

**HOBBS OIL COMPANY**  
**RECEIVED**  
 JUN 17 2018

COMPANY: Mewbourne Oil Company  
 WELL: Gazelle 22 B2MD Fed Com #2H  
 COUNTY: Lea County N. M. (83)  
 DATUM: North American Datum 1983  
 RIG: Patterson 250



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.34°

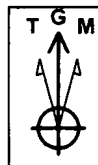
GEODEIC ZONE: New Mexico Eastern Zone  
 3491 + 27 @ 3518.0usft (Patterson 250)  
 GROUND ELEVATION: 3491.0

| +N/-S | +E/-W | Northing  | Easting   | Latitude        | Longitude         | Slot |
|-------|-------|-----------|-----------|-----------------|-------------------|------|
| 0.0   | 0.0   | 467921.70 | 810014.80 | 32° 17' 0.232 N | 103° 27' 50.143 W |      |

PLAN SECTIONS

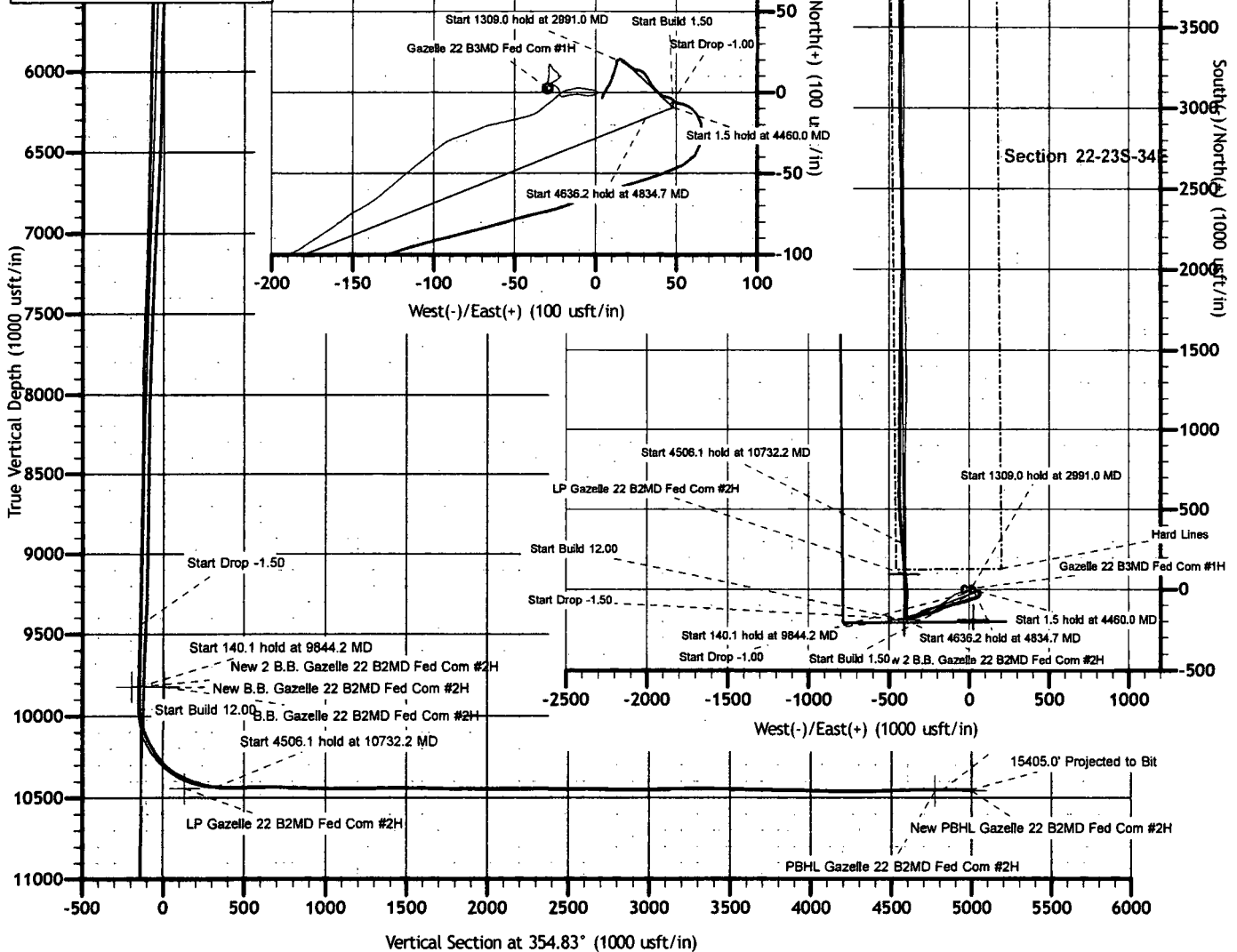
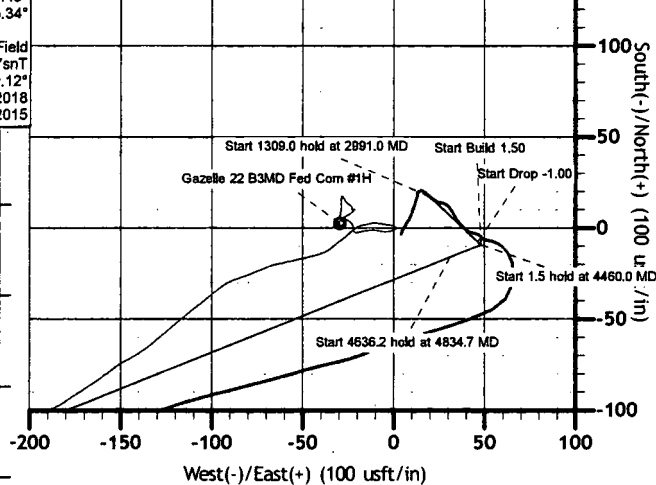
| Sec | MD      | Inc   | Azi    | TVD     | +N/-S  | +E/-W  | Dleg  | TFace  | Vsect  | Target                                 |
|-----|---------|-------|--------|---------|--------|--------|-------|--------|--------|----------------------------------------|
| 1   | 2991.0  | 1.60  | 133.00 | 2990.6  | 17.4   | 19.7   | 0.00  | 0.00   | 15.6   |                                        |
| 2   | 4300.0  | 1.60  | 133.00 | 4299.1  | -7.5   | 46.4   | 0.00  | 0.00   | -11.7  |                                        |
| 3   | 4460.0  | 0.00  | 0.00   | 4459.1  | -9.0   | 48.0   | 1.00  | 180.00 | -13.3  |                                        |
| 4   | 4461.5  | 0.00  | 0.00   | 4460.6  | -9.0   | 48.0   | 0.00  | 0.00   | -13.3  |                                        |
| 5   | 4834.7  | 5.60  | 248.27 | 4833.2  | -15.8  | 31.1   | 1.50  | 248.27 | -18.5  |                                        |
| 6   | 9471.0  | 5.60  | 248.27 | 9447.4  | -183.3 | -389.1 | 0.00  | 0.00   | -147.5 |                                        |
| 7   | 9844.2  | 0.00  | 0.00   | 9820.0  | -190.0 | -406.0 | 1.50  | 180.00 | -152.7 | New 2 B.B. Gazelle 22 B2MD Fed Com #2H |
| 8   | 9984.3  | 0.00  | 0.00   | 9960.1  | -190.0 | -406.0 | 0.00  | 0.00   | -152.7 |                                        |
| 9   | 10732.2 | 89.74 | 359.51 | 10437.6 | 285.3  | -410.1 | 12.00 | 359.51 | 321.0  |                                        |
| 10  | 15238.2 | 89.74 | 359.51 | 10458.0 | 4791.2 | -448.6 | 0.00  | 0.00   | 4812.1 | PBHL Gazelle 22 B2MD Fed Com #2H       |
| 11  | 15426.3 | 89.74 | 359.51 | 10458.9 | 4979.2 | -450.2 | 0.00  | 0.00   | 4999.5 | New PBHL Gazelle 22 B2MD Fed Com #2H   |

SHL: 200' FSL; 786' FWL  
 Section 22-23S-34E  
 PBHL: 330' FNL; 380' FWL  
 Section 22-23S-34E



Azimuths to Grid North  
 True North: -0.46°  
 Magnetic North: 6.34°  
 Magnetic Field  
 Strength: 47887.7snT  
 Dip Angle: 60.12°  
 Date: 5/25/2018  
 Model: IGRF2015

Section 22-23S-34E



Vertical Section at 354.83° (1000 usft/in)



# **Mewbourne Oil Company**

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

**Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H**

**Gazelle 22 B2MD Fed Com #2H**

**Original Hole**

**Design: Original Hole**

## **Standard Survey Report**

**23 July, 2018**



|                  |                                                |                                     |                                        |
|------------------|------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                          | <b>Local Co-ordinate Reference:</b> | Well Gazelle 22 B2MD Fed Com #2H       |
| <b>Project:</b>  | Lea County N. M. Nad (83)                      | <b>TVD Reference:</b>               | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Site:</b>     | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H | <b>MD Reference:</b>                | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Well:</b>     | Gazelle 22 B2MD Fed Com #2H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                  | <b>Database:</b>                    | Stryker_EDM                            |

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

|                              |          |                                                |                 |                          |                   |
|------------------------------|----------|------------------------------------------------|-----------------|--------------------------|-------------------|
| <b>Site</b>                  |          | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H |                 |                          |                   |
| <b>Site Position:</b>        |          | <b>Northing:</b>                               | 467,921.70 usft | <b>Latitude:</b>         | 32° 17' 0.232 N   |
| <b>From:</b>                 | Map      | <b>Easting:</b>                                | 810,014.80 usft | <b>Longitude:</b>        | 103° 27' 50.143 W |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b>                            | 13-3/16 "       | <b>Grid Convergence:</b> | 0.46 °            |

|                      |                             |          |                     |                 |               |                   |
|----------------------|-----------------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well                 | Gazelle 22 B2MD Fed Com #2H |          |                     |                 |               |                   |
| Well Position        | +N/-S                       | 0.0 usft | Northing:           | 467,921.70 usft | Latitude:     | 32° 17' 0.232 N   |
|                      | +E/-W                       | 0.0 usft | Easting:            | 810,014.80 usft | Longitude:    | 103° 27' 50.143 W |
| Position Uncertainty |                             | 0.0 usft | Wellhead Elevation: | 27.0 usft       | Ground Level: | 3,491.0 usft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Original Hole     |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 5/25/2018          | 6.81                   | 60.12                | 47,887.72336472            |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <b>Design</b>            | Original Hole                  |                     |                     |                      |     |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |     |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |     |
|                          | 0.0                            | 0.0                 | 0.0                 | 33.42                |     |

|                       |                       |                           |                  |                             |  |
|-----------------------|-----------------------|---------------------------|------------------|-----------------------------|--|
| <b>Survey Program</b> | <b>Date</b> 7/23/2018 |                           |                  |                             |  |
| <b>From (usft)</b>    | <b>To (usft)</b>      | <b>Survey (Wellbore)</b>  | <b>Tool Name</b> | <b>Description</b>          |  |
| 1,124.0               | 15,405.0              | Survey #1 (Original Hole) | MWD              | MWD v3:standard declination |  |

| 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) |  |
| 925.0                 | 0.37            | 2.79        | 925.0                 | -3.3         | 4.0          | -0.5                    | 0.00                    | 0.00                   | 0.00                  |  |
| 1,124.0               | 1.10            | 28.10       | 1,124.0               | -0.9         | 5.0          | 1.9                     | 0.39                    | 0.37                   | 12.72                 |  |
| 1,217.0               | 1.10            | 32.20       | 1,216.9               | 0.6          | 5.8          | 3.7                     | 0.08                    | 0.00                   | 4.41                  |  |
| 1,311.0               | 1.10            | 32.40       | 1,310.9               | 2.1          | 6.8          | 5.5                     | 0.00                    | 0.00                   | 0.21                  |  |
| 1,404.0               | 1.20            | 31.70       | 1,403.9               | 3.7          | 7.8          | 7.4                     | 0.11                    | 0.11                   | -0.75                 |  |
| 1,498.0               | 1.30            | 23.20       | 1,497.9               | 5.5          | 8.7          | 9.4                     | 0.22                    | 0.11                   | -9.04                 |  |
| 1,591.0               | 1.30            | 22.80       | 1,590.9               | 7.5          | 9.6          | 11.5                    | 0.01                    | 0.00                   | -0.43                 |  |
| 1,685.0               | 1.40            | 20.40       | 1,684.8               | 9.5          | 10.4         | 13.7                    | 0.12                    | 0.11                   | -2.55                 |  |
| 1,778.0               | 1.70            | 18.20       | 1,777.8               | 11.9         | 11.2         | 16.1                    | 0.33                    | 0.32                   | -2.37                 |  |
| 1,871.0               | 1.70            | 18.80       | 1,870.8               | 14.5         | 12.1         | 18.8                    | 0.02                    | 0.00                   | 0.65                  |  |

|                  |                                                |                                     |                                        |
|------------------|------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                          | <b>Local Co-ordinate Reference:</b> | Well Gazelle 22 B2MD Fed Com #2H       |
| <b>Project:</b>  | Lea County N. M. Nad (83)                      | <b>TVD Reference:</b>               | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Site:</b>     | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H | <b>MD Reference:</b>                | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Well:</b>     | Gazelle 22 B2MD Fed Com #2H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                  | <b>Database:</b>                    | Stryker_EDM                            |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 1,965.0               | 2.00            | 12.80       | 1,964.7               | 17.4         | 12.9         | 21.7                    | 0.38                    | 0.32                   | -6.38                 |
| 2,058.0               | 0.70            | 13.20       | 2,057.7               | 19.6         | 13.4         | 23.7                    | 1.40                    | -1.40                  | 0.43                  |
| 2,152.0               | 0.20            | 240.00      | 2,151.7               | 20.1         | 13.4         | 24.1                    | 0.90                    | -0.53                  | -141.70               |
| 2,245.0               | 0.30            | 224.10      | 2,244.7               | 19.8         | 13.1         | 23.7                    | 0.13                    | 0.11                   | -17.10                |
| 2,338.0               | 0.00            | 146.00      | 2,337.7               | 19.6         | 12.9         | 23.5                    | 0.32                    | -0.32                  | 0.00                  |
| 2,431.0               | 0.30            | 51.50       | 2,430.7               | 19.8         | 13.1         | 23.7                    | 0.32                    | 0.32                   | 0.00                  |
| 2,525.0               | 0.50            | 64.10       | 2,524.7               | 20.1         | 13.6         | 24.3                    | 0.23                    | 0.21                   | 13.40                 |
| 2,618.0               | 0.50            | 60.60       | 2,617.7               | 20.5         | 14.4         | 25.0                    | 0.03                    | 0.00                   | -3.76                 |
| 2,712.0               | 0.60            | 73.00       | 2,711.7               | 20.8         | 15.2         | 25.7                    | 0.16                    | 0.11                   | 13.19                 |
| 2,805.0               | 1.10            | 127.60      | 2,804.7               | 20.4         | 16.4         | 26.1                    | 0.96                    | 0.54                   | 58.71                 |
| 2,898.0               | 1.40            | 134.10      | 2,897.6               | 19.1         | 17.9         | 25.8                    | 0.36                    | 0.32                   | 6.99                  |
| 2,991.0               | 1.60            | 133.00      | 2,990.6               | 17.4         | 19.7         | 25.4                    | 0.22                    | 0.22                   | -1.18                 |
| 3,085.0               | 2.20            | 123.80      | 3,084.6               | 15.5         | 22.1         | 25.1                    | 0.71                    | 0.64                   | -9.79                 |
| 3,178.0               | 1.70            | 104.60      | 3,177.5               | 14.2         | 24.9         | 25.6                    | 0.88                    | -0.54                  | -20.65                |
| 3,272.0               | 1.60            | 90.00       | 3,271.5               | 13.8         | 27.6         | 26.7                    | 0.46                    | -0.11                  | -15.53                |
| 3,365.0               | 2.30            | 139.90      | 3,364.4               | 12.4         | 30.1         | 26.9                    | 1.90                    | 0.75                   | 53.66                 |
| 3,459.0               | 3.10            | 153.50      | 3,458.3               | 8.7          | 32.4         | 25.1                    | 1.08                    | 0.85                   | 14.47                 |
| 3,552.0               | 2.40            | 146.10      | 3,551.2               | 4.8          | 34.6         | 23.1                    | 0.84                    | -0.75                  | -7.96                 |
| 3,646.0               | 2.20            | 131.10      | 3,645.1               | 2.0          | 37.1         | 22.1                    | 0.67                    | -0.21                  | -15.96                |
| 3,739.0               | 2.70            | 130.40      | 3,738.0               | -0.6         | 40.1         | 21.6                    | 0.54                    | 0.54                   | -0.75                 |
| 3,833.0               | 2.50            | 102.40      | 3,832.0               | -2.5         | 43.8         | 22.1                    | 1.35                    | -0.21                  | -29.79                |
| 3,926.0               | 1.40            | 113.80      | 3,924.9               | -3.4         | 46.8         | 23.0                    | 1.25                    | -1.18                  | 12.26                 |
| 4,019.0               | 0.60            | 158.90      | 4,017.9               | -4.3         | 48.0         | 22.9                    | 1.15                    | -0.86                  | 48.49                 |
| 4,113.0               | 0.70            | 140.20      | 4,111.9               | -5.2         | 48.6         | 22.4                    | 0.25                    | 0.11                   | -19.89                |
| 4,206.0               | 1.20            | 108.40      | 4,204.9               | -5.9         | 49.9         | 22.5                    | 0.76                    | 0.54                   | -34.19                |
| 4,300.0               | 2.40            | 102.30      | 4,298.8               | -6.7         | 52.7         | 23.5                    | 1.29                    | 1.28                   | -6.49                 |
| 4,393.0               | 3.20            | 113.70      | 4,391.7               | -8.1         | 57.0         | 24.6                    | 1.04                    | 0.86                   | 12.26                 |
| 4,486.0               | 4.80            | 140.70      | 4,484.5               | -12.2        | 61.9         | 23.9                    | 2.61                    | 1.72                   | 29.03                 |
| 4,580.0               | 5.90            | 167.00      | 4,578.1               | -19.9        | 65.4         | 19.4                    | 2.83                    | 1.17                   | 27.98                 |
| 4,673.0               | 6.60            | 190.10      | 4,670.5               | -29.8        | 65.6         | 11.2                    | 2.79                    | 0.75                   | 24.84                 |
| 4,767.0               | 5.70            | 219.70      | 4,764.0               | -38.8        | 61.6         | 1.6                     | 3.46                    | -0.96                  | 31.49                 |
| 4,860.0               | 6.30            | 243.60      | 4,856.5               | -44.6        | 54.1         | -7.4                    | 2.74                    | 0.65                   | 25.70                 |
| 4,964.0               | 7.30            | 250.10      | 4,959.8               | -49.4        | 42.8         | -17.6                   | 1.21                    | 0.96                   | 6.25                  |
| 5,044.0               | 7.60            | 251.10      | 5,039.1               | -52.8        | 33.0         | -25.9                   | 0.41                    | 0.38                   | 1.25                  |
| 5,138.0               | 5.90            | 255.60      | 5,132.5               | -56.0        | 22.4         | -34.4                   | 1.89                    | -1.81                  | 4.79                  |
| 5,231.0               | 5.80            | 252.80      | 5,225.0               | -58.6        | 13.3         | -41.6                   | 0.33                    | -0.11                  | -3.01                 |
| 5,325.0               | 6.40            | 253.70      | 5,318.5               | -61.5        | 3.8          | -49.2                   | 0.65                    | 0.64                   | 0.96                  |
| 5,418.0               | 6.20            | 247.50      | 5,410.9               | -64.9        | -5.9         | -57.4                   | 0.76                    | -0.22                  | -6.67                 |
| 5,511.0               | 5.10            | 249.40      | 5,503.4               | -68.2        | -14.4        | -64.9                   | 1.20                    | -1.18                  | 2.04                  |
| 5,605.0               | 4.60            | 251.60      | 5,597.1               | -70.9        | -21.8        | -71.2                   | 0.57                    | -0.53                  | 2.34                  |
| 5,698.0               | 4.70            | 257.50      | 5,689.8               | -72.9        | -29.1        | -76.9                   | 0.53                    | 0.11                   | 6.34                  |
| 5,791.0               | 4.60            | 256.40      | 5,782.5               | -74.6        | -36.5        | -82.3                   | 0.14                    | -0.11                  | -1.18                 |

|                  |                                                |                                     |                                        |
|------------------|------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                          | <b>Local Co-ordinate Reference:</b> | Well Gazelle 22 B2MD Fed Com #2H       |
| <b>Project:</b>  | Lea County N. M. Nad (83)                      | <b>TVD Reference:</b>               | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Site:</b>     | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H | <b>MD Reference:</b>                | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Well:</b>     | Gazelle 22 B2MD Fed Com #2H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                  | <b>Database:</b>                    | Stryker_EDM                            |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,886.0               | 5.10            | 255.80      | 5,877.2               | -76.5        | -44.2        | -88.2                   | 0.53                    | 0.53                   | -0.63                 |
| 5,980.0               | 5.10            | 252.90      | 5,970.8               | -78.8        | -52.3        | -94.6                   | 0.27                    | 0.00                   | -3.09                 |
| 6,073.0               | 5.40            | 255.30      | 6,063.4               | -81.1        | -60.5        | -101.0                  | 0.40                    | 0.32                   | 2.58                  |
| 6,166.0               | 5.80            | 255.40      | 6,155.9               | -83.4        | -69.3        | -107.8                  | 0.43                    | 0.43                   | 0.11                  |
| 6,260.0               | 5.90            | 255.00      | 6,249.5               | -85.9        | -78.5        | -114.9                  | 0.11                    | 0.11                   | -0.43                 |
| 6,353.0               | 6.30            | 256.00      | 6,341.9               | -88.3        | -88.1        | -122.2                  | 0.45                    | 0.43                   | 1.08                  |
| 6,447.0               | 6.30            | 255.60      | 6,435.4               | -90.9        | -98.1        | -129.9                  | 0.05                    | 0.00                   | -0.43                 |
| 6,540.0               | 6.40            | 255.30      | 6,527.8               | -93.4        | -108.0       | -137.5                  | 0.11                    | 0.11                   | -0.32                 |
| 6,634.0               | 6.10            | 252.30      | 6,621.2               | -96.3        | -117.9       | -145.3                  | 0.47                    | -0.32                  | -3.19                 |
| 6,727.0               | 6.10            | 250.70      | 6,713.7               | -99.4        | -127.2       | -153.1                  | 0.18                    | 0.00                   | -1.72                 |
| 6,820.0               | 4.40            | 254.10      | 6,806.3               | -102.0       | -135.3       | -159.7                  | 1.86                    | -1.83                  | 3.66                  |
| 6,914.0               | 3.90            | 259.40      | 6,900.1               | -103.6       | -141.9       | -164.7                  | 0.67                    | -0.53                  | 5.64                  |
| 7,007.0               | 5.40            | 255.20      | 6,992.8               | -105.3       | -149.3       | -170.1                  | 1.65                    | 1.61                   | -4.52                 |
| 7,100.0               | 6.00            | 252.20      | 7,085.3               | -107.9       | -158.1       | -177.2                  | 0.72                    | 0.65                   | -3.23                 |
| 7,193.0               | 6.10            | 249.60      | 7,177.8               | -111.1       | -167.4       | -184.9                  | 0.31                    | 0.11                   | -2.80                 |
| 7,287.0               | 6.20            | 248.20      | 7,271.2               | -114.7       | -176.8       | -193.1                  | 0.19                    | 0.11                   | -1.49                 |
| 7,380.0               | 5.80            | 243.80      | 7,363.7               | -118.7       | -185.7       | -201.3                  | 0.66                    | -0.43                  | -4.73                 |
| 7,473.0               | 6.00            | 242.30      | 7,456.2               | -123.0       | -194.2       | -209.6                  | 0.27                    | 0.22                   | -1.61                 |
| 7,566.0               | 5.30            | 243.60      | 7,548.8               | -127.2       | -202.3       | -217.6                  | 0.77                    | -0.75                  | 1.40                  |
| 7,659.0               | 5.20            | 240.20      | 7,641.4               | -131.2       | -209.9       | -225.1                  | 0.35                    | -0.11                  | -3.66                 |
| 7,752.0               | 4.80            | 242.30      | 7,734.0               | -135.1       | -217.0       | -232.2                  | 0.47                    | -0.43                  | 2.26                  |
| 7,844.0               | 3.80            | 249.70      | 7,825.8               | -137.9       | -223.2       | -238.1                  | 1.24                    | -1.09                  | 8.04                  |
| 7,937.0               | 3.40            | 251.30      | 7,918.6               | -139.9       | -228.7       | -242.7                  | 0.44                    | -0.43                  | 1.72                  |
| 8,031.0               | 3.40            | 254.50      | 8,012.4               | -141.5       | -234.0       | -247.0                  | 0.20                    | 0.00                   | 3.40                  |
| 8,124.0               | 3.70            | 258.30      | 8,105.3               | -142.9       | -239.6       | -251.2                  | 0.41                    | 0.32                   | 4.09                  |
| 8,218.0               | 4.30            | 261.00      | 8,199.0               | -144.0       | -246.1       | -255.8                  | 0.67                    | 0.64                   | 2.87                  |
| 8,311.0               | 4.80            | 259.60      | 8,291.7               | -145.3       | -253.4       | -260.8                  | 0.55                    | 0.54                   | -1.51                 |
| 8,404.0               | 6.10            | 255.10      | 8,384.3               | -147.3       | -262.0       | -267.2                  | 1.47                    | 1.40                   | -4.84                 |
| 8,497.0               | 5.70            | 255.30      | 8,476.8               | -149.7       | -271.2       | -274.3                  | 0.43                    | -0.43                  | 0.22                  |
| 8,590.0               | 4.70            | 258.10      | 8,569.4               | -151.7       | -279.4       | -280.5                  | 1.11                    | -1.08                  | 3.01                  |
| 8,683.0               | 4.70            | 261.00      | 8,662.1               | -153.0       | -286.9       | -285.7                  | 0.26                    | 0.00                   | 3.12                  |
| 8,776.0               | 5.90            | 255.00      | 8,754.7               | -154.9       | -295.3       | -291.9                  | 1.42                    | 1.29                   | -6.45                 |
| 8,870.0               | 4.70            | 254.70      | 8,848.3               | -157.1       | -303.7       | -298.4                  | 1.28                    | -1.28                  | -0.32                 |
| 8,963.0               | 4.90            | 239.80      | 8,941.0               | -160.2       | -310.8       | -304.8                  | 1.35                    | 0.22                   | -16.02                |
| 9,056.0               | 4.80            | 253.60      | 9,033.7               | -163.2       | -317.9       | -311.4                  | 1.26                    | -0.11                  | 14.84                 |
| 9,149.0               | 5.90            | 254.50      | 9,126.3               | -165.6       | -326.3       | -317.9                  | 1.19                    | 1.18                   | 0.97                  |
| 9,243.0               | 7.90            | 257.30      | 9,219.6               | -168.3       | -337.2       | -326.2                  | 2.16                    | 2.13                   | 2.98                  |
| 9,336.0               | 8.70            | 259.10      | 9,311.6               | -171.1       | -350.4       | -335.7                  | 0.90                    | 0.86                   | 1.94                  |
| 9,429.0               | 6.20            | 266.80      | 9,403.8               | -172.7       | -362.3       | -343.7                  | 2.89                    | -2.69                  | 8.28                  |
| 9,522.0               | 5.00            | 245.80      | 9,496.4               | -174.6       | -371.0       | -350.1                  | 2.53                    | -1.29                  | -22.58                |
| 9,616.0               | 3.60            | 247.20      | 9,590.1               | -177.4       | -377.5       | -356.0                  | 1.49                    | -1.49                  | 1.49                  |
| 9,709.0               | 2.20            | 262.20      | 9,683.0               | -178.8       | -381.9       | -359.6                  | 1.70                    | -1.51                  | 16.13                 |
| 9,803.0               | 1.80            | 265.10      | 9,776.9               | -179.2       | -385.2       | -361.7                  | 0.44                    | -0.43                  | 3.09                  |

|                  |                                                |                                     |                                        |
|------------------|------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                          | <b>Local Co-ordinate Reference:</b> | Well Gazelle 22 B2MD Fed Com #2H       |
| <b>Project:</b>  | Lea County N. M. Nad (83)                      | <b>TVD Reference:</b>               | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Site:</b>     | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H | <b>MD Reference:</b>                | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Well:</b>     | Gazelle 22 B2MD Fed Com #2H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                  | <b>Database:</b>                    | Stryker_EDM                            |

## Survey

| Measured Depth (usft)                         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,833.7                                       | 1.69            | 260.57      | 9,807.6               | -179.3       | -386.1       | -362.3                  | 0.58                    | -0.36                  | -14.74                |
| <b>New B.B. Gazelle 22 B2MD Fed Com #2H</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,836.2                                       | 1.68            | 260.18      | 9,810.1               | -179.3       | -386.2       | -362.4                  | 0.58                    | -0.34                  | -15.78                |
| <b>B.B. Gazelle 22 B2MD Fed Com #2H</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,846.7                                       | 1.64            | 258.48      | 9,820.6               | -179.4       | -386.5       | -362.6                  | 0.58                    | -0.34                  | -16.21                |
| <b>New 2 B.B. Gazelle 22 B2MD Fed Com #2H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,896.0                                       | 1.50            | 249.50      | 9,869.9               | -179.7       | -387.8       | -363.6                  | 0.58                    | -0.29                  | -18.21                |
| 9,934.0                                       | 1.10            | 249.50      | 9,907.9               | -180.0       | -388.6       | -364.3                  | 1.05                    | -1.05                  | 0.00                  |
| 9,974.0                                       | 1.10            | 255.20      | 9,947.9               | -180.3       | -389.3       | -364.9                  | 0.27                    | 0.00                   | 14.25                 |
| 10,005.0                                      | 3.90            | 330.50      | 9,978.8               | -179.4       | -390.1       | -364.6                  | 12.17                   | 9.03                   | 242.90                |
| 10,036.0                                      | 8.80            | 341.60      | 10,009.6              | -176.3       | -391.4       | -362.7                  | 16.22                   | 15.81                  | 35.81                 |
| 10,067.0                                      | 13.50           | 346.00      | 10,040.1              | -170.5       | -393.0       | -358.8                  | 15.40                   | 15.16                  | 14.19                 |
| 10,098.0                                      | 17.70           | 349.70      | 10,069.9              | -162.3       | -394.7       | -352.9                  | 13.92                   | 13.55                  | 11.94                 |
| 10,129.0                                      | 20.90           | 356.80      | 10,099.2              | -152.2       | -395.9       | -345.1                  | 12.78                   | 10.32                  | 22.90                 |
| 10,160.0                                      | 23.80           | 358.70      | 10,127.8              | -140.4       | -396.3       | -335.5                  | 9.64                    | 9.35                   | 6.13                  |
| 10,191.0                                      | 28.00           | 359.70      | 10,155.7              | -126.9       | -396.5       | -324.3                  | 13.62                   | 13.55                  | 3.23                  |
| 10,222.0                                      | 30.10           | 3.10        | 10,182.8              | -111.8       | -396.1       | -311.5                  | 8.61                    | 6.77                   | 10.97                 |
| 10,253.0                                      | 31.30           | 1.90        | 10,209.5              | -96.0        | -395.5       | -297.9                  | 4.35                    | 3.87                   | -3.87                 |
| 10,285.0                                      | 34.30           | 5.20        | 10,236.4              | -78.7        | -394.4       | -282.9                  | 10.91                   | 9.38                   | 10.31                 |
| 10,316.0                                      | 37.90           | 5.90        | 10,261.4              | -60.6        | -392.6       | -266.8                  | 11.69                   | 11.61                  | 2.26                  |
| 10,347.0                                      | 42.20           | 2.80        | 10,285.1              | -40.7        | -391.1       | -249.3                  | 15.29                   | 13.87                  | -10.00                |
| 10,378.0                                      | 46.90           | 357.90      | 10,307.2              | -18.9        | -391.0       | -231.1                  | 18.78                   | 15.16                  | -15.81                |
| 10,409.0                                      | 52.10           | 354.20      | 10,327.4              | 4.6          | -392.7       | -212.4                  | 19.07                   | 16.77                  | -11.94                |
| 10,440.0                                      | 57.30           | 353.20      | 10,345.3              | 29.7         | -395.4       | -193.0                  | 16.98                   | 16.77                  | -3.23                 |
| 10,471.0                                      | 62.00           | 354.40      | 10,360.9              | 56.3         | -398.3       | -172.4                  | 15.52                   | 15.16                  | 3.87                  |
| 10,482.0                                      | 62.90           | 354.90      | 10,366.0              | 66.0         | -399.2       | -164.8                  | 9.12                    | 8.18                   | 4.55                  |
| 10,537.0                                      | 67.20           | 355.90      | 10,389.2              | 115.7        | -403.2       | -125.5                  | 7.99                    | 7.82                   | 1.82                  |
| 10,539.2                                      | 67.43           | 355.89      | 10,390.1              | 117.7        | -403.4       | -123.9                  | 10.65                   | 10.65                  | -0.33                 |
| <b>CP Gazelle 22 B2MD Fed Com #2H</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,568.0                                      | 70.50           | 355.80      | 10,400.4              | 144.5        | -405.3       | -102.6                  | 10.65                   | 10.65                  | -0.32                 |
| 10,599.0                                      | 72.80           | 355.60      | 10,410.2              | 173.9        | -407.5       | -79.3                   | 7.44                    | 7.42                   | -0.65                 |
| 10,630.0                                      | 74.50           | 355.50      | 10,418.9              | 203.5        | -409.8       | -55.8                   | 5.49                    | 5.48                   | -0.32                 |
| 10,661.0                                      | 78.50           | 355.40      | 10,426.1              | 233.6        | -412.2       | -32.1                   | 12.91                   | 12.90                  | -0.32                 |
| 10,692.0                                      | 82.30           | 354.90      | 10,431.3              | 264.0        | -414.8       | -8.1                    | 12.36                   | 12.26                  | -1.61                 |
| 10,723.0                                      | 85.80           | 355.00      | 10,434.5              | 294.7        | -417.5       | 16.1                    | 11.29                   | 11.29                  | 0.32                  |
| 10,754.0                                      | 87.20           | 354.90      | 10,436.4              | 325.5        | -420.2       | 40.3                    | 4.53                    | 4.52                   | -0.32                 |
| 10,786.0                                      | 88.70           | 354.70      | 10,437.5              | 357.4        | -423.1       | 65.3                    | 4.73                    | 4.69                   | -0.63                 |
| 10,817.0                                      | 91.30           | 354.60      | 10,437.5              | 388.2        | -426.0       | 89.4                    | 8.39                    | 8.39                   | -0.32                 |
| 10,910.0                                      | 90.90           | 356.30      | 10,435.7              | 480.9        | -433.4       | 162.7                   | 1.88                    | -0.43                  | 1.83                  |
| 11,004.0                                      | 90.30           | 358.90      | 10,434.8              | 574.8        | -437.3       | 239.0                   | 2.84                    | -0.64                  | 2.77                  |
| 11,097.0                                      | 88.50           | 0.30        | 10,435.7              | 667.8        | -438.0       | 316.2                   | 2.45                    | -1.94                  | 1.51                  |
| 11,190.0                                      | 88.70           | 1.00        | 10,438.0              | 760.8        | -436.9       | 394.4                   | 0.78                    | 0.22                   | 0.75                  |
| 11,284.0                                      | 88.40           | 0.50        | 10,440.4              | 854.7        | -435.7       | 473.5                   | 0.62                    | -0.32                  | -0.53                 |

|                  |                                                |                                     |                                        |
|------------------|------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                          | <b>Local Co-ordinate Reference:</b> | Well Gazelle 22 B2MD Fed Com #2H       |
| <b>Project:</b>  | Lea County N. M. Nad (83)                      | <b>TVD Reference:</b>               | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Site:</b>     | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H | <b>MD Reference:</b>                | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Well:</b>     | Gazelle 22 B2MD Fed Com #2H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                  | <b>Database:</b>                    | Stryker_EDM                            |

**Survey**

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,377.0              | 89.40           | 0.80        | 10,442.2              | 947.7        | -434.6       | 551.7                   | 1.12                    | 1.08                   | 0.32                  |
| 11,471.0              | 89.00           | 359.70      | 10,443.5              | 1,041.7      | -434.2       | 630.4                   | 1.25                    | -0.43                  | -1.17                 |
| 11,564.0              | 90.90           | 1.10        | 10,443.6              | 1,134.7      | -433.6       | 708.3                   | 2.54                    | 2.04                   | 1.51                  |
| 11,658.0              | 91.00           | 0.70        | 10,442.0              | 1,228.7      | -432.1       | 787.6                   | 0.44                    | 0.11                   | -0.43                 |
| 11,751.0              | 90.40           | 0.50        | 10,440.9              | 1,321.7      | -431.1       | 865.7                   | 0.68                    | -0.65                  | -0.22                 |
| 11,845.0              | 89.70           | 0.30        | 10,440.8              | 1,415.7      | -430.5       | 944.6                   | 0.77                    | -0.74                  | -0.21                 |
| 11,938.0              | 89.90           | 0.90        | 10,441.1              | 1,508.7      | -429.5       | 1,022.7                 | 0.68                    | 0.22                   | 0.65                  |
| 12,032.0              | 89.30           | 0.20        | 10,441.8              | 1,602.6      | -428.6       | 1,101.7                 | 0.98                    | -0.64                  | -0.74                 |
| 12,125.0              | 89.00           | 359.50      | 10,443.2              | 1,695.6      | -428.9       | 1,179.1                 | 0.82                    | -0.32                  | -0.75                 |
| 12,218.0              | 89.80           | 2.00        | 10,444.1              | 1,788.6      | -427.6       | 1,257.4                 | 2.82                    | 0.86                   | 2.69                  |
| 12,312.0              | 89.70           | 2.70        | 10,444.5              | 1,882.5      | -423.8       | 1,337.9                 | 0.75                    | -0.11                  | 0.74                  |
| 12,406.0              | 89.50           | 2.90        | 10,445.2              | 1,976.4      | -419.2       | 1,418.8                 | 0.30                    | -0.21                  | 0.21                  |
| 12,499.0              | 90.20           | 0.10        | 10,445.4              | 2,069.4      | -416.8       | 1,497.8                 | 3.10                    | 0.75                   | -3.01                 |
| 12,593.0              | 90.50           | 359.50      | 10,444.9              | 2,163.4      | -417.1       | 1,576.0                 | 0.71                    | 0.32                   | -0.64                 |
| 12,686.0              | 90.20           | 359.30      | 10,444.3              | 2,256.4      | -418.1       | 1,653.1                 | 0.39                    | -0.32                  | -0.22                 |
| 12,779.0              | 89.50           | 359.00      | 10,444.5              | 2,349.4      | -419.4       | 1,730.0                 | 0.82                    | -0.75                  | -0.32                 |
| 12,873.0              | 89.60           | 358.80      | 10,445.3              | 2,443.3      | -421.2       | 1,807.4                 | 0.24                    | 0.11                   | -0.21                 |
| 12,966.0              | 89.50           | 358.90      | 10,446.0              | 2,536.3      | -423.1       | 1,884.0                 | 0.15                    | -0.11                  | 0.11                  |
| 13,060.0              | 88.90           | 358.20      | 10,447.3              | 2,630.3      | -425.5       | 1,961.1                 | 0.98                    | -0.64                  | -0.74                 |
| 13,153.0              | 88.80           | 357.50      | 10,449.2              | 2,723.2      | -429.0       | 2,036.8                 | 0.76                    | -0.11                  | -0.75                 |
| 13,247.0              | 89.60           | 0.20        | 10,450.5              | 2,817.2      | -430.9       | 2,114.2                 | 3.00                    | 0.85                   | 2.87                  |
| 13,340.0              | 89.10           | 359.60      | 10,451.6              | 2,910.1      | -431.0       | 2,191.7                 | 0.84                    | -0.54                  | -0.65                 |
| 13,434.0              | 92.00           | 359.20      | 10,450.6              | 3,004.1      | -432.0       | 2,269.6                 | 3.11                    | 3.09                   | -0.43                 |
| 13,527.0              | 92.60           | 359.40      | 10,446.9              | 3,097.0      | -433.1       | 2,346.5                 | 0.68                    | 0.65                   | 0.22                  |
| 13,620.0              | 90.10           | 1.10        | 10,444.7              | 3,190.0      | -432.7       | 2,424.3                 | 3.25                    | -2.69                  | 1.83                  |
| 13,714.0              | 90.50           | 1.60        | 10,444.2              | 3,284.0      | -430.5       | 2,504.0                 | 0.68                    | 0.43                   | 0.53                  |
| 13,807.0              | 88.20           | 0.40        | 10,445.3              | 3,376.9      | -428.9       | 2,582.5                 | 2.79                    | -2.47                  | -1.29                 |
| 13,900.0              | 89.10           | 0.60        | 10,447.5              | 3,469.9      | -428.1       | 2,660.5                 | 0.99                    | 0.97                   | 0.22                  |
| 13,994.0              | 88.20           | 0.30        | 10,449.7              | 3,563.9      | -427.3       | 2,739.4                 | 1.01                    | -0.96                  | -0.32                 |
| 14,088.0              | 89.50           | 358.40      | 10,451.6              | 3,657.9      | -428.4       | 2,817.2                 | 2.45                    | 1.38                   | -2.02                 |
| 14,182.0              | 88.70           | 357.60      | 10,453.1              | 3,751.8      | -431.7       | 2,893.8                 | 1.20                    | -0.85                  | -0.85                 |
| 14,276.0              | 90.10           | 359.00      | 10,454.0              | 3,845.7      | -434.5       | 2,970.7                 | 2.11                    | 1.49                   | 1.49                  |
| 14,369.0              | 89.00           | 358.70      | 10,454.8              | 3,938.7      | -436.3       | 3,047.3                 | 1.23                    | -1.18                  | -0.32                 |
| 14,463.0              | 87.90           | 358.00      | 10,457.3              | 4,032.6      | -439.1       | 3,124.2                 | 1.39                    | -1.17                  | -0.74                 |
| 14,557.0              | 88.20           | 359.50      | 10,460.5              | 4,126.6      | -441.1       | 3,201.5                 | 1.63                    | 0.32                   | 1.60                  |
| 14,652.0              | 89.90           | 0.50        | 10,462.1              | 4,221.5      | -441.1       | 3,280.7                 | 2.08                    | 1.79                   | 1.05                  |
| 14,746.0              | 91.60           | 1.30        | 10,460.9              | 4,315.5      | -439.6       | 3,360.0                 | 2.00                    | 1.81                   | 0.85                  |
| 14,839.0              | 92.20           | 0.80        | 10,457.8              | 4,408.4      | -437.9       | 3,438.5                 | 0.84                    | 0.65                   | -0.54                 |
| 14,933.0              | 91.00           | 0.50        | 10,455.2              | 4,502.4      | -436.9       | 3,517.5                 | 1.32                    | -1.28                  | -0.32                 |
| 15,026.0              | 92.50           | 0.50        | 10,452.3              | 4,595.4      | -436.0       | 3,595.5                 | 1.61                    | 1.61                   | 0.00                  |
| 15,121.0              | 89.20           | 358.30      | 10,450.9              | 4,690.3      | -437.0       | 3,674.3                 | 4.17                    | -3.47                  | -2.32                 |
| 15,180.2              | 89.33           | 358.24      | 10,451.7              | 4,749.5      | -438.8       | 3,722.7                 | 0.24                    | 0.21                   | -0.11                 |

|                  |                                                |                                     |                                        |
|------------------|------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                          | <b>Local Co-ordinate Reference:</b> | Well Gazelle 22 B2MD Fed Com #2H       |
| <b>Project:</b>  | Lea County N. M. Nad (83)                      | <b>TVD Reference:</b>               | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Site:</b>     | Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H | <b>MD Reference:</b>                | 3491 + 27 @ 3518.0usft (Patterson 250) |
| <b>Well:</b>     | Gazelle 22 B2MD Fed Com #2H                    | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                                  | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                                  | <b>Database:</b>                    | Stryker_EDM                            |

| Survey                               |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| PBHL Gazelle 22 B2MD Fed Com #2H     |                 |             |                       |              |              |                         |                         |                        |                       |
| 15,215.0                             | 89.40           | 358.20      | 10,452.0              | 4,784.3      | -439.9       | 3,751.1                 | 0.24                    | 0.21                   | -0.11                 |
| 15,309.0                             | 89.50           | 358.00      | 10,453.0              | 4,878.2      | -443.0       | 3,827.8                 | 0.24                    | 0.11                   | -0.21                 |
| 15,347.0                             | 89.10           | 358.00      | 10,453.4              | 4,916.2      | -444.4       | 3,858.8                 | 1.05                    | -1.05                  | 0.00                  |
| 15,404.1                             | 89.10           | 358.00      | 10,454.3              | 4,973.2      | -446.3       | 3,905.3                 | 0.00                    | 0.00                   | 0.00                  |
| 15405.0' Projected to Bit            |                 |             |                       |              |              |                         |                         |                        |                       |
| 15,405.0                             | 89.10           | 358.00      | 10,454.3              | 4,974.1      | -446.4       | 3,906.0                 | 0.00                    | 0.00                   | 0.00                  |
| New PBHL Gazelle 22 B2MD Fed Com #2H |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Annotations    |                       |                   |              |                           |  |
|-----------------------|-----------------------|-------------------|--------------|---------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                   |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                           |  |
| 15,404.1              | 10,454.3              | 4,973.2           | -446.3       | 15405.0' Projected to Bit |  |



September 11, 2018

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

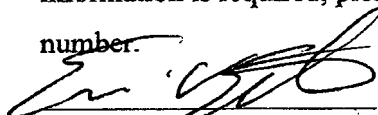
Attn: Jackie Lathan

Re: Mewbourne Oil Company  
Gazelle 22 B2MD Federal Com #002H  
Antelope Ridge; Bone Spring, West  
Lea County, New Mexico  
API# 30-025-44941

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

| <u>Name &amp; Title</u> | <u>Drainhole No.</u> | <u>Survey Depths</u>  | <u>Dates Performed</u> | <u>Type Survey</u> |
|-------------------------|----------------------|-----------------------|------------------------|--------------------|
| David Calabrese         | Original Hole        | 1,124ft. to 15,347ft. | 07-08-18 to 07-22-18   | MWD Survey         |

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

  
Eric Estes

Enclosures

CC:

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

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

NMEMaNRD\Mewbourne Oil Company\Gazelle 22 B2MD Fed Com #2H\M181083

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



September 11, 2018

**Survey Certification Report**

**STATE OF            TEXAS**

**COUNTY OF        Montgomery**

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of July 8, 2018, through July 22, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,124 feet to a depth of 15,347 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Gazelle 22 B2MD Fed Com #2H, well API # 30-025-44941 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**Eric Estes**

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

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

**P.O. Box 1250**

**Montgomery, TX 77356**

**Office (936) 582-7296 \* Fax (936)-588-4163**



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
Project: Lea County N. M. Nad (83)  
Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com  
Well: Gazelle 22 B2MD Fed Com #2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H  
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)  
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Project Lea County N. M. Nad (83)

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

System Datum: Mean Sea Level

Site Section 22-23S-34E Gazelle 22 B2MD Fed Com #2H

|                       |          |     |              |                 |                   |                   |
|-----------------------|----------|-----|--------------|-----------------|-------------------|-------------------|
| Site Position:        | From:    | Map | Northing:    | 467,921.70 usft | Latitude:         | 32° 17' 0.232 N   |
|                       |          |     | Easting:     | 810,014.80 usft | Longitude:        | 103° 27' 50.143 W |
| Position Uncertainty: | 0.0 usft |     | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.46 °            |

Well Gazelle 22 B2MD Fed Com #2H

|                      |          |          |                     |                 |               |                   |
|----------------------|----------|----------|---------------------|-----------------|---------------|-------------------|
| Well Position        | +N/-S    | 0.0 usft | Northing:           | 467,921.70 usft | Latitude:     | 32° 17' 0.232 N   |
|                      | +E/-W    | 0.0 usft | Easting:            | 810,014.80 usft | Longitude:    | 103° 27' 50.143 W |
| Position Uncertainty | 0.0 usft |          | Wellhead Elevation: | 27.0 usft       | Ground Level: | 3,491.0 usft      |

Wellbore Original Hole

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | IGRF2015   | 5/25/2018   | 6.81               | 60.12            | 47,887.72336473        |

Design Original Hole

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|-------------------|----------------------------|-----------------|-----------------|------------------|
|                   | 0.0                        | 0.0             | 0.0             | 33.42            |

Survey Program Date 7/23/2018

| From<br>(usft) | To<br>(usft) | Survey (Wellbore)         | Tool Name | Description                 |
|----------------|--------------|---------------------------|-----------|-----------------------------|
| 1,124.0        | 15,405.0     | Survey #1 (Original Hole) | MWD       | MWD v3:standard declination |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
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**Well:** Gazelle 22 B2MD Fed Com #2H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Gazelle 22 B2MD Fed Com #2H  
**TVD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**MD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |        |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|--------|
| 925.0        | 0.37       | 2.79                 | 925.0         | 2,593.0         | -3.3          | 4.0           | 5.2                        | 129.13                 | Tie-In |
| 1,124.0      | 1.10       | 28.10                | 1,124.0       | 2,394.0         | -0.9          | 5.0           | 5.0                        | 100.79                 |        |
| 1,217.0      | 1.10       | 32.20                | 1,216.9       | 2,301.1         | 0.6           | 5.8           | 5.9                        | 84.14                  |        |
| 1,311.0      | 1.10       | 32.40                | 1,310.9       | 2,207.1         | 2.1           | 6.8           | 7.1                        | 72.67                  |        |
| 1,404.0      | 1.20       | 31.70                | 1,403.9       | 2,114.1         | 3.7           | 7.8           | 8.6                        | 64.58                  |        |
| 1,498.0      | 1.30       | 23.20                | 1,497.9       | 2,020.1         | 5.5           | 8.7           | 10.3                       | 57.70                  |        |
| 1,591.0      | 1.30       | 22.80                | 1,590.9       | 1,927.1         | 7.5           | 9.6           | 12.1                       | 52.02                  |        |
| 1,685.0      | 1.40       | 20.40                | 1,684.8       | 1,833.2         | 9.5           | 10.4          | 14.1                       | 47.45                  |        |
| 1,778.0      | 1.70       | 18.20                | 1,777.8       | 1,740.2         | 11.9          | 11.2          | 16.3                       | 43.27                  |        |
| 1,871.0      | 1.70       | 18.80                | 1,870.8       | 1,647.2         | 14.5          | 12.1          | 18.9                       | 39.76                  |        |
| 1,965.0      | 2.00       | 12.80                | 1,964.7       | 1,553.3         | 17.4          | 12.9          | 21.7                       | 36.48                  |        |
| 2,058.0      | 0.70       | 13.20                | 2,057.7       | 1,460.3         | 19.6          | 13.4          | 23.7                       | 34.36                  |        |
| 2,152.0      | 0.20       | 240.00               | 2,151.7       | 1,366.3         | 20.1          | 13.4          | 24.1                       | 33.70                  |        |
| 2,245.0      | 0.30       | 224.10               | 2,244.7       | 1,273.3         | 19.8          | 13.1          | 23.7                       | 33.42                  |        |
| 2,338.0      | 0.00       | 146.00               | 2,337.7       | 1,180.3         | 19.6          | 12.9          | 23.5                       | 33.31                  |        |
| 2,431.0      | 0.30       | 51.50                | 2,430.7       | 1,087.3         | 19.8          | 13.1          | 23.7                       | 33.49                  |        |
| 2,525.0      | 0.50       | 64.10                | 2,524.7       | 993.3           | 20.1          | 13.6          | 24.3                       | 34.16                  |        |
| 2,618.0      | 0.50       | 60.60                | 2,617.7       | 900.3           | 20.5          | 14.4          | 25.0                       | 35.04                  |        |
| 2,712.0      | 0.60       | 73.00                | 2,711.7       | 806.3           | 20.8          | 15.2          | 25.8                       | 36.11                  |        |
| 2,805.0      | 1.10       | 127.60               | 2,804.7       | 713.3           | 20.4          | 16.4          | 26.2                       | 38.70                  |        |
| 2,898.0      | 1.40       | 134.10               | 2,897.6       | 620.4           | 19.1          | 17.9          | 26.2                       | 43.14                  |        |
| 2,991.0      | 1.60       | 133.00               | 2,990.6       | 527.4           | 17.4          | 19.7          | 26.3                       | 48.46                  |        |
| 3,085.0      | 2.20       | 123.80               | 3,084.6       | 433.4           | 15.5          | 22.1          | 27.0                       | 54.95                  |        |
| 3,178.0      | 1.70       | 104.60               | 3,177.5       | 340.5           | 14.2          | 24.9          | 28.7                       | 60.38                  |        |
| 3,272.0      | 1.60       | 90.00                | 3,271.5       | 246.5           | 13.8          | 27.6          | 30.9                       | 63.39                  |        |
| 3,365.0      | 2.30       | 139.90               | 3,364.4       | 153.6           | 12.4          | 30.1          | 32.5                       | 67.62                  |        |
| 3,459.0      | 3.10       | 153.50               | 3,458.3       | 59.7            | 8.7           | 32.4          | 33.6                       | 75.03                  |        |



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
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Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com  
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North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|
| 3,552.0      | 2.40       | 146.10               | 3,551.2       | -33.2           | 4.8           | 34.6          | 35.0                       | 82.10                  |
| 3,646.0      | 2.20       | 131.10               | 3,645.1       | -127.1          | 2.0           | 37.1          | 37.2                       | 86.93                  |
| 3,739.0      | 2.70       | 130.40               | 3,738.0       | -220.0          | -0.6          | 40.1          | 40.1                       | 90.86                  |
| 3,833.0      | 2.50       | 102.40               | 3,832.0       | -314.0          | -2.5          | 43.8          | 43.9                       | 93.24                  |
| 3,926.0      | 1.40       | 113.80               | 3,924.9       | -408.9          | -3.4          | 46.8          | 46.9                       | 94.12                  |
| 4,019.0      | 0.60       | 158.90               | 4,017.9       | -499.9          | -4.3          | 48.0          | 48.2                       | 95.10                  |
| 4,113.0      | 0.70       | 140.20               | 4,111.9       | -593.9          | -5.2          | 48.6          | 48.9                       | 96.09                  |
| 4,206.0      | 1.20       | 108.40               | 4,204.9       | -686.9          | -5.9          | 49.9          | 50.2                       | 96.78                  |
| 4,300.0      | 2.40       | 102.30               | 4,298.8       | -780.8          | -6.7          | 52.7          | 53.2                       | 97.20                  |
| 4,393.0      | 3.20       | 113.70               | 4,391.7       | -873.7          | -8.1          | 57.0          | 57.6                       | 98.11                  |
| 4,486.0      | 4.80       | 140.70               | 4,484.5       | -966.5          | -12.2         | 61.9          | 63.0                       | 101.13                 |
| 4,580.0      | 5.90       | 167.00               | 4,578.1       | -1,060.1        | -19.9         | 65.4          | 68.4                       | 106.94                 |
| 4,673.0      | 6.60       | 190.10               | 4,670.5       | -1,152.5        | -29.8         | 65.6          | 72.0                       | 114.47                 |
| 4,767.0      | 5.70       | 219.70               | 4,764.0       | -1,246.0        | -38.8         | 61.6          | 72.8                       | 122.16                 |
| 4,860.0      | 6.30       | 243.60               | 4,856.5       | -1,338.5        | -44.6         | 54.1          | 70.1                       | 129.48                 |
| 4,964.0      | 7.30       | 250.10               | 4,959.8       | -1,441.8        | -49.4         | 42.8          | 65.3                       | 139.08                 |
| 5,044.0      | 7.60       | 251.10               | 5,039.1       | -1,521.1        | -52.8         | 33.0          | 62.3                       | 147.99                 |
| 5,138.0      | 5.90       | 255.60               | 5,132.5       | -1,614.5        | -56.0         | 22.4          | 60.4                       | 158.17                 |
| 5,231.0      | 5.80       | 252.80               | 5,225.0       | -1,707.0        | -58.6         | 13.3          | 60.1                       | 167.19                 |
| 5,325.0      | 6.40       | 253.70               | 5,318.5       | -1,800.5        | -61.5         | 3.8           | 61.6                       | 176.50                 |
| 5,418.0      | 6.20       | 247.50               | 5,410.9       | -1,892.9        | -64.9         | -5.9          | 65.1                       | 185.16                 |
| 5,511.0      | 5.10       | 249.40               | 5,503.4       | -1,985.4        | -68.2         | -14.4         | 69.7                       | 191.89                 |
| 5,605.0      | 4.60       | 251.60               | 5,597.1       | -2,079.1        | -70.9         | -21.8         | 74.2                       | 197.13                 |
| 5,698.0      | 4.70       | 257.50               | 5,689.8       | -2,171.8        | -72.9         | -29.1         | 78.5                       | 201.77                 |
| 5,791.0      | 4.60       | 256.40               | 5,782.5       | -2,264.5        | -74.6         | -36.5         | 83.0                       | 206.04                 |
| 5,886.0      | 5.10       | 255.80               | 5,877.2       | -2,359.2        | -76.5         | -44.2         | 88.4                       | 210.04                 |
| 5,980.0      | 5.10       | 252.90               | 5,970.8       | -2,452.8        | -78.8         | -52.3         | 94.6                       | 213.57                 |



# Microsoft MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 22-23S-34E Gazelle 22 B2MD Fed Com  
**Well:** Gazelle 22 B2MD Fed Com #2H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Gazelle 22 B2MD Fed Com #2H  
**TVD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**MD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

## Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|
| 6,073.0      | 5.40       | 255.30               | 6,063.4       | -2,545.4        | -81.1         | -60.5         | 101.2                      | 216.71                 |
| 6,166.0      | 5.80       | 255.40               | 6,155.9       | -2,637.9        | -83.4         | -69.3         | 108.4                      | 219.71                 |
| 6,260.0      | 5.90       | 255.00               | 6,249.5       | -2,731.5        | -85.9         | -78.5         | 116.3                      | 222.45                 |
| 6,353.0      | 6.30       | 256.00               | 6,341.9       | -2,823.9        | -88.3         | -88.1         | 124.7                      | 224.92                 |
| 6,447.0      | 6.30       | 255.60               | 6,435.4       | -2,917.4        | -90.9         | -98.1         | 133.7                      | 227.19                 |
| 6,540.0      | 6.40       | 255.30               | 6,527.8       | -3,009.8        | -93.4         | -108.0        | 142.8                      | 229.15                 |
| 6,634.0      | 6.10       | 252.30               | 6,621.2       | -3,103.2        | -96.3         | -117.9        | 152.2                      | 230.76                 |
| 6,727.0      | 6.10       | 250.70               | 6,713.7       | -3,195.7        | -99.4         | -127.2        | 161.5                      | 232.00                 |
| 6,820.0      | 4.40       | 254.10               | 6,806.3       | -3,288.3        | -102.0        | -135.3        | 169.5                      | 232.99                 |
| 6,914.0      | 3.90       | 259.40               | 6,900.1       | -3,382.1        | -103.6        | -141.9        | 175.7                      | 233.87                 |
| 7,007.0      | 5.40       | 255.20               | 6,992.8       | -3,474.8        | -105.3        | -149.3        | 182.7                      | 234.80                 |
| 7,100.0      | 6.00       | 252.20               | 7,085.3       | -3,567.3        | -107.9        | -158.1        | 191.5                      | 235.69                 |
| 7,193.0      | 6.10       | 249.60               | 7,177.8       | -3,659.8        | -111.1        | -167.4        | 200.9                      | 236.42                 |
| 7,287.0      | 6.20       | 248.20               | 7,271.2       | -3,753.2        | -114.7        | -176.8        | 210.8                      | 237.02                 |
| 7,380.0      | 5.80       | 243.80               | 7,363.7       | -3,845.7        | -118.7        | -185.7        | 220.4                      | 237.41                 |
| 7,473.0      | 6.00       | 242.30               | 7,456.2       | -3,938.2        | -123.0        | -194.2        | 229.9                      | 237.65                 |
| 7,566.0      | 5.30       | 243.60               | 7,548.8       | -4,030.8        | -127.2        | -202.3        | 239.0                      | 237.85                 |
| 7,659.0      | 5.20       | 240.20               | 7,641.4       | -4,123.4        | -131.2        | -209.9        | 247.5                      | 237.99                 |
| 7,752.0      | 4.80       | 242.30               | 7,734.0       | -4,216.0        | -135.1        | -217.0        | 255.6                      | 238.09                 |
| 7,844.0      | 3.80       | 249.70               | 7,825.8       | -4,307.8        | -137.9        | -223.2        | 262.4                      | 238.29                 |
| 7,937.0      | 3.40       | 251.30               | 7,918.6       | -4,400.6        | -139.9        | -228.7        | 268.1                      | 238.55                 |
| 8,031.0      | 3.40       | 254.50               | 8,012.4       | -4,494.4        | -141.5        | -234.0        | 273.5                      | 238.84                 |
| 8,124.0      | 3.70       | 258.30               | 8,105.3       | -4,587.3        | -142.9        | -239.6        | 279.0                      | 239.20                 |
| 8,218.0      | 4.30       | 261.00               | 8,199.0       | -4,681.0        | -144.0        | -246.1        | 285.2                      | 239.66                 |
| 8,311.0      | 4.80       | 259.60               | 8,291.7       | -4,773.7        | -145.3        | -253.4        | 292.1                      | 240.17                 |
| 8,404.0      | 6.10       | 255.10               | 8,384.3       | -4,866.3        | -147.3        | -262.0        | 300.5                      | 240.66                 |
| 8,497.0      | 5.70       | 255.30               | 8,476.8       | -4,958.8        | -149.7        | -271.2        | 309.8                      | 241.10                 |

**Company:** Mewbourne Oil Company  
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**Wellbore:** Original Hole  
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**Local Co-ordinate Reference:** Well Gazelle 22 B2MD Fed Com #2H  
**TVD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
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**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft)                                  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|-----------------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|
| 8,590.0                                       | 4.70       | 258.10               | 8,569.4       | -5,051.4        | -151.7        | -279.4        | 317.9                      | 241.51                 |
| 8,683.0                                       | 4.70       | 261.00               | 8,662.1       | -5,144.1        | -153.0        | -286.9        | 325.2                      | 241.92                 |
| 8,776.0                                       | 5.90       | 255.00               | 8,754.7       | -5,236.7        | -154.9        | -295.3        | 333.4                      | 242.32                 |
| 8,870.0                                       | 4.70       | 254.70               | 8,848.3       | -5,330.3        | -157.1        | -303.7        | 341.9                      | 242.64                 |
| 8,963.0                                       | 4.90       | 239.80               | 8,941.0       | -5,423.0        | -160.2        | -310.8        | 349.6                      | 242.74                 |
| 9,056.0                                       | 4.80       | 253.60               | 9,033.7       | -5,515.7        | -163.2        | -317.9        | 357.4                      | 242.82                 |
| 9,149.0                                       | 5.90       | 254.50               | 9,126.3       | -5,608.3        | -165.6        | -326.3        | 365.9                      | 243.09                 |
| 9,243.0                                       | 7.90       | 257.30               | 9,219.6       | -5,701.6        | -168.3        | -337.2        | 376.9                      | 243.47                 |
| 9,336.0                                       | 8.70       | 259.10               | 9,311.6       | -5,793.6        | -171.1        | -350.4        | 389.9                      | 243.98                 |
| 9,429.0                                       | 6.20       | 266.80               | 9,403.8       | -5,885.8        | -172.7        | -362.3        | 401.3                      | 244.52                 |
| 9,522.0                                       | 5.00       | 245.80               | 9,496.4       | -5,978.4        | -174.6        | -371.0        | 410.1                      | 244.79                 |
| 9,616.0                                       | 3.60       | 247.20               | 9,590.1       | -6,072.1        | -177.4        | -377.5        | 417.1                      | 244.82                 |
| 9,709.0                                       | 2.20       | 262.20               | 9,683.0       | -6,165.0        | -178.8        | -381.9        | 421.7                      | 244.91                 |
| 9,803.0                                       | 1.80       | 265.10               | 9,776.9       | -6,258.9        | -179.2        | -385.2        | 424.8                      | 245.05                 |
| 9,833.7                                       | 1.69       | 260.57               | 9,807.6       | -6,289.6        | -179.3        | -386.1        | 425.7                      | 245.09                 |
| <b>New B.B. Gazelle 22 B2MD Fed Com #2H</b>   |            |                      |               |                 |               |               |                            |                        |
| 9,836.2                                       | 1.68       | 260.18               | 9,810.1       | -6,292.1        | -179.3        | -386.2        | 425.8                      | 245.09                 |
| <b>B.B. Gazelle 22 B2MD Fed Com #2H</b>       |            |                      |               |                 |               |               |                            |                        |
| 9,846.7                                       | 1.64       | 258.48               | 9,820.6       | -6,302.6        | -179.4        | -386.5        | 426.1                      | 245.10                 |
| <b>New 2 B.B. Gazelle 22 B2MD Fed Com #2H</b> |            |                      |               |                 |               |               |                            |                        |
| 9,896.0                                       | 1.50       | 249.50               | 9,869.9       | -6,351.9        | -179.7        | -387.8        | 427.4                      | 245.13                 |
| 9,934.0                                       | 1.10       | 249.50               | 9,907.9       | -6,389.9        | -180.0        | -388.6        | 428.3                      | 245.14                 |
| 9,974.0                                       | 1.10       | 255.20               | 9,947.9       | -6,429.9        | -180.3        | -389.3        | 429.0                      | 245.15                 |
| 10,005.0                                      | 3.90       | 330.50               | 9,978.8       | -6,460.8        | -179.4        | -390.1        | 429.4                      | 245.30                 |
| 10,036.0                                      | 8.80       | 341.60               | 10,009.6      | -6,491.6        | -176.3        | -391.4        | 429.3                      | 245.76                 |
| 10,067.0                                      | 13.50      | 346.00               | 10,040.1      | -6,522.1        | -170.5        | -393.0        | 428.4                      | 246.55                 |
| 10,098.0                                      | 17.70      | 349.70               | 10,069.9      | -6,551.9        | -162.3        | -394.7        | 426.8                      | 247.64                 |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 22-23S-34E Gazelle 22 B2MD Fed Com  
**Well:** Gazelle 22 B2MD Fed Com #2H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Gazelle 22 B2MD Fed Com #2H  
**TVD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**MD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft)                          | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|---------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|
| 10,129.0                              | 20.90      | 356.80               | 10,099.2      | -6,581.2        | -152.2        | -395.9        | 424.1                      | 248.97                 |
| 10,160.0                              | 23.80      | 358.70               | 10,127.8      | -6,609.8        | -140.4        | -396.3        | 420.5                      | 250.49                 |
| 10,191.0                              | 28.00      | 359.70               | 10,155.7      | -6,637.7        | -126.9        | -396.5        | 416.3                      | 252.26                 |
| 10,222.0                              | 30.10      | 3.10                 | 10,182.8      | -6,664.8        | -111.8        | -396.1        | 411.6                      | 254.24                 |
| 10,253.0                              | 31.30      | 1.90                 | 10,209.5      | -6,691.5        | -96.0         | -395.5        | 406.9                      | 256.35                 |
| 10,285.0                              | 34.30      | 5.20                 | 10,236.4      | -6,718.4        | -78.7         | -394.4        | 402.1                      | 258.71                 |
| 10,316.0                              | 37.90      | 5.90                 | 10,261.4      | -6,743.4        | -60.6         | -392.6        | 397.2                      | 261.23                 |
| 10,347.0                              | 42.20      | 2.80                 | 10,285.1      | -6,767.1        | -40.7         | -391.1        | 393.2                      | 264.06                 |
| 10,378.0                              | 46.90      | 357.90               | 10,307.2      | -6,789.2        | -18.9         | -391.0        | 391.5                      | 267.23                 |
| 10,409.0                              | 52.10      | 354.20               | 10,327.4      | -6,809.4        | 4.6           | -392.7        | 392.7                      | 270.66                 |
| 10,440.0                              | 57.30      | 353.20               | 10,345.3      | -6,827.3        | 29.7          | -395.4        | 396.6                      | 274.29                 |
| 10,471.0                              | 62.00      | 354.40               | 10,360.9      | -6,842.9        | 56.3          | -398.3        | 402.3                      | 278.04                 |
| 10,482.0                              | 62.90      | 354.90               | 10,366.0      | -6,848.0        | 66.0          | -399.2        | 404.6                      | 279.39                 |
| 10,537.0                              | 67.20      | 355.90               | 10,389.2      | -6,871.2        | 115.7         | -403.2        | 419.5                      | 286.01                 |
| 10,539.2                              | 67.43      | 355.89               | 10,390.1      | -6,872.1        | 117.7         | -403.4        | 420.2                      | 286.27                 |
| <b>LP Gazelle 22 B2MD Fed Com #2H</b> |            |                      |               |                 |               |               |                            |                        |
| 10,568.0                              | 70.50      | 355.80               | 10,400.4      | -6,882.4        | 144.5         | -405.3        | 430.3                      | 289.62                 |
| 10,599.0                              | 72.80      | 355.60               | 10,410.2      | -6,892.2        | 173.9         | -407.5        | 443.1                      | 293.10                 |
| 10,630.0                              | 74.50      | 355.50               | 10,418.9      | -6,900.9        | 203.5         | -409.8        | 457.6                      | 296.41                 |
| 10,661.0                              | 78.50      | 355.40               | 10,426.1      | -6,908.1        | 233.6         | -412.2        | 473.8                      | 299.53                 |
| 10,692.0                              | 82.30      | 354.90               | 10,431.3      | -6,913.3        | 264.0         | -414.8        | 491.7                      | 302.47                 |
| 10,723.0                              | 85.80      | 355.00               | 10,434.5      | -6,916.5        | 294.7         | -417.5        | 511.1                      | 305.22                 |
| 10,754.0                              | 87.20      | 354.90               | 10,436.4      | -6,918.4        | 325.5         | -420.2        | 531.6                      | 307.76                 |
| 10,786.0                              | 88.70      | 354.70               | 10,437.5      | -6,919.5        | 357.4         | -423.1        | 553.9                      | 310.18                 |
| 10,817.0                              | 91.30      | 354.60               | 10,437.5      | -6,919.5        | 388.2         | -426.0        | 576.4                      | 312.34                 |
| 10,910.0                              | 90.90      | 356.30               | 10,435.7      | -6,917.7        | 480.9         | -433.4        | 647.4                      | 317.98                 |
| 11,004.0                              | 90.30      | 358.90               | 10,434.8      | -6,916.8        | 574.8         | -437.3        | 722.3                      | 322.74                 |



Microsoft  
MWD Surveys



Company: Mewbourne Oil Company  
Project: Lea County N. M. Nad (83)  
Site: Section 22-23S-34E Gazelle 22 B2MD Fed Com  
Well: Gazelle 22 B2MD Fed Com #2H  
Wellbore: Original Hole  
Design: Original Hole

Local Co-ordinate Reference: Well Gazelle 22 B2MD Fed Com #2H  
TVD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)  
MD Reference: 3491 + 27 @ 3518.0usft (Patterson 250)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature  
Database: Stryker\_EDM

Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|
| 11,097.0     | 88.50      | 0.30                 | 10,435.7      | -6,917.7        | 667.8         | -438.0        | 798.6                      | 326.74                 |
| 11,190.0     | 88.70      | 1.00                 | 10,438.0      | -6,920.0        | 760.8         | -436.9        | 877.3                      | 330.13                 |
| 11,284.0     | 88.40      | 0.50                 | 10,440.4      | -6,922.4        | 854.7         | -435.7        | 959.4                      | 332.99                 |
| 11,377.0     | 89.40      | 0.80                 | 10,442.2      | -6,924.2        | 947.7         | -434.6        | 1,042.6                    | 335.36                 |
| 11,471.0     | 89.00      | 359.70               | 10,443.5      | -6,925.5        | 1,041.7       | -434.2        | 1,128.6                    | 337.37                 |
| 11,564.0     | 90.90      | 1.10                 | 10,443.6      | -6,925.6        | 1,134.7       | -433.6        | 1,214.7                    | 339.09                 |
| 11,658.0     | 91.00      | 0.70                 | 10,442.0      | -6,924.0        | 1,228.7       | -432.1        | 1,302.4                    | 340.62                 |
| 11,751.0     | 90.40      | 0.50                 | 10,440.9      | -6,922.9        | 1,321.7       | -431.1        | 1,390.2                    | 341.93                 |
| 11,845.0     | 89.70      | 0.30                 | 10,440.8      | -6,922.8        | 1,415.7       | -430.5        | 1,479.7                    | 343.09                 |
| 11,938.0     | 89.90      | 0.90                 | 10,441.1      | -6,923.1        | 1,508.7       | -429.5        | 1,568.6                    | 344.11                 |
| 12,032.0     | 89.30      | 0.20                 | 10,441.8      | -6,923.8        | 1,602.6       | -428.6        | 1,659.0                    | 345.03                 |
| 12,125.0     | 89.00      | 359.50               | 10,443.2      | -6,925.2        | 1,695.6       | -428.9        | 1,749.0                    | 345.81                 |
| 12,218.0     | 89.80      | 2.00                 | 10,444.1      | -6,926.1        | 1,788.6       | -427.6        | 1,839.0                    | 346.55                 |
| 12,312.0     | 89.70      | 2.70                 | 10,444.5      | -6,926.5        | 1,882.5       | -423.8        | 1,929.6                    | 347.31                 |
| 12,406.0     | 89.50      | 2.90                 | 10,445.2      | -6,927.2        | 1,976.4       | -419.2        | 2,020.4                    | 348.03                 |
| 12,499.0     | 90.20      | 0.10                 | 10,445.4      | -6,927.4        | 2,069.4       | -416.8        | 2,110.9                    | 348.61                 |
| 12,593.0     | 90.50      | 359.50               | 10,444.9      | -6,926.9        | 2,163.4       | -417.1        | 2,203.2                    | 349.09                 |
| 12,686.0     | 90.20      | 359.30               | 10,444.3      | -6,926.3        | 2,256.4       | -418.1        | 2,294.8                    | 349.50                 |
| 12,779.0     | 89.50      | 359.00               | 10,444.5      | -6,926.5        | 2,349.4       | -419.4        | 2,386.5                    | 349.88                 |
| 12,873.0     | 89.60      | 358.80               | 10,445.3      | -6,927.3        | 2,443.3       | -421.2        | 2,479.4                    | 350.22                 |
| 12,966.0     | 89.50      | 358.90               | 10,446.0      | -6,928.0        | 2,536.3       | -423.1        | 2,571.4                    | 350.53                 |
| 13,060.0     | 88.90      | 358.20               | 10,447.3      | -6,929.3        | 2,630.3       | -425.5        | 2,664.5                    | 350.81                 |
| 13,153.0     | 88.80      | 357.50               | 10,449.2      | -6,931.2        | 2,723.2       | -429.0        | 2,756.8                    | 351.05                 |
| 13,247.0     | 89.60      | 0.20                 | 10,450.5      | -6,932.5        | 2,817.2       | -430.9        | 2,849.9                    | 351.30                 |
| 13,340.0     | 89.10      | 359.60               | 10,451.6      | -6,933.6        | 2,910.1       | -431.0        | 2,941.9                    | 351.58                 |
| 13,434.0     | 92.00      | 359.20               | 10,450.6      | -6,932.6        | 3,004.1       | -432.0        | 3,035.0                    | 351.82                 |
| 13,527.0     | 92.60      | 359.40               | 10,446.9      | -6,928.9        | 3,097.0       | -433.1        | 3,127.2                    | 352.04                 |

**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 22-23S-34E Gazelle 22 B2MD Fed Com  
**Well:** Gazelle 22 B2MD Fed Com #2H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Gazelle 22 B2MD Fed Com #2H  
**TVD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**MD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

| MD<br>(usft)                                | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) |
|---------------------------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|----------------------------|------------------------|
| 13,620.0                                    | 90.10      | 1.10                 | 10,444.7      | -6,926.7        | 3,190.0       | -432.7        | 3,219.2                    | 352.27                 |
| 13,714.0                                    | 90.50      | 1.60                 | 10,444.2      | -6,926.2        | 3,284.0       | -430.5        | 3,312.1                    | 352.53                 |
| 13,807.0                                    | 88.20      | 0.40                 | 10,445.3      | -6,927.3        | 3,376.9       | -428.9        | 3,404.1                    | 352.76                 |
| 13,900.0                                    | 89.10      | 0.60                 | 10,447.5      | -6,929.5        | 3,469.9       | -428.1        | 3,496.2                    | 352.97                 |
| 13,994.0                                    | 88.20      | 0.30                 | 10,449.7      | -6,931.7        | 3,563.9       | -427.3        | 3,589.4                    | 353.16                 |
| 14,088.0                                    | 89.50      | 358.40               | 10,451.6      | -6,933.6        | 3,657.9       | -428.4        | 3,682.9                    | 353.32                 |
| 14,182.0                                    | 88.70      | 357.60               | 10,453.1      | -6,935.1        | 3,751.8       | -431.7        | 3,776.5                    | 353.44                 |
| 14,276.0                                    | 90.10      | 359.00               | 10,454.0      | -6,936.0        | 3,845.7       | -434.5        | 3,870.2                    | 353.55                 |
| 14,369.0                                    | 89.00      | 358.70               | 10,454.8      | -6,936.8        | 3,938.7       | -436.3        | 3,962.8                    | 353.68                 |
| 14,463.0                                    | 87.90      | 358.00               | 10,457.3      | -6,939.3        | 4,032.6       | -439.1        | 4,056.5                    | 353.79                 |
| 14,557.0                                    | 88.20      | 359.50               | 10,460.5      | -6,942.5        | 4,126.6       | -441.1        | 4,150.1                    | 353.90                 |
| 14,652.0                                    | 89.90      | 0.50                 | 10,462.1      | -6,944.1        | 4,221.5       | -441.1        | 4,244.5                    | 354.03                 |
| 14,746.0                                    | 91.60      | 1.30                 | 10,460.9      | -6,942.9        | 4,315.5       | -439.6        | 4,337.9                    | 354.18                 |
| 14,839.0                                    | 92.20      | 0.80                 | 10,457.8      | -6,939.8        | 4,408.4       | -437.9        | 4,430.1                    | 354.33                 |
| 14,933.0                                    | 91.00      | 0.50                 | 10,455.2      | -6,937.2        | 4,502.4       | -436.9        | 4,523.5                    | 354.46                 |
| 15,026.0                                    | 92.50      | 0.50                 | 10,452.3      | -6,934.3        | 4,595.4       | -436.0        | 4,616.0                    | 354.58                 |
| 15,121.0                                    | 89.20      | 358.30               | 10,450.9      | -6,932.9        | 4,690.3       | -437.0        | 4,710.6                    | 354.68                 |
| 15,180.2                                    | 89.33      | 358.24               | 10,451.7      | -6,933.7        | 4,749.5       | -438.8        | 4,769.8                    | 354.72                 |
| <b>PBHL Gazelle 22 B2MD Fed Com #2H</b>     |            |                      |               |                 |               |               |                            |                        |
| 15,215.0                                    | 89.40      | 358.20               | 10,452.0      | -6,934.0        | 4,784.3       | -439.9        | 4,804.5                    | 354.75                 |
| 15,309.0                                    | 89.50      | 358.00               | 10,453.0      | -6,935.0        | 4,878.2       | -443.0        | 4,898.3                    | 354.81                 |
| 15,347.0                                    | 89.10      | 358.00               | 10,453.4      | -6,935.4        | 4,916.2       | -444.4        | 4,936.2                    | 354.84                 |
| 15,404.1                                    | 89.10      | 358.00               | 10,454.3      | -6,936.3        | 4,973.2       | -446.3        | 4,993.2                    | 354.87                 |
| <b>15405.0' Projected to Bit</b>            |            |                      |               |                 |               |               |                            |                        |
| 15,405.0                                    | 89.10      | 358.00               | 10,454.3      | -6,936.3        | 4,974.1       | -446.4        | 4,994.1                    | 354.87                 |
| <b>New PBHL Gazelle 22 B2MD Fed Com #2H</b> |            |                      |               |                 |               |               |                            |                        |



Microsoft  
MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Lea County N. M. Nad (83)  
**Site:** Section 22-23S-34E Gazelle 22 B2MD Fed Com  
**Well:** Gazelle 22 B2MD Fed Com #2H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Gazelle 22 B2MD Fed Com #2H  
**TVD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**MD Reference:** 3491 + 27 @ 3518.0usft (Patterson 250)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Design Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                   |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                           |
| 15,404.1                    | 10,454.3                    | 4,973.2           | -446.3          | 15405.0' Projected to Bit |