | 11,500.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 11,500.1                                       | 0.00            | 239.11      | 11,500.1              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP @ 11500', Sec 15</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,600.0                                       | 10.10           | 239.11      | 11,599.5              | -4.5         | -7.5         | -3.8                    | 10.11                   | 10.11                  | 0.00                  |
| 11,700.0                                       | 20.20           | 239.11      | 11,695.9              | -17.9        | -29.9        | -15.2                   | 10.10                   | 10.10                  | 0.00                  |
| 11,800.0                                       | 30.30           | 239.11      | 11,786.2              | -39.8        | -66.5        | -33.9                   | 10.10                   | 10.10                  | 0.00                  |
| 11,804.1                                       | 30.71           | 239.11      | 11,789.7              | -40.9        | -68.3        | -34.8                   | 10.10                   | 10.10                  | 0.00                  |
| 11,823.8                                       | 30.71           | 239.11      | 11,806.7              | -46.0        | -76.9        | -39.2                   | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                                       | 28.05           | 253.49      | 11,873.2              | -61.1        | -110.8       | -51.3                   | 9.87                    | -3.49                  | 18.88                 |
| 12,000.0                                       | 27.21           | 274.80      | 11,962.0              | -65.9        | -156.3       | -52.1                   | 9.87                    | -0.84                  | 21.31                 |
| 12,100.0                                       | 29.56           | 295.07      | 12,050.1              | -53.5        | -201.5       | -35.8                   | 9.87                    | 2.35                   | 20.27                 |
| 12,200.0                                       | 34.46           | 311.32      | 12,135.1              | -24.3        | -245.2       | -2.9                    | 9.87                    | 4.90                   | 16.26                 |
| 12,300.0                                       | 40.99           | 323.48      | 12,214.2              | 20.8         | -286.1       | 45.6                    | 9.87                    | 6.53                   | 12.16                 |
| 12,400.0                                       | 48.49           | 332.63      | 12,285.3              | 80.6         | -322.9       | 108.4                   | 9.87                    | 7.50                   | 9.15                  |
| 12,500.0                                       | 56.56           | 339.82      | 12,346.1              | 153.2        | -354.6       | 183.5                   | 9.87                    | 8.07                   | 7.18                  |
| 12,600.0                                       | 64.98           | 345.75      | 12,394.9              | 236.5        | -380.2       | 268.7                   | 9.87                    | 8.41                   | 5.93                  |
| 12,700.0                                       | 73.59           | 350.91      | 12,430.3              | 328.0        | -399.0       | 361.4                   | 9.87                    | 8.62                   | 5.16                  |
| 12,800.0                                       | 82.33           | 355.62      | 12,451.2              | 425.0        | -410.4       | 459.1                   | 9.87                    | 8.73                   | 4.72                  |
| 12,887.4                                       | 90.00           | 359.58      | 12,457.0              | 512.0        | -414.0       | 546.1                   | 9.87                    | 8.78                   | 4.53                  |
| <b>LP/FTP: 330' FSL &amp; 990' FEL, Sec 10</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,900.0                                       | 90.00           | 359.58      | 12,457.0              | 524.6        | -414.1       | 558.7                   | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                                       | 90.00           | 359.58      | 12,457.0              | 624.6        | -414.8       | 658.3                   | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                                       | 90.00           | 359.58      | 12,457.0              | 724.6        | -415.6       | 758.0                   | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                                       | 90.00           | 359.58      | 12,457.0              | 824.6        | -416.3       | 857.7                   | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                                       | 90.00           | 359.58      | 12,457.0              | 924.6        | -417.0       | 957.4                   | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                                       | 90.00           | 359.58      | 12,457.0              | 1,024.6      | -417.8       | 1,057.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                                       | 90.00           | 359.58      | 12,457.0              | 1,124.6      | -418.5       | 1,156.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                                       | 90.00           | 359.58      | 12,457.0              | 1,224.6      | -419.2       | 1,256.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                                       | 90.00           | 359.58      | 12,457.0              | 1,324.6      | -420.0       | 1,356.1                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                                       | 90.00           | 359.58      | 12,457.0              | 1,424.6      | -420.7       | 1,455.8                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                                       | 90.00           | 359.58      | 12,457.0              | 1,524.6      | -421.5       | 1,555.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                                       | 90.00           | 359.58      | 12,457.0              | 1,624.6      | -422.2       | 1,655.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                                       | 90.00           | 359.58      | 12,457.0              | 1,724.6      | -422.9       | 1,754.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                                       | 90.00           | 359.58      | 12,457.0              | 1,824.6      | -423.7       | 1,854.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                                       | 90.00           | 359.58      | 12,457.0              | 1,924.6      | -424.4       | 1,954.2                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                                       | 90.00           | 359.58      | 12,457.0              | 2,024.6      | -425.1       | 2,053.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                                       | 90.00           | 359.58      | 12,457.0              | 2,124.6      | -425.9       | 2,153.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                                       | 90.00           | 359.58      | 12,457.0              | 2,224.6      | -426.6       | 2,253.3                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0                                       | 90.00           | 359.58      | 12,457.0              | 2,324.6      | -427.3       | 2,352.9                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0                                       | 90.00           | 359.58      | 12,457.0              | 2,424.6      | -428.1       | 2,452.6                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0                                       | 90.00           | 359.58      | 12,457.0              | 2,524.6      | -428.8       | 2,552.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0                                       | 90.00           | 359.58      | 12,457.0              | 2,624.6      | -429.6       | 2,652.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,100.0                                       | 90.00           | 359.58      | 12,457.0              | 2,724.6      | -430.3       | 2,751.7                 | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

Database: Hobbs  
 Company: Mewbourne Oil Company  
 Project: Lea County, New Mexico  
 Site: Pepper Ridge 15/22 W1AH Fed Com #2H  
 Well: Sec 15, T26S, R33E  
 Wellbore: BHL: 330' FNL & 990' FEL, Sec 10  
 Design: Design #1

Local Co-ordinate Reference: Site Pepper Ridge 15/22 W1AH Fed Com #2H  
 TVD Reference: WELL @ 3352.0usft (Original Well Elev)  
 MD Reference: WELL @ 3352.0usft (Original Well Elev)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 15,200.0              | 90.00           | 359.58      | 12,457.0              | 2,824.6      | -431.0       | 2,851.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,300.0              | 90.00           | 359.58      | 12,457.0              | 2,924.6      | -431.8       | 2,951.0                 | 0.00                    | 0.00                   | 0.00                  |
| 15,400.0              | 90.00           | 359.58      | 12,457.0              | 3,024.6      | -432.5       | 3,050.7                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0              | 90.00           | 359.58      | 12,457.0              | 3,124.6      | -433.2       | 3,150.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0              | 90.00           | 359.58      | 12,457.0              | 3,224.6      | -434.0       | 3,250.1                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0              | 90.00           | 359.58      | 12,457.0              | 3,324.6      | -434.7       | 3,349.8                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0              | 90.00           | 359.58      | 12,457.0              | 3,424.6      | -435.4       | 3,449.5                 | 0.00                    | 0.00                   | 0.00                  |
| 15,900.0              | 90.00           | 359.58      | 12,457.0              | 3,524.6      | -436.2       | 3,549.1                 | 0.00                    | 0.00                   | 0.00                  |
| 16,000.0              | 90.00           | 359.58      | 12,457.0              | 3,624.5      | -436.9       | 3,648.8                 | 0.00                    | 0.00                   | 0.00                  |
| 16,100.0              | 90.00           | 359.58      | 12,457.0              | 3,724.5      | -437.6       | 3,748.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,200.0              | 90.00           | 359.58      | 12,457.0              | 3,824.5      | -438.4       | 3,848.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,300.0              | 90.00           | 359.58      | 12,457.0              | 3,924.5      | -439.1       | 3,947.9                 | 0.00                    | 0.00                   | 0.00                  |
| 16,400.0              | 90.00           | 359.58      | 12,457.0              | 4,024.5      | -439.9       | 4,047.5                 | 0.00                    | 0.00                   | 0.00                  |
| 16,500.0              | 90.00           | 359.58      | 12,457.0              | 4,124.5      | -440.6       | 4,147.2                 | 0.00                    | 0.00                   | 0.00                  |
| 16,600.0              | 90.00           | 359.58      | 12,457.0              | 4,224.5      | -441.3       | 4,246.9                 | 0.00                    | 0.00                   | 0.00                  |
| 16,700.0              | 90.00           | 359.58      | 12,457.0              | 4,324.5      | -442.1       | 4,346.6                 | 0.00                    | 0.00                   | 0.00                  |
| 16,800.0              | 90.00           | 359.58      | 12,457.0              | 4,424.5      | -442.8       | 4,446.3                 | 0.00                    | 0.00                   | 0.00                  |
| 16,900.0              | 90.00           | 359.58      | 12,457.0              | 4,524.5      | -443.5       | 4,546.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,000.0              | 90.00           | 359.58      | 12,457.0              | 4,624.5      | -444.3       | 4,645.6                 | 0.00                    | 0.00                   | 0.00                  |
| 17,100.0              | 90.00           | 359.58      | 12,457.0              | 4,724.5      | -445.0       | 4,745.3                 | 0.00                    | 0.00                   | 0.00                  |
| 17,200.0              | 90.00           | 359.58      | 12,457.0              | 4,824.5      | -445.7       | 4,845.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,300.0              | 90.00           | 359.58      | 12,457.0              | 4,924.5      | -446.5       | 4,944.7                 | 0.00                    | 0.00                   | 0.00                  |
| 17,400.0              | 90.00           | 359.58      | 12,457.0              | 5,024.5      | -447.2       | 5,044.4                 | 0.00                    | 0.00                   | 0.00                  |
| 17,500.0              | 90.00           | 359.58      | 12,457.0              | 5,124.5      | -448.0       | 5,144.0                 | 0.00                    | 0.00                   | 0.00                  |
| 17,506.5              | 90.00           | 359.58      | 12,457.0              | 5,131.0      | -448.0       | 5,150.5                 | 0.00                    | 0.00                   | 0.00                  |

BHL: 330' FNL & 990' FEL, Sec 10

## Design Targets

| Target Name                                                                                                                                        | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude         |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|-------------------|
| SL: 185' FNL & 580' FEL<br>- hit/miss target<br>- Shape<br>- plan misses target center by 1.0usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)<br>- Point | 0.00          | 0.00         | 0.0        | 0.0          | -1.0         | 382,823.00      | 741,753.00     | 32° 3' 0.338 N  | 103° 33' 11.008 W |
| KOP @ 11500', Sec 15<br>- plan misses target center by 1.0usft at 11500.0usft MD (11500.0 TVD, 0.0 N, 0.0 E)<br>- Point                            | 0.00          | 0.00         | 11,500.0   | 0.0          | -1.0         | 382,823.00      | 741,753.00     | 32° 3' 0.338 N  | 103° 33' 11.008 W |
| LP/FTP: 330' FSL & 990<br>- plan hits target center<br>- Point                                                                                     | 0.00          | 0.00         | 12,457.0   | 512.0        | -414.0       | 383,335.00      | 741,340.00     | 32° 3' 5.434 N  | 103° 33' 15.763 W |
| BHL: 330' FNL & 990' FE<br>- plan hits target center<br>- Point                                                                                    | 0.00          | 0.00         | 12,457.0   | 5,131.0      | -448.0       | 387,954.00      | 741,306.00     | 32° 3' 51.145 N | 103° 33' 15.771 W |