

# Mewbourne Oil Co

Eddy County, New Mexico

Sec 4-20S-25E

Fast Draw 4 EH Federal Com #1H

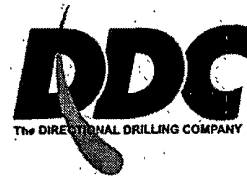
Wellbore #1

30-015-38636

Survey: MWD Survey

## DDC Survey Report

03 May, 2011



# DDC Survey Report



|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co               | <b>Local Co-ordinate Reference:</b> | Well Fast Draw 4 EH Federal Com #1H    |
| <b>Project:</b>  | Eddy County, New Mexico        | <b>TVD Reference:</b>               | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Sec 4-20S-25E                  | <b>MD Reference:</b>                | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Fast Draw 4 EH Federal Com #1H | <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                  |          | Sec 4-20S-25E |                 |                   |                  |
| Site Position:        |          | Northing:     | 581,878.03 usft | Latitude:         | 32° 35' 58.542 N |
| From:                 | Map      | Easting:      | 452,952.66 usft | Longitude:        | 104° 29' 9.974 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:  | 13-3/16 "       | Grid Convergence: | -0.08 °          |

|                                      |       |          |                     |                 |               |                   |
|--------------------------------------|-------|----------|---------------------|-----------------|---------------|-------------------|
| Well: Fast Draw 4 EH Federal Com #1H |       |          |                     |                 |               |                   |
| Well Position                        | +N/-S | 0.0 usft | Northing:           | 583,255.23 usft | Latitude:     | 32° 36' 12.121 N  |
|                                      | +E/-W | 0.0 usft | Easting:            | 449,632.91 usft | Longitude:    | 104° 29' 48.806 W |
| Position Uncertainty                 |       | 0.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,495.0 usft      |

|           |  |  |  |  |  |             |  |             |  |                 |  |               |  |                     |  |
|-----------|--|--|--|--|--|-------------|--|-------------|--|-----------------|--|---------------|--|---------------------|--|
| Wellbore  |  |  |  |  |  | Wellbore #1 |  |             |  |                 |  |               |  |                     |  |
| Magnetics |  |  |  |  |  | Model Name  |  | Sample Date |  | Declination (°) |  | Dip Angle (°) |  | Field Strength (nT) |  |
|           |  |  |  |  |  | IGRF2010    |  | 3/29/2011   |  | 8.06            |  | 60.38         |  | 48,760              |  |

|                   |                            |                 |                 |                  |     |
|-------------------|----------------------------|-----------------|-----------------|------------------|-----|
| Design:           | Wellbore #1                |                 |                 |                  |     |
| Audit Notes:      |                            |                 |                 |                  |     |
| Version:          | 1.0                        | Phase:          | ACTUAL          | Tie On Depth:    | 0.0 |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |     |
|                   | 0.0                        | 0.0             | 0.0             | 90.31            |     |

| Survey Program |           | Date                     | 5/3/2011    |                |
|----------------|-----------|--------------------------|-------------|----------------|
| From (usft)    | To (usft) | Survey (Wellbore)        | Tool Name   | Description    |
| 100.0          | 1,765.0   | GYRO (Wellbore #1)       | Good_gyro   | Good Gyro      |
| 1,865.0        | 6,970.0   | MWD Survey (Wellbore #1) | MWD default | MWD - Standard |

| <b>Survey</b>         | <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |
|-----------------------|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| <b>Tie-in to Gyro</b> |                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |
|                       | 1,765.0                      | 2.55                   | 180.73             | 1,763.8                      | -42.6               | 5.7                 | 5.9                            | 0.00                           | 0.00                          | 0.00                         |
|                       | 1,865.0                      | 2.50                   | 181.10             | 1,863.7                      | -47.0               | 5.6                 | 5.9                            | 0.05                           | -0.05                         | 0.37                         |
|                       | 1,928.0                      | 2.20                   | 181.50             | 1,926.7                      | -49.6               | 5.6                 | 5.8                            | 0.48                           | -0.48                         | 0.63                         |
|                       | 1,960.0                      | 2.10                   | 179.70             | 1,958.7                      | -50.8               | 5.5                 | 5.8                            | 0.38                           | -0.31                         | -5.63                        |
|                       | 1,992.0                      | 1.20                   | 25.30              | 1,990.7                      | -51.1               | 5.7                 | 6.0                            | 10.08                          | -2.81                         | -482.50                      |
|                       | 2,024.0                      | 5.70                   | 12.90              | 2,022.6                      | -49.2               | 6.2                 | 6.5                            | 14.17                          | 14.06                         | -38.75                       |
|                       | 2,056.0                      | 10.30                  | 12.70              | 2,054.3                      | -44.9               | 7.2                 | 7.4                            | 14.38                          | 14.38                         | -0.63                        |
|                       | 2,088.0                      | 14.90                  | 11.80              | 2,085.5                      | -38.0               | 8.6                 | 8.9                            | 14.39                          | 14.38                         | -2.81                        |
|                       | 2,119.0                      | 18.90                  | 12.30              | 2,115.1                      | -29.2               | 10.5                | 10.7                           | 12.91                          | 12.90                         | 1.61                         |

DDC  
Survey Report



|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co               | <b>Local Co-ordinate Reference:</b> | Well Fast Draw 4 EH Federal Com #1H    |
| <b>Project:</b>  | Eddy County, New Mexico        | <b>TVD Reference:</b>               | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Sec 4-20S-25E                  | <b>MD Reference:</b>                | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Fast Draw 4 EH Federal Com #1H | <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) |
| <b>Crossed Hard-Line @ 2151.1MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,151.0                             | 22.50           | 16.70       | 2,145.1               | -18.3        | 13.4         | 13.5                    | 12.25                   | 11.25                  | 13.75                 |
| 2,183.0                             | 26.40           | 22.00       | 2,174.2               | -5.8         | 17.8         | 17.9                    | 13.97                   | 12.19                  | 16.56                 |
| 2,215.0                             | 30.00           | 27.30       | 2,202.4               | 7.9          | 24.2         | 24.1                    | 13.70                   | 11.25                  | 16.56                 |
| 2,246.0                             | 33.50           | 33.00       | 2,228.8               | 22.0         | 32.4         | 32.3                    | 14.86                   | 11.29                  | 18.39                 |
| 2,278.0                             | 37.40           | 38.50       | 2,254.8               | 37.0         | 43.2         | 43.0                    | 15.74                   | 12.19                  | 17.19                 |
| 2,310.0                             | 40.80           | 45.20       | 2,279.7               | 52.0         | 56.7         | 56.4                    | 16.94                   | 10.63                  | 20.94                 |
| 2,341.0                             | 44.00           | 51.00       | 2,302.6               | 65.9         | 72.3         | 71.9                    | 16.29                   | 10.32                  | 18.71                 |
| 2,372.0                             | 46.00           | 56.00       | 2,324.5               | 78.9         | 89.9         | 89.5                    | 13.10                   | 6.45                   | 16.13                 |
| 2,404.0                             | 48.10           | 62.30       | 2,346.3               | 90.9         | 110.0        | 109.5                   | 15.83                   | 6.56                   | 19.69                 |
| 2,436.0                             | 49.60           | 68.60       | 2,367.4               | 100.9        | 131.9        | 131.4                   | 15.54                   | 4.69                   | 19.69                 |
| 2,468.0                             | 52.00           | 74.80       | 2,387.6               | 108.6        | 155.4        | 154.8                   | 16.78                   | 7.50                   | 19.38                 |
| 2,500.0                             | 52.80           | 81.30       | 2,407.2               | 113.9        | 180.2        | 179.6                   | 16.28                   | 2.50                   | 20.31                 |
| 2,531.0                             | 55.00           | 87.20       | 2,425.4               | 116.4        | 205.1        | 204.5                   | 16.93                   | 7.10                   | 19.03                 |
| 2,563.0                             | 58.70           | 91.60       | 2,442.9               | 116.6        | 231.9        | 231.3                   | 16.31                   | 11.56                  | 13.75                 |
| 2,595.0                             | 63.70           | 93.70       | 2,458.3               | 115.3        | 259.9        | 259.3                   | 16.65                   | 15.63                  | 6.56                  |
| 2,627.0                             | 67.90           | 94.50       | 2,471.5               | 113.2        | 289.0        | 288.4                   | 13.32                   | 13.13                  | 2.50                  |
| 2,659.0                             | 72.10           | 94.00       | 2,482.4               | 111.0        | 319.0        | 318.4                   | 13.21                   | 13.13                  | -1.56                 |
| 2,691.0                             | 75.80           | 92.70       | 2,491.3               | 109.2        | 349.7        | 349.1                   | 12.20                   | 11.56                  | -4.06                 |
| 2,723.0                             | 78.90           | 91.60       | 2,498.3               | 108.0        | 380.9        | 380.3                   | 10.25                   | 9.69                   | -3.44                 |
| 2,754.0                             | 82.30           | 90.90       | 2,503.3               | 107.4        | 411.4        | 410.9                   | 11.19                   | 10.97                  | -2.26                 |
| 2,788.0                             | 86.90           | 90.80       | 2,506.5               | 106.9        | 445.3        | 444.7                   | 13.53                   | 13.53                  | -0.29                 |
| 2,820.0                             | 88.60           | 90.00       | 2,507.8               | 106.6        | 477.3        | 476.7                   | 5.87                    | 5.31                   | -2.50                 |
| 2,884.0                             | 88.60           | 92.50       | 2,509.3               | 105.2        | 541.2        | 540.6                   | 3.91                    | 0.00                   | 3.91                  |
| 2,947.0                             | 88.30           | 92.60       | 2,511.0               | 102.4        | 604.1        | 603.6                   | 0.50                    | -0.48                  | 0.16                  |
| 3,011.0                             | 88.10           | 92.20       | 2,513.1               | 99.8         | 668.0        | 667.5                   | 0.70                    | -0.31                  | -0.63                 |
| 3,074.0                             | 89.00           | 92.10       | 2,514.6               | 97.4         | 731.0        | 730.4                   | 1.44                    | 1.43                   | -0.16                 |
| 3,138.0                             | 89.40           | 92.30       | 2,515.5               | 94.9         | 794.9        | 794.4                   | 0.70                    | 0.63                   | 0.31                  |
| 3,201.0                             | 89.20           | 91.60       | 2,516.3               | 92.8         | 857.9        | 857.4                   | 1.16                    | -0.32                  | -1.11                 |
| 3,264.0                             | 89.10           | 91.50       | 2,517.2               | 91.1         | 920.9        | 920.3                   | 0.22                    | -0.16                  | -0.16                 |
| 3,328.0                             | 89.20           | 90.50       | 2,518.2               | 90.0         | 984.8        | 984.3                   | 1.57                    | 0.16                   | -1.56                 |
| 3,391.0                             | 89.40           | 90.90       | 2,519.0               | 89.2         | 1,047.8      | 1,047.3                 | 0.71                    | 0.32                   | 0.63                  |
| 3,455.0                             | 89.80           | 92.10       | 2,519.4               | 87.5         | 1,111.8      | 1,111.3                 | 1.98                    | 0.63                   | 1.88                  |
| 3,518.0                             | 90.20           | 92.10       | 2,519.4               | 85.2         | 1,174.8      | 1,174.3                 | 0.63                    | 0.63                   | 0.00                  |
| 3,581.0                             | 90.30           | 91.90       | 2,519.1               | 83.0         | 1,237.7      | 1,237.3                 | 0.35                    | 0.16                   | -0.32                 |
| 3,644.0                             | 90.10           | 91.00       | 2,518.9               | 81.4         | 1,300.7      | 1,300.2                 | 1.46                    | -0.32                  | -1.43                 |
| 3,708.0                             | 89.30           | 91.70       | 2,519.3               | 79.9         | 1,364.7      | 1,364.2                 | 1.66                    | -1.25                  | 1.09                  |
| 3,772.0                             | 88.50           | 91.60       | 2,520.5               | 78.1         | 1,428.6      | 1,428.2                 | 1.26                    | -1.25                  | -0.16                 |
| 3,836.0                             | 88.00           | 91.10       | 2,522.4               | 76.6         | 1,492.6      | 1,492.2                 | 1.10                    | -0.78                  | -0.78                 |
| 3,900.0                             | 88.40           | 91.50       | 2,524.4               | 75.1         | 1,556.5      | 1,556.1                 | 0.88                    | 0.63                   | 0.63                  |
| 3,963.0                             | 88.60           | 92.40       | 2,526.1               | 73.0         | 1,619.5      | 1,619.1                 | 1.46                    | 0.32                   | 1.43                  |
| 4,027.0                             | 88.80           | 92.30       | 2,527.5               | 70.4         | 1,683.4      | 1,683.0                 | 0.35                    | 0.31                   | -0.16                 |
| 4,090.0                             | 88.90           | 92.70       | 2,528.8               | 67.6         | 1,746.3      | 1,745.9                 | 0.65                    | 0.16                   | 0.63                  |

DDC  
Survey Report



|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
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| <b>Project:</b>  | Eddy County, New Mexico        | <b>TVD Reference:</b>               | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Sec 4-20S-25E                  | <b>MD Reference:</b>                | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Fast Draw 4 EH Federal Com #1H | <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) |
| 4,154.0               | 88.90           | 92.20       | 2,530.0               | 64.9         | 1,810.3      | 1,809.9                 | 0.78                    | 0.00                   | -0.78                 |
| 4,218.0               | 88.20           | 90.90       | 2,531.7               | 63.1         | 1,874.2      | 1,873.9                 | 2.31                    | -1.09                  | -2.03                 |
| 4,281.0               | 89.00           | 90.30       | 2,533.2               | 62.5         | 1,937.2      | 1,936.8                 | 1.59                    | 1.27                   | -0.95                 |
| 4,345.0               | 89.40           | 91.50       | 2,534.1               | 61.5         | 2,001.2      | 2,000.8                 | 1.98                    | 0.63                   | 1.88                  |
| 4,387.0               | 89.30           | 92.00       | 2,534.6               | 60.2         | 2,043.2      | 2,042.8                 | 1.21                    | -0.24                  | 1.19                  |
| 4,449.0               | 89.80           | 92.90       | 2,535.1               | 57.5         | 2,105.1      | 2,104.8                 | 1.66                    | 0.81                   | 1.45                  |
| 4,511.0               | 90.20           | 92.80       | 2,535.1               | 54.5         | 2,167.0      | 2,166.7                 | 0.67                    | 0.65                   | -0.16                 |
| 4,570.0               | 89.90           | 92.10       | 2,535.0               | 51.9         | 2,226.0      | 2,225.7                 | 1.29                    | -0.51                  | -1.19                 |
| 4,634.0               | 90.10           | 91.60       | 2,535.0               | 49.9         | 2,289.9      | 2,289.6                 | 0.84                    | 0.31                   | -0.78                 |
| 4,697.0               | 90.10           | 91.40       | 2,534.9               | 48.2         | 2,352.9      | 2,352.6                 | 0.32                    | 0.00                   | -0.32                 |
| 4,761.0               | 89.90           | 92.40       | 2,534.9               | 46.1         | 2,416.9      | 2,416.6                 | 1.59                    | -0.31                  | 1.56                  |
| 4,824.0               | 89.80           | 92.80       | 2,535.1               | 43.2         | 2,479.8      | 2,479.5                 | 0.65                    | -0.16                  | 0.63                  |
| 4,888.0               | 89.80           | 92.50       | 2,535.3               | 40.3         | 2,543.7      | 2,543.5                 | 0.47                    | 0.00                   | -0.47                 |
| 4,951.0               | 90.10           | 93.30       | 2,535.3               | 37.1         | 2,606.7      | 2,606.4                 | 1.36                    | 0.48                   | 1.27                  |
| 5,015.0               | 88.80           | 92.00       | 2,536.0               | 34.1         | 2,670.6      | 2,670.4                 | 2.87                    | -2.03                  | -2.03                 |
| 5,078.0               | 88.30           | 92.40       | 2,537.5               | 31.7         | 2,733.5      | 2,733.3                 | 1.02                    | -0.79                  | 0.63                  |
| 5,142.0               | 90.10           | 91.90       | 2,538.4               | 29.3         | 2,797.5      | 2,797.3                 | 2.92                    | 2.81                   | -0.78                 |
| 5,205.0               | 90.30           | 92.40       | 2,538.2               | 27.0         | 2,860.4      | 2,860.2                 | 0.85                    | 0.32                   | 0.79                  |
| 5,268.0               | 89.40           | 91.00       | 2,538.4               | 25.1         | 2,923.4      | 2,923.2                 | 2.64                    | -1.43                  | -2.22                 |
| 5,332.0               | 88.70           | 91.50       | 2,539.4               | 23.7         | 2,987.4      | 2,987.2                 | 1.34                    | -1.09                  | 0.78                  |
| 5,396.0               | 89.00           | 92.10       | 2,540.7               | 21.7         | 3,051.3      | 3,051.2                 | 1.05                    | 0.47                   | 0.94                  |
| 5,460.0               | 88.30           | 92.40       | 2,542.2               | 19.2         | 3,115.3      | 3,115.1                 | 1.19                    | -1.09                  | 0.47                  |
| 5,523.0               | 89.50           | 91.70       | 2,543.4               | 16.9         | 3,178.2      | 3,178.1                 | 2.21                    | 1.90                   | -1.11                 |
| 5,585.0               | 88.80           | 90.90       | 2,544.4               | 15.5         | 3,240.2      | 3,240.1                 | 1.71                    | -1.13                  | -1.29                 |
| 5,649.0               | 89.00           | 91.40       | 2,545.6               | 14.2         | 3,304.2      | 3,304.0                 | 0.84                    | 0.31                   | 0.78                  |
| 5,712.0               | 88.00           | 91.30       | 2,547.2               | 12.7         | 3,367.1      | 3,367.0                 | 1.60                    | -1.59                  | -0.16                 |
| 5,775.0               | 89.00           | 92.30       | 2,548.9               | 10.8         | 3,430.1      | 3,430.0                 | 2.24                    | 1.59                   | 1.59                  |
| 5,838.0               | 88.60           | 91.60       | 2,550.2               | 8.6          | 3,493.0      | 3,492.9                 | 1.28                    | -0.63                  | -1.11                 |
| 5,901.0               | 89.60           | 91.60       | 2,551.2               | 6.9          | 3,556.0      | 3,555.9                 | 1.59                    | 1.59                   | 0.00                  |
| 5,965.0               | 89.10           | 92.30       | 2,551.9               | 4.7          | 3,619.9      | 3,619.9                 | 1.34                    | -0.78                  | 1.09                  |
| 6,029.0               | 89.00           | 91.80       | 2,553.0               | 2.4          | 3,683.9      | 3,683.8                 | 0.80                    | -0.16                  | -0.78                 |
| 6,092.0               | 88.40           | 92.00       | 2,554.4               | 0.3          | 3,746.8      | 3,746.8                 | 1.00                    | -0.95                  | 0.32                  |
| 6,156.0               | 88.40           | 93.80       | 2,556.2               | -2.9         | 3,810.7      | 3,810.7                 | 2.81                    | 0.00                   | 2.81                  |
| 6,220.0               | 89.70           | 95.00       | 2,557.3               | -7.8         | 3,874.5      | 3,874.5                 | 2.76                    | 2.03                   | 1.88                  |
| 6,283.0               | 90.70           | 93.30       | 2,557.0               | -12.4        | 3,937.4      | 3,937.4                 | 3.13                    | 1.59                   | -2.70                 |
| 6,347.0               | 91.70           | 91.00       | 2,555.7               | -14.8        | 4,001.3      | 4,001.3                 | 3.92                    | 1.56                   | -3.59                 |
| 6,411.0               | 89.50           | 90.80       | 2,555.0               | -15.8        | 4,065.3      | 4,065.3                 | 3.45                    | -3.44                  | -0.31                 |
| 6,474.0               | 89.20           | 91.90       | 2,555.8               | -17.3        | 4,128.3      | 4,128.3                 | 1.81                    | -0.48                  | 1.75                  |
| 6,538.0               | 89.70           | 90.10       | 2,556.4               | -18.4        | 4,192.2      | 4,192.3                 | 2.92                    | 0.78                   | -2.81                 |
| 6,601.0               | 89.30           | 89.30       | 2,556.9               | -18.1        | 4,255.2      | 4,255.3                 | 1.42                    | -0.63                  | -1.27                 |
| 6,665.0               | 88.30           | 89.20       | 2,558.3               | -17.2        | 4,319.2      | 4,319.2                 | 1.57                    | -1.56                  | -0.16                 |
| 6,729.0               | 89.10           | 90.10       | 2,559.7               | -16.8        | 4,383.2      | 4,383.2                 | 1.88                    | 1.25                   | 1.41                  |
| 6,793.0               | 88.40           | 89.60       | 2,561.1               | -16.7        | 4,447.2      | 4,447.2                 | 1.34                    | -1.09                  | -0.78                 |
| 6,856.0               | 88.80           | 91.60       | 2,562.6               | -17.3        | 4,510.2      | 4,510.2                 | 3.24                    | 0.63                   | 3.17                  |

**DDC**  
Survey Report



|                  |                                |                                     |                                        |
|------------------|--------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co               | <b>Local Co-ordinate Reference:</b> | Well Fast Draw 4 EH Federal Com #1H    |
| <b>Project:</b>  | Eddy County, New Mexico        | <b>TVD Reference:</b>               | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Sec 4-20S-25E                  | <b>MD Reference:</b>                | WELL @ 3514.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Fast Draw 4 EH Federal Com #1H | <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<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 6,921.0                     | 88.40              | 92.30          | 2,564.2                     | -19.6           | 4,575.1         | 4,575.1                       | 1.24                          | -0.62                        | 1.08                        |
| TD                          |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 6,970.0                     | 88.40              | 92.30          | 2,565.6                     | -21.5           | 4,624.0         | 4,624.1                       | 0.00                          | 0.00                         | 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) |                              |
| 1,765.0                     | 1,763.8                     | -42.6             | 5.7             | Tie-In to Gyro               |
| 2,151.0                     | 2,145.1                     | -18.3             | 13.4            | Crossed Hard-Line @ 2151' MD |
| 6,970.0                     | 2,565.6                     | -21.5             | 4,624.0         | TD                           |

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|

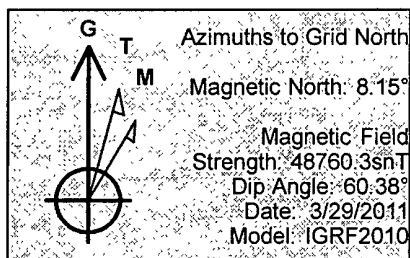
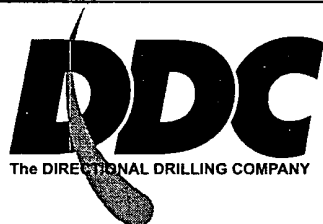
Fast Draw 4 EH Federal Com #1H  
Eddy County, New Mexico  
Q100749 & WT-11179

Company Name: Mewbourne Oil Co  
Fast Draw 4 EH Federal Com #1H  
Eddy County, New Mexico  
Rig: Patterson UTI #101  
Created By: Kristen Koch  
Date: 4/26/2011

WELL DETAILS: Fast Draw 4 EH Federal Com #1H

|       |       | Ground Level |           | 3495 0           |                   |  |
|-------|-------|--------------|-----------|------------------|-------------------|--|
| +N/-S | +E/-W | North        | East      | Latitude         | Longitude         |  |
| 0 0   | 0 0   | 583255 23    | 449612 81 | 32° 36' 12 121 N | 104° 28' 48 806 W |  |

# Mewbourne Oil Company



PROJECT DETAILS: Eddy County, New Mexico

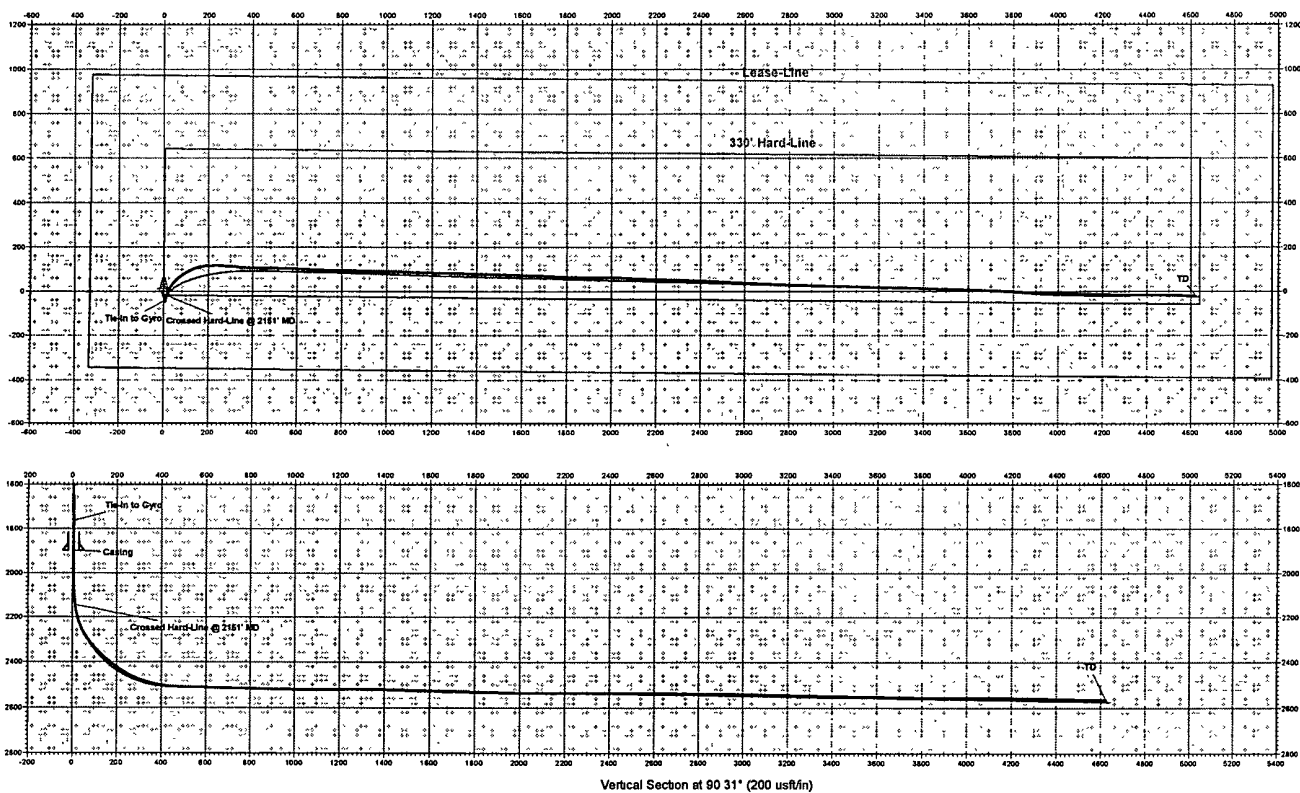
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level

ANNOTATIONS

| MD     | Inc   | Azi    | TVD    | +N/-S | +E/-W  | Vsect  | Departure | Annotation                   |
|--------|-------|--------|--------|-------|--------|--------|-----------|------------------------------|
| 1765 0 | 2 55  | 180 73 | 1763 9 | -42 8 | 5 7    | 5 9    | 51 8      | Tie-In to Gyro               |
| 2151 0 | 22 50 | 18 70  | 2145 1 | -18 3 | 13 4   | 13 5   | 94 8      | Crossed Hard-Line @ 2151' MD |
| 6970 0 | 88 40 | 92 30  | 2565 6 | -21 5 | 4624 0 | 4624 1 | 4765 3    | TD                           |

DESIGN TARGET DETAILS

| Name                                                             | TVD    | +N/-S | +E/-W  | North     | East      | Latitude         | Longitude         |
|------------------------------------------------------------------|--------|-------|--------|-----------|-----------|------------------|-------------------|
| PBHL Fast Draw 4 EH Federal Com #1H<br>- plan hita target center | 2573 0 | -24 9 | 4642 7 | 583230 30 | 454275 61 | 32° 36' 11.942 N | 104° 28' 54.531 W |



Vertical Section of 90 31° (200 usf/in)