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DISTRICT II-ARTESIA O.C.D.

# **NORTHERN DELAWARE BASIN**

**EDDY COUNTY, NM**

**ATLAS**

**\*MYOX 6 STATE COM #501H**

**OWB**

**Plan: PWP1**

## **Standard Survey Report**

**25 April, 2019**

# Survey Report

|                  |                         |                                     |                                         |
|------------------|-------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well *MYOX 6 STATE COM #501H            |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Well:</b>     | *MYOX 6 STATE COM #501H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | PWP1                    | <b>Database:</b>                    | EDM_Users                               |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | EDDY COUNTY, NM                      |                      |                |
| <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                 |                      |                |

|             |       |
|-------------|-------|
| <b>Site</b> | ATLAS |
|-------------|-------|

|                              |          |                     |                 |                          |                  |
|------------------------------|----------|---------------------|-----------------|--------------------------|------------------|
| <b>Site Position:</b>        |          | <b>Northing:</b>    | 371,480.80 usft | <b>Latitude:</b>         | 32° 1' 15.933 N  |
| <b>From:</b>                 | Map      | <b>Easting:</b>     | 573,599.60 usft | <b>Longitude:</b>        | 104° 5' 45.086 W |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.13 °           |

|                             |                         |          |                            |                 |                                    |
|-----------------------------|-------------------------|----------|----------------------------|-----------------|------------------------------------|
| <b>Well</b>                 | *MYOX 6 STATE COM #501H |          |                            |                 |                                    |
| <b>Well Position</b>        | +N/-S                   | 0.0 usft | <b>Northing:</b>           | 391,781.90 usft | <b>Latitude:</b> 32° 4' 37.071 N   |
|                             | +E/-W                   | 0.0 usft | <b>Easting:</b>            | 562,353.30 usft | <b>Longitude:</b> 104° 7' 55.279 W |
| <b>Position Uncertainty</b> | 3.0 usft                |          | <b>Wellhead Elevation:</b> | usft            | <b>Ground Level:</b> 3,080.0 usft  |

|                 |     |
|-----------------|-----|
| <b>Wellbore</b> | OWB |
|-----------------|-----|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | WMM2015    | 4/24/2019   | 7.03            | 59.79         | 47,586.40849610     |

|               |      |
|---------------|------|
| <b>Design</b> | PWP1 |
|---------------|------|

|                     |                                             |
|---------------------|---------------------------------------------|
| <b>Audit Notes:</b> |                                             |
| <b>Version:</b>     | <b>Phase:</b> PLAN <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          | 182.80        |

| Survey Tool Program |              | Date              | 4/25/2019 |                     |
|---------------------|--------------|-------------------|-----------|---------------------|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name | Description         |
| 0.0                 | 17,806.2     | PWP1 (OWB)        | MWD       | OWSG MWD - Standard |

| Planned 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) |  |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |

# Survey Report

|                  |                         |                                     |                                         |
|------------------|-------------------------|-------------------------------------|-----------------------------------------|
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| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Well:</b>     | *MYOX 6 STATE COM #501H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | PWP1                    | <b>Database:</b>                    | EDM_Users                               |

| Planned 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) |  |
| 1,000.0                        | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,100.0                        | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,200.0                        | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,300.0                        | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,400.0                        | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,500.0                        | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,600.0                        | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,700.0                        | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,800.0                        | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,900.0                        | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,000.0                        | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| Start Build 2.00               |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,100.0                        | 2.00            | 310.00      | 2,100.0               | 1.1          | -1.3         | -1.1                    | 2.00                    | 2.00                   | 0.00                  |  |
| 2,200.0                        | 4.00            | 310.00      | 2,199.8               | 4.5          | -5.3         | -4.2                    | 2.00                    | 2.00                   | 0.00                  |  |
| Start 4200.0 hold at 2200.0 MD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,300.0                        | 4.00            | 310.00      | 2,299.6               | 9.0          | -10.7        | -8.4                    | 0.00                    | 0.00                   | 0.00                  |  |
| 2,400.0                        | 4.00            | 310.00      | 2,399.4               | 13.5         | -16.0        | -12.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 2,500.0                        | 4.00            | 310.00      | 2,499.1               | 17.9         | -21.4        | -16.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 2,600.0                        | 4.00            | 310.00      | 2,598.9               | 22.4         | -26.7        | -21.1                   | 0.00                    | 0.00                   | 0.00                  |  |
| 2,700.0                        | 4.00            | 310.00      | 2,698.6               | 26.9         | -32.1        | -25.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 2,800.0                        | 4.00            | 310.00      | 2,798.4               | 31.4         | -37.4        | -29.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 2,900.0                        | 4.00            | 310.00      | 2,898.1               | 35.9         | -42.8        | -33.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,000.0                        | 4.00            | 310.00      | 2,997.9               | 40.4         | -48.1        | -38.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,100.0                        | 4.00            | 310.00      | 3,097.6               | 44.8         | -53.4        | -42.2                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,200.0                        | 4.00            | 310.00      | 3,197.4               | 49.3         | -58.8        | -46.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,300.0                        | 4.00            | 310.00      | 3,297.2               | 53.8         | -64.1        | -50.6                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,400.0                        | 4.00            | 310.00      | 3,396.9               | 58.3         | -69.5        | -54.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,500.0                        | 4.00            | 310.00      | 3,496.7               | 62.8         | -74.8        | -59.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,600.0                        | 4.00            | 310.00      | 3,596.4               | 67.3         | -80.2        | -63.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,700.0                        | 4.00            | 310.00      | 3,696.2               | 71.7         | -85.5        | -67.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,800.0                        | 4.00            | 310.00      | 3,795.9               | 76.2         | -90.8        | -71.7                   | 0.00                    | 0.00                   | 0.00                  |  |
| 3,900.0                        | 4.00            | 310.00      | 3,895.7               | 80.7         | -96.2        | -75.9                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,000.0                        | 4.00            | 310.00      | 3,995.5               | 85.2         | -101.5       | -80.1                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,100.0                        | 4.00            | 310.00      | 4,095.2               | 89.7         | -106.9       | -84.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,200.0                        | 4.00            | 310.00      | 4,195.0               | 94.2         | -112.2       | -88.6                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,300.0                        | 4.00            | 310.00      | 4,294.7               | 98.6         | -117.6       | -92.8                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,400.0                        | 4.00            | 310.00      | 4,394.5               | 103.1        | -122.9       | -97.0                   | 0.00                    | 0.00                   | 0.00                  |  |
| 4,500.0                        | 4.00            | 310.00      | 4,494.2               | 107.6        | -128.2       | -101.2                  | 0.00                    | 0.00                   | 0.00                  |  |
| 4,600.0                        | 4.00            | 310.00      | 4,594.0               | 112.1        | -133.6       | -105.4                  | 0.00                    | 0.00                   | 0.00                  |  |
| 4,700.0                        | 4.00            | 310.00      | 4,693.7               | 116.6        | -138.9       | -109.7                  | 0.00                    | 0.00                   | 0.00                  |  |
| 4,800.0                        | 4.00            | 310.00      | 4,793.5               | 121.1        | -144.3       | -113.9                  | 0.00                    | 0.00                   | 0.00                  |  |
| 4,900.0                        | 4.00            | 310.00      | 4,893.3               | 125.5        | -149.6       | -118.1                  | 0.00                    | 0.00                   | 0.00                  |  |

# Survey Report

|                  |                         |                                     |                                         |
|------------------|-------------------------|-------------------------------------|-----------------------------------------|
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| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Well:</b>     | *MYOX 6 STATE COM #501H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | PWP1                    | <b>Database:</b>                    | EDM_Users                               |

## Planned Survey

| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,000.0                              | 4.00            | 310.00      | 4,993.0               | 130.0        | -155.0       | -122.3                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0                              | 4.00            | 310.00      | 5,092.8               | 134.5        | -160.3       | -126.5                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0                              | 4.00            | 310.00      | 5,192.5               | 139.0        | -165.7       | -130.7                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0                              | 4.00            | 310.00      | 5,292.3               | 143.5        | -171.0       | -135.0                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0                              | 4.00            | 310.00      | 5,392.0               | 148.0        | -176.3       | -139.2                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0                              | 4.00            | 310.00      | 5,491.8               | 152.5        | -181.7       | -143.4                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0                              | 4.00            | 310.00      | 5,591.6               | 156.9        | -187.0       | -147.6                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0                              | 4.00            | 310.00      | 5,691.3               | 161.4        | -192.4       | -151.8                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0                              | 4.00            | 310.00      | 5,791.1               | 165.9        | -197.7       | -156.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0                              | 4.00            | 310.00      | 5,890.8               | 170.4        | -203.1       | -160.3                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0                              | 4.00            | 310.00      | 5,990.6               | 174.9        | -208.4       | -164.5                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0                              | 4.00            | 310.00      | 6,090.3               | 179.4        | -213.7       | -168.7                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0                              | 4.00            | 310.00      | 6,190.1               | 183.8        | -219.1       | -172.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0                              | 4.00            | 310.00      | 6,289.9               | 188.3        | -224.4       | -177.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0                              | 4.00            | 310.00      | 6,389.6               | 192.8        | -229.8       | -181.4                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Drop -1.00</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,500.0                              | 3.00            | 310.00      | 6,489.4               | 196.7        | -234.5       | -185.0                  | 1.00                    | -1.00                  | 0.00                  |
| 6,600.0                              | 2.00            | 310.00      | 6,589.3               | 199.5        | -237.8       | -187.7                  | 1.00                    | -1.00                  | 0.00                  |
| 6,700.0                              | 1.00            | 310.00      | 6,689.3               | 201.2        | -239.8       | -189.3                  | 1.00                    | -1.00                  | 0.00                  |
| 6,800.0                              | 0.00            | 0.00        | 6,789.3               | 201.8        | -240.5       | -189.8                  | 1.00                    | -1.00                  | 0.00                  |
| <b>Start 531.7 hold at 6800.0 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,900.0                              | 0.00            | 0.00        | 6,889.3               | 201.8        | -240.5       | -189.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0                              | 0.00            | 0.00        | 6,989.3               | 201.8        | -240.5       | -189.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0                              | 0.00            | 0.00        | 7,089.3               | 201.8        | -240.5       | -189.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0                              | 0.00            | 0.00        | 7,189.3               | 201.8        | -240.5       | -189.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0                              | 0.00            | 0.00        | 7,289.3               | 201.8        | -240.5       | -189.8                  | 0.00                    | 0.00                   | 0.00                  |
| 7,331.7                              | 0.00            | 0.00        | 7,321.0               | 201.8        | -240.5       | -189.8                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build 10.00</b>             |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,400.0                              | 6.83            | 196.10      | 7,389.1               | 197.9        | -241.6       | -185.8                  | 10.00                   | 10.00                  | 0.00                  |
| 7,500.0                              | 16.83           | 196.10      | 7,486.9               | 178.2        | -247.3       | -165.9                  | 10.00                   | 10.00                  | 0.00                  |
| 7,600.0                              | 26.83           | 196.10      | 7,579.6               | 142.5        | -257.6       | -129.8                  | 10.00                   | 10.00                  | 0.00                  |
| 7,700.0                              | 36.83           | 196.10      | 7,664.4               | 91.9         | -272.2       | -78.5                   | 10.00                   | 10.00                  | 0.00                  |
| 7,800.0                              | 46.83           | 196.10      | 7,738.9               | 27.9         | -290.7       | -13.7                   | 10.00                   | 10.00                  | 0.00                  |
| 7,900.0                              | 56.83           | 196.10      | 7,800.6               | -47.5        | -312.4       | 62.7                    | 10.00                   | 10.00                  | 0.00                  |
| 8,000.0                              | 66.83           | 196.10      | 7,847.7               | -132.1       | -336.8       | 148.4                   | 10.00                   | 10.00                  | 0.00                  |
| 8,100.0                              | 76.83           | 196.10      | 7,878.9               | -223.3       | -363.2       | 240.7                   | 10.00                   | 10.00                  | 0.00                  |
| 8,200.0                              | 86.83           | 196.10      | 7,893.1               | -318.2       | -390.6       | 336.9                   | 10.00                   | 10.00                  | 0.00                  |
| 8,232.4                              | 90.07           | 196.10      | 7,894.0               | -349.4       | -399.6       | 368.5                   | 10.00                   | 10.00                  | 0.00                  |
| <b>Start DLS 2.00 TFO -89.38</b>     |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,300.0                              | 90.08           | 194.75      | 7,893.9               | -414.5       | -417.5       | 434.4                   | 2.00                    | 0.02                   | -2.00                 |
| 8,400.0                              | 90.11           | 192.75      | 7,893.7               | -511.7       | -441.3       | 532.6                   | 2.00                    | 0.02                   | -2.00                 |
| 8,500.0                              | 90.13           | 190.75      | 7,893.5               | -609.6       | -461.7       | 631.4                   | 2.00                    | 0.02                   | -2.00                 |

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|                  |                         |                                     |                                         |
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| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Well:</b>     | *MYOX 6 STATE COM #501H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | PWP1                    | <b>Database:</b>                    | EDM_Users                               |

| Planned 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) |
| 8,600.0                        | 90.15           | 188.75      | 7,893.3               | -708.1       | -478.6       | 730.6                   | 2.00                    | 0.02                   | -2.00                 |
| 8,700.0                        | 90.17           | 186.75      | 7,893.0               | -807.2       | -492.1       | 830.3                   | 2.00                    | 0.02                   | -2.00                 |
| 8,800.0                        | 90.19           | 184.75      | 7,892.7               | -906.7       | -502.1       | 930.1                   | 2.00                    | 0.02                   | -2.00                 |
| 8,900.0                        | 90.21           | 182.75      | 7,892.3               | -1,006.5     | -508.6       | 1,030.1                 | 2.00                    | 0.02                   | -2.00                 |
| 9,000.0                        | 90.23           | 180.75      | 7,891.9               | -1,106.4     | -511.7       | 1,130.1                 | 2.00                    | 0.02                   | -2.00                 |
| 9,046.4                        | 90.24           | 179.82      | 7,891.7               | -1,152.8     | -511.9       | 1,176.4                 | 2.00                    | 0.02                   | -2.00                 |
| Start 8760.4 hold at 9046.4 MD |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,100.0                        | 90.24           | 179.82      | 7,891.5               | -1,206.4     | -511.7       | 1,230.0                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.0                        | 90.24           | 179.82      | 7,891.1               | -1,306.4     | -511.4       | 1,329.8                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                        | 90.24           | 179.82      | 7,890.7               | -1,406.4     | -511.1       | 1,429.7                 | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                        | 90.24           | 179.82      | 7,890.3               | -1,506.4     | -510.8       | 1,529.5                 | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                        | 90.24           | 179.82      | 7,889.8               | -1,606.4     | -510.5       | 1,629.4                 | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0                        | 90.24           | 179.82      | 7,889.4               | -1,706.4     | -510.2       | 1,729.3                 | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0                        | 90.24           | 179.82      | 7,889.0               | -1,806.4     | -509.9       | 1,829.1                 | 0.00                    | 0.00                   | 0.00                  |
| 9,800.0                        | 90.24           | 179.82      | 7,888.6               | -1,906.4     | -509.6       | 1,929.0                 | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                        | 90.24           | 179.82      | 7,888.2               | -2,006.4     | -509.3       | 2,028.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0                       | 90.24           | 179.82      | 7,887.7               | -2,106.4     | -508.9       | 2,128.7                 | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                       | 90.24           | 179.82      | 7,887.3               | -2,206.4     | -508.6       | 2,228.6                 | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0                       | 90.24           | 179.82      | 7,886.9               | -2,306.4     | -508.3       | 2,328.5                 | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0                       | 90.24           | 179.82      | 7,886.5               | -2,406.4     | -508.0       | 2,428.3                 | 0.00                    | 0.00                   | 0.00                  |
| 10,400.0                       | 90.24           | 179.82      | 7,886.1               | -2,506.4     | -507.7       | 2,528.2                 | 0.00                    | 0.00                   | 0.00                  |
| 10,500.0                       | 90.24           | 179.82      | 7,885.6               | -2,606.4     | -507.4       | 2,628.1                 | 0.00                    | 0.00                   | 0.00                  |
| 10,600.0                       | 90.24           | 179.82      | 7,885.2               | -2,706.4     | -507.1       | 2,727.9                 | 0.00                    | 0.00                   | 0.00                  |
| 10,700.0                       | 90.24           | 179.82      | 7,884.8               | -2,806.4     | -506.8       | 2,827.8                 | 0.00                    | 0.00                   | 0.00                  |
| 10,800.0                       | 90.24           | 179.82      | 7,884.4               | -2,906.4     | -506.5       | 2,927.6                 | 0.00                    | 0.00                   | 0.00                  |
| 10,900.0                       | 90.24           | 179.82      | 7,884.0               | -3,006.4     | -506.1       | 3,027.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,000.0                       | 90.24           | 179.82      | 7,883.5               | -3,106.4     | -505.8       | 3,127.4                 | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0                       | 90.24           | 179.82      | 7,883.1               | -3,206.4     | -505.5       | 3,227.2                 | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0                       | 90.24           | 179.82      | 7,882.7               | -3,306.4     | -505.2       | 3,327.1                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0                       | 90.24           | 179.82      | 7,882.3               | -3,406.4     | -504.9       | 3,427.0                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                       | 90.24           | 179.82      | 7,881.9               | -3,506.4     | -504.6       | 3,526.8                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                       | 90.24           | 179.82      | 7,881.4               | -3,606.4     | -504.3       | 3,626.7                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                       | 90.24           | 179.82      | 7,881.0               | -3,706.4     | -504.0       | 3,726.6                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                       | 90.24           | 179.82      | 7,880.6               | -3,806.4     | -503.7       | 3,826.4                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                       | 90.24           | 179.82      | 7,880.2               | -3,906.4     | -503.4       | 3,926.3                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                       | 90.24           | 179.82      | 7,879.8               | -4,006.4     | -503.0       | 4,026.2                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                       | 90.24           | 179.82      | 7,879.4               | -4,106.4     | -502.7       | 4,126.0                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                       | 90.24           | 179.82      | 7,878.9               | -4,206.4     | -502.4       | 4,225.9                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                       | 90.24           | 179.82      | 7,878.5               | -4,306.4     | -502.1       | 4,325.7                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                       | 90.24           | 179.82      | 7,878.1               | -4,406.4     | -501.8       | 4,425.6                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                       | 90.24           | 179.82      | 7,877.7               | -4,506.4     | -501.5       | 4,525.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                       | 90.24           | 179.82      | 7,877.3               | -4,606.4     | -501.2       | 4,625.3                 | 0.00                    | 0.00                   | 0.00                  |

# Survey Report

|                  |                         |                                     |                                         |
|------------------|-------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well *MYOX 6 STATE COM #501H            |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Well:</b>     | *MYOX 6 STATE COM #501H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | PWP1                    | <b>Database:</b>                    | EDM_Users                               |

| Planned 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) |  |
| 12,600.0              | 90.24           | 179.82      | 7,876.8               | -4,706.4     | -500.9       | 4,725.2                 | 0.00                    | 0.00                   | -0.00                 |  |
| 12,700.0              | 90.24           | 179.82      | 7,876.4               | -4,806.4     | -500.6       | 4,825.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.0              | 90.24           | 179.82      | 7,876.0               | -4,906.4     | -500.2       | 4,924.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,900.0              | 90.24           | 179.82      | 7,875.6               | -5,006.4     | -499.9       | 5,024.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,000.0              | 90.24           | 179.82      | 7,875.2               | -5,106.4     | -499.6       | 5,124.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,100.0              | 90.24           | 179.82      | 7,874.7               | -5,206.3     | -499.3       | 5,224.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,200.0              | 90.24           | 179.82      | 7,874.3               | -5,306.3     | -499.0       | 5,324.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,300.0              | 90.24           | 179.82      | 7,873.9               | -5,406.3     | -498.7       | 5,424.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,400.0              | 90.24           | 179.82      | 7,873.5               | -5,506.3     | -498.4       | 5,524.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,500.0              | 90.24           | 179.82      | 7,873.1               | -5,606.3     | -498.1       | 5,624.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,600.0              | 90.24           | 179.82      | 7,872.6               | -5,706.3     | -497.8       | 5,723.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,700.0              | 90.24           | 179.82      | 7,872.2               | -5,806.3     | -497.5       | 5,823.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,800.0              | 90.24           | 179.82      | 7,871.8               | -5,906.3     | -497.1       | 5,923.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.0              | 90.24           | 179.82      | 7,871.4               | -6,006.3     | -496.8       | 6,023.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.0              | 90.24           | 179.82      | 7,871.0               | -6,106.3     | -496.5       | 6,123.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.0              | 90.24           | 179.82      | 7,870.5               | -6,206.3     | -496.2       | 6,223.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.0              | 90.24           | 179.82      | 7,870.1               | -6,306.3     | -495.9       | 6,323.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.0              | 90.24           | 179.82      | 7,869.7               | -6,406.3     | -495.6       | 6,422.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.0              | 90.24           | 179.82      | 7,869.3               | -6,506.3     | -495.3       | 6,522.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.0              | 90.24           | 179.82      | 7,868.9               | -6,606.3     | -495.0       | 6,622.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.0              | 90.24           | 179.82      | 7,868.4               | -6,706.3     | -494.7       | 6,722.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.0              | 90.24           | 179.82      | 7,868.0               | -6,806.3     | -494.3       | 6,822.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,800.0              | 90.24           | 179.82      | 7,867.6               | -6,906.3     | -494.0       | 6,922.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,900.0              | 90.24           | 179.82      | 7,867.2               | -7,006.3     | -493.7       | 7,022.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,000.0              | 90.24           | 179.82      | 7,866.8               | -7,106.3     | -493.4       | 7,121.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.0              | 90.24           | 179.82      | 7,866.4               | -7,206.3     | -493.1       | 7,221.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.0              | 90.24           | 179.82      | 7,865.9               | -7,306.3     | -492.8       | 7,321.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,300.0              | 90.24           | 179.82      | 7,865.5               | -7,406.3     | -492.5       | 7,421.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,400.0              | 90.24           | 179.82      | 7,865.1               | -7,506.3     | -492.2       | 7,521.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,500.0              | 90.24           | 179.82      | 7,864.7               | -7,606.3     | -491.9       | 7,621.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,600.0              | 90.24           | 179.82      | 7,864.3               | -7,706.3     | -491.6       | 7,721.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,700.0              | 90.24           | 179.82      | 7,863.8               | -7,806.3     | -491.2       | 7,821.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,800.0              | 90.24           | 179.82      | 7,863.4               | -7,906.3     | -490.9       | 7,920.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,900.0              | 90.24           | 179.82      | 7,863.0               | -8,006.3     | -490.6       | 8,020.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,000.0              | 90.24           | 179.82      | 7,862.6               | -8,106.3     | -490.3       | 8,120.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,100.0              | 90.24           | 179.82      | 7,862.2               | -8,206.3     | -490.0       | 8,220.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,200.0              | 90.24           | 179.82      | 7,861.7               | -8,306.3     | -489.7       | 8,320.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,300.0              | 90.24           | 179.82      | 7,861.3               | -8,406.3     | -489.4       | 8,420.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,400.0              | 90.24           | 179.82      | 7,860.9               | -8,506.3     | -489.1       | 8,520.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,500.0              | 90.24           | 179.82      | 7,860.5               | -8,606.3     | -488.8       | 8,619.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,600.0              | 90.24           | 179.82      | 7,860.1               | -8,706.3     | -488.4       | 8,719.8                 | 0.00                    | 0.00                   | 0.00                  |  |

# Survey Report

|                  |                         |                                     |                                         |
|------------------|-------------------------|-------------------------------------|-----------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well *MYOX 6 STATE COM #501H            |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB=3080'+24' @ 3104.0usft (Ensign 155) |
| <b>Well:</b>     | *MYOX 6 STATE COM #501H | <b>North Reference:</b>             | Grid                                    |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                       |
| <b>Design:</b>   | PWP1                    | <b>Database:</b>                    | EDM_Users                               |

| Planned 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) |  |
| 16,700.0              | 90.24           | 179.82      | 7,859.6               | -8,806.3     | -488.1       | 8,819.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,800.0              | 90.24           | 179.82      | 7,859.2               | -8,906.3     | -487.8       | 8,919.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 16,900.0              | 90.24           | 179.82      | 7,858.8               | -9,006.3     | -487.5       | 9,019.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,000.0              | 90.24           | 179.82      | 7,858.4               | -9,106.3     | -487.2       | 9,119.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,100.0              | 90.24           | 179.82      | 7,858.0               | -9,206.3     | -486.9       | 9,219.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,200.0              | 90.24           | 179.82      | 7,857.5               | -9,306.3     | -486.6       | 9,319.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,300.0              | 90.24           | 179.82      | 7,857.1               | -9,406.3     | -486.3       | 9,418.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,400.0              | 90.24           | 179.82      | 7,856.7               | -9,506.3     | -486.0       | 9,518.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,500.0              | 90.24           | 179.82      | 7,856.3               | -9,606.3     | -485.7       | 9,618.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,600.0              | 90.24           | 179.82      | 7,855.9               | -9,706.3     | -485.3       | 9,718.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,700.0              | 90.24           | 179.82      | 7,855.4               | -9,806.3     | -485.0       | 9,818.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,800.0              | 90.24           | 179.82      | 7,855.0               | -9,906.3     | -484.7       | 9,918.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 17,806.7              | 90.24           | 179.82      | 7,855.0               | -9,913.0     | -484.7       | 9,924.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| TD at 17806.7         |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Targets                                                                                |               |              |            |              |              |                 |                |                 |                 |  |
|-----------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|--|
| Target Name                                                                                   | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude       |  |
| - hit/miss target                                                                             |               |              |            |              |              |                 |                |                 |                 |  |
| - Shape                                                                                       |               |              |            |              |              |                 |                |                 |                 |  |
| FTP (MYOX 6 STATE                                                                             | 0.00          | 0.00         | 0.0        | 567.8        | -516.7       | 392,349.70      | 561,836.60     | 32° 4' 42.700 N | 104° 8' 1.273 W |  |
| - plan misses target center by 767.7usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E)                |               |              |            |              |              |                 |                |                 |                 |  |
| - Point                                                                                       |               |              |            |              |              |                 |                |                 |                 |  |
| BHL (MYOX 6 STATE                                                                             | 0.00          | 0.00         | 0.0        | -9,913.0     | -484.7       | 381,868.90      | 561,868.60     | 32° 2' 58.975 N | 104° 8' 1.126 W |  |
| - plan misses target center by 7855.0usft at 17806.7usft MD (7855.0 TVD, -9913.0 N, -484.7 E) |               |              |            |              |              |                 |                |                 |                 |  |
| - Point                                                                                       |               |              |            |              |              |                 |                |                 |                 |  |
| LTP (MYOX 6 STATE                                                                             | 0.00          | 0.00         | 0.0        | -9,863.0     | -484.8       | 381,918.90      | 561,868.50     | 32° 2' 59.470 N | 104° 8' 1.126 W |  |
| - plan misses target center by 7855.1usft at 17789.7usft MD (7855.1 TVD, -9895.9 N, -484.8 E) |               |              |            |              |              |                 |                |                 |                 |  |
| - Point                                                                                       |               |              |            |              |              |                 |                |                 |                 |  |

| Plan Annotations      |                       |                   |              |                                |  |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                        |  |
| 2000                  | 2000                  | 0                 | 0            | Start Build 2.00               |  |
| 2200                  | 2200                  | 4                 | -5           | Start 4200.0 hold at 2200.0 MD |  |
| 6400                  | 6390                  | 193               | -230         | Start Drop -1.00               |  |
| 6800                  | 6789                  | 202               | -240         | Start 531.7 hold at 6800.0 MD  |  |
| 7332                  | 7321                  | 202               | -240         | Start Build 10.00              |  |
| 8232                  | 7894                  | -349              | -400         | Start DLS 2.00 TFO -89.38      |  |
| 9046                  | 7892                  | -1153             | -512         | Start 8760.4 hold at 9046.4 MD |  |
| 17,807                | 7855                  | -9913             | -485         | TD at 17806.7                  |  |

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