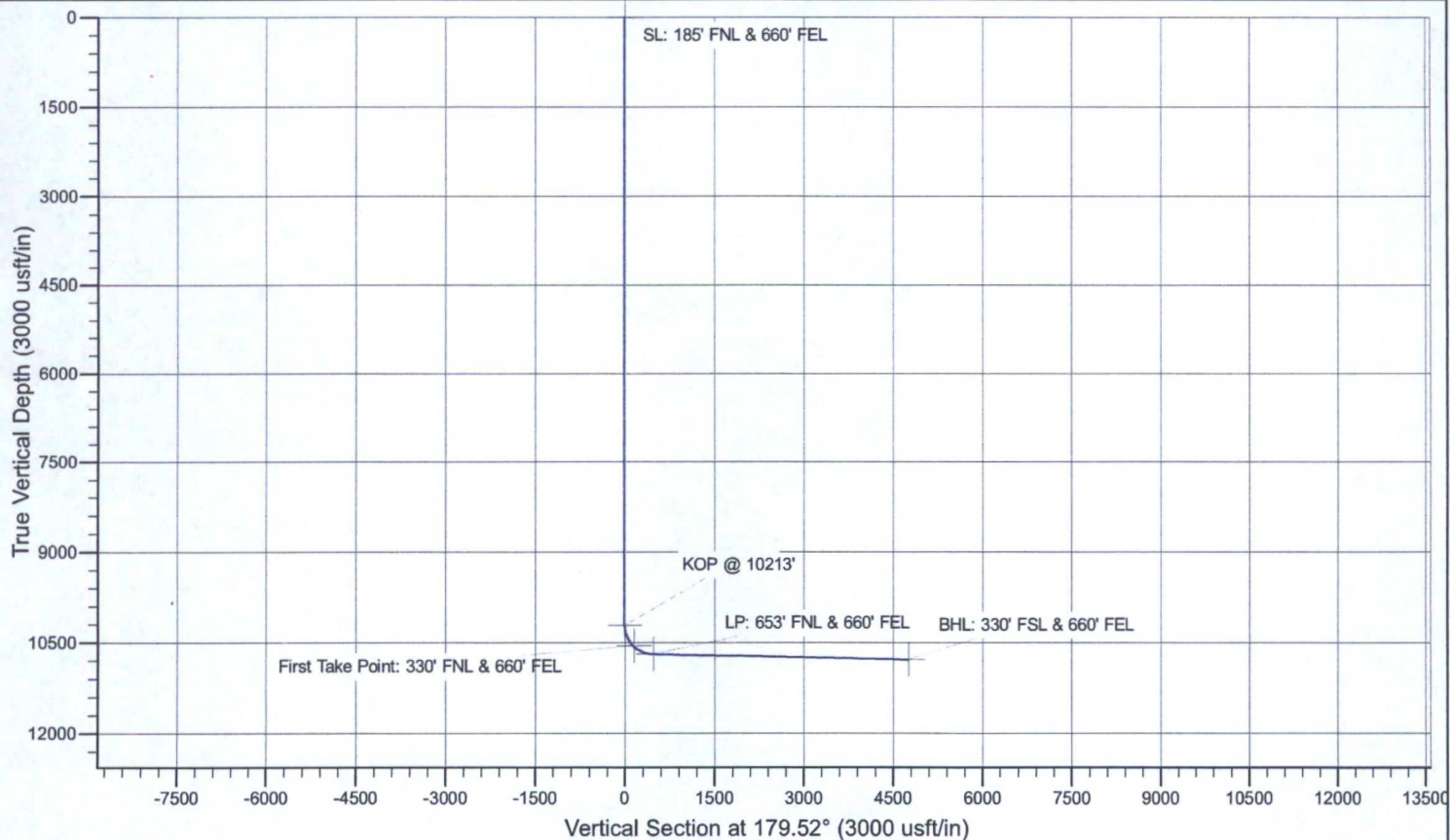
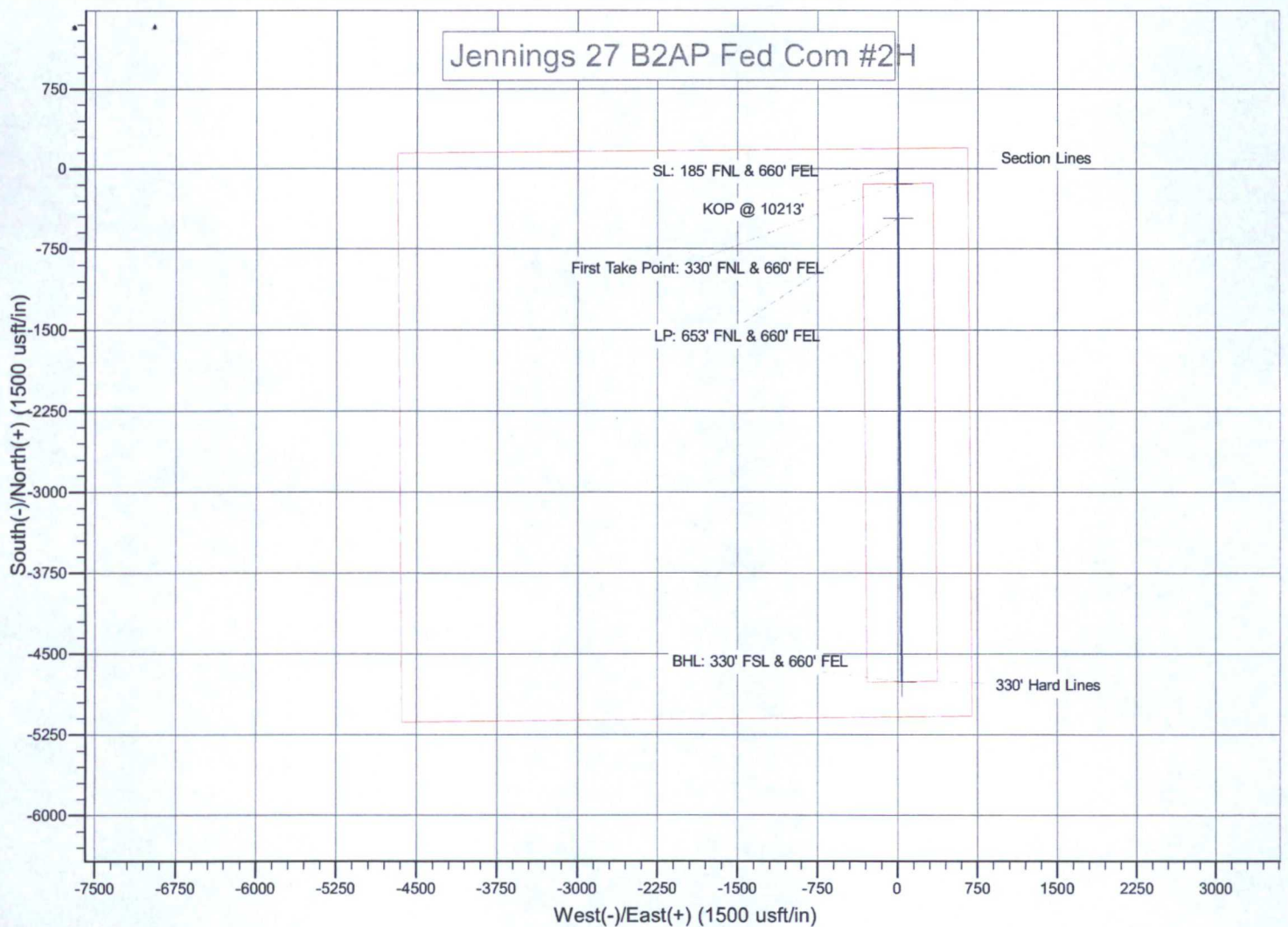


# Jennings 27 B2AP Fed Com #2H



# **Mewbourne Oil Company**

**Lea County, New Mexico**

**Jennings 27 B2AP Fed Com #2H**

**Sec 27, T25S, R32E**

**SL: 185' FNL & 660' FEL**

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

**Plan: Design #1**

## **Standard Planning Report**

**28 September, 2015**

# Planning Report

|                  |                              |                                     |                                        |
|------------------|------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Jennings 27 B2AP Fed Com #2H      |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | WELL @ 3427.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | WELL @ 3427.0usft (Original Well Elev) |
| <b>Site:</b>     | Jennings 27 B2AP Fed Com #2H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 27, T25S, R32E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 660' FEL     |                                     |                                        |
| <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>                  | Jennings 27 B2AP Fed Com #2H |                          |                   |
| <b>Site Position:</b>        |                              | <b>Northing:</b>         | 403,710.00 usft   |
| <b>From:</b>                 | Map                          | <b>Easting:</b>          | 709,750.00 usft   |
| <b>Position Uncertainty:</b> | 0.0 usft                     | <b>Slot Radius:</b>      | 13-3/16 "         |
|                              |                              | <b>Latitude:</b>         | 32° 6' 29.172 N   |
|                              |                              | <b>Longitude:</b>        | 103° 39' 21.311 W |
|                              |                              | <b>Grid Convergence:</b> | 0.36 °            |

|                             |                    |                            |                   |
|-----------------------------|--------------------|----------------------------|-------------------|
| <b>Well</b>                 | Sec 27, T25S, R32E |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>       | 0.0 usft                   | <b>Northing:</b>  |
|                             | <b>+E/-W</b>       | 0.0 usft                   | <b>Easting:</b>   |
| <b>Position Uncertainty</b> | 0.0 usft           | <b>Wellhead Elevation:</b> | 3,427.0 usft      |
|                             |                    | <b>Latitude:</b>           | 32° 6' 29.172 N   |
|                             |                    | <b>Longitude:</b>          | 103° 39' 21.311 W |
|                             |                    | <b>Ground Level:</b>       | 3,400.0 usft      |

|                  |                          |                    |                        |                      |                            |
|------------------|--------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | BHL: 330' FSL & 660' FEL |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>        | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010                 | 9/28/2015          | 7.09                   | 59.96                | 48,109                     |

|                          |                         |              |                      |                  |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| <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)</b> | <b>+N/-S</b> | <b>+E/-W</b>         | <b>Direction</b> |
|                          | (usft)                  | (usft)       | (usft)               | (°)              |
|                          | 0.0                     | 0.0          | 0.0                  | 179.52           |

|                      |                    |                |                 |               |               |               |              |             |            |                      |
|----------------------|--------------------|----------------|-----------------|---------------|---------------|---------------|--------------|-------------|------------|----------------------|
| <b>Plan Sections</b> |                    |                |                 |               |               |               |              |             |            |                      |
| <b>Measured</b>      | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b>  | <b>+E/-W</b>  | <b>Dogleg</b> | <b>Build</b> | <b>Turn</b> | <b>TFO</b> | <b>Target</b>        |
| <b>Depth</b>         | <b>(°)</b>         | <b>(°)</b>     | <b>Depth</b>    | <b>(usft)</b> | <b>(usft)</b> | <b>Rate</b>   | <b>Rate</b>  | <b>Rate</b> | <b>(°)</b> |                      |
| (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       |                      |
| 10,212.5             | 0.00               | 0.00           | 10,212.5        | 0.0           | 0.0           | 0.00          | 0.00         | 0.00        | 0.00       |                      |
| 10,953.0             | 88.84              | 179.52         | 10,690.0        | -467.9        | 3.9           | 12.00         | 12.00        | 0.00        | 179.52     |                      |
| 15,245.2             | 88.84              | 179.52         | 10,777.0        | -4,759.0      | 40.0          | 0.00          | 0.00         | 0.00        | 0.00       | BHL: 330' FSL & 660' |

# Planning Report

|                  |                              |                                     |                                        |
|------------------|------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Jennings 27 B2AP Fed Com #2H      |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | WELL @ 3427.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | WELL @ 3427.0usft (Original Well Elev) |
| <b>Site:</b>     | Jennings 27 B2AP Fed Com #2H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 27, T25S, R32E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 660' FEL     |                                     |                                        |
| <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) |
| 0.0                     | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| SL: 185' FNL & 660' 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

|                  |                              |                                     |                                        |
|------------------|------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Jennings 27 B2AP Fed Com #2H      |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | WELL @ 3427.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | WELL @ 3427.0usft (Original Well Elev) |
| <b>Site:</b>     | Jennings 27 B2AP Fed Com #2H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 27, T25S, R32E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 660' FEL     |                                     |                                        |
| <b>Design:</b>   | 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                        |  |
| 9,600.0                     | 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                        |  |
| 10,212.5                    | 0.00               | 0.00           | 10,212.5                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| <b>KOP @ 10213'</b>         |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 10,300.0                    | 10.49              | 179.52         | 10,299.5                    | -8.0            | 0.1             | 8.0                           | 12.00                         | 12.00                        | 0.00                        |  |

# Planning Report

|                  |                              |                                     |                                        |
|------------------|------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Jennings 27 B2AP Fed Com #2H      |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | WELL @ 3427.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | WELL @ 3427.0usft (Original Well Elev) |
| <b>Site:</b>     | Jennings 27 B2AP Fed Com #2H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 27, T25S, R32E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 660' FEL     |                                     |                                        |
| <b>Design:</b>   | 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) |
|--------------------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 10,400.0                                         | 22.49              | 179.52         | 10,395.2                    | -36.3           | 0.3             | 36.3                          | 12.00                         | 12.00                        | 0.00                        |
| 10,500.0                                         | 34.49              | 179.52         | 10,483.0                    | -83.9           | 0.7             | 83.9                          | 12.00                         | 12.00                        | 0.00                        |
| 10,594.8                                         | 45.87              | 179.52         | 10,555.3                    | -145.0          | 1.2             | 145.0                         | 12.00                         | 12.00                        | 0.00                        |
| <b>First Take Point: 330' FNL &amp; 660' FEL</b> |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 10,600.0                                         | 46.49              | 179.52         | 10,558.9                    | -148.7          | 1.3             | 148.7                         | 12.00                         | 12.00                        | 0.00                        |
| 10,700.0                                         | 58.48              | 179.52         | 10,619.7                    | -227.9          | 1.9             | 227.9                         | 12.00                         | 12.00                        | 0.00                        |
| 10,800.0                                         | 70.48              | 179.52         | 10,662.7                    | -318.0          | 2.7             | 318.0                         | 12.00                         | 12.00                        | 0.00                        |
| 10,900.0                                         | 82.48              | 179.52         | 10,686.0                    | -415.0          | 3.5             | 415.1                         | 12.00                         | 12.00                        | 0.00                        |
| 10,953.0                                         | 88.84              | 179.52         | 10,690.0                    | -467.9          | 3.9             | 467.9                         | 11.99                         | 11.99                        | 0.00                        |
| <b>LP: 653' FNL &amp; 660' FEL</b>               |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 11,000.0                                         | 88.84              | 179.52         | 10,691.0                    | -514.8          | 4.3             | 514.9                         | 0.00                          | 0.00                         | 0.00                        |
| 11,100.0                                         | 88.84              | 179.52         | 10,693.0                    | -614.8          | 5.2             | 614.8                         | 0.00                          | 0.00                         | 0.00                        |
| 11,200.0                                         | 88.84              | 179.52         | 10,695.0                    | -714.8          | 6.0             | 714.8                         | 0.00                          | 0.00                         | 0.00                        |
| 11,300.0                                         | 88.84              | 179.52         | 10,697.0                    | -814.8          | 6.8             | 814.8                         | 0.00                          | 0.00                         | 0.00                        |
| 11,400.0                                         | 88.84              | 179.52         | 10,699.1                    | -914.7          | 7.7             | 914.8                         | 0.00                          | 0.00                         | 0.00                        |
| 11,500.0                                         | 88.84              | 179.52         | 10,701.1                    | -1,014.7        | 8.5             | 1,014.8                       | 0.00                          | 0.00                         | 0.00                        |
| 11,600.0                                         | 88.84              | 179.52         | 10,703.1                    | -1,114.7        | 9.4             | 1,114.7                       | 0.00                          | 0.00                         | 0.00                        |
| 11,700.0                                         | 88.84              | 179.52         | 10,705.1                    | -1,214.7        | 10.2            | 1,214.7                       | 0.00                          | 0.00                         | 0.00                        |
| 11,800.0                                         | 88.84              | 179.52         | 10,707.2                    | -1,314.7        | 11.0            | 1,314.7                       | 0.00                          | 0.00                         | 0.00                        |
| 11,900.0                                         | 88.84              | 179.52         | 10,709.2                    | -1,414.6        | 11.9            | 1,414.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,000.0                                         | 88.84              | 179.52         | 10,711.2                    | -1,514.6        | 12.7            | 1,514.7                       | 0.00                          | 0.00                         | 0.00                        |
| 12,100.0                                         | 88.84              | 179.52         | 10,713.2                    | -1,614.6        | 13.6            | 1,614.6                       | 0.00                          | 0.00                         | 0.00                        |
| 12,200.0                                         | 88.84              | 179.52         | 10,715.3                    | -1,714.6        | 14.4            | 1,714.6                       | 0.00                          | 0.00                         | 0.00                        |
| 12,300.0                                         | 88.84              | 179.52         | 10,717.3                    | -1,814.5        | 15.3            | 1,814.6                       | 0.00                          | 0.00                         | 0.00                        |
| 12,400.0                                         | 88.84              | 179.52         | 10,719.3                    | -1,914.5        | 16.1            | 1,914.6                       | 0.00                          | 0.00                         | 0.00                        |
| 12,500.0                                         | 88.84              | 179.52         | 10,721.4                    | -2,014.5        | 16.9            | 2,014.6                       | 0.00                          | 0.00                         | 0.00                        |
| 12,600.0                                         | 88.84              | 179.52         | 10,723.4                    | -2,114.5        | 17.8            | 2,114.5                       | 0.00                          | 0.00                         | 0.00                        |
| 12,700.0                                         | 88.84              | 179.52         | 10,725.4                    | -2,214.4        | 18.6            | 2,214.5                       | 0.00                          | 0.00                         | 0.00                        |
| 12,800.0                                         | 88.84              | 179.52         | 10,727.4                    | -2,314.4        | 19.5            | 2,314.5                       | 0.00                          | 0.00                         | 0.00                        |
| 12,900.0                                         | 88.84              | 179.52         | 10,729.5                    | -2,414.4        | 20.3            | 2,414.5                       | 0.00                          | 0.00                         | 0.00                        |
| 13,000.0                                         | 88.84              | 179.52         | 10,731.5                    | -2,514.4        | 21.1            | 2,514.5                       | 0.00                          | 0.00                         | 0.00                        |
| 13,100.0                                         | 88.84              | 179.52         | 10,733.5                    | -2,614.3        | 22.0            | 2,614.4                       | 0.00                          | 0.00                         | 0.00                        |
| 13,200.0                                         | 88.84              | 179.52         | 10,735.5                    | -2,714.3        | 22.8            | 2,714.4                       | 0.00                          | 0.00                         | 0.00                        |
| 13,300.0                                         | 88.84              | 179.52         | 10,737.6                    | -2,814.3        | 23.7            | 2,814.4                       | 0.00                          | 0.00                         | 0.00                        |
| 13,400.0                                         | 88.84              | 179.52         | 10,739.6                    | -2,914.3        | 24.5            | 2,914.4                       | 0.00                          | 0.00                         | 0.00                        |
| 13,500.0                                         | 88.84              | 179.52         | 10,741.6                    | -3,014.2        | 25.3            | 3,014.3                       | 0.00                          | 0.00                         | 0.00                        |
| 13,600.0                                         | 88.84              | 179.52         | 10,743.7                    | -3,114.2        | 26.2            | 3,114.3                       | 0.00                          | 0.00                         | 0.00                        |
| 13,700.0                                         | 88.84              | 179.52         | 10,745.7                    | -3,214.2        | 27.0            | 3,214.3                       | 0.00                          | 0.00                         | 0.00                        |
| 13,800.0                                         | 88.84              | 179.52         | 10,747.7                    | -3,314.2        | 27.9            | 3,314.3                       | 0.00                          | 0.00                         | 0.00                        |
| 13,900.0                                         | 88.84              | 179.52         | 10,749.7                    | -3,414.1        | 28.7            | 3,414.3                       | 0.00                          | 0.00                         | 0.00                        |
| 14,000.0                                         | 88.84              | 179.52         | 10,751.8                    | -3,514.1        | 29.5            | 3,514.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,100.0                                         | 88.84              | 179.52         | 10,753.8                    | -3,614.1        | 30.4            | 3,614.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,200.0                                         | 88.84              | 179.52         | 10,755.8                    | -3,714.1        | 31.2            | 3,714.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,300.0                                         | 88.84              | 179.52         | 10,757.8                    | -3,814.0        | 32.1            | 3,814.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,400.0                                         | 88.84              | 179.52         | 10,759.9                    | -3,914.0        | 32.9            | 3,914.2                       | 0.00                          | 0.00                         | 0.00                        |
| 14,500.0                                         | 88.84              | 179.52         | 10,761.9                    | -4,014.0        | 33.7            | 4,014.1                       | 0.00                          | 0.00                         | 0.00                        |
| 14,600.0                                         | 88.84              | 179.52         | 10,763.9                    | -4,114.0        | 34.6            | 4,114.1                       | 0.00                          | 0.00                         | 0.00                        |
| 14,700.0                                         | 88.84              | 179.52         | 10,765.9                    | -4,214.0        | 35.4            | 4,214.1                       | 0.00                          | 0.00                         | 0.00                        |
| 14,800.0                                         | 88.84              | 179.52         | 10,768.0                    | -4,313.9        | 36.3            | 4,314.1                       | 0.00                          | 0.00                         | 0.00                        |
| 14,900.0                                         | 88.84              | 179.52         | 10,770.0                    | -4,413.9        | 37.1            | 4,414.1                       | 0.00                          | 0.00                         | 0.00                        |
| 15,000.0                                         | 88.84              | 179.52         | 10,772.0                    | -4,513.9        | 37.9            | 4,514.0                       | 0.00                          | 0.00                         | 0.00                        |
| 15,100.0                                         | 88.84              | 179.52         | 10,774.1                    | -4,613.9        | 38.8            | 4,614.0                       | 0.00                          | 0.00                         | 0.00                        |
| 15,200.0                                         | 88.84              | 179.52         | 10,776.1                    | -4,713.8        | 39.6            | 4,714.0                       | 0.00                          | 0.00                         | 0.00                        |
| 15,245.2                                         | 88.84              | 179.52         | 10,777.0                    | -4,759.0        | 40.0            | 4,759.2                       | 0.00                          | 0.00                         | 0.00                        |

# Planning Report

|                  |                              |                                     |                                        |
|------------------|------------------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Jennings 27 B2AP Fed Com #2H      |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | WELL @ 3427.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | WELL @ 3427.0usft (Original Well Elev) |
| <b>Site:</b>     | Jennings 27 B2AP Fed Com #2H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 27, T25S, R32E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 660' FEL     |                                     |                                        |
| <b>Design:</b>   | 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) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| BHL: 330' FSL & 660' FEL    |                    |                |                             |                 |                 |                               |                               |                              |                             |

## 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: 185' FNL & 660' FEL<br>- plan hits target center<br>- Point   | 0.00             | 0.00            | 0.0           | 0.0             | 0.0             | 403,710.00         | 709,750.00        | 32° 6' 29.172 N | 103° 39' 21.311 W |
| KOP @ 10213'<br>- plan hits target center<br>- Point              | 0.00             | 0.00            | 10,212.5      | 0.0             | 0.0             | 403,710.00         | 709,750.00        | 32° 6' 29.172 N | 103° 39' 21.311 W |
| First Take Point: 330' FN<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 10,555.3      | -145.0          | 1.2             | 403,565.00         | 709,751.21        | 32° 6' 27.737 N | 103° 39' 21.308 W |
| LP: 653' FNL & 660' FEL<br>- plan hits target center<br>- Point   | 0.00             | 0.00            | 10,690.0      | -467.9          | 3.9             | 403,242.10         | 709,753.90        | 32° 6' 24.541 N | 103° 39' 21.300 W |
| BHL: 330' FSL & 660' FE<br>- plan hits target center<br>- Point   | 0.00             | 0.00            | 10,777.0      | -4,759.0        | 40.0            | 398,951.00         | 709,790.00        | 32° 5' 42.075 N | 103° 39' 21.194 W |