

30-015-39420

# Mewbourne Oil Co

Eddy County, New Mexico

Sec35-19S-29E

Four Peaks 35 Fed Com #2H

Wellbore #1

Survey: MWD

## DDC Survey Report

22 May, 2012



# DDC Survey Report



|                  |                           |                                     |                                          |
|------------------|---------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co          | <b>Local Co-ordinate Reference:</b> | Well Four Peaks 35 Fed Com #2H           |
| <b>Project:</b>  | Eddy County, New Mexico   | <b>TVD Reference:</b>               | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Site:</b>     | Sec35-19S-29E             | <b>MD Reference:</b>                | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Well:</b>     | Four Peaks 35 Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | EDM 5000.1 Single User Db                |

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

|                       |               |              |                 |                   |                  |
|-----------------------|---------------|--------------|-----------------|-------------------|------------------|
| Site:                 | Sec35-19S-29E |              |                 |                   |                  |
| Site Position:        |               | Northing:    | 590,381.51 usft | Latitude:         | 32° 37' 21.895 N |
| From:                 | Map           | Easting:     | 586,446.05 usft | Longitude:        | 104° 3' 9.204 W  |
| Position Uncertainty: | 0.0 usft      | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.15 °           |

|                             |                           |                            |                  |                      |                   |                 |
|-----------------------------|---------------------------|----------------------------|------------------|----------------------|-------------------|-----------------|
| <b>Well</b>                 | Four Peaks 35 Fed Com #2H |                            |                  |                      |                   |                 |
| <b>Well Position</b>        | <b>+N/-S</b>              | 0.0 usft                   | <b>Northing:</b> | 588,966.86 usft      | <b>Latitude:</b>  | 32° 37' 7.896 N |
|                             | <b>+E/-W</b>              | 0.0 usft                   | <b>Easting:</b>  | 586,446.72 usft      | <b>Longitude:</b> | 104° 3' 9.240 W |
| <b>Position Uncertainty</b> | 0.0 usft                  | <b>Wellhead Elevation:</b> | usft             | <b>Ground Level:</b> | 3,314.0 usft      |                 |

|                  |             |
|------------------|-------------|
| <b>Wellbore:</b> | Wellbore #1 |
|------------------|-------------|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2010   | 4/25/2012   | 7.73            | 60.45         | 48,715              |

|                |             |
|----------------|-------------|
| <b>Design:</b> | Wellbore #1 |
|----------------|-------------|

|                     |     |               |        |                      |     |
|---------------------|-----|---------------|--------|----------------------|-----|
| <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          | 94.44         |

| Survey Program |              | Date               | 5/22/2012   |                |
|----------------|--------------|--------------------|-------------|----------------|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)  | Tool Name   | Description    |
| 100.0          | 7,370.0      | Gyro (Wellbore #1) | Good_gyro   | Good Gyro      |
| 7,608.0        | 12,520.0     | MWD (Wellbore #1)  | MWD default | MWD - Standard |

| 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) |
|-------------------------------|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| TIE IN @ 7370' MD / 7368' TVD |                       |                 |             |                       |              |              |                         |                         |                        |                       |
|                               | 7,370.0               | 1.82            | 230.26      | 7,368.4               | -4.4         | 36.0         | 36.3                    | 0.00                    | 0.00                   | 0.00                  |
|                               | 7,608.0               | 2.40            | 179.00      | 7,606.3               | -11.8        | 33.2         | 34.0                    | 0.80                    | 0.24                   | -21.54                |
|                               | 7,640.0               | 2.70            | 163.90      | 7,638.2               | -13.2        | 33.4         | 34.3                    | 2.29                    | 0.94                   | -47.19                |
|                               | 7,672.0               | 5.20            | 132.70      | 7,670.2               | -14.9        | 34.7         | 35.8                    | 10.03                   | 7.81                   | -97.50                |
|                               | 7,704.0               | 7.90            | 121.00      | 7,702.0               | -17.0        | 37.7         | 38.9                    | 9.37                    | 8.44                   | -36.56                |
|                               | 7,736.0               | 11.50           | 119.90      | 7,733.5               | -19.8        | 42.3         | 43.7                    | 11.26                   | 11.25                  | -3.44                 |
|                               | 7,767.0               | 15.30           | 120.60      | 7,763.7               | -23.4        | 48.5         | 50.2                    | 12.27                   | 12.26                  | 2.26                  |
|                               | 7,799.0               | 19.00           | 119.60      | 7,794.2               | -28.1        | 56.7         | 58.7                    | 11.60                   | 11.56                  | -3.13                 |
|                               | 7,831.0               | 22.80           | 118.80      | 7,824.1               | -33.7        | 66.6         | 69.0                    | 11.91                   | 11.88                  | -2.50                 |

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|                  |                           |                                     |                                          |
|------------------|---------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co          | <b>Local Co-ordinate Reference:</b> | Well Four Peaks 35 Fed Com #2H           |
| <b>Project:</b>  | Eddy County, New Mexico   | <b>TVD Reference:</b>               | WELL @ 3334.0usft (Patterson-UT1 Rig 45) |
| <b>Site:</b>     | Sec35-19S-29E             | <b>MD Reference:</b>                | WELL @ 3334.0usft (Patterson-UT1 Rig 45) |
| <b>Well:</b>     | Four Peaks 35 Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | EDM 5000.1 Single User Db                |

| 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 7,862.0               | 26.70           | 118.70      | 7,852.3               | -39.9        | 78.0         | 80.9                    | 12.58                   | 12.58                  | -0.32                 |
| 7,894.0               | 30.40           | 116.40      | 7,880.4               | -47.0        | 91.6         | 94.9                    | 12.06                   | 11.56                  | -7.19                 |
| 7,926.0               | 33.90           | 113.90      | 7,907.5               | -54.2        | 107.0        | 110.9                   | 11.70                   | 10.94                  | -7.81                 |
| 7,958.0               | 37.50           | 112.20      | 7,933.4               | -61.5        | 124.2        | 128.6                   | 11.67                   | 11.25                  | -5.31                 |
| 7,989.0               | 41.50           | 111.10      | 7,957.4               | -68.8        | 142.5        | 147.4                   | 13.10                   | 12.90                  | -3.55                 |
| 8,021.0               | 45.40           | 110.20      | 7,980.6               | -76.5        | 163.1        | 168.5                   | 12.34                   | 12.19                  | -2.81                 |
| 8,053.0               | 49.20           | 109.50      | 8,002.3               | -84.5        | 185.2        | 191.2                   | 11.98                   | 11.88                  | -2.19                 |
| 8,085.0               | 53.10           | 108.80      | 8,022.3               | -92.7        | 208.7        | 215.3                   | 12.31                   | 12.19                  | -2.19                 |
| 8,117.0               | 56.90           | 107.10      | 8,040.7               | -100.7       | 233.7        | 240.8                   | 12.65                   | 11.88                  | -5.31                 |
| 8,148.0               | 60.40           | 105.10      | 8,056.8               | -108.1       | 259.1        | 266.7                   | 12.56                   | 11.29                  | -6.45                 |
| 8,180.0               | 64.50           | 102.70      | 8,071.6               | -114.9       | 286.6        | 294.7                   | 14.43                   | 12.81                  | -7.50                 |
| 8,212.0               | 68.30           | 100.70      | 8,084.4               | -120.8       | 315.4        | 323.8                   | 13.18                   | 11.88                  | -6.25                 |
| 8,244.0               | 72.60           | 99.00       | 8,095.1               | -126.0       | 345.1        | 353.8                   | 14.34                   | 13.44                  | -5.31                 |
| 8,276.0               | 77.00           | 97.60       | 8,103.5               | -130.4       | 375.6        | 384.6                   | 14.38                   | 13.75                  | -4.38                 |
| 8,307.0               | 79.80           | 97.20       | 8,109.8               | -134.3       | 405.7        | 414.9                   | 9.12                    | 9.03                   | -1.29                 |
| 8,339.0               | 81.90           | 96.90       | 8,114.9               | -138.2       | 437.1        | 446.5                   | 6.63                    | 6.56                   | -0.94                 |
| 8,371.0               | 85.00           | 95.70       | 8,118.5               | -141.7       | 468.7        | 478.2                   | 10.38                   | 9.69                   | -3.75                 |
| 8,458.0               | 88.70           | 96.20       | 8,123.3               | -150.7       | 555.1        | 565.1                   | 4.29                    | 4.25                   | 0.57                  |
| 8,522.0               | 87.00           | 95.10       | 8,125.7               | -157.0       | 618.7        | 629.0                   | 3.16                    | -2.66                  | -1.72                 |
| 8,585.0               | 86.00           | 92.50       | 8,129.5               | -161.1       | 681.4        | 691.9                   | 4.41                    | -1.59                  | -4.13                 |
| 8,648.0               | 87.10           | 90.60       | 8,133.3               | -162.8       | 744.3        | 754.7                   | 3.48                    | 1.75                   | -3.02                 |
| 8,680.0               | 88.60           | 90.40       | 8,134.5               | -163.1       | 776.3        | 786.6                   | 4.73                    | 4.69                   | -0.63                 |
| 8,712.0               | 88.60           | 90.20       | 8,135.3               | -163.3       | 808.3        | 818.5                   | 0.62                    | 0.00                   | -0.63                 |
| 8,743.0               | 88.40           | 90.60       | 8,136.1               | -163.5       | 839.2        | 849.4                   | 1.44                    | -0.65                  | 1.29                  |
| 8,775.0               | 88.10           | 90.90       | 8,137.1               | -163.9       | 871.2        | 881.3                   | 1.33                    | -0.94                  | 0.94                  |
| 8,807.0               | 87.80           | 90.60       | 8,138.2               | -164.3       | 903.2        | 913.2                   | 1.33                    | -0.94                  | -0.94                 |
| 8,838.0               | 87.40           | 90.40       | 8,139.5               | -164.6       | 934.2        | 944.1                   | 1.44                    | -1.29                  | -0.65                 |
| 8,870.0               | 87.10           | 90.20       | 8,141.1               | -164.8       | 966.1        | 976.0                   | 1.13                    | -0.94                  | -0.63                 |
| 8,902.0               | 88.30           | 89.50       | 8,142.4               | -164.7       | 998.1        | 1,007.9                 | 4.34                    | 3.75                   | -2.19                 |
| 8,934.0               | 88.20           | 89.50       | 8,143.3               | -164.4       | 1,030.1      | 1,039.7                 | 0.31                    | -0.31                  | 0.00                  |
| 8,966.0               | 89.60           | 88.60       | 8,143.9               | -163.9       | 1,062.1      | 1,071.6                 | 5.20                    | 4.38                   | -2.81                 |
| 8,998.0               | 89.40           | 88.30       | 8,144.2               | -163.0       | 1,094.1      | 1,103.4                 | 1.13                    | -0.63                  | -0.94                 |
| 9,029.0               | 89.30           | 89.70       | 8,144.6               | -162.5       | 1,125.1      | 1,134.3                 | 4.53                    | -0.32                  | 4.52                  |
| 9,061.0               | 88.70           | 89.50       | 8,145.1               | -162.3       | 1,157.1      | 1,166.1                 | 1.98                    | -1.88                  | -0.63                 |
| 9,092.0               | 87.90           | 89.30       | 8,146.1               | -161.9       | 1,188.0      | 1,197.0                 | 2.66                    | -2.58                  | -0.65                 |
| 9,124.0               | 88.50           | 90.90       | 8,147.1               | -162.0       | 1,220.0      | 1,228.9                 | 5.34                    | 1.88                   | 5.00                  |
| 9,187.0               | 87.60           | 90.40       | 8,149.2               | -162.7       | 1,283.0      | 1,291.7                 | 1.63                    | -1.43                  | -0.79                 |
| 9,251.0               | 88.80           | 91.40       | 8,151.2               | -163.7       | 1,346.9      | 1,355.6                 | 2.44                    | 1.88                   | 1.56                  |
| 9,314.0               | 87.90           | 90.70       | 8,153.0               | -164.9       | 1,409.9      | 1,418.4                 | 1.81                    | -1.43                  | -1.11                 |
| 9,378.0               | 89.30           | 92.10       | 8,154.6               | -166.4       | 1,473.9      | 1,482.3                 | 3.09                    | 2.19                   | 2.19                  |
| 9,441.0               | 89.40           | 92.80       | 8,155.3               | -169.1       | 1,536.8      | 1,545.3                 | 1.12                    | 0.16                   | 1.11                  |
| 9,504.0               | 88.50           | 92.50       | 8,156.5               | -172.0       | 1,599.7      | 1,608.2                 | 1.51                    | -1.43                  | -0.48                 |
| 9,536.0               | 88.00           | 92.10       | 8,157.4               | -173.3       | 1,631.7      | 1,640.2                 | 2.00                    | -1.56                  | -1.25                 |

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|                  |                           |                                     |                                          |
|------------------|---------------------------|-------------------------------------|------------------------------------------|
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| <b>Project:</b>  | Eddy County, New Mexico   | <b>TVD Reference:</b>               | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Site:</b>     | Sec35-19S-29E             | <b>MD Reference:</b>                | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Well:</b>     | Four Peaks 35 Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | EDM 5000.1 Single User Db                |

| 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) |  |
| 9,600.0               | 88.40           | 92.50       | 8,159.4               | -175.9       | 1,695.6      | 1,704.1                 | 0.88                    | 0.63                   | 0.63                  |  |
| 9,663.0               | 87.40           | 92.30       | 8,161.8               | -178.5       | 1,758.5      | 1,767.0                 | 1.62                    | -1.59                  | -0.32                 |  |
| 9,727.0               | 88.30           | 92.30       | 8,164.2               | -181.1       | 1,822.4      | 1,831.0                 | 1.41                    | 1.41                   | 0.00                  |  |
| 9,790.0               | 87.70           | 92.30       | 8,166.4               | -183.6       | 1,885.3      | 1,893.9                 | 0.95                    | -0.95                  | 0.00                  |  |
| 9,853.0               | 88.60           | 92.10       | 8,168.4               | -186.0       | 1,948.2      | 1,956.8                 | 1.46                    | 1.43                   | -0.32                 |  |
| 9,916.0               | 90.80           | 91.90       | 8,168.7               | -188.2       | 2,011.2      | 2,019.7                 | 3.51                    | 3.49                   | -0.32                 |  |
| 9,979.0               | 91.70           | 92.30       | 8,167.3               | -190.5       | 2,074.1      | 2,082.7                 | 1.56                    | 1.43                   | 0.63                  |  |
| 10,043.0              | 92.20           | 91.80       | 8,165.2               | -192.8       | 2,138.1      | 2,146.6                 | 1.10                    | 0.78                   | -0.78                 |  |
| 10,105.0              | 91.30           | 91.90       | 8,163.3               | -194.8       | 2,200.0      | 2,208.5                 | 1.46                    | -1.45                  | 0.16                  |  |
| 10,169.0              | 89.40           | 93.00       | 8,162.9               | -197.6       | 2,263.9      | 2,272.4                 | 3.43                    | -2.97                  | 1.72                  |  |
| 10,201.0              | 88.90           | 93.00       | 8,163.4               | -199.2       | 2,295.9      | 2,304.4                 | 1.56                    | -1.56                  | 0.00                  |  |
| 10,264.0              | 88.30           | 93.00       | 8,164.9               | -202.5       | 2,358.8      | 2,367.4                 | 0.95                    | -0.95                  | 0.00                  |  |
| 10,328.0              | 87.80           | 91.90       | 8,167.1               | -205.3       | 2,422.7      | 2,431.3                 | 1.89                    | -0.78                  | -1.72                 |  |
| 10,392.0              | 87.80           | 91.90       | 8,169.5               | -207.4       | 2,486.6      | 2,495.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,456.0              | 87.80           | 92.30       | 8,172.0               | -209.7       | 2,550.5      | 2,559.1                 | 0.62                    | 0.00                   | 0.63                  |  |
| 10,519.0              | 85.30           | 91.80       | 8,175.8               | -212.0       | 2,613.3      | 2,621.9                 | 4.05                    | -3.97                  | -0.79                 |  |
| 10,583.0              | 85.90           | 91.80       | 8,180.7               | -214.0       | 2,677.1      | 2,685.7                 | 0.94                    | 0.94                   | 0.00                  |  |
| 10,646.0              | 88.40           | 92.50       | 8,183.8               | -216.3       | 2,740.0      | 2,748.5                 | 4.12                    | 3.97                   | 1.11                  |  |
| 10,709.0              | 88.90           | 92.10       | 8,185.3               | -218.9       | 2,802.9      | 2,811.5                 | 1.02                    | 0.79                   | -0.63                 |  |
| 10,773.0              | 88.60           | 90.70       | 8,186.7               | -220.4       | 2,866.9      | 2,875.4                 | 2.24                    | -0.47                  | -2.19                 |  |
| 10,837.0              | 89.00           | 91.60       | 8,188.0               | -221.7       | 2,930.9      | 2,939.2                 | 1.54                    | 0.63                   | 1.41                  |  |
| 10,900.0              | 87.40           | 91.40       | 8,190.0               | -223.4       | 2,993.8      | 3,002.1                 | 2.56                    | -2.54                  | -0.32                 |  |
| 10,991.0              | 88.00           | 90.70       | 8,193.7               | -225.0       | 3,084.7      | 3,092.9                 | 1.01                    | 0.66                   | -0.77                 |  |
| 11,054.0              | 88.20           | 89.50       | 8,195.8               | -225.1       | 3,147.7      | 3,155.7                 | 1.93                    | 0.32                   | -1.90                 |  |
| 11,118.0              | 88.10           | 90.60       | 8,197.8               | -225.2       | 3,211.7      | 3,219.4                 | 1.72                    | -0.16                  | 1.72                  |  |
| 11,181.0              | 87.80           | 91.80       | 8,200.1               | -226.5       | 3,274.6      | 3,282.3                 | 1.96                    | -0.48                  | 1.90                  |  |
| 11,245.0              | 89.00           | 92.80       | 8,201.9               | -229.1       | 3,338.5      | 3,346.2                 | 2.44                    | 1.88                   | 1.56                  |  |
| 11,308.0              | 88.90           | 93.20       | 8,203.0               | -232.4       | 3,401.4      | 3,409.2                 | 0.65                    | -0.16                  | 0.63                  |  |
| 11,340.0              | 88.70           | 93.20       | 8,203.7               | -234.2       | 3,433.4      | 3,441.2                 | 0.63                    | -0.63                  | 0.00                  |  |
| 11,404.0              | 89.80           | 94.10       | 8,204.5               | -238.2       | 3,497.2      | 3,505.2                 | 2.22                    | 1.72                   | 1.41                  |  |
| 11,467.0              | 90.10           | 94.20       | 8,204.6               | -242.8       | 3,560.1      | 3,568.2                 | 0.50                    | 0.48                   | 0.16                  |  |
| 11,531.0              | 89.00           | 93.90       | 8,205.1               | -247.3       | 3,623.9      | 3,632.2                 | 1.78                    | -1.72                  | -0.47                 |  |
| 11,594.0              | 89.60           | 93.90       | 8,205.9               | -251.6       | 3,686.7      | 3,695.2                 | 0.95                    | 0.95                   | 0.00                  |  |
| 11,658.0              | 90.10           | 93.40       | 8,206.0               | -255.7       | 3,750.6      | 3,759.2                 | 1.10                    | 0.78                   | -0.78                 |  |
| 11,721.0              | 89.80           | 93.90       | 8,206.1               | -259.7       | 3,813.5      | 3,822.1                 | 0.93                    | -0.48                  | 0.79                  |  |
| 11,785.0              | 89.40           | 93.70       | 8,206.5               | -263.9       | 3,877.3      | 3,886.1                 | 0.70                    | -0.63                  | -0.31                 |  |
| 11,849.0              | 90.00           | 92.50       | 8,206.9               | -267.4       | 3,941.3      | 3,950.1                 | 2.10                    | 0.94                   | -1.88                 |  |
| 11,912.0              | 90.40           | 93.50       | 8,206.6               | -270.7       | 4,004.2      | 4,013.1                 | 1.71                    | 0.63                   | 1.59                  |  |
| 11,975.0              | 88.40           | 93.40       | 8,207.3               | -274.5       | 4,067.0      | 4,076.1                 | 3.18                    | -3.17                  | -0.16                 |  |
| 12,039.0              | 87.20           | 93.00       | 8,209.8               | -278.1       | 4,130.9      | 4,140.0                 | 1.98                    | -1.88                  | -0.63                 |  |
| 12,102.0              | 88.30           | 94.10       | 8,212.2               | -282.0       | 4,193.7      | 4,203.0                 | 2.47                    | 1.75                   | 1.75                  |  |
| 12,166.0              | 88.00           | 93.90       | 8,214.3               | -286.4       | 4,257.5      | 4,266.9                 | 0.56                    | -0.47                  | -0.31                 |  |
| 12,230.0              | 88.20           | 94.20       | 8,216.4               | -290.9       | 4,321.3      | 4,330.9                 | 0.56                    | 0.31                   | 0.47                  |  |

# DDC Survey Report



|                  |                           |                                     |                                          |
|------------------|---------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co          | <b>Local Co-ordinate Reference:</b> | Well Four Peaks 35 Fed Com #2H           |
| <b>Project:</b>  | Eddy County, New Mexico   | <b>TVD Reference:</b>               | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Site:</b>     | Sec35-19S-29E             | <b>MD Reference:</b>                | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Well:</b>     | Four Peaks 35 Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | EDM 5000.1 Single User Db                |

## 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) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,293.0                   | 88.30           | 94.20       | 8,218.3               | -295.5       | 4,384.1      | 4,393.9                 | 0.16                    | 0.16                   | 0.00                  |
| 12,357.0                   | 88.00           | 93.90       | 8,220.4               | -300.1       | 4,447.9      | 4,457.8                 | 0.66                    | -0.47                  | -0.47                 |
| 12,420.0                   | 87.80           | 93.40       | 8,222.7               | -304.1       | 4,510.8      | 4,520.8                 | 0.85                    | -0.32                  | -0.79                 |
| 12,470.0                   | 87.90           | 92.70       | 8,224.6               | -306.7       | 4,560.7      | 4,570.7                 | 1.41                    | 0.20                   | -1.40                 |
| TD @ 12520' MD / 8226' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,520.0                   | 88.00           | 92.70       | 8,226.4               | -309.1       | 4,610.6      | 4,620.7                 | 0.20                    | 0.20                   | 0.00                  |

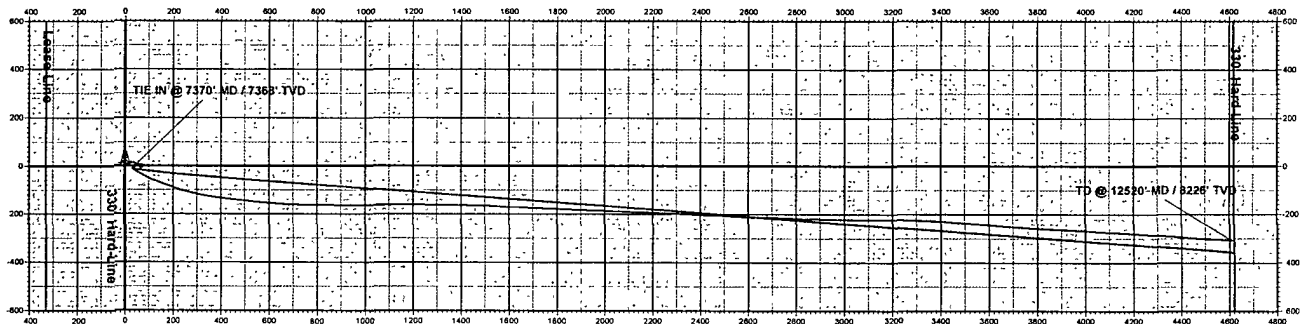
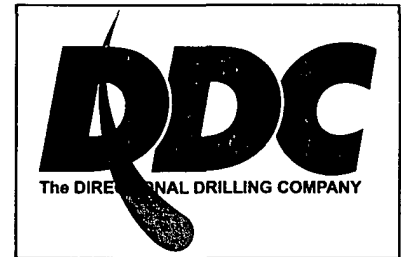
## Survey Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                       |
|-----------------------|-----------------------|-------------------|--------------|-------------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                               |
| 7,370.0               | 7,368.4               | -4.4              | 36.0         | TIE IN @ 7370' MD / 7368' TVD |
| 12,520.0              | 8,226.4               | -309.1            | 4,610.6      | TD @ 12520' MD / 8226' TVD    |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# Mewborne Oil Co

Four Peaks 35 Fed Com #2H  
Eddy County, New Mexico  
Q110415 & WT-12274



Company Name: Mewborne Oil Co  
Four Peaks 35 Fed Com #2H  
Eddy County, New Mexico  
Rig: Patterson-UTI Rig 45  
Created By: Dina Chance  
Date: 5/22/2012

#### WELL DETAILS Four Peaks 35 Fed Com #2H

Ground Level: 3514.0  
+N/-S/E/-W Northing Easting Latitude Longitude  
0 0 0 588956.55 586446.72 32° 37' 4.226 N 104° 3' 5.240 W



Azimuths to Grid North  
Magnetic North: 7.58°

Magnetic Field  
Strength: 48715.4snT  
Dip Angle: 60.45°  
Date: 4/25/2012  
Model: IGRF2010

#### DESIGN TARGET DETAILS

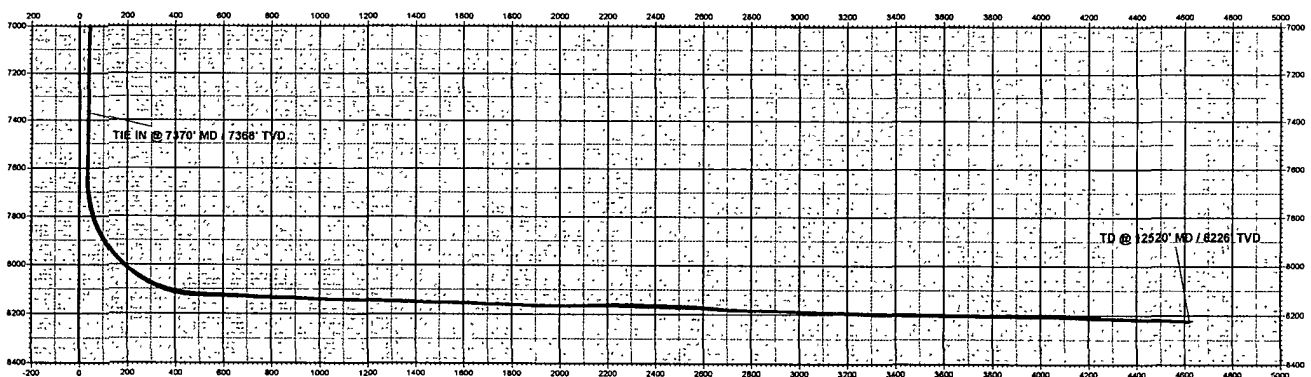
| Name                                                        | TVD    | +N/-S  | +E/-W  | Northing  | Easting   | Latitude        | Longitude       |
|-------------------------------------------------------------|--------|--------|--------|-----------|-----------|-----------------|-----------------|
| PSHL Four Peaks 35 Fed Com #2H<br>- plan hits target center | 8224.0 | -358.4 | 4619.4 | 588608.50 | 591066.10 | 32° 37' 4.226 N | 104° 3' 5.241 W |

#### ANNOTATIONS

| MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W  | Vsect  | Departure | Annotation                    |
|---------|-------|--------|--------|--------|--------|--------|-----------|-------------------------------|
| 7370.0  | 1.82  | 230.26 | 7368.4 | -4.4   | 36.0   | 36.3   | 140.3     | TIE IN @ 7370' MD / 7368' TVD |
| 12520.0 | 88.00 | 92.70  | 8226.4 | -309.1 | 4610.6 | 4620.7 | 4765.7    | TD @ 12520' MD / 8226' TVD    |

#### PROJECT DETAILS Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 300°  
System Datum: Mean Sea Level



Vertical Section at 94.44° (200 usft/in)

30-015-39420

# **Mewbourne Oil Co**

**Eddy County, New Mexico**

**Sec35-19S-29E**

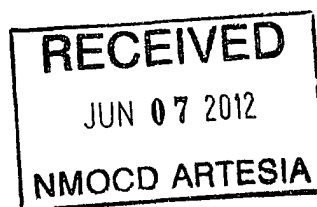
**Four Peaks 35 Fed Com #2H**

**Wellbore #1**

**Survey: MWD**

## **DDC Survey Report**

**22 May, 2012**



# DDC Survey Report



|                  |                           |                                     |                                          |
|------------------|---------------------------|-------------------------------------|------------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co          | <b>Local Co-ordinate Reference:</b> | Well Four Peaks 35 Fed Com #2H           |
| <b>Project:</b>  | Eddy County, New Mexico   | <b>TVD Reference:</b>               | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Site:</b>     | Sec35-19S-29E             | <b>MD Reference:</b>                | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| <b>Well:</b>     | Four Peaks 35 Fed Com #2H | <b>North Reference:</b>             | Grid                                     |
| <b>Wellbore:</b> | Wellbore #1               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Design:</b>   | Wellbore #1               | <b>Database:</b>                    | EDM 5000.1 Single User Db                |

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

|                       |          |               |                 |                   |                  |
|-----------------------|----------|---------------|-----------------|-------------------|------------------|
| Site                  |          | Sec35-19S-29E |                 |                   |                  |
| Site Position:        |          | Northing:     | 590,381.51 usft | Latitude:         | 32° 37' 21.895 N |
| From:                 | Map      | Easting:      | 586,446.05 usft | Longitude:        | 104° 3' 9.204 W  |
| Position Uncertainty: | 0.0 usft | Slot Radius:  | 13-3/16 "       | Grid Convergence: | 0.15 °           |

|                      |                           |                     |           |                 |              |                 |
|----------------------|---------------------------|---------------------|-----------|-----------------|--------------|-----------------|
| Well                 | Four Peaks 35 Fed Com #2H |                     |           |                 |              |                 |
| Well Position        | +N-S                      | 0.0 usft            | Northing: | 588,966.86 usft | Latitude:    | 32° 37' 7.896 N |
|                      | +E-W                      | 0.0 usft            | Easting:  | 586,446.72 usft | Longitude:   | 104° 3' 9.240 W |
| Position Uncertainty | 0.0 usft                  | Wellhead Elevation: | usft      | Ground Level:   | 3,314.0 usft |                 |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  |            | Wellbore #1 |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010   | 4/25/2012   | 7.73            | 60.45         | 48,715              |

|              |             |        |        |               |     |
|--------------|-------------|--------|--------|---------------|-----|
| Design:      | Wellbore #1 |        |        |               |     |
| Audit Notes: |             |        |        |               |     |
| Version:     | 1.0         | Phase: | ACTUAL | Tie On Depth: | 0.0 |

|                          |                         |             |             |                  |
|--------------------------|-------------------------|-------------|-------------|------------------|
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N-S</b> | <b>+E-W</b> | <b>Direction</b> |
|                          | (usft)                  | (usft)      | (usft)      | (°)              |
|                          | 0.0                     | 0.0         | 0.0         | 94.44            |

| Survey Program |              | Date               | 5/22/2012   |                |
|----------------|--------------|--------------------|-------------|----------------|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)  | Tool Name   | Description    |
| 100.0          | 7,370.0      | Gyro (Wellbore #1) | Good_gyro   | Good Gyro      |
| 7,608.0        | 12,520.0     | MWD (Wellbore #1)  | MWD default | MWD - Standard |

| 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) |
| TIE IN @ 7370' MD / 7368' TVD |                 |             |                       |             |             |                         |                         |                        |                       |
| 7,370.0                       | 1.82            | 230.26      | 7,368.4               | -4.4        | 36.0        | 36.3                    | 0.00                    | 0.00                   | 0.00                  |
| 7,608.0                       | 2.40            | 179.00      | 7,606.3               | -11.8       | 33.2        | 34.0                    | 0.80                    | 0.24                   | -21.54                |
| 7,640.0                       | 2.70            | 163.90      | 7,638.2               | -13.2       | 33.4        | 34.3                    | 2.29                    | 0.94                   | -47.19                |
| 7,672.0                       | 5.20            | 132.70      | 7,670.2               | -14.9       | 34.7        | 35.8                    | 10.03                   | 7.81                   | -97.50                |
| 7,704.0                       | 7.90            | 121.00      | 7,702.0               | -17.0       | 37.7        | 38.9                    | 9.37                    | 8.44                   | -36.56                |
| 7,736.0                       | 11.50           | 119.90      | 7,733.5               | -19.8       | 42.3        | 43.7                    | 11.26                   | 11.25                  | -3.44                 |
| 7,767.0                       | 15.30           | 120.60      | 7,763.7               | -23.4       | 48.5        | 50.2                    | 12.27                   | 12.26                  | 2.26                  |
| 7,799.0                       | 19.00           | 119.60      | 7,794.2               | -28.1       | 56.7        | 58.7                    | 11.60                   | 11.56                  | -3.13                 |
| 7,831.0                       | 22.80           | 118.80      | 7,824.1               | -33.7       | 66.6        | 69.0                    | 11.91                   | 11.88                  | -2.50                 |

# DDC Survey Report



|           |                           |                              |                                          |
|-----------|---------------------------|------------------------------|------------------------------------------|
| Company:  | Mewbourne Oil Co          | Local Co-ordinate Reference: | Well Four Peaks 35 Fed Com #2H           |
| Project:  | Eddy County, New Mexico   | TVD Reference:               | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| Site:     | Sec35-19S-29E             | MD Reference:                | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| Well:     | Four Peaks 35 Fed Com #2H | North Reference:             | Grid                                     |
| Wellbore: | Wellbore #1               | Survey Calculation Method:   | Minimum Curvature                        |
| Design:   | Wellbore #1               | Database:                    | EDM 5000.1 Single User Db                |

| 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 7,862.0               | 26.70           | 118.70      | 7,852.3               | -39.9        | 78.0         | 80.9                    | 12.58                   | 12.58                  | -0.32                 |
| 7,894.0               | 30.40           | 116.40      | 7,880.4               | -47.0        | 91.6         | 94.9                    | 12.06                   | 11.56                  | -7.19                 |
| 7,926.0               | 33.90           | 113.90      | 7,907.5               | -54.2        | 107.0        | 110.9                   | 11.70                   | 10.94                  | -7.81                 |
| 7,958.0               | 37.50           | 112.20      | 7,933.4               | -61.5        | 124.2        | 128.6                   | 11.67                   | 11.25                  | -5.31                 |
| 7,989.0               | 41.50           | 111.10      | 7,957.4               | -68.8        | 142.5        | 147.4                   | 13.10                   | 12.90                  | -3.55                 |
| 8,021.0               | 45.40           | 110.20      | 7,980.6               | -76.5        | 163.1        | 168.5                   | 12.34                   | 12.19                  | -2.81                 |
| 8,053.0               | 49.20           | 109.50      | 8,002.3               | -84.5        | 185.2        | 191.2                   | 11.98                   | 11.88                  | -2.19                 |
| 8,085.0               | 53.10           | 108.80      | 8,022.3               | -92.7        | 208.7        | 215.3                   | 12.31                   | 12.19                  | -2.19                 |
| 8,117.0               | 56.90           | 107.10      | 8,040.7               | -100.7       | 233.7        | 240.8                   | 12.65                   | 11.88                  | -5.31                 |
| 8,148.0               | 60.40           | 105.10      | 8,056.8               | -108.1       | 259.1        | 266.7                   | 12.56                   | 11.29                  | -6.45                 |
| 8,180.0               | 64.50           | 102.70      | 8,071.6               | -114.9       | 286.6        | 294.7                   | 14.43                   | 12.81                  | -7.50                 |
| 8,212.0               | 68.30           | 100.70      | 8,084.4               | -120.8       | 315.4        | 323.8                   | 13.18                   | 11.88                  | -6.25                 |
| 8,244.0               | 72.60           | 99.00       | 8,095.1               | -126.0       | 345.1        | 353.8                   | 14.34                   | 13.44                  | -5.31                 |
| 8,276.0               | 77.00           | 97.60       | 8,103.5               | -130.4       | 375.6        | 384.6                   | 14.38                   | 13.75                  | -4.38                 |
| 8,307.0               | 79.80           | 97.20       | 8,109.8               | -134.3       | 405.7        | 414.9                   | 9.12                    | 9.03                   | -1.29                 |
| 8,339.0               | 81.90           | 96.90       | 8,114.9               | -138.2       | 437.1        | 446.5                   | 6.63                    | 6.56                   | -0.94                 |
| 8,371.0               | 85.00           | 95.70       | 8,118.5               | -141.7       | 468.7        | 478.2                   | 10.38                   | 9.69                   | -3.75                 |
| 8,458.0               | 88.70           | 96.20       | 8,123.3               | -150.7       | 555.1        | 565.1                   | 4.29                    | 4.25                   | 0.57                  |
| 8,522.0               | 87.00           | 95.10       | 8,125.7               | -157.0       | 618.7        | 629.0                   | 3.16                    | -2.66                  | -1.72                 |
| 8,585.0               | 86.00           | 92.50       | 8,129.5               | -161.1       | 681.4        | 691.9                   | 4.41                    | -1.59                  | -4.13                 |
| 8,648.0               | 87.10           | 90.60       | 8,133.3               | -162.8       | 744.3        | 754.7                   | 3.48                    | 1.75                   | -3.02                 |
| 8,680.0               | 88.60           | 90.40       | 8,134.5               | -163.1       | 776.3        | 786.6                   | 4.73                    | 4.69                   | -0.63                 |
| 8,712.0               | 88.60           | 90.20       | 8,135.3               | -163.3       | 808.3        | 818.5                   | 0.62                    | 0.00                   | -0.63                 |
| 8,743.0               | 88.40           | 90.60       | 8,136.1               | -163.5       | 839.2        | 849.4                   | 1.44                    | -0.65                  | 1.29                  |
| 8,775.0               | 88.10           | 90.90       | 8,137.1               | -163.9       | 871.2        | 881.3                   | 1.33                    | -0.94                  | 0.94                  |
| 8,807.0               | 87.80           | 90.60       | 8,138.2               | -164.3       | 903.2        | 913.2                   | 1.33                    | -0.94                  | -0.94                 |
| 8,838.0               | 87.40           | 90.40       | 8,139.5               | -164.6       | 934.2        | 944.1                   | 1.44                    | -1.29                  | -0.65                 |
| 8,870.0               | 87.10           | 90.20       | 8,141.1               | -164.8       | 966.1        | 976.0                   | 1.13                    | -0.94                  | -0.63                 |
| 8,902.0               | 88.30           | 89.50       | 8,142.4               | -164.7       | 998.1        | 1,007.9                 | 4.34                    | 3.75                   | -2.19                 |
| 8,934.0               | 88.20           | 89.50       | 8,143.3               | -164.4       | 1,030.1      | 1,039.7                 | 0.31                    | -0.31                  | 0.00                  |
| 8,966.0               | 89.60           | 88.60       | 8,143.9               | -163.9       | 1,062.1      | 1,071.6                 | 5.20                    | 4.38                   | -2.81                 |
| 8,998.0               | 89.40           | 88.30       | 8,144.2               | -163.0       | 1,094.1      | 1,103.4                 | 1.13                    | -0.63                  | -0.94                 |
| 9,029.0               | 89.30           | 89.70       | 8,144.6               | -162.5       | 1,125.1      | 1,134.3                 | 4.53                    | -0.32                  | 4.52                  |
| 9,061.0               | 88.70           | 89.50       | 8,145.1               | -162.3       | 1,157.1      | 1,166.1                 | 1.98                    | -1.88                  | -0.63                 |
| 9,092.0               | 87.90           | 89.30       | 8,146.1               | -161.9       | 1,188.0      | 1,197.0                 | 2.66                    | -2.58                  | -0.65                 |
| 9,124.0               | 88.50           | 90.90       | 8,147.1               | -162.0       | 1,220.0      | 1,228.9                 | 5.34                    | 1.88                   | 5.00                  |
| 9,187.0               | 87.60           | 90.40       | 8,149.2               | -162.7       | 1,283.0      | 1,291.7                 | 1.63                    | -1.43                  | -0.79                 |
| 9,251.0               | 88.80           | 91.40       | 8,151.2               | -163.7       | 1,346.9      | 1,355.6                 | 2.44                    | 1.88                   | 1.56                  |
| 9,314.0               | 87.90           | 90.70       | 8,153.0               | -164.9       | 1,409.9      | 1,418.4                 | 1.81                    | -1.43                  | -1.11                 |
| 9,378.0               | 89.30           | 92.10       | 8,154.6               | -166.4       | 1,473.9      | 1,482.3                 | 3.09                    | 2.19                   | 2.19                  |
| 9,441.0               | 89.40           | 92.80       | 8,155.3               | -169.1       | 1,536.8      | 1,545.3                 | 1.12                    | 0.16                   | 1.11                  |
| 9,504.0               | 88.50           | 92.50       | 8,156.5               | -172.0       | 1,599.7      | 1,608.2                 | 1.51                    | -1.43                  | -0.48                 |
| 9,536.0               | 88.00           | 92.10       | 8,157.4               | -173.3       | 1,631.7      | 1,640.2                 | 2.00                    | -1.56                  | -1.25                 |

# DDC Survey Report



|           |                           |                              |                                          |
|-----------|---------------------------|------------------------------|------------------------------------------|
| Company:  | Mewbourne Oil Co          | Local Co-ordinate Reference: | Well Four Peaks 35 Fed Com #2H           |
| Project:  | Eddy County, New Mexico   | TVD Reference:               | WELL @ 3334.0usft (Patterson-LTI Rig 45) |
| Site:     | Sec35-19S-29E             | MD Reference:                | WELL @ 3334.0usft (Patterson-LTI Rig 45) |
| Well:     | Four Peaks 35 Fed Com #2H | North Reference:             | Grid                                     |
| Wellbore: | Wellbore #1               | Survey Calculation Method:   | Minimum Curvature                        |
| Design:   | Wellbore #1               | Database:                    | EDM 5000.1 Single User Db                |

| 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) |
|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,600.0               | 88.40           | 92.50       | 8,159.4               | -175.9      | 1,695.6     | 1,704.1                 | 0.88                    | 0.63                   | 0.63                  |
| 9,663.0               | 87.40           | 92.30       | 8,161.8               | -178.5      | 1,758.5     | 1,767.0                 | 1.62                    | -1.59                  | -0.32                 |
| 9,727.0               | 88.30           | 92.30       | 8,164.2               | -181.1      | 1,822.4     | 1,831.0                 | 1.41                    | 1.41                   | 0.00                  |
| 9,790.0               | 87.70           | 92.30       | 8,166.4               | -183.6      | 1,885.3     | 1,893.9                 | 0.95                    | -0.95                  | 0.00                  |
| 9,853.0               | 88.60           | 92.10       | 8,168.4               | -186.0      | 1,948.2     | 1,956.8                 | 1.46                    | 1.43                   | -0.32                 |
| 9,916.0               | 90.80           | 91.90       | 8,168.7               | -188.2      | 2,011.2     | 2,019.7                 | 3.51                    | 3.49                   | -0.32                 |
| 9,979.0               | 91.70           | 92.30       | 8,167.3               | -190.5      | 2,074.1     | 2,082.7                 | 1.56                    | 1.43                   | 0.63                  |
| 10,043.0              | 92.20           | 91.80       | 8,165.2               | -192.8      | 2,138.1     | 2,146.6                 | 1.10                    | 0.78                   | -0.78                 |
| 10,105.0              | 91.30           | 91.90       | 8,163.3               | -194.8      | 2,200.0     | 2,208.5                 | 1.46                    | -1.45                  | 0.16                  |
| 10,169.0              | 89.40           | 93.00       | 8,162.9               | -197.6      | 2,263.9     | 2,272.4                 | 3.43                    | -2.97                  | 1.72                  |
| 10,201.0              | 88.90           | 93.00       | 8,163.4               | -199.2      | 2,295.9     | 2,304.4                 | 1.56                    | -1.56                  | 0.00                  |
| 10,264.0              | 88.30           | 93.00       | 8,164.9               | -202.5      | 2,358.8     | 2,367.4                 | 0.95                    | -0.95                  | 0.00                  |
| 10,328.0              | 87.80           | 91.90       | 8,167.1               | -205.3      | 2,422.7     | 2,431.3                 | 1.89                    | -0.78                  | -1.72                 |
| 10,392.0              | 87.80           | 91.90       | 8,169.5               | -207.4      | 2,486.6     | 2,495.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,456.0              | 87.80           | 92.30       | 8,172.0               | -209.7      | 2,550.5     | 2,559.1                 | 0.62                    | 0.00                   | 0.63                  |
| 10,519.0              | 85.30           | 91.80       | 8,175.8               | -212.0      | 2,613.3     | 2,621.9                 | 4.05                    | -3.97                  | -0.79                 |
| 10,583.0              | 85.90           | 91.80       | 8,180.7               | -214.0      | 2,677.1     | 2,685.7                 | 0.94                    | 0.94                   | 0.00                  |
| 10,646.0              | 88.40           | 92.50       | 8,183.8               | -216.3      | 2,740.0     | 2,748.5                 | 4.12                    | 3.97                   | 1.11                  |
| 10,709.0              | 88.90           | 92.10       | 8,185.3               | -218.9      | 2,802.9     | 2,811.5                 | 1.02                    | 0.79                   | -0.63                 |
| 10,773.0              | 88.60           | 90.70       | 8,186.7               | -220.4      | 2,866.9     | 2,875.4                 | 2.24                    | -0.47                  | -2.19                 |
| 10,837.0              | 89.00           | 91.60       | 8,188.0               | -221.7      | 2,930.9     | 2,939.2                 | 1.54                    | 0.63                   | 1.41                  |
| 10,900.0              | 87.40           | 91.40       | 8,190.0               | -223.4      | 2,993.8     | 3,002.1                 | 2.56                    | -2.54                  | -0.32                 |
| 10,991.0              | 88.00           | 90.70       | 8,193.7               | -225.0      | 3,084.7     | 3,092.9                 | 1.01                    | 0.66                   | -0.77                 |
| 11,054.0              | 88.20           | 89.50       | 8,195.8               | -225.1      | 3,147.7     | 3,155.7                 | 1.93                    | 0.32                   | -1.90                 |
| 11,118.0              | 88.10           | 90.60       | 8,197.8               | -225.2      | 3,211.7     | 3,219.4                 | 1.72                    | -0.16                  | 1.72                  |
| 11,181.0              | 87.80           | 91.80       | 8,200.1               | -226.5      | 3,274.6     | 3,282.3                 | 1.96                    | -0.48                  | 1.90                  |
| 11,245.0              | 89.00           | 92.80       | 8,201.9               | -229.1      | 3,338.5     | 3,346.2                 | 2.44                    | 1.88                   | 1.56                  |
| 11,308.0              | 88.90           | 93.20       | 8,203.0               | -232.4      | 3,401.4     | 3,409.2                 | 0.65                    | -0.16                  | 0.63                  |
| 11,340.0              | 88.70           | 93.20       | 8,203.7               | -234.2      | 3,433.4     | 3,441.2                 | 0.63                    | -0.63                  | 0.00                  |
| 11,404.0              | 89.80           | 94.10       | 8,204.5               | -238.2      | 3,497.2     | 3,505.2                 | 2.22                    | 1.72                   | 1.41                  |
| 11,467.0              | 90.10           | 94.20       | 8,204.6               | -242.8      | 3,560.1     | 3,568.2                 | 0.50                    | 0.48                   | 0.16                  |
| 11,531.0              | 89.00           | 93.90       | 8,205.1               | -247.3      | 3,623.9     | 3,632.2                 | 1.78                    | -1.72                  | -0.47                 |
| 11,594.0              | 89.60           | 93.90       | 8,205.9               | -251.6      | 3,686.7     | 3,695.2                 | 0.95                    | 0.95                   | 0.00                  |
| 11,658.0              | 90.10           | 93.40       | 8,206.0               | -255.7      | 3,750.6     | 3,759.2                 | 1.10                    | 0.78                   | -0.78                 |
| 11,721.0              | 89.80           | 93.90       | 8,206.1               | -259.7      | 3,813.5     | 3,822.1                 | 0.93                    | -0.48                  | 0.79                  |
| 11,785.0              | 89.40           | 93.70       | 8,206.5               | -263.9      | 3,877.3     | 3,886.1                 | 0.70                    | -0.63                  | -0.31                 |
| 11,849.0              | 90.00           | 92.50       | 8,206.9               | -267.4      | 3,941.3     | 3,950.1                 | 2.10                    | 0.94                   | -1.88                 |
| 11,912.0              | 90.40           | 93.50       | 8,206.6               | -270.7      | 4,004.2     | 4,013.1                 | 1.71                    | 0.63                   | 1.59                  |
| 11,975.0              | 88.40           | 93.40       | 8,207.3               | -274.5      | 4,067.0     | 4,076.1                 | 3.18                    | -3.17                  | -0.16                 |
| 12,039.0              | 87.20           | 93.00       | 8,209.8               | -278.1      | 4,130.9     | 4,140.0                 | 1.98                    | -1.88                  | -0.63                 |
| 12,102.0              | 88.30           | 94.10       | 8,212.2               | -282.0      | 4,193.7     | 4,203.0                 | 2.47                    | 1.75                   | 1.75                  |
| 12,166.0              | 88.00           | 93.90       | 8,214.3               | -286.4      | 4,257.5     | 4,266.9                 | 0.56                    | -0.47                  | -0.31                 |
| 12,230.0              | 88.20           | 94.20       | 8,216.4               | -290.9      | 4,321.3     | 4,330.9                 | 0.56                    | 0.31                   | 0.47                  |

# DDC Survey Report



|           |                           |                              |                                          |
|-----------|---------------------------|------------------------------|------------------------------------------|
| Company:  | Mewbourne Oil Co          | Local Co-ordinate Reference: | Well Four Peaks 35 Fed Com #2H           |
| Project:  | Eddy County, New Mexico   | TVD Reference:               | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| Site:     | Sec35-19S-29E             | MD Reference:                | WELL @ 3334.0usft (Patterson-UTI Rig 45) |
| Well:     | Four Peaks 35 Fed Com #2H | North Reference:             | Grid                                     |
| Wellbore: | Wellbore #1               | Survey Calculation Method:   | Minimum Curvature                        |
| Design:   | Wellbore #1               | Database:                    | EDM 5000.1 Single User Db                |

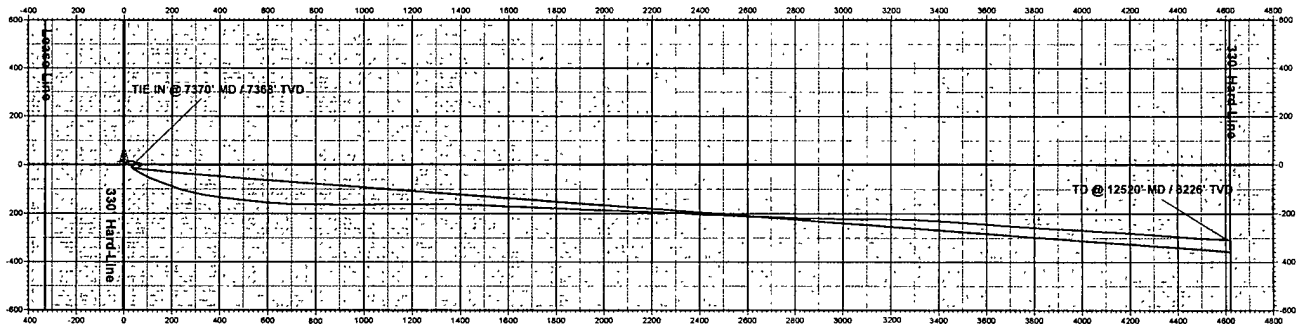
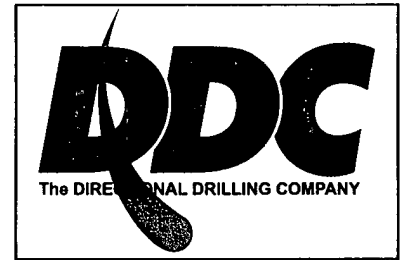
| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,293.0                   | 88.30           | 94.20       | 8,218.3               | -295.5       | 4,384.1      | 4,393.9                 | 0.16                    | 0.16                   | 0.00                  |
| 12,357.0                   | 88.00           | 93.90       | 8,220.4               | -300.1       | 4,447.9      | 4,457.8                 | 0.66                    | -0.47                  | -0.47                 |
| 12,420.0                   | 87.80           | 93.40       | 8,222.7               | -304.1       | 4,510.8      | 4,520.8                 | 0.85                    | -0.32                  | -0.79                 |
| 12,470.0                   | 87.90           | 92.70       | 8,224.6               | -306.7       | 4,560.7      | 4,570.7                 | 1.41                    | 0.20                   | -1.40                 |
| TD @ 12520' MD / 8226' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,520.0                   | 88.00           | 92.70       | 8,226.4               | -309.1       | 4,610.6      | 4,620.7                 | 0.20                    | 0.20                   | 0.00                  |

| Survey Annotations          |                             |                   |                 |                               |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                       |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                               |
| 7,370.0                     | 7,368.4                     | -4.4              | 36.0            | TIE IN @ 7370' MD / 7368' TVD |
| 12,520.0                    | 8,226.4                     | -309.1            | 4,610.6         | TD @ 12520' MD / 8226' TVD    |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# Mewborne Oil Co

Four Peaks 35 Fed Com #2H  
Eddy County, New Mexico  
Q110415 & WT-12274



Company Name: Mewborne Oil Co  
Four Peaks 35 Fed Com #2H  
Eddy County, New Mexico  
Rig: Patterson-UTI Rig 45  
Created By: Dina Chance  
Date: 5/22/2012

#### WELL DETAILS Four Peaks 35 Fed Com #2H

Ground Level: 3314.0  
+N/-S/E/-W Northing Easting Latitude Longitude  
0.0 0.0 58865.55 586445.72 32° 37' 7.896 N 104° 3' 9.240 W

#### DESIGN TARGET DETAILS

| Name                                                        | TVD    | +N/-S  | +E/-W  | Northing  | Easting   | Latitude                         | Longitude |
|-------------------------------------------------------------|--------|--------|--------|-----------|-----------|----------------------------------|-----------|
| PBHL Four Peaks 35 Fed Com #2H<br>- plan hits target center | 8224.0 | -358.4 | 4619.4 | 588605.50 | 591066.10 | 32° 37' 4.226 N 104° 2' 15.241 W |           |

#### ANNOTATIONS

| MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W  | V Sect | Departure | Annotation                    |
|---------|-------|--------|--------|--------|--------|--------|-----------|-------------------------------|
| 7370.0  | 1.82  | 230.26 | 7368.4 | -4.4   | 36.0   | 36.3   | 140.3     | TIE IN @ 7370' MD / 7368' TVD |
| 12520.0 | 88.00 | 92.70  | 8226.4 | -309.1 | 4610.6 | 4620.7 | 4765.7    | TD @ 12520' MD / 8226' TVD    |

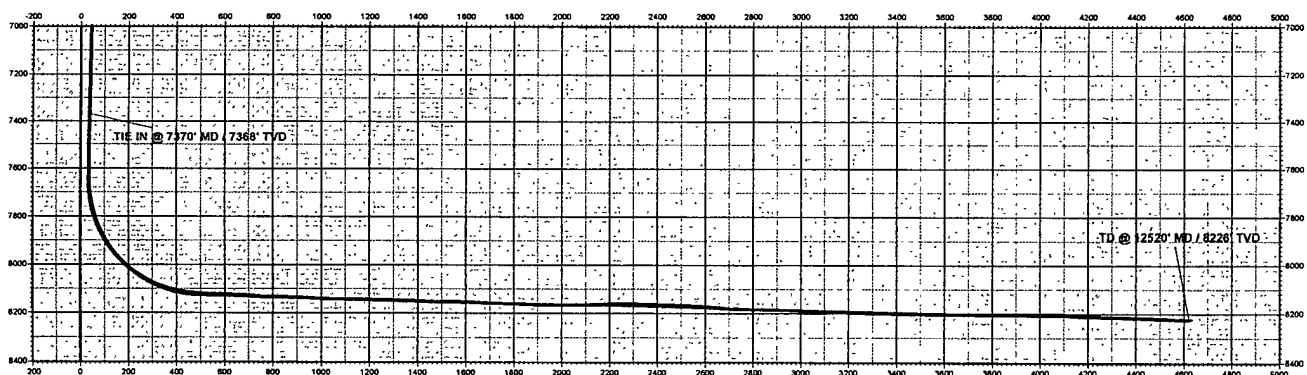


Azimuths to Grid North  
Magnetic North: 7.58°

Magnetic Field  
Strength: 48715.4snT  
Dip Angle: 60.45°  
Date: 4/25/2012  
Model: IGRF2010

#### PROJECT DETAILS Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 300°  
System Datum: Mean Sea Level



Vertical Section at 94.44° (200 usft/in)