



**MEWBOURNE**  
**OIL COMPANY**

NM OIL CONSERVATION  
ARTESIA DISTRICT

MAR 06 2019

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## **Mewbourne Oil Company**

Eddy County, N.M. Nad (83)

Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com

Fleetwood 36/25 W0ML St Com 3H

Original Hole

Design: Original Hole

## **Standard Survey Report**

24 September, 2018



|                  |                                                   |                                     |                                        |
|------------------|---------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                             | <b>Local Co-ordinate Reference:</b> | Well Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                        | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S-28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                    | <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>     | Eddy 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 36/25-24S-28E Fleetwood 36/25 W0ML St Com |  |  |
|-------------|---------------------------------------------------|--|--|

|                              |          |                     |                 |                          |                  |
|------------------------------|----------|---------------------|-----------------|--------------------------|------------------|
| <b>Site Position:</b>        |          | <b>Northing:</b>    | 424,605.20 usft | <b>Latitude:</b>         | 32° 10' 1.177 N  |
| <b>From:</b>                 | Map      | <b>Easting:</b>     | 629,952.80 usft | <b>Longitude:</b>        | 104° 2' 49.008 W |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.15 °           |

|                             |                                |          |                            |                 |                                    |
|-----------------------------|--------------------------------|----------|----------------------------|-----------------|------------------------------------|
| <b>Well</b>                 | Fleetwood 36/25 W0ML St Com 3H |          |                            |                 |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>                   | 0.0 usft | <b>Northing:</b>           | 424,605.20 usft | <b>Latitude:</b> 32° 10' 1.177 N   |
|                             | <b>+E/-W</b>                   | 0.0 usft | <b>Easting:</b>            | 629,952.80 usft | <b>Longitude:</b> 104° 2' 49.008 W |
| <b>Position Uncertainty</b> | 0.0 usft                       |          | <b>Wellhead Elevation:</b> | 27.0 usft       | <b>Ground Level:</b> 2,944.0 usft  |

|                 |               |  |  |  |  |
|-----------------|---------------|--|--|--|--|
| <b>Wellbore</b> | Original Hole |  |  |  |  |
|-----------------|---------------|--|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2015   | 7/30/2018   | 7.05            | 59.92         | 47,742.34408758     |

|               |               |  |  |  |  |
|---------------|---------------|--|--|--|--|
| <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 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|-------------------|-------------------------|--------------|--------------|---------------|
|                   | 0.0                     | 0.0          | 0.0          | 55.43         |

| <b>Survey Program</b> | Date 9/24/2018 |                            |           |             |  |
|-----------------------|----------------|----------------------------|-----------|-------------|--|
| From (usft)           | To (usft)      | Survey (Wellbore)          | Tool Name | Description |  |
| 400.0                 | 17,195.0       | MWD Survey (Original Hole) | GyroFlex  |             |  |

| 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) |
| 400.0                                | 4.60            | 64.48       | 399.4                 | 9.5          | 13.9         | 16.8                    | 0.00                    | 0.00                   | 0.00                  |
| <b>400.0' MD Phoenix Gyro Survey</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 569.0                                | 6.10            | 56.90       | 567.7                 | 17.4         | 27.5         | 32.5                    | 0.98                    | 0.89                   | -4.49                 |
| 752.0                                | 0.90            | 336.80      | 750.3                 | 24.0         | 35.1         | 42.5                    | 3.28                    | -2.84                  | -43.77                |
| 946.0                                | 2.50            | 286.70      | 944.2                 | 26.6         | 30.4         | 40.2                    | 1.05                    | 0.82                   | -25.82                |
| 1,136.0                              | 3.30            | 254.40      | 1,134.0               | 26.3         | 21.2         | 32.4                    | 0.94                    | 0.42                   | -17.00                |
| 1,326.0                              | 2.90            | 254.50      | 1,323.7               | 23.6         | 11.3         | 22.7                    | 0.21                    | -0.21                  | 0.05                  |
| 1,516.0                              | 2.70            | 254.00      | 1,513.5               | 21.1         | 2.4          | 13.9                    | 0.11                    | -0.11                  | -0.26                 |
| 1,706.0                              | 1.90            | 251.70      | 1,703.3               | 18.9         | -4.9         | 6.6                     | 0.42                    | -0.42                  | -1.21                 |
| 1,896.0                              | 1.10            | 247.80      | 1,893.3               | 17.2         | -9.6         | 1.8                     | 0.42                    | -0.42                  | -2.05                 |

|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                     | <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) |
| 2,087.0                                    | 1.70            | 152.60      | 2,084.2               | 14.0         | -10.0        | -0.3                    | 1.10                    | 0.31                   | -49.84                |
| 2,278.0                                    | 2.40            | 121.60      | 2,275.1               | 9.4          | -5.3         | 0.9                     | 0.67                    | 0.37                   | -16.23                |
| 2,469.0                                    | 2.90            | 119.10      | 2,465.9               | 4.9          | 2.3          | 4.7                     | 0.27                    | 0.26                   | -1.31                 |
| 2,579.0                                    | 1.90            | 115.40      | 2,575.8               | 2.8          | 6.4          | 6.9                     | 0.92                    | -0.91                  | -3.36                 |
| 2,692.0                                    | 2.20            | 110.70      | 2,688.7               | 1.2          | 10.1         | 9.0                     | 0.30                    | 0.27                   | -4.16                 |
| 2,882.0                                    | 2.30            | 213.40      | 2,878.6               | -3.3         | 11.4         | 7.6                     | 1.85                    | 0.05                   | 54.05                 |
| 3,073.0                                    | 4.40            | 236.10      | 3,069.3               | -10.6        | 3.3          | -3.3                    | 1.28                    | 1.10                   | 11.88                 |
| 3,264.0                                    | 4.20            | 252.70      | 3,259.8               | -16.7        | -9.5         | -17.3                   | 0.66                    | -0.10                  | 8.69                  |
| 3,455.0                                    | 5.00            | 247.00      | 3,450.2               | -22.1        | -23.8        | -32.1                   | 0.48                    | 0.42                   | -2.98                 |
| 3,644.0                                    | 4.40            | 245.10      | 3,638.5               | -28.3        | -38.0        | -47.4                   | 0.33                    | -0.32                  | -1.01                 |
| 3,834.0                                    | 4.70            | 241.50      | 3,827.9               | -35.1        | -51.5        | -62.3                   | 0.22                    | 0.16                   | -1.89                 |
| 4,026.0                                    | 4.70            | 250.40      | 4,019.3               | -41.5        | -65.8        | -77.7                   | 0.38                    | 0.00                   | 4.64                  |
| 4,216.0                                    | 4.80            | 253.60      | 4,208.6               | -46.4        | -80.7        | -92.8                   | 0.15                    | 0.05                   | 1.68                  |
| 4,406.0                                    | 4.60            | 251.80      | 4,398.0               | -51.0        | -95.6        | -107.6                  | 0.13                    | -0.11                  | -0.95                 |
| 4,597.0                                    | 4.60            | 249.50      | 4,588.4               | -56.1        | -110.0       | -122.4                  | 0.10                    | 0.00                   | -1.20                 |
| 4,787.0                                    | 4.20            | 247.90      | 4,777.8               | -61.3        | -123.6       | -136.6                  | 0.22                    | -0.21                  | -0.84                 |
| 4,977.0                                    | 4.70            | 251.00      | 4,967.3               | -66.5        | -137.4       | -150.9                  | 0.29                    | 0.26                   | 1.63                  |
| 5,167.0                                    | 4.00            | 248.70      | 5,156.7               | -71.4        | -151.0       | -164.8                  | 0.38                    | -0.37                  | -1.21                 |
| 5,357.0                                    | 5.30            | 247.00      | 5,346.1               | -77.3        | -165.2       | -179.9                  | 0.69                    | 0.68                   | -0.89                 |
| 5,545.0                                    | 4.10            | 245.30      | 5,533.4               | -83.5        | -179.3       | -195.0                  | 0.64                    | -0.64                  | -0.90                 |
| 5,734.0                                    | 4.80            | 247.00      | 5,721.9               | -89.4        | -192.7       | -209.4                  | 0.38                    | 0.37                   | 0.90                  |
| 5,923.0                                    | 4.10            | 242.70      | 5,910.3               | -95.6        | -206.0       | -223.9                  | 0.41                    | -0.37                  | -2.28                 |
| 6,113.0                                    | 5.10            | 246.00      | 6,099.7               | -102.1       | -219.8       | -238.9                  | 0.54                    | 0.53                   | 1.74                  |
| 6,302.0                                    | 5.20            | 249.20      | 6,287.9               | -108.6       | -235.5       | -255.5                  | 0.16                    | 0.05                   | 1.69                  |
| 6,492.0                                    | 4.10            | 259.70      | 6,477.3               | -112.9       | -250.2       | -270.1                  | 0.73                    | -0.58                  | 5.53                  |
| 6,683.0                                    | 4.20            | 254.70      | 6,667.8               | -115.9       | -263.7       | -282.9                  | 0.20                    | 0.05                   | -2.62                 |
| 6,873.0                                    | 2.20            | 251.30      | 6,857.5               | -118.9       | -273.8       | -293.0                  | 1.06                    | -1.05                  | -1.79                 |
| 7,064.0                                    | 3.40            | 238.10      | 7,048.3               | -123.1       | -282.1       | -302.1                  | 0.71                    | 0.63                   | -6.91                 |
| 7,254.0                                    | 2.10            | 241.10      | 7,238.0               | -127.8       | -289.9       | -311.2                  | 0.69                    | -0.68                  | 1.58                  |
| 7,443.0                                    | 4.90            | 248.20      | 7,426.7               | -132.4       | -300.5       | -322.6                  | 1.50                    | 1.48                   | 3.76                  |
| 7,635.0                                    | 4.90            | 248.90      | 7,618.0               | -138.4       | -315.7       | -338.5                  | 0.03                    | 0.00                   | 0.36                  |
| 7,823.0                                    | 4.50            | 242.70      | 7,805.3               | -144.7       | -329.8       | -353.6                  | 0.34                    | -0.21                  | -3.30                 |
| 8,014.0                                    | 4.80            | 256.40      | 7,995.7               | -150.0       | -344.2       | -368.5                  | 0.60                    | 0.16                   | 7.17                  |
| 8,204.0                                    | 3.00            | 267.90      | 8,185.3               | -152.1       | -356.9       | -380.2                  | 1.03                    | -0.95                  | 6.05                  |
| 8,394.0                                    | 3.80            | 256.80      | 8,374.9               | -153.7       | -368.0       | -390.2                  | 0.54                    | 0.42                   | -5.84                 |
| 8,585.0                                    | 4.00            | 253.80      | 8,565.5               | -157.0       | -380.5       | -402.4                  | 0.15                    | 0.10                   | -1.57                 |
| 8,776.0                                    | 4.40            | 234.90      | 8,756.0               | -163.1       | -392.9       | -416.1                  | 0.75                    | 0.21                   | -9.90                 |
| 8,966.0                                    | 3.30            | 226.90      | 8,945.6               | -171.0       | -402.9       | -428.8                  | 0.64                    | -0.58                  | -4.21                 |
| 9,117.3                                    | 1.86            | 238.35      | 9,096.7               | -175.3       | -408.2       | -435.5                  | 1.01                    | -0.95                  | 7.57                  |
| <b>B.B. Fleetwood 36/25 W0ML St Com 3H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,120.9                                    | 1.83            | 238.84      | 9,100.3               | -175.3       | -408.3       | -435.7                  | 1.01                    | -0.91                  | 13.58                 |
| <b>New B.B. Fleetwood 36/25 W0ML 3H</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,158.0                                    | 1.50            | 245.10      | 9,137.4               | -175.8       | -409.2       | -436.7                  | 1.01                    | -0.88                  | 16.86                 |

|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                     | <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) |  |
| 2,087.0                                    | 1.70            | 152.60      | 2,084.2               | 14.0         | -10.0        | -0.3                    | 1.10                    | 0.31                   | -49.84                |  |
| 2,278.0                                    | 2.40            | 121.60      | 2,275.1               | 9.4          | -5.3         | 0.9                     | 0.67                    | 0.37                   | -16.23                |  |
| 2,469.0                                    | 2.90            | 119.10      | 2,465.9               | 4.9          | 2.3          | 4.7                     | 0.27                    | 0.26                   | -1.31                 |  |
| 2,579.0                                    | 1.90            | 115.40      | 2,575.8               | 2.8          | 6.4          | 6.9                     | 0.92                    | -0.91                  | -3.36                 |  |
| 2,692.0                                    | 2.20            | 110.70      | 2,688.7               | 1.2          | 10.1         | 9.0                     | 0.30                    | 0.27                   | -4.16                 |  |
| 2,882.0                                    | 2.30            | 213.40      | 2,878.6               | -3.3         | 11.4         | 7.6                     | 1.85                    | 0.05                   | 54.05                 |  |
| 3,073.0                                    | 4.40            | 236.10      | 3,069.3               | -10.6        | 3.3          | -3.3                    | 1.28                    | 1.10                   | 11.88                 |  |
| 3,264.0                                    | 4.20            | 252.70      | 3,259.8               | -16.7        | -9.5         | -17.3                   | 0.66                    | -0.10                  | 8.69                  |  |
| 3,455.0                                    | 5.00            | 247.00      | 3,450.2               | -22.1        | -23.8        | -32.1                   | 0.48                    | 0.42                   | -2.98                 |  |
| 3,644.0                                    | 4.40            | 245.10      | 3,638.5               | -28.3        | -38.0        | -47.4                   | 0.33                    | -0.32                  | -1.01                 |  |
| 3,834.0                                    | 4.70            | 241.50      | 3,827.9               | -35.1        | -51.5        | -62.3                   | 0.22                    | 0.16                   | -1.89                 |  |
| 4,026.0                                    | 4.70            | 250.40      | 4,019.3               | -41.5        | -65.8        | -77.7                   | 0.38                    | 0.00                   | 4.64                  |  |
| 4,216.0                                    | 4.80            | 253.60      | 4,208.6               | -46.4        | -80.7        | -92.8                   | 0.15                    | 0.05                   | 1.68                  |  |
| 4,406.0                                    | 4.60            | 251.80      | 4,398.0               | -51.0        | -95.6        | -107.6                  | 0.13                    | -0.11                  | -0.95                 |  |
| 4,597.0                                    | 4.60            | 249.50      | 4,588.4               | -56.1        | -110.0       | -122.4                  | 0.10                    | 0.00                   | -1.20                 |  |
| 4,787.0                                    | 4.20            | 247.90      | 4,777.8               | -61.3        | -123.6       | -136.6                  | 0.22                    | -0.21                  | -0.84                 |  |
| 4,977.0                                    | 4.70            | 251.00      | 4,967.3               | -66.5        | -137.4       | -150.9                  | 0.29                    | 0.26                   | 1.63                  |  |
| 5,167.0                                    | 4.00            | 248.70      | 5,156.7               | -71.4        | -151.0       | -164.8                  | 0.38                    | -0.37                  | -1.21                 |  |
| 5,357.0                                    | 5.30            | 247.00      | 5,346.1               | -77.3        | -165.2       | -179.9                  | 0.69                    | 0.68                   | -0.89                 |  |
| 5,545.0                                    | 4.10            | 245.30      | 5,533.4               | -83.5        | -179.3       | -195.0                  | 0.64                    | -0.64                  | -0.90                 |  |
| 5,734.0                                    | 4.80            | 247.00      | 5,721.9               | -89.4        | -192.7       | -209.4                  | 0.38                    | 0.37                   | 0.90                  |  |
| 5,923.0                                    | 4.10            | 242.70      | 5,910.3               | -95.6        | -206.0       | -223.9                  | 0.41                    | -0.37                  | -2.28                 |  |
| 6,113.0                                    | 5.10            | 246.00      | 6,099.7               | -102.1       | -219.8       | -238.9                  | 0.54                    | 0.53                   | 1.74                  |  |
| 6,302.0                                    | 5.20            | 249.20      | 6,287.9               | -108.6       | -235.5       | -255.5                  | 0.16                    | 0.05                   | 1.69                  |  |
| 6,492.0                                    | 4.10            | 259.70      | 6,477.3               | -112.9       | -250.2       | -270.1                  | 0.73                    | -0.58                  | 5.53                  |  |
| 6,683.0                                    | 4.20            | 254.70      | 6,667.8               | -115.9       | -263.7       | -282.9                  | 0.20                    | 0.05                   | -2.62                 |  |
| 6,873.0                                    | 2.20            | 251.30      | 6,857.5               | -118.9       | -273.8       | -293.0                  | 1.06                    | -1.05                  | -1.79                 |  |
| 7,064.0                                    | 3.40            | 238.10      | 7,048.3               | -123.1       | -282.1       | -302.1                  | 0.71                    | 0.63                   | -6.91                 |  |
| 7,254.0                                    | 2.10            | 241.10      | 7,238.0               | -127.8       | -289.9       | -311.2                  | 0.69                    | -0.68                  | 1.58                  |  |
| 7,443.0                                    | 4.90            | 248.20      | 7,426.7               | -132.4       | -300.5       | -322.6                  | 1.50                    | 1.48                   | 3.76                  |  |
| 7,635.0                                    | 4.90            | 248.90      | 7,618.0               | -138.4       | -315.7       | -338.5                  | 0.03                    | 0.00                   | 0.36                  |  |
| 7,823.0                                    | 4.50            | 242.70      | 7,805.3               | -144.7       | -329.8       | -353.6                  | 0.34                    | -0.21                  | -3.30                 |  |
| 8,014.0                                    | 4.80            | 256.40      | 7,995.7               | -150.0       | -344.2       | -368.5                  | 0.60                    | 0.16                   | 7.17                  |  |
| 8,204.0                                    | 3.00            | 267.90      | 8,185.3               | -152.1       | -356.9       | -380.2                  | 1.03                    | -0.95                  | 6.05                  |  |
| 8,394.0                                    | 3.80            | 256.80      | 8,374.9               | -153.7       | -368.0       | -390.2                  | 0.54                    | 0.42                   | -5.84                 |  |
| 8,585.0                                    | 4.00            | 253.80      | 8,565.5               | -157.0       | -380.5       | -402.4                  | 0.15                    | 0.10                   | -1.57                 |  |
| 8,776.0                                    | 4.40            | 234.90      | 8,756.0               | -163.1       | -392.9       | -416.1                  | 0.75                    | 0.21                   | -9.90                 |  |
| 8,966.0                                    | 3.30            | 226.90      | 8,945.6               | -171.0       | -402.9       | -428.8                  | 0.64                    | -0.58                  | -4.21                 |  |
| 9,117.3                                    | 1.86            | 238.35      | 9,096.7               | -175.3       | -408.2       | -435.5                  | 1.01                    | -0.95                  | 7.57                  |  |
| <b>B.B. Fleetwood 36/25 W0ML St Com 3H</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,120.9                                    | 1.83            | 238.84      | 9,100.3               | -175.3       | -408.3       | -435.7                  | 1.01                    | -0.91                  | 13.58                 |  |
| <b>New B.B. Fleetwood 36/25 W0ML 3H</b>    |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,158.0                                    | 1.50            | 245.10      | 9,137.4               | -175.8       | -409.2       | -436.7                  | 1.01                    | -0.88                  | 16.86                 |  |

|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                     | <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) |
| 9,253.0                           | 2.20            | 319.30      | 9,232.3               | -175.0       | -411.5       | -438.1                  | 2.42                    | 0.74                   | 78.11                 |
| 9,285.0                           | 5.60            | 347.10      | 9,264.3               | -173.0       | -412.3       | -437.6                  | 11.86                   | 10.63                  | 86.88                 |
| 9,317.0                           | 9.40            | 353.40      | 9,296.0               | -168.9       | -412.9       | -435.8                  | 12.13                   | 11.88                  | 19.69                 |
| 9,349.0                           | 13.20           | 358.00      | 9,327.4               | -162.6       | -413.4       | -432.6                  | 12.20                   | 11.88                  | 14.38                 |
| 9,380.0                           | 16.60           | 357.60      | 9,357.3               | -154.6       | -413.7       | -428.4                  | 10.97                   | 10.97                  | -1.29                 |
| 9,411.0                           | 20.90           | 359.70      | 9,386.7               | -144.7       | -413.9       | -422.9                  | 14.04                   | 13.87                  | 6.77                  |
| 9,443.0                           | 24.90           | 1.20        | 9,416.1               | -132.2       | -413.8       | -415.7                  | 12.63                   | 12.50                  | 4.69                  |
| 9,475.0                           | 29.00           | 1.20        | 9,444.7               | -117.7       | -413.5       | -407.3                  | 12.81                   | 12.81                  | 0.00                  |
| 9,507.0                           | 33.00           | 2.80        | 9,472.1               | -101.3       | -412.9       | -397.4                  | 12.76                   | 12.50                  | 5.00                  |
| 9,538.0                           | 35.60           | 2.00        | 9,497.7               | -83.8        | -412.1       | -386.9                  | 8.51                    | 8.39                   | -2.58                 |
| 9,570.0                           | 40.00           | 2.20        | 9,523.0               | -64.2        | -411.4       | -375.2                  | 13.76                   | 13.75                  | 0.63                  |
| 9,602.0                           | 45.00           | 3.10        | 9,546.6               | -42.6        | -410.4       | -362.2                  | 15.74                   | 15.63                  | 2.81                  |
| 9,633.0                           | 47.90           | 3.70        | 9,567.9               | -20.2        | -409.1       | -348.3                  | 9.46                    | 9.35                   | 1.94                  |
| 9,665.0                           | 51.10           | 3.40        | 9,588.7               | 4.1          | -407.6       | -333.3                  | 10.03                   | 10.00                  | -0.94                 |
| 9,697.0                           | 54.40           | 2.70        | 9,608.1               | 29.5         | -406.2       | -317.8                  | 10.46                   | 10.31                  | -2.19                 |
| 9,729.0                           | 56.50           | 3.10        | 9,626.2               | 55.8         | -404.9       | -301.7                  | 6.64                    | 6.56                   | 1.25                  |
| 9,761.0                           | 60.00           | 3.00        | 9,643.0               | 83.0         | -403.4       | -285.1                  | 10.94                   | 10.94                  | -0.31                 |
| 9,792.0                           | 62.90           | 2.90        | 9,657.9               | 110.2        | -402.0       | -268.5                  | 9.36                    | 9.35                   | -0.32                 |
| 9,824.0                           | 67.30           | 4.30        | 9,671.3               | 139.1        | -400.2       | -250.6                  | 14.31                   | 13.75                  | 4.38                  |
| 9,856.0                           | 69.80           | 3.10        | 9,683.0               | 168.9        | -398.3       | -232.2                  | 8.56                    | 7.81                   | -3.75                 |
| 9,895.0                           | 71.30           | 2.50        | 9,696.0               | 205.6        | -396.5       | -209.9                  | 4.11                    | 3.85                   | -1.54                 |
| 9,937.0                           | 75.60           | 1.60        | 9,708.0               | 245.8        | -395.1       | -185.8                  | 10.44                   | 10.24                  | -2.14                 |
| 9,969.0                           | 72.80           | 0.00        | 9,716.7               | 276.6        | -394.6       | -168.0                  | 9.99                    | -8.75                  | -5.00                 |
| 10,000.0                          | 68.60           | 356.20      | 9,726.9               | 305.8        | -395.6       | -152.2                  | 17.81                   | -13.55                 | -12.26                |
| 10,032.0                          | 69.90           | 353.80      | 9,738.3               | 335.6        | -398.2       | -137.5                  | 8.10                    | 4.06                   | -7.50                 |
| 10,064.0                          | 78.90           | 352.70      | 9,746.9               | 366.2        | -401.8       | -123.1                  | 28.32                   | 28.13                  | -3.44                 |
| 10,104.0                          | 92.10           | 351.80      | 9,750.0               | 405.6        | -407.2       | -105.2                  | 33.08                   | 33.00                  | -2.25                 |
| 10,167.0                          | 97.00           | 354.40      | 9,745.0               | 468.0        | -414.7       | -76.0                   | 8.80                    | 7.78                   | 4.13                  |
| 10,169.6                          | 97.00           | 354.40      | 9,744.7               | 470.5        | -415.0       | -74.8                   | 0.00                    | 0.00                   | 0.00                  |
| LP Fleetwood 36/25 W0ML St Com 3H |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,263.0                          | 97.10           | 354.30      | 9,733.2               | 562.8        | -424.1       | -29.9                   | 0.15                    | 0.11                   | -0.11                 |
| 10,358.0                          | 95.30           | 356.90      | 9,723.0               | 656.9        | -431.4       | 17.5                    | 3.32                    | -1.89                  | 2.74                  |
| 10,454.0                          | 96.00           | 1.20        | 9,713.5               | 752.4        | -432.9       | 70.4                    | 4.52                    | 0.73                   | 4.48                  |
| 10,548.0                          | 94.40           | 1.70        | 9,705.0               | 846.0        | -430.6       | 125.4                   | 1.78                    | -1.70                  | 0.53                  |
| 10,643.0                          | 90.50           | 2.70        | 9,700.9               | 940.8        | -426.9       | 182.2                   | 4.24                    | -4.11                  | 1.05                  |
| 10,738.0                          | 91.50           | 3.10        | 9,699.3               | 1,035.7      | -422.1       | 240.0                   | 1.13                    | -1.05                  | 0.42                  |
| 10,833.0                          | 89.90           | 3.80        | 9,698.1               | 1,130.5      | -416.4       | 298.5                   | 1.84                    | -1.68                  | 0.74                  |
| 10,929.0                          | 89.80           | 4.60        | 9,698.4               | 1,226.2      | -409.4       | 358.6                   | 0.84                    | -0.10                  | 0.83                  |
| 11,023.0                          | 88.80           | 3.40        | 9,699.5               | 1,320.0      | -402.8       | 417.2                   | 1.66                    | -1.06                  | -1.28                 |
| 11,119.0                          | 90.50           | 3.90        | 9,700.1               | 1,415.8      | -396.7       | 476.6                   | 1.85                    | 1.77                   | 0.52                  |
| 11,214.0                          | 88.40           | 1.70        | 9,701.0               | 1,510.7      | -392.1       | 534.3                   | 3.20                    | -2.21                  | -2.32                 |
| 11,309.0                          | 91.60           | 3.40        | 9,701.0               | 1,605.6      | -387.8       | 591.6                   | 3.81                    | 3.37                   | 1.79                  |

|                  |                                                    |                                     |                                        |
|------------------|----------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                              | <b>Local Co-ordinate Reference:</b> | Well Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                         | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                     | <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) |
| 11,404.0              | 88.60           | 359.80      | 9,700.8               | 1,700.5      | -385.2       | 647.6                   | 4.93                    | -3.16                  | -3.79                 |
| 11,499.0              | 90.70           | 0.10        | 9,701.4               | 1,795.5      | -385.3       | 701.5                   | 2.23                    | 2.21                   | 0.32                  |
| 11,595.0              | 91.50           | 0.50        | 9,699.6               | 1,891.5      | -384.8       | 756.3                   | 0.93                    | 0.83                   | 0.42                  |
| 11,689.0              | 88.80           | 357.00      | 9,699.3               | 1,985.4      | -386.8       | 808.0                   | 4.70                    | -2.87                  | -3.72                 |
| 11,785.0              | 91.10           | 358.40      | 9,699.4               | 2,081.3      | -390.7       | 859.2                   | 2.80                    | 2.40                   | 1.46                  |
| 11,880.0              | 88.50           | 357.60      | 9,699.7               | 2,176.3      | -394.0       | 910.4                   | 2.86                    | -2.74                  | -0.84                 |
| 11,975.0              | 90.90           | 0.50        | 9,700.2               | 2,271.2      | -395.6       | 962.9                   | 3.96                    | 2.53                   | 3.05                  |
| 12,069.0              | 88.90           | 0.50        | 9,700.4               | 2,365.2      | -394.8       | 1,016.9                 | 2.13                    | -2.13                  | 0.00                  |
| 12,164.0              | 90.80           | 1.20        | 9,700.7               | 2,460.2      | -393.3       | 1,072.0                 | 2.13                    | 2.00                   | 0.74                  |
| 12,260.0              | 91.70           | 358.40      | 9,698.6               | 2,556.2      | -393.7       | 1,126.2                 | 3.06                    | 0.94                   | -2.92                 |
| 12,355.0              | 91.80           | 359.20      | 9,695.7               | 2,651.1      | -395.7       | 1,178.4                 | 0.85                    | 0.11                   | 0.84                  |
| 12,449.0              | 89.40           | 357.30      | 9,694.7               | 2,745.1      | -398.5       | 1,229.3                 | 3.26                    | -2.55                  | -2.02                 |
| 12,544.0              | 87.70           | 355.20      | 9,697.1               | 2,839.8      | -404.7       | 1,278.0                 | 2.84                    | -1.79                  | -2.21                 |
| 12,640.0              | 86.50           | 354.30      | 9,701.9               | 2,935.3      | -413.5       | 1,324.9                 | 1.56                    | -1.25                  | -0.94                 |
| 12,735.0              | 87.60           | 355.80      | 9,706.8               | 3,029.8      | -421.7       | 1,371.8                 | 1.96                    | 1.16                   | 1.58                  |
| 12,830.0              | 90.70           | 358.80      | 9,708.2               | 3,124.7      | -426.2       | 1,422.0                 | 4.54                    | 3.26                   | 3.16                  |
| 12,926.0              | 90.40           | 358.90      | 9,707.3               | 3,220.6      | -428.1       | 1,474.8                 | 0.33                    | -0.31                  | 0.10                  |
| 13,021.0              | 91.20           | 358.70      | 9,706.0               | 3,315.6      | -430.1       | 1,527.1                 | 0.87                    | 0.84                   | -0.21                 |
| 13,116.0              | 91.30           | 1.60        | 9,703.9               | 3,410.6      | -429.8       | 1,581.2                 | 3.05                    | 0.11                   | 3.05                  |
| 13,211.0              | 91.00           | 1.10        | 9,702.0               | 3,505.5      | -427.6       | 1,636.9                 | 0.61                    | -0.32                  | -0.53                 |
| 13,305.0              | 91.20           | 0.50        | 9,700.2               | 3,599.5      | -426.3       | 1,691.3                 | 0.67                    | 0.21                   | -0.64                 |
| 13,400.0              | 89.60           | 0.60        | 9,699.5               | 3,694.5      | -425.4       | 1,745.9                 | 1.69                    | -1.68                  | 0.11                  |
| 13,495.0              | 90.90           | 2.40        | 9,699.1               | 3,789.5      | -422.9       | 1,801.9                 | 2.34                    | 1.37                   | 1.89                  |
| 13,590.0              | 89.20           | 1.90        | 9,699.0               | 3,884.4      | -419.3       | 1,858.6                 | 1.87                    | -1.79                  | -0.53                 |
| 13,685.0              | 90.60           | 359.70      | 9,699.2               | 3,979.4      | -418.0       | 1,913.6                 | 2.74                    | 1.47                   | -2.32                 |
| 13,780.0              | 91.30           | 0.00        | 9,697.6               | 4,074.4      | -418.3       | 1,967.3                 | 0.80                    | 0.74                   | 0.32                  |
| 13,875.0              | 91.10           | 1.40        | 9,695.6               | 4,169.3      | -417.1       | 2,022.2                 | 1.49                    | -0.21                  | 1.47                  |
| 13,970.0              | 87.70           | 359.90      | 9,696.6               | 4,264.3      | -416.0       | 2,076.9                 | 3.91                    | -3.58                  | -1.58                 |
| 14,065.0              | 88.90           | 359.40      | 9,699.5               | 4,359.2      | -416.6       | 2,130.3                 | 1.37                    | 1.26                   | -0.53                 |
| 14,162.0              | 89.70           | 359.10      | 9,700.6               | 4,456.2      | -417.9       | 2,184.3                 | 0.88                    | 0.82                   | -0.31                 |
| 14,256.0              | 91.70           | 358.90      | 9,699.5               | 4,550.2      | -419.5       | 2,236.3                 | 2.14                    | 2.13                   | -0.21                 |
| 14,351.0              | 91.20           | 358.30      | 9,697.1               | 4,645.1      | -421.8       | 2,288.2                 | 0.82                    | -0.53                  | -0.63                 |
| 14,446.0              | 90.70           | 358.70      | 9,695.5               | 4,740.1      | -424.3       | 2,340.1                 | 0.67                    | -0.53                  | 0.42                  |
| 14,541.0              | 89.10           | 356.90      | 9,695.7               | 4,835.0      | -428.0       | 2,390.9                 | 2.54                    | -1.68                  | -1.89                 |
| 14,636.0              | 91.40           | 357.70      | 9,695.3               | 4,929.9      | -432.4       | 2,441.1                 | 2.56                    | 2.42                   | 0.84                  |
| 14,731.0              | 90.80           | 359.10      | 9,693.4               | 5,024.9      | -435.1       | 2,492.8                 | 1.60                    | -0.63                  | 1.47                  |
| 14,826.0              | 89.40           | 357.80      | 9,693.3               | 5,119.8      | -437.7       | 2,544.5                 | 2.01                    | -1.47                  | -1.37                 |
| 14,921.0              | 91.00           | 2.00        | 9,692.9               | 5,214.8      | -437.8       | 2,598.3                 | 4.73                    | 1.68                   | 4.42                  |
| 15,016.0              | 89.30           | 0.60        | 9,692.7               | 5,309.8      | -435.7       | 2,653.9                 | 2.32                    | -1.79                  | -1.47                 |
| 15,112.0              | 88.70           | 0.90        | 9,694.4               | 5,405.7      | -434.4       | 2,709.4                 | 0.70                    | -0.63                  | 0.31                  |
| 15,206.0              | 89.50           | 1.50        | 9,695.8               | 5,499.7      | -432.4       | 2,764.4                 | 1.06                    | 0.85                   | 0.64                  |
| 15,302.0              | 94.50           | 2.30        | 9,692.5               | 5,595.6      | -429.3       | 2,821.4                 | 5.27                    | 5.21                   | 0.83                  |
| 15,396.0              | 94.20           | 2.30        | 9,685.4               | 5,689.2      | -425.5       | 2,877.6                 | 0.32                    | -0.32                  | 0.00                  |

|                  |                                                   |                                     |                                        |
|------------------|---------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                             | <b>Local Co-ordinate Reference:</b> | Well-Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                        | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S-28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                    | <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) |
| 11,404.0              | 88.60           | 359.80      | 9,700.8               | 1,700.5      | -385.2       | 647.6                   | 4.93                    | -3.16                  | -3.79                 |
| 11,499.0              | 90.70           | 0.10        | 9,701.4               | 1,795.5      | -385.3       | 701.5                   | 2.23                    | 2.21                   | 0.32                  |
| 11,595.0              | 91.50           | 0.50        | 9,699.6               | 1,891.5      | -384.8       | 756.3                   | 0.93                    | 0.83                   | 0.42                  |
| 11,689.0              | 88.80           | 357.00      | 9,699.3               | 1,985.4      | -386.8       | 808.0                   | 4.70                    | -2.87                  | -3.72                 |
| 11,785.0              | 91.10           | 358.40      | 9,699.4               | 2,081.3      | -390.7       | 859.2                   | 2.80                    | 2.40                   | 1.46                  |
| 11,880.0              | 88.50           | 357.60      | 9,699.7               | 2,176.3      | -394.0       | 910.4                   | 2.86                    | -2.74                  | -0.84                 |
| 11,975.0              | 90.90           | 0.50        | 9,700.2               | 2,271.2      | -395.6       | 962.9                   | 3.96                    | 2.53                   | 3.05                  |
| 12,069.0              | 88.90           | 0.50        | 9,700.4               | 2,365.2      | -394.8       | 1,016.9                 | 2.13                    | -2.13                  | 0.00                  |
| 12,164.0              | 90.80           | 1.20        | 9,700.7               | 2,460.2      | -393.3       | 1,072.0                 | 2.13                    | 2.00                   | 0.74                  |
| 12,260.0              | 91.70           | 358.40      | 9,698.6               | 2,556.2      | -393.7       | 1,126.2                 | 3.06                    | 0.94                   | -2.92                 |
| 12,355.0              | 91.80           | 359.20      | 9,695.7               | 2,651.1      | -395.7       | 1,178.4                 | 0.85                    | 0.11                   | 0.84                  |
| 12,449.0              | 89.40           | 357.30      | 9,694.7               | 2,745.1      | -398.5       | 1,229.3                 | 3.26                    | -2.55                  | -2.02                 |
| 12,544.0              | 87.70           | 355.20      | 9,697.1               | 2,839.8      | -404.7       | 1,278.0                 | 2.84                    | -1.79                  | -2.21                 |
| 12,640.0              | 86.50           | 354.30      | 9,701.9               | 2,935.3      | -413.5       | 1,324.9                 | 1.56                    | -1.25                  | -0.94                 |
| 12,735.0              | 87.60           | 355.80      | 9,706.8               | 3,029.8      | -421.7       | 1,371.8                 | 1.96                    | 1.16                   | 1.58                  |
| 12,830.0              | 90.70           | 358.80      | 9,708.2               | 3,124.7      | -426.2       | 1,422.0                 | 4.54                    | 3.26                   | 3.16                  |
| 12,926.0              | 90.40           | 358.90      | 9,707.3               | 3,220.6      | -428.1       | 1,474.8                 | 0.33                    | -0.31                  | 0.10                  |
| 13,021.0              | 91.20           | 358.70      | 9,706.0               | 3,315.6      | -430.1       | 1,527.1                 | 0.87                    | 0.84                   | -0.21                 |
| 13,116.0              | 91.30           | 1.60        | 9,703.9               | 3,410.6      | -429.8       | 1,581.2                 | 3.05                    | 0.11                   | 3.05                  |
| 13,211.0              | 91.00           | 1.10        | 9,702.0               | 3,505.5      | -427.6       | 1,636.9                 | 0.61                    | -0.32                  | -0.53                 |
| 13,305.0              | 91.20           | 0.50        | 9,700.2               | 3,599.5      | -426.3       | 1,691.3                 | 0.67                    | 0.21                   | -0.64                 |
| 13,400.0              | 89.60           | 0.60        | 9,699.5               | 3,694.5      | -425.4       | 1,745.9                 | 1.69                    | -1.68                  | 0.11                  |
| 13,495.0              | 90.90           | 2.40        | 9,699.1               | 3,789.5      | -422.9       | 1,801.9                 | 2.34                    | 1.37                   | 1.89                  |
| 13,590.0              | 89.20           | 1.90        | 9,699.0               | 3,884.4      | -419.3       | 1,858.6                 | 1.87                    | -1.79                  | -0.53                 |
| 13,685.0              | 90.60           | 359.70      | 9,699.2               | 3,979.4      | -418.0       | 1,913.6                 | 2.74                    | 1.47                   | -2.32                 |
| 13,780.0              | 91.30           | 0.00        | 9,697.6               | 4,074.4      | -418.3       | 1,967.3                 | 0.80                    | 0.74                   | 0.32                  |
| 13,875.0              | 91.10           | 1.40        | 9,695.6               | 4,169.3      | -417.1       | 2,022.2                 | 1.49                    | -0.21                  | 1.47                  |
| 13,970.0              | 87.70           | 359.90      | 9,696.6               | 4,264.3      | -416.0       | 2,076.9                 | 3.91                    | -3.58                  | -1.58                 |
| 14,065.0              | 88.90           | 359.40      | 9,699.5               | 4,359.2      | -416.6       | 2,130.3                 | 1.37                    | 1.26                   | -0.53                 |
| 14,162.0              | 89.70           | 359.10      | 9,700.6               | 4,456.2      | -417.9       | 2,184.3                 | 0.88                    | 0.82                   | -0.31                 |
| 14,256.0              | 91.70           | 358.90      | 9,699.5               | 4,550.2      | -419.5       | 2,236.3                 | 2.14                    | 2.13                   | -0.21                 |
| 14,351.0              | 91.20           | 358.30      | 9,697.1               | 4,645.1      | -421.8       | 2,288.2                 | 0.82                    | -0.53                  | -0.63                 |
| 14,446.0              | 90.70           | 358.70      | 9,695.5               | 4,740.1      | -424.3       | 2,340.1                 | 0.67                    | -0.53                  | 0.42                  |
| 14,541.0              | 89.10           | 356.90      | 9,695.7               | 4,835.0      | -428.0       | 2,390.9                 | 2.54                    | -1.68                  | -1.89                 |
| 14,636.0              | 91.40           | 357.70      | 9,695.3               | 4,929.9      | -432.4       | 2,441.1                 | 2.56                    | 2.42                   | 0.84                  |
| 14,731.0              | 90.80           | 359.10      | 9,693.4               | 5,024.9      | -435.1       | 2,492.8                 | 1.60                    | -0.63                  | 1.47                  |
| 14,826.0              | 89.40           | 357.80      | 9,693.3               | 5,119.8      | -437.7       | 2,544.5                 | 2.01                    | -1.47                  | -1.37                 |
| 14,921.0              | 91.00           | 2.00        | 9,692.9               | 5,214.8      | -437.8       | 2,598.3                 | 4.73                    | 1.68                   | 4.42                  |
| 15,016.0              | 89.30           | 0.60        | 9,692.7               | 5,309.8      | -435.7       | 2,653.9                 | 2.32                    | -1.79                  | -1.47                 |
| 15,112.0              | 88.70           | 0.90        | 9,694.4               | 5,405.7      | -434.4       | 2,709.4                 | 0.70                    | -0.63                  | 0.31                  |
| 15,206.0              | 89.50           | 1.50        | 9,695.8               | 5,499.7      | -432.4       | 2,764.4                 | 1.06                    | 0.85                   | 0.64                  |
| 15,302.0              | 94.50           | 2.30        | 9,692.5               | 5,595.6      | -429.3       | 2,821.4                 | 5.27                    | 5.21                   | 0.83                  |
| 15,396.0              | 94.20           | 2.30        | 9,685.4               | 5,689.2      | -425.5       | 2,877.6                 | 0.32                    | -0.32                  | 0.00                  |

|                  |                                                   |                                     |                                        |
|------------------|---------------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                             | <b>Local Co-ordinate Reference:</b> | Well Fleetwood 36/25 W0ML St Com 3H    |
| <b>Project:</b>  | Eddy County, N.M. Nad (83)                        | <b>TVD Reference:</b>               | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Site:</b>     | Section 36/25-24S-28E Fleetwood 36/25 W0ML St Com | <b>MD Reference:</b>                | 2944 + 27 @ 2971.0usft (Patterson 562) |
| <b>Well:</b>     | Fleetwood 36/25 W0ML St Com 3H                    | <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) |  |
| 15,492.0              | 93.60           | 2.20        | 9,678.8               | 5,784.9      | -421.7       | 2,935.0                 | 0.63                    | -0.63                  | -0.10                 |  |
| 15,587.0              | 90.80           | 359.20      | 9,675.2               | 5,879.8      | -420.6       | 2,989.8                 | 4.32                    | -2.95                  | -3.16                 |  |
| 15,682.0              | 90.80           | 2.10        | 9,673.9               | 5,974.8      | -419.5       | 3,044.6                 | 3.05                    | 0.00                   | 3.05                  |  |
| 15,777.0              | 87.60           | 2.10        | 9,675.2               | 6,069.7      | -416.0       | 3,101.3                 | 3.37                    | -3.37                  | 0.00                  |  |
| 15,871.0              | 89.70           | 1.60        | 9,677.4               | 6,163.6      | -413.0       | 3,157.1                 | 2.30                    | 2.23                   | -0.53                 |  |
| 15,966.0              | 91.40           | 358.60      | 9,676.5               | 6,258.6      | -412.8       | 3,211.1                 | 3.63                    | 1.79                   | -3.16                 |  |
| 16,061.0              | 89.80           | 353.10      | 9,675.5               | 6,353.3      | -419.7       | 3,259.2                 | 6.03                    | -1.68                  | -5.79                 |  |
| 16,157.0              | 90.10           | 349.90      | 9,675.6               | 6,448.2      | -433.9       | 3,301.4                 | 3.35                    | 0.31                   | -3.33                 |  |
| 16,252.0              | 91.20           | 348.40      | 9,674.5               | 6,541.5      | -451.8       | 3,339.6                 | 1.96                    | 1.16                   | -1.58                 |  |
| 16,347.0              | 89.50           | 349.60      | 9,673.9               | 6,634.8      | -469.9       | 3,377.6                 | 2.19                    | -1.79                  | 1.26                  |  |
| 16,441.0              | 90.20           | 349.50      | 9,674.2               | 6,727.2      | -486.9       | 3,416.0                 | 0.75                    | 0.74                   | -0.11                 |  |
| 16,504.0              | 91.00           | 353.40      | 9,673.5               | 6,789.5      | -496.3       | 3,443.6                 | 6.32                    | 1.27                   | 6.19                  |  |
| 16,534.0              | 90.40           | 353.00      | 9,673.1               | 6,819.3      | -499.9       | 3,457.6                 | 2.40                    | -2.00                  | -1.33                 |  |
| 16,585.0              | 93.70           | 357.00      | 9,671.3               | 6,870.1      | -504.3       | 3,482.7                 | 10.16                   | 6.47                   | 7.84                  |  |
| 16,632.0              | 95.00           | 0.40        | 9,667.8               | 6,916.9      | -505.4       | 3,508.4                 | 7.73                    | 2.77                   | 7.23                  |  |
| 16,726.0              | 91.60           | 8.80        | 9,662.3               | 7,010.3      | -497.8       | 3,567.6                 | 9.63                    | -3.62                  | 8.94                  |  |
| 16,821.0              | 88.60           | 10.50       | 9,662.2               | 7,104.0      | -481.9       | 3,633.9                 | 3.63                    | -3.16                  | 1.79                  |  |
| 16,916.0              | 90.80           | 11.20       | 9,662.7               | 7,197.3      | -464.0       | 3,701.5                 | 2.43                    | 2.32                   | 0.74                  |  |
| 17,010.0              | 88.50           | 9.80        | 9,663.2               | 7,289.7      | -446.9       | 3,768.1                 | 2.86                    | -2.45                  | -1.49                 |  |
| 17,106.0              | 89.80           | 10.00       | 9,664.7               | 7,384.2      | -430.4       | 3,835.3                 | 1.37                    | 1.35                   | 0.21                  |  |
| 17,143.0              | 92.10           | 11.80       | 9,664.0               | 7,420.6      | -423.4       | 3,861.7                 | 7.89                    | 6.22                   | 4.86                  |  |
| 17,195.0              | 92.10           | 11.80       | 9,662.1               | 7,471.4      | -412.8       | 3,899.3                 | 0.00                    | 0.00                   | 0.00                  |  |

17195.0' MD Projected to Bit - New PBHL Fleetwood 36/25 W0ML 3H - PBHL Fleetwood 36/25 W0ML St Com 3H

| Design Annotations    |                       |                   |              |                               |
|-----------------------|-----------------------|-------------------|--------------|-------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                       |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                               |
| 400.0                 | 399.4                 | 9.5               | 13.9         | 400.0' MD Phoenix Gyro Survey |
| 17,195.0              | 9,662.1               | 7,471.4           | -412.8       | 17195.0' MD Projected to Bit  |



**MEWBOURNE**  
**OIL COMPANY**

# **Mewbourne Oil Company**

**Eddy County, N.M. Nad (83)**

**Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com**

**Fleetwood 36/25 W0ML St Com 3H**

**Original Hole**

**Design: Original Hole**

## **Survey Report - Geographic**

**24 September, 2018**



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.90°

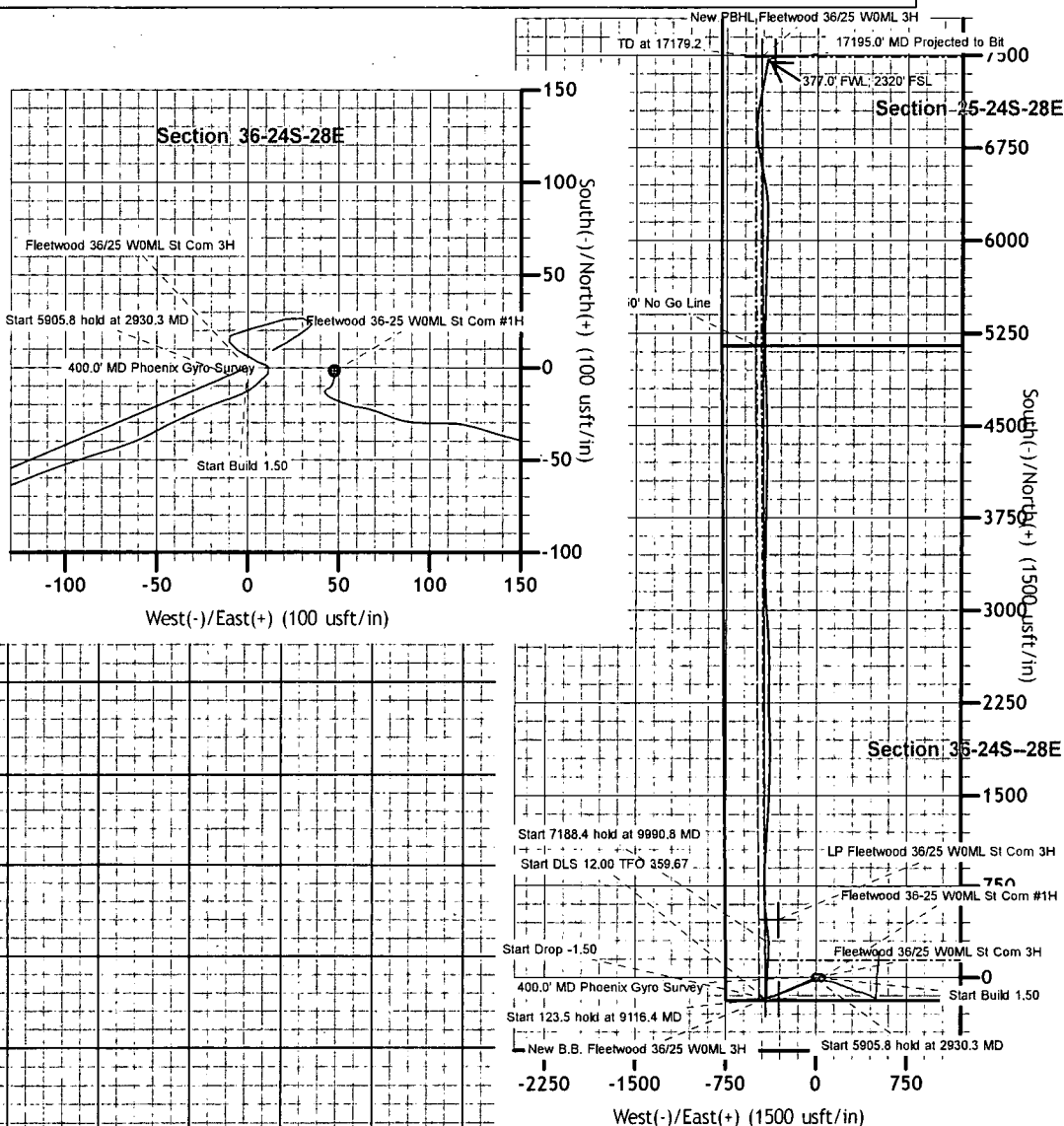
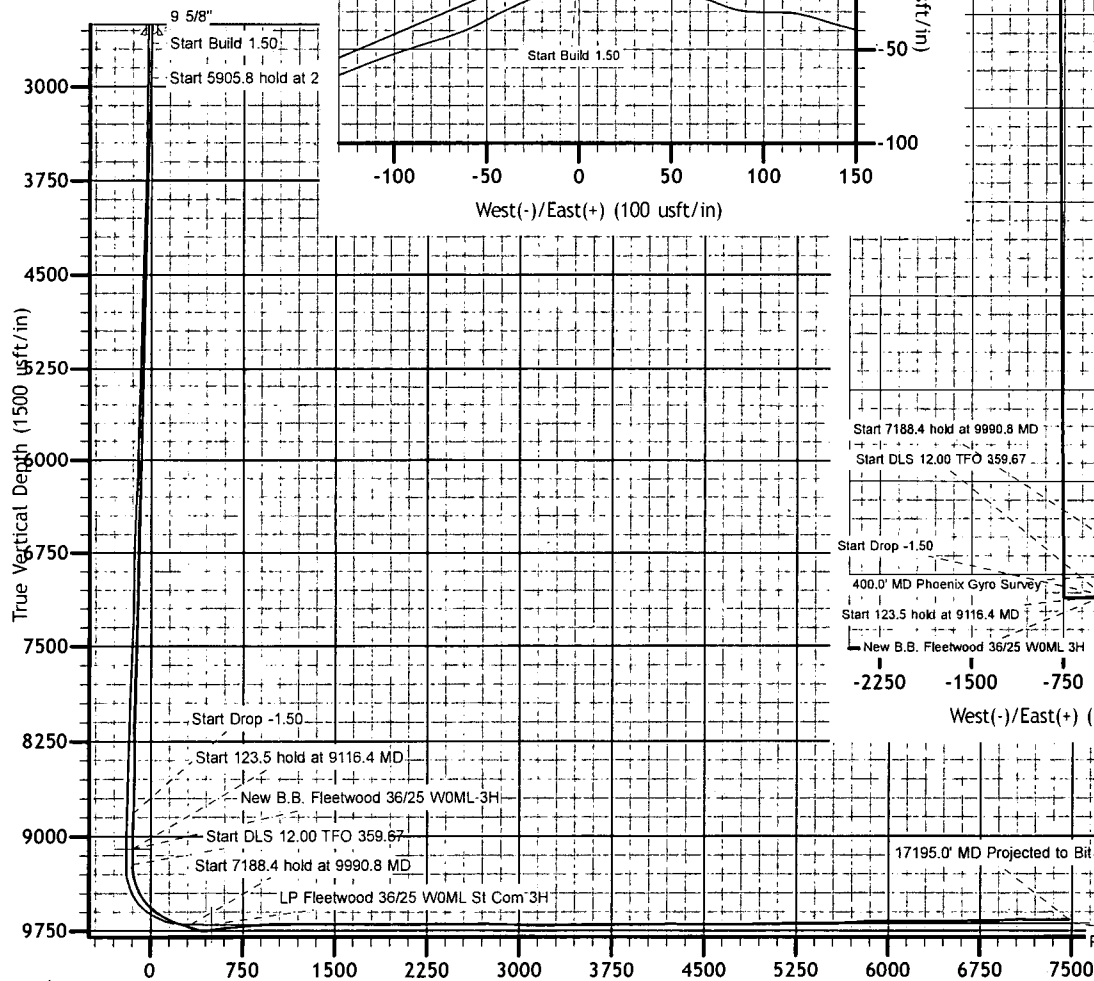
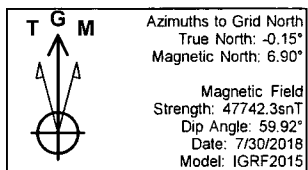
GEODETIC ZONE: New Mexico Eastern Zone  
2944 + 27 @ 2971.0usft (Patterson 562)  
GROUND ELEVATION: 2944.0

| +N/-S | +E/-W | Northing  | Easting   | Latitude        | Longitude        | Slot |
|-------|-------|-----------|-----------|-----------------|------------------|------|
| 0.0   | 0.0   | 424605.20 | 629952.80 | 32° 10' 1.177 N | 104° 2' 49.008 W |      |

PLAN SECTIONS

| Sec | MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W  | Dleg  | TFace  | VFace  | Target                           |
|-----|---------|-------|--------|--------|--------|--------|-------|--------|--------|----------------------------------|
| 1   | 0.0     | 0.00  | 0.00   | 0.0    | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |                                  |
| 2   | 2650.0  | 0.00  | 0.00   | 2650.0 | 0.0    | 0.0    | 0.00  | 0.00   | 0.0    |                                  |
| 3   | 2930.3  | 4.20  | 247.32 | 2930.0 | -4.0   | -9.5   | 1.50  | 247.32 | -3.4   |                                  |
| 4   | 8836.1  | 4.20  | 247.32 | 8820.0 | -170.9 | -409.0 | 0.00  | 0.00   | -145.3 |                                  |
| 5   | 9116.4  | 0.00  | 0.00   | 9100.0 | -174.9 | -418.5 | 1.50  | 180.00 | -148.7 | New B.B. Fleetwood 36/25 W0ML 3H |
| 6   | 9239.9  | 0.00  | 0.00   | 9223.5 | -174.9 | -418.5 | 0.00  | 0.00   | -148.7 |                                  |
| 7   | 9990.8  | 90.10 | 359.67 | 9701.0 | 303.5  | -421.2 | 12.00 | 359.67 | 328.9  |                                  |
| 8   | 17179.2 | 90.10 | 359.67 | 9688.0 | 7491.7 | -463.0 | 0.00  | 0.00   | 7506.0 | New PBHL Fleetwood 36/25 W0ML 3H |

SHL: 185' FSL; 750' FWL  
Section 36-24S-28E  
PBHL: 2339 FSL; 330' FWL  
Section 25-25S-28E





**MEWBOURNE**  
**OIL COMPANY**

# **Mewbourne Oil Company**

**Eddy County, N.M. Nad (83)**

**Section 36/25-24S--28E Fleetwood 36/25 W0ML St Com**

**Fleetwood 36/25 W0ML St Com 3H**

**Original Hole**

**Design: Original Hole**

## **Standard Survey Report**

**24 September, 2018**

