

# Preliminary Horizontal Planning Worksheet

Fill in the Blue Boxes

Yellow Boxes are Calculated

4/28/2014

|                                       |  |                                   |  |
|---------------------------------------|--|-----------------------------------|--|
| <b>Well Name:</b>                     |  | Layla 35 W2OB Fee 3H              |  |
| <b>Surface Location:</b>              |  | 185 FSL & 2435 FEL                |  |
| State/ County                         |  | NM/Eddy                           |  |
| S-T-R or Section-Block-Survey (Texas) |  | Section 35/ 23S/ 28E              |  |
| <b>Target Formation:</b>              |  | WFMP "D" Shale                    |  |
| <b>Elevation of SL</b>                |  |                                   |  |
| Ground Level:                         |  | 3009                              |  |
| Height of KB:                         |  | 20                                |  |
| KB Elevation:                         |  | 3029                              |  |
| <b>Landing Point</b>                  |  |                                   |  |
| Footing Calls                         |  | 757 FSL & 2400 FEL Sec 35/23S/28E |  |
| Subsea Depth                          |  | -7600                             |  |
| TVD =                                 |  | 10629                             |  |
| <b>PBHL</b>                           |  |                                   |  |
| Footing Calls                         |  | 330 FNL & 2150 FEL Sec 35/23S/28E |  |
| Subsea Depth                          |  | -7600                             |  |
| TVD =                                 |  | 10629                             |  |
| <b>Lateral Length:</b>                |  | 4203.71                           |  |
| <b>Estimated KOP:</b>                 |  | 10056.04                          |  |
| <b>Est. Total Depth:</b>              |  | 15159.75                          |  |

|                |         |    |
|----------------|---------|----|
| PBHL Offsets = | 4767.67 | NS |
|                | 293.05  | EW |

Oil Conservation Division

Case No. \_\_\_\_\_

Exhibit No. 11

# Mewbourne Oil Company

## SURVEY CALCULATION REPORT Minimum Curvature Calculations

Operator: Mewbourne Oil Company  
Lease Name: Layla 35 W2OB Fee 3H  
KOP 10056.04  
SL: 150 FNL & 1400 FWL Sec 6-20S-29E  
BHL: 330 FSL & 1400 FWL Sec 6-20S-29E

Target KBTVD: 10,629 Feet 10629.00  
Target Angle: 90.00 Degrees 90.00  
Section Plane: 3.52 Degrees  
Declination Corrected to True North: 6.63 Degrees  
Bit to Survey Offset: 44 Feet

| Survey No. | Measured Depth-ft | Drift (Deg.) | Azimuth (Deg.) | Course Length | TVD (Feet) | Vertical Section | +N-S (Feet) | +E-W (Feet) | Closure Distance | Closure Direction | BUR   | DLS   | KBTVD   | +Above        |               |       | AZIMUTH (RADIAN) |
|------------|-------------------|--------------|----------------|---------------|------------|------------------|-------------|-------------|------------------|-------------------|-------|-------|---------|---------------|---------------|-------|------------------|
|            |                   |              |                |               |            |                  |             |             |                  |                   |       |       |         | -Below Target | DRIFT RADIANT |       |                  |
| T/I        | 10056.04          | 0.00         | 3.52           | N/A           | 10056.0    | 0.0              | 0.0         | 0.0         | 0.0              | 0.0               | N/A   | N/A   | 10056.0 | 573.0         | 1E-12         | 0.06  | #VALUE!          |
| 1          | 10148.04          | 9.00         | 3.52           | 90            | 10145.7    | 7.1              | 7.0         | 0.4         | 7.1              | 3.5               | 10.0  | 10.0  | 10145.7 | 483.3         | 0.15708       | 0.06  | 0.1570796        |
| 2          | 10238.04          | 18.00        | 3.52           | 90            | 10233.1    | 28.0             | 28.0        | 1.7         | 28.0             | 3.5               | 10.0  | 10.0  | 10233.1 | 395.9         | 0.314159      | 0.06  | 0.1570796        |
| 3          | 10328.04          | 27.00        | 3.52           | 90            | 10316.2    | 62.4             | 62.3        | 3.8         | 62.4             | 3.5               | 10.0  | 10.0  | 10316.2 | 312.8         | 0.471239      | 0.06  | 0.1570796        |
| 4          | 10418.04          | 36.00        | 3.52           | 90            | 10392.8    | 109.4            | 109.2       | 6.7         | 109.4            | 3.5               | 10.0  | 10.0  | 10392.8 | 236.2         | 0.628319      | 0.06  | 0.1570796        |
| 5          | 10508.04          | 45.00        | 3.52           | 90            | 10461.2    | 167.8            | 167.5       | 10.3        | 167.8            | 3.5               | 10.0  | 10.0  | 10461.2 | 167.8         | 0.785398      | 0.06  | 0.1570796        |
| 6          | 10598.04          | 54.00        | 3.52           | 90            | 10519.6    | 236.2            | 235.7       | 14.5        | 236.2            | 3.5               | 10.0  | 10.0  | 10519.6 | 109.4         | 0.942478      | 0.06  | 0.1570796        |
| 7          | 10688.04          | 63.00        | 3.52           | 90            | 10566.6    | 312.8            | 312.3       | 19.2        | 312.8            | 3.5               | 10.0  | 10.0  | 10566.6 | 62.4          | 1.099557      | 0.06  | 0.1570796        |
| 8          | 10778.04          | 72.00        | 3.52           | 90            | 10601.0    | 395.9            | 395.2       | 24.3        | 395.9            | 3.5               | 10.0  | 10.0  | 10601.0 | 28.0          | 1.256637      | 0.06  | 0.1570796        |
| 9          | 10868.04          | 81.00        | 3.52           | 90            | 10621.9    | 483.3            | 482.4       | 29.7        | 483.3            | 3.5               | 10.0  | 10.0  | 10621.9 | 7.1           | 1.413717      | 0.06  | 0.1570796        |
| 10         | 10958.04          | 90.00        | 3.52           | 90            | 10629.0    | 573.0            | 571.9       | 35.2        | 573.0            | 3.5               | 10.0  | 10.0  | 10629.0 | 0.0           | 1.570796      | 0.06  | 0.1570796        |
| 11         | 11000.00          | 90.00        | 3.52           | 43.958        | 10629.0    | 616.9            | 615.8       | 37.8        | 616.9            | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 12         | 11100.00          | 90.00        | 3.52           | 100           | 10629.0    | 716.9            | 715.6       | 44.0        | 716.9            | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 13         | 11200.00          | 90.00        | 3.52           | 100           | 10629.0    | 816.9            | 815.4       | 50.1        | 816.9            | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 14         | 11300.00          | 90.00        | 3.52           | 100           | 10629.0    | 916.9            | 915.2       | 56.3        | 916.9            | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 15         | 11400.00          | 90.00        | 3.52           | 100           | 10629.0    | 1016.9           | 1015.0      | 62.4        | 1016.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 16         | 11500.00          | 90.00        | 3.52           | 100           | 10629.0    | 1116.9           | 1114.8      | 68.5        | 1116.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 17         | 11600.00          | 90.00        | 3.52           | 100           | 10629.0    | 1216.9           | 1214.6      | 74.7        | 1216.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 18         | 11700.00          | 90.00        | 3.52           | 100           | 10629.0    | 1316.9           | 1314.4      | 80.8        | 1316.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 19         | 11800.00          | 90.00        | 3.52           | 100           | 10629.0    | 1416.9           | 1414.2      | 86.9        | 1416.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 20         | 11900.00          | 90.00        | 3.52           | 100           | 10629.0    | 1516.9           | 1514.1      | 93.1        | 1516.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 21         | 12000.00          | 90.00        | 3.52           | 100           | 10629.0    | 1616.9           | 1613.9      | 99.2        | 1616.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 22         | 12100.00          | 90.00        | 3.52           | 100           | 10629.0    | 1716.9           | 1713.7      | 105.3       | 1716.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 23         | 12200.00          | 90.00        | 3.52           | 100           | 10629.0    | 1816.9           | 1813.5      | 111.5       | 1816.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 24         | 12300.00          | 90.00        | 3.52           | 100           | 10629.0    | 1916.9           | 1913.3      | 117.6       | 1916.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 25         | 12400.00          | 90.00        | 3.52           | 100           | 10629.0    | 2016.9           | 2013.1      | 123.7       | 2016.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 26         | 12500.00          | 90.00        | 3.52           | 100           | 10629.0    | 2116.9           | 2112.9      | 129.9       | 2116.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 27         | 12600.00          | 90.00        | 3.52           | 100           | 10629.0    | 2216.9           | 2212.7      | 136.0       | 2216.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 28         | 12700.00          | 90.00        | 3.52           | 100           | 10629.0    | 2316.9           | 2312.6      | 142.1       | 2316.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 29         | 12800.00          | 90.00        | 3.52           | 100           | 10629.0    | 2416.9           | 2412.4      | 148.3       | 2416.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 30         | 12900.00          | 90.00        | 3.52           | 100           | 10629.0    | 2516.9           | 2512.2      | 154.4       | 2516.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 31         | 13000.00          | 90.00        | 3.52           | 100           | 10629.0    | 2616.9           | 2612.0      | 160.5       | 2616.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 32         | 13100.00          | 90.00        | 3.52           | 100           | 10629.0    | 2716.9           | 2711.8      | 166.7       | 2716.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 33         | 13200.00          | 90.00        | 3.52           | 100           | 10629.0    | 2816.9           | 2811.6      | 172.8       | 2816.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 34         | 13300.00          | 90.00        | 3.52           | 100           | 10629.0    | 2916.9           | 2911.4      | 179.0       | 2916.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 35         | 13400.00          | 90.00        | 3.52           | 100           | 10629.0    | 3016.9           | 3011.2      | 185.1       | 3016.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 36         | 13500.00          | 90.00        | 3.52           | 100           | 10629.0    | 3116.9           | 3111.0      | 191.2       | 3116.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 37         | 13600.00          | 90.00        | 3.52           | 100           | 10629.0    | 3216.9           | 3210.9      | 197.4       | 3216.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 38         | 13700.00          | 90.00        | 3.52           | 100           | 10629.0    | 3316.9           | 3310.7      | 203.5       | 3316.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 39         | 13800.00          | 90.00        | 3.52           | 100           | 10629.0    | 3416.9           | 3410.5      | 209.6       | 3416.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 40         | 13900.00          | 90.00        | 3.52           | 100           | 10629.0    | 3516.9           | 3510.3      | 215.8       | 3516.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 41         | 14000.00          | 90.00        | 3.52           | 100           | 10629.0    | 3616.9           | 3610.1      | 221.9       | 3616.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 42         | 14100.00          | 90.00        | 3.52           | 100           | 10629.0    | 3716.9           | 3709.9      | 228.0       | 3716.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 43         | 14200.00          | 90.00        | 3.52           | 100           | 10629.0    | 3816.9           | 3809.7      | 234.2       | 3816.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 44         | 14300.00          | 90.00        | 3.52           | 100           | 10629.0    | 3916.9           | 3909.5      | 240.3       | 3916.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 45         | 14400.00          | 90.00        | 3.52           | 100           | 10629.0    | 4016.9           | 4009.3      | 246.4       | 4016.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 46         | 14500.00          | 90.00        | 3.52           | 100           | 10629.0    | 4116.9           | 4109.2      | 252.6       | 4116.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 47         | 14600.00          | 90.00        | 3.52           | 100           | 10629.0    | 4216.9           | 4209.0      | 258.7       | 4216.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 48         | 14700.00          | 90.00        | 3.52           | 100           | 10629.0    | 4316.9           | 4308.8      | 264.8       | 4316.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 49         | 14800.00          | 90.00        | 3.52           | 100           | 10629.0    | 4416.9           | 4408.6      | 271.0       | 4416.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 50         | 14900.00          | 90.00        | 3.52           | 100           | 10629.0    | 4516.9           | 4508.4      | 277.1       | 4516.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 51         | 15000.00          | 90.00        | 3.52           | 100           | 10629.0    | 4616.9           | 4608.2      | 283.2       | 4616.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 52         | 15100.00          | 90.00        | 3.52           | 100           | 10629.0    | 4716.9           | 4708.0      | 289.4       | 4716.9           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 53         | 15159.75          | 90.00        | 3.52           | 59.752        | 10629.0    | 4776.7           | 4767.7      | 293.1       | 4776.7           | 3.5               | 0.0   | 0.0   | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 54         | 15159.75          | 90.00        | 3.52           | 0             | 10629.0    | 4776.7           | 4767.7      | 293.1       | 4776.7           | 3.5               | ##### | ##### | 10629.0 | 0.0           | 1.570796      | 0.06  | 1E-10            |
| 55         |                   |              |                | #####         | #VALUE!    | #####            | #####       | #####       | #####            | #####             | ##### | ##### | #VALUE! | #####         | #####         | ##### | #VALUE!          |
| 56         | #VALUE!           | #VALUE!      | #VALUE!        | #####         | #VALUE!    | #####            | #####       | #####       | #####            | #####             | ##### | ##### | #VALUE! | #####         | #####         | ##### | #VALUE!          |