

District I  
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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JAN 22 2020

EMNRD-OCD ARTESIA

Form C-10

Revised August 1, 2017

Submit one copy to appropriate District Office

☒ AMENDED REPORT  
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                  |                                                 |
|-----------------------------------------|--------------------------------------------------|-------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-45948 | <sup>2</sup> Pool Code<br>98220                  | <sup>3</sup> Pool Name<br>Purple Sage; Wolfcamp |
| <sup>4</sup> Property Code<br>308744    | <sup>5</sup> Property Name<br>MYOX 31 STATE COM  | <sup>6</sup> Well Number<br>601H                |
| <sup>7</sup> OGRID NO.<br>229137        | <sup>8</sup> Operator Name<br>COG OPERATING, LLC | <sup>9</sup> Elevation<br>3013'                 |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet From the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 31      | 25S      | 28E   |         | 230           | NORTH            | 1190          | EAST           | EDDY   |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 6       | 26S      | 28E   |         | 201           | SOUTH            | 336           | EAST           | EDDY   |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>640 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>GEODETIC DATA</b><br/>NAD 83 GRID - NM EAST</p> <p><b>SURFACE LOCATION (SL)</b><br/>N: 397508.6 - E: 606883.3<br/>LAT: 32.0925538° N<br/>LONG: 104.1216742° W<br/>LAT: 32.05'33.5537" N<br/>LONG: 104.07'18.0272" W</p> <p><b>KICK OFF POINT (KOP)</b><br/>64'-FNL/758'-FEL (SEC.31)<br/>N: 397665.8 - E: 607316.8<br/>LAT: 32.0930836° N<br/>LONG: 104.1202733° W<br/>LAT: 32.05'35.1010" N<br/>LONG: 104.07'12.9841" W<br/>MD=8,580.00/TVD=8560.75</p> <p><b>FIRST TAKE POINT (FTP)</b><br/>435'-FNL/565'-FEL (SEC.31)<br/>N: 397391.2 - E: 607505.9<br/>LAT: 32.0920529° N<br/>LONG: 104.1196651° W<br/>LAT: 32.05'32.3798" N<br/>LONG: 104.07'10.7922" W<br/>MD=9,299.00/TVD=9095.40</p> <p><b>CORNER DATA</b><br/>NAD 83 GRID - NM EAST</p> <p>A: 2 3/4" IRON PIPE<br/>N: 387187.1 - E: 602707.2</p> <p>B: FOUND BRASS CAP "1940"<br/>N: 389846.0 - E: 602699.0</p> <p>C: FOUND BRASS CAP "1940"<br/>N: 392505.8 - E: 602690.5</p> <p>D: FOUND BRASS CAP "1940"<br/>N: 395164.6 - E: 602682.1</p> <p>E: FOUND BRASS CAP "1940"<br/>N: 397822.7 - E: 602672.6</p> <p>F: FOUND BRASS CAP "1940"<br/>N: 397768.3 - E: 605379.3</p> <p>G: FOUND BRASS CAP "1940"<br/>N: 397715.1 - E: 608074.9</p> <p>H: FOUND BRASS CAP "1940"<br/>N: 395116.5 - E: 608050.9</p> <p>I: FOUND BRASS CAP "1940"<br/>N: 392514.2 - E: 608024.8</p> <p>J: CALCULATED CORNER<br/>N: 387235.7 - E: 608011.7</p> <p>K: FOUND BRASS CAP "1940"<br/>N: 392516.4 - E: 605361.5</p> <p><b>CALCULATED POINTS</b></p> <p>1 N: 397741.7 - E: 606727.1<br/>2 N: 392515.3 - E: 606693.2<br/>3 N: 387223.6 - E: 606692.1<br/>4 N: 387211.5 - E: 605372.4</p> | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Amanda Avery</i> 1/21/2020<br/>Signature Date</p> <p>Amanda Avery<br/>Printed Name</p> <p>aavery@concho.com<br/>E-mail Address</p> |
|  | <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>03-12-2019<br/>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><b>19680</b><br/>Certificate Number</p> <p>1-09-2020 Rev: AsDrill</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

RRC-Job No.: LS9030364AD

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JAN 22 2020

EMNRD-OCD ARTESIA

Intent ☐ As Drilled ☒API #  
30-015-45948

Operator Name:

COG Operating LLC

Property Name:

Myox 31 State Com

Well Number

601H

Kick Off Point (KOP)

|                        |               |                 |              |     |                          |                   |             |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>A                | Section<br>31 | Township<br>25S | Range<br>28E | Lot | Feet<br>64               | From N/S<br>North | Feet<br>758 | From E/W<br>East | County<br>Eddy |
| Latitude<br>32.0930836 |               |                 |              |     | Longitude<br>104.1202733 |                   |             | NAD<br>83        |                |

First Take Point (FTP)

|                        |               |                 |              |     |                          |                   |             |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>A                | Section<br>31 | Township<br>25S | Range<br>28E | Lot | Feet<br>435              | From N/S<br>North | Feet<br>565 | From E/W<br>East | County<br>Eddy |
| Latitude<br>32.0920529 |               |                 |              |     | Longitude<br>104.1196651 |                   |             | NAD<br>83        |                |

Last Take Point (LTP)

|                        |              |                 |              |     |                          |                   |             |                  |                |
|------------------------|--------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>P                | Section<br>6 | Township<br>26S | Range<br>28E | Lot | Feet<br>426              | From N/S<br>South | Feet<br>328 | From E/W<br>East | County<br>Eddy |
| Latitude<br>32.0655732 |              |                 |              |     | Longitude<br>104.1191498 |                   |             | NAD              |                |

Is this well the defining well for the Horizontal Spacing Unit?

☒ Yes

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:

Property Name:

Well Number

KZ 06/29/2018

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EMNRD-OCD ARTESIA

# **NORTHERN DELAWARE BASIN**

EDDY COUNTY, NM

ATLAS

MYOX 31 STATE COM #601H

OWB

Design: AWP

A Certified Directional Survey  
requested as required by NMOCD  
Rule 19.15.16.14 NMAC

## **Standard Survey Report**

07 October, 2019

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <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>From:</b>                 | Map      | <b>Easting:</b>          | 573,599.60 usft  |
| <b>Position Uncertainty:</b> | 0.0 usft | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |          | <b>Latitude:</b>         | 32° 1' 15.933 N  |
|                              |          | <b>Longitude:</b>        | 104° 5' 45.086 W |
|                              |          | <b>Grid Convergence:</b> | 0.13 °           |

|                      |          |                                    |           |                 |              |                  |
|----------------------|----------|------------------------------------|-----------|-----------------|--------------|------------------|
| Well                 |          | MYOX 31 STATE COM #601H, DB-ACTIVE |           |                 |              |                  |
| Well Position        | +N/-S    | 0.0 usft                           | Northing: | 397,451.10 usft | Latitude:    | 32° 5' 33.113 N  |
|                      | +E/-W    | 0.0 usft                           | Easting:  | 565,699.20 usft | Longitude:   | 104° 7' 16.261 W |
| Position Uncertainty | 3.0 usft | Wellhead Elevation:                | usft      | Ground Level:   | 3,013.0 usft |                  |

|           |            |             |                    |                  |                        |
|-----------|------------|-------------|--------------------|------------------|------------------------|
| Wellbore  |            | OWB         |                    |                  |                        |
|           |            |             |                    |                  |                        |
| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2015   | 9/12/2019   | 6.96               | 59.83            | 47,575.28502881        |

|                   |  |                  |               |        |           |
|-------------------|--|------------------|---------------|--------|-----------|
| Design            |  | AWP              |               |        |           |
| Audit Notes:      |  |                  |               |        |           |
| Version:          |  | 1.0              | Phase:        |        | ACTUAL    |
|                   |  |                  | Tie On Depth: |        | 0.0       |
| Vertical Section: |  | Depth From (TVD) |               | +N/-S  | +E/-W     |
|                   |  | (usft)           |               | (usft) | Direction |
|                   |  |                  |               | (usft) | (°)       |
|                   |  | 0.0              | 0.0           | 0.0    | 175.47    |

|                       |             |                          |                     |                                    |
|-----------------------|-------------|--------------------------|---------------------|------------------------------------|
| <b>Survey Program</b> | <b>Date</b> | 10/7/2019                |                     |                                    |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Description</b>                 |
| (usft)                | (usft)      |                          |                     |                                    |
| 100.0                 | 8,308.0     | GYRO (OWB)               | Standard Keeper 104 | Standard Wireline Keeper ver 1.0.4 |
| 8,308.0               | 19,209.0    | MWD-CURVE/LATERAL (OWB)  | MWD+IFR1+FDIR       | OWSG MWD + IFR1 + FDIR Correction  |

|                 |                    |                |                 |               |               |                 |                    |                    |                    |
|-----------------|--------------------|----------------|-----------------|---------------|---------------|-----------------|--------------------|--------------------|--------------------|
| <b>Survey</b>   |                    |                |                 |               |               |                 |                    |                    |                    |
| <b>Measured</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b>  | <b>+E/-W</b>  | <b>Vertical</b> | <b>Dogleg</b>      | <b>Build</b>       | <b>Turn</b>        |
| <b>Depth</b>    | <b>(°)</b>         | <b>(°)</b>     | <b>Depth</b>    | <b>(usft)</b> | <b>(usft)</b> | <b>Section</b>  | <b>Rate</b>        | <b>Rate</b>        | <b>Rate</b>        |
| <b>(usft)</b>   |                    |                | <b>(usft)</b>   |               |               | <b>(usft)</b>   | <b>(°/100usft)</b> | <b>(°/100usft)</b> | <b>(°/100usft)</b> |
| 0.0             | 0.00               | 0.00           | 0.0             | 0.0           | 0.0           | 0.0             | 0.00               | 0.00               | 0.00               |
| 100.0           | 0.13               | 150.40         | 100.0           | -0.1          | 0.1           | 0.1             | 0.13               | 0.13               | 0.00               |
| 125.0           | 0.13               | 162.84         | 125.0           | -0.2          | 0.1           | 0.2             | 0.11               | 0.00               | 49.76              |
| 150.0           | 0.02               | 118.68         | 150.0           | -0.2          | 0.1           | 0.2             | 0.47               | -0.44              | -176.64            |
| 175.0           | 0.16               | 37.88          | 175.0           | -0.2          | 0.1           | 0.2             | 0.63               | 0.56               | -323.20            |
| 200.0           | 0.31               | 20.73          | 200.0           | -0.1          | 0.2           | 0.1             | 0.66               | 0.60               | -68.60             |
| 225.0           | 0.51               | 18.31          | 225.0           | 0.1           | 0.2           | -0.1            | 0.80               | 0.80               | -9.68              |
| 250.0           | 0.80               | 22.17          | 250.0           | 0.4           | 0.3           | -0.3            | 1.17               | 1.16               | 15.44              |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM#601H                   |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 275.0                 | 0.95            | 22.15       | 275.0                 | 0.7          | 0.5          | -0.7                    | 0.60                    | 0.60                   | -0.08                 |  |
| 300.0                 | 1.02            | 22.55       | 300.0                 | 1.1          | 0.6          | -1.1                    | 0.28                    | 0.28                   | 1.60                  |  |
| 325.0                 | 1.05            | 25.23       | 325.0                 | 1.5          | 0.8          | -1.5                    | 0.23                    | 0.12                   | 10.72                 |  |
| 350.0                 | 1.09            | 24.65       | 350.0                 | 2.0          | 1.0          | -1.9                    | 0.17                    | 0.16                   | -2.32                 |  |
| 375.0                 | 1.21            | 25.69       | 375.0                 | 2.4          | 1.2          | -2.3                    | 0.49                    | 0.48                   | 4.16                  |  |
| 400.0                 | 1.18            | 22.85       | 400.0                 | 2.9          | 1.4          | -2.8                    | 0.27                    | -0.12                  | -11.36                |  |
| 425.0                 | 1.08            | 31.56       | 425.0                 | 3.3          | 1.7          | -3.2                    | 0.79                    | -0.40                  | 34.84                 |  |
| 450.0                 | 1.14            | 45.01       | 450.0                 | 3.7          | 2.0          | -3.5                    | 1.07                    | 0.24                   | 53.80                 |  |
| 475.0                 | 1.20            | 59.81       | 475.0                 | 4.0          | 2.4          | -3.8                    | 1.23                    | 0.24                   | 59.20                 |  |
| 500.0                 | 1.32            | 69.76       | 500.0                 | 4.2          | 2.9          | -4.0                    | 1.00                    | 0.48                   | 39.80                 |  |
| 525.0                 | 1.41            | 73.02       | 524.9                 | 4.4          | 3.4          | -4.1                    | 0.48                    | 0.36                   | 13.04                 |  |
| 550.0                 | 1.30            | 72.99       | 549.9                 | 4.6          | 4.0          | -4.3                    | 0.44                    | -0.44                  | -0.12                 |  |
| 575.0                 | 1.26            | 77.18       | 574.9                 | 4.7          | 4.5          | -4.4                    | 0.41                    | -0.16                  | 16.76                 |  |
| 600.0                 | 1.30            | 76.56       | 599.9                 | 4.9          | 5.1          | -4.5                    | 0.17                    | 0.16                   | -2.48                 |  |
| 625.0                 | 1.32            | 78.39       | 624.9                 | 5.0          | 5.6          | -4.5                    | 0.19                    | 0.08                   | 7.32                  |  |
| 650.0                 | 1.30            | 80.80       | 649.9                 | 5.1          | 6.2          | -4.6                    | 0.23                    | -0.08                  | 9.64                  |  |
| 675.0                 | 1.33            | 79.71       | 674.9                 | 5.2          | 6.8          | -4.6                    | 0.16                    | 0.12                   | -4.36                 |  |
| 700.0                 | 1.34            | 77.23       | 699.9                 | 5.3          | 7.3          | -4.7                    | 0.23                    | 0.04                   | -9.92                 |  |
| 725.0                 | 1.32            | 77.73       | 724.9                 | 5.4          | 7.9          | -4.8                    | 0.09                    | -0.08                  | 2.00                  |  |
| 750.0                 | 1.27            | 82.81       | 749.9                 | 5.5          | 8.4          | -4.9                    | 0.50                    | -0.20                  | 20.32                 |  |
| 775.0                 | 1.20            | 83.95       | 774.9                 | 5.6          | 9.0          | -4.9                    | 0.30                    | -0.28                  | 4.56                  |  |
| 800.0                 | 1.29            | 83.87       | 799.9                 | 5.7          | 9.5          | -4.9                    | 0.36                    | 0.36                   | -0.32                 |  |
| 825.0                 | 1.22            | 89.03       | 824.9                 | 5.7          | 10.1         | -4.9                    | 0.53                    | -0.28                  | 20.64                 |  |
| 850.0                 | 1.18            | 98.53       | 849.9                 | 5.7          | 10.6         | -4.8                    | 0.81                    | -0.16                  | 38.00                 |  |
| 875.0                 | 1.17            | 103.66      | 874.9                 | 5.6          | 11.1         | -4.7                    | 0.42                    | -0.04                  | 20.52                 |  |
| 900.0                 | 1.16            | 103.45      | 899.9                 | 5.4          | 11.6         | -4.5                    | 0.04                    | -0.04                  | -0.84                 |  |
| 925.0                 | 1.21            | 101.08      | 924.8                 | 5.3          | 12.1         | -4.4                    | 0.28                    | 0.20                   | -9.48                 |  |
| 950.0                 | 1.30            | 100.85      | 949.8                 | 5.2          | 12.6         | -4.2                    | 0.36                    | 0.36                   | -0.92                 |  |
| 975.0                 | 1.23            | 101.69      | 974.8                 | 5.1          | 13.2         | -4.1                    | 0.29                    | -0.28                  | 3.36                  |  |
| 1,000.0               | 1.19            | 103.72      | 999.8                 | 5.0          | 13.7         | -3.9                    | 0.23                    | -0.16                  | 8.12                  |  |
| 1,025.0               | 1.72            | 102.63      | 1,024.8               | 4.9          | 14.3         | -3.7                    | 2.12                    | 2.12                   | -4.36                 |  |
| 1,050.0               | 2.02            | 103.36      | 1,049.8               | 4.7          | 15.1         | -3.5                    | 1.20                    | 1.20                   | 2.92                  |  |
| 1,075.0               | 2.21            | 103.28      | 1,074.8               | 4.5          | 16.0         | -3.2                    | 0.76                    | 0.76                   | -0.32                 |  |
| 1,100.0               | 2.19            | 101.79      | 1,099.8               | 4.3          | 16.9         | -2.9                    | 0.24                    | -0.08                  | -5.96                 |  |
| 1,125.0               | 2.11            | 102.47      | 1,124.8               | 4.1          | 17.9         | -2.6                    | 0.34                    | -0.32                  | 2.72                  |  |
| 1,150.0               | 2.10            | 100.55      | 1,149.7               | 3.9          | 18.8         | -2.4                    | 0.28                    | -0.04                  | -7.68                 |  |
| 1,175.0               | 1.92            | 103.93      | 1,174.7               | 3.7          | 19.6         | -2.1                    | 0.86                    | -0.72                  | 13.52                 |  |
| 1,200.0               | 1.77            | 106.09      | 1,199.7               | 3.5          | 20.4         | -1.9                    | 0.66                    | -0.60                  | 8.64                  |  |
| 1,225.0               | 1.72            | 105.91      | 1,224.7               | 3.3          | 21.1         | -1.6                    | 0.20                    | -0.20                  | -0.72                 |  |
| 1,250.0               | 1.70            | 107.54      | 1,249.7               | 3.1          | 21.8         | -1.3                    | 0.21                    | -0.08                  | 6.52                  |  |
| 1,275.0               | 1.49            | 109.56      | 1,274.7               | 2.8          | 22.5         | -1.1                    | 0.87                    | -0.84                  | 8.08                  |  |
| 1,300.0               | 1.42            | 108.90      | 1,299.7               | 2.6          | 23.1         | -0.8                    | 0.29                    | -0.28                  | -2.64                 |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM#601H                   |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 1,325.0               | 1.31            | 108.66      | 1,324.7               | 2.4          | 23.7         | -0.6                    | 0.44                    | -0.44                  | -0.96                 |  |
| 1,350.0               | 1.26            | 106.71      | 1,349.7               | 2.3          | 24.2         | -0.3                    | 0.27                    | -0.20                  | -7.80                 |  |
| 1,375.0               | 1.15            | 112.76      | 1,374.6               | 2.1          | 24.7         | -0.1                    | 0.67                    | -0.44                  | 24.20                 |  |
| 1,400.0               | 1.09            | 112.20      | 1,399.6               | 1.9          | 25.1         | 0.1                     | 0.24                    | -0.24                  | -2.24                 |  |
| 1,425.0               | 1.12            | 110.55      | 1,424.6               | 1.7          | 25.6         | 0.3                     | 0.17                    | 0.12                   | -6.60                 |  |
| 1,450.0               | 1.12            | 116.49      | 1,449.6               | 1.5          | 26.0         | 0.5                     | 0.46                    | 0.00                   | 23.76                 |  |
| 1,475.0               | 1.16            | 113.83      | 1,474.6               | 1.3          | 26.5         | 0.8                     | 0.27                    | 0.16                   | -10.64                |  |
| 1,500.0               | 1.17            | 113.65      | 1,499.6               | 1.1          | 26.9         | 1.0                     | 0.04                    | 0.04                   | -0.72                 |  |
| 1,525.0               | 1.19            | 114.26      | 1,524.6               | 0.9          | 27.4         | 1.3                     | 0.09                    | 0.08                   | 2.44                  |  |
| 1,550.0               | 1.52            | 96.45       | 1,549.6               | 0.8          | 28.0         | 1.4                     | 2.13                    | 1.32                   | -71.24                |  |
| 1,575.0               | 2.07            | 90.51       | 1,574.6               | 0.7          | 28.8         | 1.6                     | 2.32                    | 2.20                   | -23.76                |  |
| 1,600.0               | 2.72            | 87.84       | 1,599.6               | 0.7          | 29.8         | 1.6                     | 2.64                    | 2.60                   | -10.68                |  |
| 1,625.0               | 3.35            | 88.14       | 1,624.5               | 0.8          | 31.1         | 1.7                     | 2.52                    | 2.52                   | 1.20                  |  |
| 1,650.0               | 3.71            | 87.22       | 1,649.5               | 0.9          | 32.7         | 1.7                     | 1.46                    | 1.44                   | -3.68                 |  |
| 1,675.0               | 4.14            | 87.28       | 1,674.4               | 0.9          | 34.4         | 1.8                     | 1.72                    | 1.72                   | 0.24                  |  |
| 1,700.0               | 4.36            | 87.84       | 1,699.4               | 1.0          | 36.2         | 1.9                     | 0.90                    | 0.88                   | 2.24                  |  |
| 1,725.0               | 4.54            | 87.62       | 1,724.3               | 1.1          | 38.2         | 1.9                     | 0.72                    | 0.72                   | -0.88                 |  |
| 1,750.0               | 4.58            | 85.86       | 1,749.2               | 1.2          | 40.2         | 2.0                     | 0.58                    | 0.16                   | -7.04                 |  |
| 1,775.0               | 4.56            | 86.01       | 1,774.1               | 1.3          | 42.1         | 2.0                     | 0.09                    | -0.08                  | 0.60                  |  |
| 1,800.0               | 4.63            | 84.30       | 1,799.1               | 1.5          | 44.1         | 2.0                     | 0.62                    | 0.28                   | -6.84                 |  |
| 1,825.0               | 4.68            | 82.23       | 1,824.0               | 1.7          | 46.1         | 1.9                     | 0.70                    | 0.20                   | -8.28                 |  |
| 1,850.0               | 4.70            | 80.60       | 1,848.9               | 2.1          | 48.2         | 1.8                     | 0.54                    | 0.08                   | -6.52                 |  |
| 1,875.0               | 4.74            | 78.69       | 1,873.8               | 2.4          | 50.2         | 1.5                     | 0.65                    | 0.16                   | -7.64                 |  |
| 1,900.0               | 4.80            | 77.38       | 1,898.7               | 2.9          | 52.2         | 1.3                     | 0.50                    | 0.24                   | -5.24                 |  |
| 1,925.0               | 4.73            | 76.87       | 1,923.6               | 3.3          | 54.3         | 1.0                     | 0.33                    | -0.28                  | -2.04                 |  |
| 1,950.0               | 4.87            | 77.14       | 1,948.5               | 3.8          | 56.3         | 0.7                     | 0.57                    | 0.56                   | 1.08                  |  |
| 1,975.0               | 4.86            | 76.84       | 1,973.5               | 4.3          | 58.4         | 0.4                     | 0.11                    | -0.04                  | -1.20                 |  |
| 2,000.0               | 4.79            | 76.71       | 1,998.4               | 4.7          | 60.4         | 0.0                     | 0.28                    | -0.28                  | -0.52                 |  |
| 2,025.0               | 4.79            | 76.40       | 2,023.3               | 5.2          | 62.4         | -0.3                    | 0.10                    | 0.00                   | -1.24                 |  |
| 2,050.0               | 4.83            | 75.11       | 2,048.2               | 5.7          | 64.5         | -0.6                    | 0.46                    | 0.16                   | -5.16                 |  |
| 2,075.0               | 4.56            | 70.19       | 2,073.1               | 6.4          | 66.4         | -1.1                    | 1.94                    | -1.08                  | -19.68                |  |
| 2,100.0               | 4.59            | 68.22       | 2,098.0               | 7.1          | 68.3         | -1.6                    | 0.64                    | 0.12                   | -7.88                 |  |
| 2,125.0               | 4.24            | 63.58       | 2,123.0               | 7.8          | 70.0         | -2.3                    | 2.00                    | -1.40                  | -18.56                |  |
| 2,150.0               | 3.56            | 51.40       | 2,147.9               | 8.7          | 71.5         | -3.1                    | 4.27                    | -2.72                  | -48.72                |  |
| 2,175.0               | 3.38            | 44.05       | 2,172.8               | 9.8          | 72.6         | -4.0                    | 1.92                    | -0.72                  | -29.40                |  |
| 2,200.0               | 3.10            | 39.66       | 2,197.8               | 10.8         | 73.5         | -5.0                    | 1.50                    | -1.12                  | -17.56                |  |
| 2,225.0               | 2.58            | 27.11       | 2,222.8               | 11.8         | 74.2         | -5.9                    | 3.23                    | -2.08                  | -50.20                |  |
| 2,250.0               | 1.79            | 357.36      | 2,247.8               | 12.7         | 74.5         | -6.8                    | 5.43                    | -3.16                  | -119.00               |  |
| 2,275.0               | 1.70            | 327.63      | 2,272.7               | 13.4         | 74.2         | -7.5                    | 3.60                    | -0.36                  | -118.92               |  |
| 2,300.0               | 1.80            | 314.33      | 2,297.7               | 14.0         | 73.8         | -8.1                    | 1.67                    | 0.40                   | -53.20                |  |
| 2,325.0               | 1.98            | 308.85      | 2,322.7               | 14.6         | 73.1         | -8.7                    | 1.02                    | 0.72                   | -21.92                |  |
| 2,350.0               | 2.02            | 309.26      | 2,347.7               | 15.1         | 72.5         | -9.3                    | 0.17                    | 0.16                   | 1.64                  |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM#601H                   |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 2,375.0               | 1.95            | 308.28      | 2,372.7               | 15.6         | 71.8         | -9.9                    | 0.31                    | -0.28                  | -3.92                 |  |
| 2,400.0               | 1.99            | 308.42      | 2,397.7               | 16.2         | 71.1         | -10.5                   | 0.16                    | 0.16                   | 0.56                  |  |
| 2,425.0               | 2.03            | 308.09      | 2,422.7               | 16.7         | 70.4         | -11.1                   | 0.17                    | 0.16                   | -1.32                 |  |
| 2,450.0               | 2.03            | 308.81      | 2,447.6               | 17.3         | 69.7         | -11.7                   | 0.10                    | 0.00                   | 2.88                  |  |
| 2,475.0               | 2.09            | 311.22      | 2,472.6               | 17.9         | 69.1         | -12.3                   | 0.42                    | 0.24                   | 9.64                  |  |
| 2,500.0               | 2.07            | 320.84      | 2,497.6               | 18.5         | 68.4         | -13.0                   | 1.40                    | -0.08                  | 38.48                 |  |
| 2,525.0               | 2.03            | 329.07      | 2,522.6               | 19.2         | 67.9         | -13.8                   | 1.19                    | -0.16                  | 32.92                 |  |
| 2,550.0               | 2.05            | 334.18      | 2,547.6               | 20.0         | 67.5         | -14.6                   | 0.73                    | 0.08                   | 20.44                 |  |
| 2,575.0               | 2.04            | 339.77      | 2,572.6               | 20.8         | 67.1         | -15.5                   | 0.80                    | -0.04                  | 22.36                 |  |
| 2,600.0               | 2.12            | 344.65      | 2,597.6               | 21.7         | 66.9         | -16.3                   | 0.78                    | 0.32                   | 19.52                 |  |
| 2,625.0               | 2.18            | 347.45      | 2,622.5               | 22.6         | 66.6         | -17.3                   | 0.48                    | 0.24                   | 11.20                 |  |
| 2,650.0               | 2.12            | 348.15      | 2,647.5               | 23.5         | 66.4         | -18.2                   | 0.26                    | -0.24                  | 2.80                  |  |
| 2,675.0               | 2.19            | 348.94      | 2,672.5               | 24.4         | 66.3         | -19.1                   | 0.30                    | 0.28                   | 3.16                  |  |
| 2,700.0               | 2.22            | 350.34      | 2,697.5               | 25.4         | 66.1         | -20.1                   | 0.25                    | 0.12                   | 5.60                  |  |
| 2,725.0               | 2.24            | 350.53      | 2,722.5               | 26.4         | 65.9         | -21.1                   | 0.09                    | 0.08                   | 0.76                  |  |
| 2,750.0               | 2.28            | 350.69      | 2,747.4               | 27.3         | 65.8         | -22.0                   | 0.16                    | 0.16                   | 0.64                  |  |
| 2,775.0               | 2.26            | 351.72      | 2,772.4               | 28.3         | 65.6         | -23.0                   | 0.18                    | -0.08                  | 4.12                  |  |
| 2,800.0               | 2.27            | 351.09      | 2,797.4               | 29.3         | 65.5         | -24.0                   | 0.11                    | 0.04                   | -2.52                 |  |
| 2,825.0               | 2.35            | 349.40      | 2,822.4               | 30.3         | 65.3         | -25.0                   | 0.42                    | 0.32                   | -6.76                 |  |
| 2,850.0               | 2.34            | 350.29      | 2,847.4               | 31.3         | 65.1         | -26.0                   | 0.15                    | -0.04                  | 3.56                  |  |
| 2,875.0               | 2.08            | 354.20      | 2,872.3               | 32.2         | 65.0         | -27.0                   | 1.20                    | -1.04                  | 15.64                 |  |
| 2,900.0               | 1.60            | 10.48       | 2,897.3               | 33.0         | 65.0         | -27.8                   | 2.82                    | -1.92                  | 65.12                 |  |
| 2,925.0               | 1.37            | 27.00       | 2,922.3               | 33.6         | 65.2         | -28.4                   | 1.93                    | -0.92                  | 66.08                 |  |
| 2,950.0               | 1.43            | 35.98       | 2,947.3               | 34.2         | 65.5         | -28.9                   | 0.91                    | 0.24                   | 35.92                 |  |
| 2,975.0               | 1.44            | 39.11       | 2,972.3               | 34.7         | 65.9         | -29.3                   | 0.32                    | 0.04                   | 12.52                 |  |
| 3,000.0               | 1.45            | 40.75       | 2,997.3               | 35.1         | 66.3         | -29.8                   | 0.17                    | 0.04                   | 6.56                  |  |
| 3,025.0               | 1.46            | 39.49       | 3,022.3               | 35.6         | 66.7         | -30.2                   | 0.13                    | 0.04                   | -5.04                 |  |
| 3,050.0               | 1.52            | 39.14       | 3,047.3               | 36.1         | 67.1         | -30.7                   | 0.24                    | 0.24                   | -1.40                 |  |
| 3,075.0               | 1.48            | 40.97       | 3,072.3               | 36.6         | 67.5         | -31.2                   | 0.25                    | -0.16                  | 7.32                  |  |
| 3,100.0               | 1.44            | 38.98       | 3,097.3               | 37.1         | 67.9         | -31.6                   | 0.26                    | -0.16                  | -7.96                 |  |
| 3,125.0               | 1.45            | 41.07       | 3,122.3               | 37.6         | 68.4         | -32.1                   | 0.21                    | 0.04                   | 8.36                  |  |
| 3,150.0               | 1.47            | 39.92       | 3,147.2               | 38.1         | 68.8         | -32.5                   | 0.14                    | 0.08                   | -4.60                 |  |
| 3,175.0               | 1.49            | 40.00       | 3,172.2               | 38.6         | 69.2         | -33.0                   | 0.08                    | 0.08                   | 0.32                  |  |
| 3,200.0               | 1.48            | 40.44       | 3,197.2               | 39.1         | 69.6         | -33.4                   | 0.06                    | -0.04                  | 1.76                  |  |
| 3,225.0               | 1.53            | 40.62       | 3,222.2               | 39.6         | 70.0         | -33.9                   | 0.20                    | 0.20                   | 0.72                  |  |
| 3,250.0               | 1.45            | 48.49       | 3,247.2               | 40.0         | 70.5         | -34.3                   | 0.88                    | -0.32                  | 31.48                 |  |
| 3,275.0               | 1.59            | 62.39       | 3,272.2               | 40.4         | 71.0         | -34.7                   | 1.57                    | 0.56                   | 55.60                 |  |
| 3,300.0               | 1.85            | 75.04       | 3,297.2               | 40.7         | 71.7         | -34.9                   | 1.83                    | 1.04                   | 50.60                 |  |
| 3,325.0               | 2.03            | 78.39       | 3,322.2               | 40.9         | 72.5         | -35.0                   | 0.85                    | 0.72                   | 13.40                 |  |
| 3,350.0               | 2.16            | 78.97       | 3,347.2               | 41.0         | 73.4         | -35.1                   | 0.53                    | 0.52                   | 2.32                  |  |
| 3,375.0               | 2.20            | 78.90       | 3,372.1               | 41.2         | 74.4         | -35.2                   | 0.16                    | 0.16                   | -0.28                 |  |
| 3,400.0               | 2.32            | 78.62       | 3,397.1               | 41.4         | 75.3         | -35.3                   | 0.48                    | 0.48                   | -1.12                 |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 3,425.0               | 2.32            | 78.80       | 3,422.1               | 41.6         | 76.3         | -35.4                   | 0.03                    | 0.00                   | 0.72                  |  |
| 3,450.0               | 2.27            | 79.68       | 3,447.1               | 41.8         | 77.3         | -35.6                   | 0.24                    | -0.20                  | 3.52                  |  |
| 3,475.0               | 2.34            | 81.41       | 3,472.1               | 42.0         | 78.3         | -35.6                   | 0.39                    | 0.28                   | 6.92                  |  |
| 3,500.0               | 2.39            | 79.02       | 3,497.0               | 42.1         | 79.3         | -35.7                   | 0.44                    | 0.20                   | -9.56                 |  |
| 3,525.0               | 2.39            | 80.10       | 3,522.0               | 42.3         | 80.4         | -35.8                   | 0.18                    | 0.00                   | 4.32                  |  |
| 3,550.0               | 2.47            | 79.27       | 3,547.0               | 42.5         | 81.4         | -36.0                   | 0.35                    | 0.32                   | -3.32                 |  |
| 3,575.0               | 2.47            | 79.71       | 3,572.0               | 42.7         | 82.5         | -36.1                   | 0.08                    | 0.00                   | 1.76                  |  |
| 3,600.0               | 2.54            | 78.97       | 3,597.0               | 42.9         | 83.5         | -36.2                   | 0.31                    | 0.28                   | -2.96                 |  |
| 3,625.0               | 2.80            | 80.82       | 3,621.9               | 43.1         | 84.7         | -36.3                   | 1.10                    | 1.04                   | 7.40                  |  |
| 3,650.0               | 3.14            | 83.24       | 3,646.9               | 43.3         | 86.0         | -36.4                   | 1.45                    | 1.36                   | 9.68                  |  |
| 3,675.0               | 3.45            | 84.53       | 3,671.9               | 43.5         | 87.4         | -36.4                   | 1.27                    | 1.24                   | 5.16                  |  |
| 3,700.0               | 3.54            | 84.66       | 3,696.8               | 43.6         | 88.9         | -36.4                   | 0.36                    | 0.36                   | 0.52                  |  |
| 3,725.0               | 3.58            | 85.21       | 3,721.8               | 43.7         | 90.4         | -36.4                   | 0.21                    | 0.16                   | 2.20                  |  |
| 3,750.0               | 3.48            | 84.79       | 3,746.7               | 43.9         | 92.0         | -36.5                   | 0.41                    | -0.40                  | -1.68                 |  |
| 3,775.0               | 3.56            | 83.70       | 3,771.7               | 44.0         | 93.5         | -36.5                   | 0.42                    | 0.32                   | -4.36                 |  |
| 3,800.0               | 3.56            | 83.88       | 3,796.6               | 44.2         | 95.1         | -36.5                   | 0.04                    | 0.00                   | 0.72                  |  |
| 3,825.0               | 3.66            | 84.67       | 3,821.6               | 44.3         | 96.6         | -36.6                   | 0.45                    | 0.40                   | 3.16                  |  |
| 3,850.0               | 3.62            | 84.05       | 3,846.5               | 44.5         | 98.2         | -36.6                   | 0.22                    | -0.16                  | -2.48                 |  |
| 3,875.0               | 3.54            | 85.04       | 3,871.5               | 44.6         | 99.8         | -36.6                   | 0.40                    | -0.32                  | 3.96                  |  |
| 3,900.0               | 3.56            | 85.87       | 3,896.4               | 44.8         | 101.3        | -36.6                   | 0.22                    | 0.08                   | 3.32                  |  |
| 3,925.0               | 3.61            | 85.44       | 3,921.4               | 44.9         | 102.9        | -36.6                   | 0.23                    | 0.20                   | -1.72                 |  |
| 3,950.0               | 3.68            | 85.26       | 3,946.3               | 45.0         | 104.4        | -36.6                   | 0.28                    | 0.28                   | -0.72                 |  |
| 3,975.0               | 3.63            | 85.19       | 3,971.3               | 45.2         | 106.0        | -36.6                   | 0.20                    | -0.20                  | -0.28                 |  |
| 4,000.0               | 3.78            | 84.51       | 3,996.2               | 45.3         | 107.6        | -36.6                   | 0.63                    | 0.60                   | -2.72                 |  |
| 4,025.0               | 4.34            | 84.27       | 4,021.2               | 45.5         | 109.4        | -36.7                   | 2.24                    | 2.24                   | -0.96                 |  |
| 4,050.0               | 4.75            | 84.82       | 4,046.1               | 45.7         | 111.4        | -36.7                   | 1.65                    | 1.64                   | 2.20                  |  |
| 4,075.0               | 5.03            | 84.93       | 4,071.0               | 45.8         | 113.5        | -36.7                   | 1.12                    | 1.12                   | 0.44                  |  |
| 4,100.0               | 5.32            | 84.48       | 4,095.9               | 46.1         | 115.7        | -36.8                   | 1.17                    | 1.16                   | -1.80                 |  |
| 4,125.0               | 5.37            | 84.94       | 4,120.8               | 46.3         | 118.1        | -36.8                   | 0.26                    | 0.20                   | 1.84                  |  |
| 4,150.0               | 5.46            | 85.43       | 4,145.7               | 46.5         | 120.4        | -36.8                   | 0.40                    | 0.36                   | 1.96                  |  |
| 4,175.0               | 5.52            | 85.48       | 4,170.5               | 46.7         | 122.8        | -36.8                   | 0.24                    | 0.24                   | 0.20                  |  |
| 4,200.0               | 5.52            | 85.02       | 4,195.4               | 46.9         | 125.2        | -36.8                   | 0.18                    | 0.00                   | -1.84                 |  |
| 4,225.0               | 5.56            | 84.91       | 4,220.3               | 47.1         | 127.6        | -36.8                   | 0.17                    | 0.16                   | -0.44                 |  |
| 4,250.0               | 5.57            | 85.75       | 4,245.2               | 47.3         | 130.0        | -36.8                   | 0.33                    | 0.04                   | 3.36                  |  |
| 4,275.0               | 5.60            | 84.72       | 4,270.1               | 47.5         | 132.4        | -36.9                   | 0.42                    | 0.12                   | -4.12                 |  |
| 4,300.0               | 5.73            | 85.11       | 4,295.0               | 47.7         | 134.9        | -36.9                   | 0.54                    | 0.52                   | 1.56                  |  |
| 4,325.0               | 5.74            | 85.05       | 4,319.8               | 47.9         | 137.4        | -36.9                   | 0.05                    | 0.04                   | -0.24                 |  |
| 4,350.0               | 5.74            | 84.82       | 4,344.7               | 48.1         | 139.9        | -36.9                   | 0.09                    | 0.00                   | -0.92                 |  |
| 4,375.0               | 5.66            | 84.83       | 4,369.6               | 48.3         | 142.3        | -36.9                   | 0.32                    | -0.32                  | 0.04                  |  |
| 4,400.0               | 5.60            | 86.03       | 4,394.5               | 48.5         | 144.8        | -36.9                   | 0.53                    | -0.24                  | 4.80                  |  |
| 4,425.0               | 5.57            | 85.98       | 4,419.3               | 48.7         | 147.2        | -36.9                   | 0.12                    | -0.12                  | -0.20                 |  |
| 4,450.0               | 5.60            | 85.82       | 4,444.2               | 48.9         | 149.6        | -36.9                   | 0.14                    | 0.12                   | -0.64                 |  |



# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 4,475.0               | 5.72            | 85.77       | 4,469.1               | 49.1         | 152.1        | -36.9                   | 0.48                    | 0.48                   | -0.20                 |  |
| 4,500.0               | 5.61            | 85.48       | 4,494.0               | 49.3         | 154.6        | -36.9                   | 0.45                    | -0.44                  | -1.16                 |  |
| 4,525.0               | 5.62            | 85.47       | 4,518.9               | 49.4         | 157.0        | -36.9                   | 0.04                    | 0.04                   | -0.04                 |  |
| 4,550.0               | 5.78            | 84.70       | 4,543.7               | 49.7         | 159.5        | -36.9                   | 0.71                    | 0.64                   | -3.08                 |  |
| 4,575.0               | 5.88            | 81.15       | 4,568.6               | 50.0         | 162.0        | -37.0                   | 1.50                    | 0.40                   | -14.20                |  |
| 4,600.0               | 6.05            | 77.97       | 4,593.5               | 50.4         | 164.5        | -37.3                   | 1.49                    | 0.68                   | -12.72                |  |
| 4,625.0               | 5.96            | 76.78       | 4,618.3               | 51.0         | 167.1        | -37.7                   | 0.61                    | -0.36                  | -4.76                 |  |
| 4,650.0               | 6.14            | 76.63       | 4,643.2               | 51.6         | 169.7        | -38.1                   | 0.72                    | 0.72                   | -0.60                 |  |
| 4,675.0               | 6.11            | 76.12       | 4,668.0               | 52.3         | 172.3        | -38.5                   | 0.25                    | -0.12                  | -2.04                 |  |
| 4,700.0               | 6.17            | 76.08       | 4,692.9               | 52.9         | 174.8        | -38.9                   | 0.24                    | 0.24                   | -0.16                 |  |
| 4,725.0               | 6.11            | 76.39       | 4,717.8               | 53.5         | 177.4        | -39.3                   | 0.27                    | -0.24                  | 1.24                  |  |
| 4,750.0               | 6.07            | 77.00       | 4,742.6               | 54.1         | 180.0        | -39.7                   | 0.30                    | -0.16                  | 2.44                  |  |
| 4,775.0               | 6.05            | 76.01       | 4,767.5               | 54.8         | 182.6        | -40.2                   | 0.43                    | -0.08                  | -3.96                 |  |
| 4,800.0               | 5.96            | 75.51       | 4,792.3               | 55.4         | 185.1        | -40.6                   | 0.42                    | -0.36                  | -2.00                 |  |
| 4,825.0               | 5.88            | 75.20       | 4,817.2               | 56.1         | 187.6        | -41.0                   | 0.34                    | -0.32                  | -1.24                 |  |
| 4,850.0               | 5.84            | 74.99       | 4,842.1               | 56.7         | 190.1        | -41.5                   | 0.18                    | -0.16                  | -0.84                 |  |
| 4,875.0               | 5.82            | 75.04       | 4,867.0               | 57.4         | 192.5        | -42.0                   | 0.08                    | -0.08                  | 0.20                  |  |
| 4,900.0               | 5.73            | 75.10       | 4,891.8               | 58.0         | 195.0        | -42.4                   | 0.36                    | -0.36                  | 0.24                  |  |
| 4,925.0               | 5.87            | 75.52       | 4,916.7               | 58.7         | 197.4        | -42.9                   | 0.59                    | 0.56                   | 1.68                  |  |
| 4,950.0               | 5.95            | 75.61       | 4,941.6               | 59.3         | 199.9        | -43.3                   | 0.32                    | 0.32                   | 0.36                  |  |
| 4,975.0               | 6.08            | 74.87       | 4,966.4               | 60.0         | 202.4        | -43.8                   | 0.61                    | 0.52                   | -2.96                 |  |
| 5,000.0               | 6.03            | 75.73       | 4,991.3               | 60.6         | 205.0        | -44.2                   | 0.41                    | -0.20                  | 3.44                  |  |
| 5,025.0               | 6.01            | 75.92       | 5,016.1               | 61.3         | 207.5        | -44.7                   | 0.11                    | -0.08                  | 0.76                  |  |
| 5,050.0               | 6.07            | 76.06       | 5,041.0               | 61.9         | 210.1        | -45.1                   | 0.25                    | 0.24                   | 0.56                  |  |
| 5,075.0               | 6.14            | 78.00       | 5,065.9               | 62.5         | 212.7        | -45.5                   | 0.87                    | 0.28                   | 7.76                  |  |
| 5,100.0               | 6.19            | 77.22       | 5,090.7               | 63.1         | 215.3        | -45.9                   | 0.39                    | 0.20                   | -3.12                 |  |
| 5,125.0               | 6.17            | 75.69       | 5,115.6               | 63.7         | 217.9        | -46.3                   | 0.66                    | -0.08                  | -6.12                 |  |
| 5,150.0               | 6.31            | 75.82       | 5,140.4               | 64.4         | 220.6        | -46.7                   | 0.56                    | 0.56                   | 0.52                  |  |
| 5,175.0               | 6.42            | 75.59       | 5,165.3               | 65.1         | 223.2        | -47.2                   | 0.45                    | 0.44                   | -0.92                 |  |
| 5,200.0               | 6.44            | 76.10       | 5,190.1               | 65.8         | 226.0        | -47.7                   | 0.24                    | 0.08                   | 2.04                  |  |
| 5,225.0               | 6.43            | 75.95       | 5,215.0               | 66.4         | 228.7        | -48.1                   | 0.08                    | -0.04                  | -0.60                 |  |
| 5,250.0               | 6.42            | 75.87       | 5,239.8               | 67.1         | 231.4        | -48.6                   | 0.05                    | -0.04                  | -0.32                 |  |
| 5,275.0               | 6.46            | 75.87       | 5,264.6               | 67.8         | 234.1        | -49.1                   | 0.16                    | 0.16                   | 0.00                  |  |
| 5,300.0               | 6.53            | 75.89       | 5,289.5               | 68.5         | 236.8        | -49.5                   | 0.28                    | 0.28                   | 0.08                  |  |
| 5,325.0               | 6.54            | 75.66       | 5,314.3               | 69.2         | 239.6        | -50.0                   | 0.11                    | 0.04                   | -0.92                 |  |
| 5,350.0               | 6.44            | 75.71       | 5,339.2               | 69.9         | 242.3        | -50.5                   | 0.40                    | -0.40                  | 0.20                  |  |
| 5,375.0               | 6.29            | 70.42       | 5,364.0               | 70.7         | 245.0        | -51.1                   | 2.42                    | -0.60                  | -21.16                |  |
| 5,400.0               | 6.25            | 65.20       | 5,388.9               | 71.7         | 247.5        | -51.9                   | 2.29                    | -0.16                  | -20.88                |  |
| 5,425.0               | 6.23            | 62.23       | 5,413.7               | 72.9         | 250.0        | -52.9                   | 1.29                    | -0.08                  | -11.88                |  |
| 5,450.0               | 6.25            | 59.16       | 5,438.6               | 74.2         | 252.3        | -54.1                   | 1.34                    | 0.08                   | -12.28                |  |
| 5,475.0               | 6.16            | 58.91       | 5,463.4               | 75.6         | 254.6        | -55.3                   | 0.38                    | -0.36                  | -1.00                 |  |
| 5,500.0               | 6.17            | 58.47       | 5,488.3               | 77.0         | 256.9        | -56.5                   | 0.19                    | 0.04                   | -1.76                 |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 5,525.0               | 6.07            | 57.95       | 5,513.1               | 78.4         | 259.2        | -57.7                   | 0.46                    | -0.40                  | -2.08                 |  |
| 5,550.0               | 6.14            | 58.35       | 5,538.0               | 79.8         | 261.5        | -58.9                   | 0.33                    | 0.28                   | 1.60                  |  |
| 5,575.0               | 6.16            | 57.90       | 5,562.8               | 81.3         | 263.7        | -60.2                   | 0.21                    | 0.08                   | -1.80                 |  |
| 5,600.0               | 6.20            | 57.81       | 5,587.7               | 82.7         | 266.0        | -61.4                   | 0.16                    | 0.16                   | -0.36                 |  |
| 5,625.0               | 6.21            | 58.08       | 5,612.6               | 84.1         | 268.3        | -62.7                   | 0.12                    | 0.04                   | 1.08                  |  |
| 5,650.0               | 6.20            | 57.93       | 5,637.4               | 85.6         | 270.6        | -63.9                   | 0.08                    | -0.04                  | -0.60                 |  |
| 5,675.0               | 6.31            | 58.11       | 5,662.3               | 87.0         | 272.9        | -65.2                   | 0.45                    | 0.44                   | 0.72                  |  |
| 5,700.0               | 6.37            | 58.29       | 5,687.1               | 88.4         | 275.2        | -66.4                   | 0.25                    | 0.24                   | 0.72                  |  |
| 5,725.0               | 6.30            | 57.69       | 5,712.0               | 89.9         | 277.6        | -67.7                   | 0.39                    | -0.28                  | -2.40                 |  |
| 5,750.0               | 6.37            | 57.71       | 5,736.8               | 91.4         | 279.9        | -69.0                   | 0.28                    | 0.28                   | 0.08                  |  |
| 5,775.0               | 6.31            | 57.42       | 5,761.6               | 92.9         | 282.2        | -70.3                   | 0.27                    | -0.24                  | -1.16                 |  |
| 5,800.0               | 6.39            | 58.07       | 5,786.5               | 94.3         | 284.6        | -71.6                   | 0.43                    | 0.32                   | 2.60                  |  |
| 5,825.0               | 6.42            | 58.35       | 5,811.3               | 95.8         | 287.0        | -72.8                   | 0.17                    | 0.12                   | 1.12                  |  |
| 5,850.0               | 6.33            | 58.26       | 5,836.2               | 97.3         | 289.3        | -74.1                   | 0.36                    | -0.36                  | -0.36                 |  |
| 5,875.0               | 6.31            | 57.81       | 5,861.0               | 98.7         | 291.7        | -75.4                   | 0.21                    | -0.08                  | -1.80                 |  |
| 5,900.0               | 6.32            | 57.70       | 5,885.9               | 100.2        | 294.0        | -76.6                   | 0.06                    | 0.04                   | -0.44                 |  |
| 5,925.0               | 6.42            | 58.08       | 5,910.7               | 101.7        | 296.3        | -77.9                   | 0.43                    | 0.40                   | 1.52                  |  |
| 5,950.0               | 6.38            | 57.88       | 5,935.6               | 103.1        | 298.7        | -79.2                   | 0.18                    | -0.16                  | -0.80                 |  |
| 5,975.0               | 6.22            | 58.07       | 5,960.4               | 104.6        | 301.0        | -80.5                   | 0.65                    | -0.64                  | 0.76                  |  |
| 6,000.0               | 6.11            | 58.12       | 5,985.3               | 106.0        | 303.3        | -81.7                   | 0.44                    | -0.44                  | 0.20                  |  |
| 6,025.0               | 5.90            | 58.19       | 6,010.1               | 107.4        | 305.5        | -82.9                   | 0.84                    | -0.84                  | 0.28                  |  |
| 6,050.0               | 5.76            | 58.73       | 6,035.0               | 108.7        | 307.7        | -84.1                   | 0.60                    | -0.56                  | 2.16                  |  |
| 6,075.0               | 5.55            | 60.88       | 6,059.9               | 110.0        | 309.8        | -85.1                   | 1.19                    | -0.84                  | 8.60                  |  |
| 6,100.0               | 5.37            | 63.15       | 6,084.8               | 111.1        | 311.9        | -86.1                   | 1.12                    | -0.72                  | 9.08                  |  |
| 6,125.0               | 5.14            | 63.90       | 6,109.7               | 112.1        | 314.0        | -86.9                   | 0.96                    | -0.92                  | 3.00                  |  |
| 6,150.0               | 5.04            | 64.11       | 6,134.6               | 113.1        | 316.0        | -87.8                   | 0.41                    | -0.40                  | 0.84                  |  |
| 6,175.0               | 5.10            | 64.63       | 6,159.5               | 114.0        | 317.9        | -88.5                   | 0.30                    | 0.24                   | 2.08                  |  |
| 6,200.0               | 5.05            | 64.22       | 6,184.4               | 115.0        | 319.9        | -89.3                   | 0.25                    | -0.20                  | -1.64                 |  |
| 6,225.0               | 4.82            | 63.94       | 6,209.3               | 115.9        | 321.9        | -90.1                   | 0.93                    | -0.92                  | -1.12                 |  |
| 6,250.0               | 4.77            | 63.68       | 6,234.2               | 116.8        | 323.8        | -90.9                   | 0.22                    | -0.20                  | -1.04                 |  |
| 6,275.0               | 4.62            | 63.13       | 6,259.1               | 117.8        | 325.6        | -91.7                   | 0.63                    | -0.60                  | -2.20                 |  |
| 6,300.0               | 4.55            | 62.46       | 6,284.0               | 118.7        | 327.4        | -92.4                   | 0.35                    | -0.28                  | -2.68                 |  |
| 6,325.0               | 4.34            | 61.61       | 6,309.0               | 119.6        | 329.1        | -93.2                   | 0.88                    | -0.84                  | -3.40                 |  |
| 6,350.0               | 4.16            | 60.69       | 6,333.9               | 120.5        | 330.7        | -94.0                   | 0.77                    | -0.72                  | -3.68                 |  |
| 6,375.0               | 3.97            | 61.71       | 6,358.8               | 121.3        | 332.2        | -94.7                   | 0.81                    | -0.76                  | 4.08                  |  |
| 6,400.0               | 3.82            | 61.07       | 6,383.8               | 122.1        | 333.7        | -95.4                   | 0.62                    | -0.60                  | -2.56                 |  |
| 6,425.0               | 3.59            | 61.61       | 6,408.7               | 122.9        | 335.2        | -96.1                   | 0.93                    | -0.92                  | 2.16                  |  |
| 6,450.0               | 3.46            | 63.35       | 6,433.7               | 123.6        | 336.5        | -96.7                   | 0.67                    | -0.52                  | 6.96                  |  |
| 6,475.0               | 3.30            | 64.55       | 6,458.6               | 124.3        | 337.8        | -97.2                   | 0.70                    | -0.64                  | 4.80                  |  |
| 6,500.0               | 3.17            | 67.09       | 6,483.6               | 124.9        | 339.1        | -97.7                   | 0.77                    | -0.52                  | 10.16                 |  |
| 6,525.0               | 3.21            | 69.96       | 6,508.5               | 125.4        | 340.4        | -98.1                   | 0.66                    | 0.16                   | 11.48                 |  |
| 6,550.0               | 3.25            | 72.05       | 6,533.5               | 125.8        | 341.8        | -98.4                   | 0.50                    | 0.16                   | 8.36                  |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 6,575.0               | 3.18            | 73.04       | 6,558.5               | 126.2        | 343.1        | -98.7                   | 0.36                    | -0.28                  | 3.96                  |  |
| 6,600.0               | 3.09            | 72.84       | 6,583.4               | 126.6        | 344.4        | -99.0                   | 0.36                    | -0.36                  | -0.80                 |  |
| 6,625.0               | 2.97            | 72.93       | 6,608.4               | 127.0        | 345.7        | -99.3                   | 0.48                    | -0.48                  | 0.36                  |  |
| 6,650.0               | 2.89            | 72.05       | 6,633.4               | 127.4        | 346.9        | -99.6                   | 0.37                    | -0.32                  | -3.52                 |  |
| 6,675.0               | 2.76            | 71.08       | 6,658.3               | 127.8        | 348.0        | -99.9                   | 0.55                    | -0.52                  | -3.88                 |  |
| 6,700.0               | 2.57            | 70.11       | 6,683.3               | 128.2        | 349.1        | -100.2                  | 0.78                    | -0.76                  | -3.88                 |  |
| 6,725.0               | 2.38            | 69.05       | 6,708.3               | 128.6        | 350.2        | -100.5                  | 0.78                    | -0.76                  | -4.24                 |  |
| 6,750.0               | 2.32            | 68.78       | 6,733.3               | 128.9        | 351.1        | -100.8                  | 0.24                    | -0.24                  | -1.08                 |  |
| 6,775.0               | 2.36            | 68.93       | 6,758.2               | 129.3        | 352.1        | -101.1                  | 0.16                    | 0.16                   | 0.60                  |  |
| 6,800.0               | 2.20            | 65.12       | 6,783.2               | 129.7        | 353.0        | -101.4                  | 0.88                    | -0.64                  | -15.24                |  |
| 6,825.0               | 2.05            | 57.72       | 6,808.2               | 130.1        | 353.8        | -101.8                  | 1.25                    | -0.60                  | -29.60                |  |
| 6,850.0               | 1.94            | 55.79       | 6,833.2               | 130.6        | 354.5        | -102.2                  | 0.52                    | -0.44                  | -7.72                 |  |
| 6,875.0               | 1.92            | 52.74       | 6,858.2               | 131.1        | 355.2        | -102.6                  | 0.42                    | -0.08                  | -12.20                |  |
| 6,900.0               | 1.97            | 49.42       | 6,883.2               | 131.6        | 355.9        | -103.1                  | 0.49                    | 0.20                   | -13.28                |  |
| 6,925.0               | 1.97            | 47.71       | 6,908.1               | 132.2        | 356.5        | -103.6                  | 0.24                    | 0.00                   | -6.84                 |  |
| 6,950.0               | 2.10            | 47.33       | 6,933.1               | 132.8        | 357.2        | -104.2                  | 0.52                    | 0.52                   | -1.52                 |  |
| 6,975.0               | 2.09            | 45.17       | 6,958.1               | 133.4        | 357.8        | -104.7                  | 0.32                    | -0.04                  | -8.64                 |  |
| 7,000.0               | 2.09            | 44.81       | 6,983.1               | 134.1        | 358.5        | -105.3                  | 0.05                    | 0.00                   | -1.44                 |  |
| 7,025.0               | 2.05            | 52.04       | 7,008.1               | 134.7        | 359.1        | -105.9                  | 1.06                    | -0.16                  | 28.92                 |  |
| 7,050.0               | 2.01            | 59.81       | 7,033.1               | 135.2        | 359.9        | -106.3                  | 1.11                    | -0.16                  | 31.08                 |  |
| 7,075.0               | 2.08            | 64.56       | 7,058.0               | 135.6        | 360.7        | -106.7                  | 0.73                    | 0.28                   | 19.00                 |  |
| 7,100.0               | 2.14            | 62.60       | 7,083.0               | 136.0        | 361.5        | -107.0                  | 0.38                    | 0.24                   | -7.84                 |  |
| 7,125.0               | 2.14            | 63.50       | 7,108.0               | 136.4        | 362.3        | -107.4                  | 0.13                    | 0.00                   | 3.60                  |  |
| 7,150.0               | 2.06            | 64.62       | 7,133.0               | 136.8        | 363.1        | -107.7                  | 0.36                    | -0.32                  | 4.48                  |  |
| 7,175.0               | 2.16            | 64.60       | 7,158.0               | 137.2        | 364.0        | -108.0                  | 0.40                    | 0.40                   | -0.08                 |  |
| 7,200.0               | 2.18            | 62.74       | 7,183.0               | 137.6        | 364.8        | -108.4                  | 0.29                    | 0.08                   | -7.44                 |  |
| 7,225.0               | 2.16            | 63.06       | 7,207.9               | 138.1        | 365.7        | -108.7                  | 0.09                    | -0.08                  | 1.28                  |  |
| 7,250.0               | 2.21            | 64.96       | 7,232.9               | 138.5        | 366.5        | -109.1                  | 0.35                    | 0.20                   | 7.60                  |  |
| 7,275.0               | 2.33            | 66.62       | 7,257.9               | 138.9        | 367.4        | -109.4                  | 0.55                    | 0.48                   | 6.64                  |  |
| 7,300.0               | 2.87            | 72.01       | 7,282.9               | 139.3        | 368.5        | -109.7                  | 2.37                    | 2.16                   | 21.56                 |  |
| 7,325.0               | 3.46            | 76.08       | 7,307.8               | 139.7        | 369.8        | -110.0                  | 2.52                    | 2.36                   | 16.28                 |  |
| 7,350.0               | 3.86            | 77.77       | 7,332.8               | 140.0        | 371.4        | -110.2                  | 1.66                    | 1.60                   | 6.76                  |  |
| 7,375.0               | 3.88            | 78.13       | 7,357.7               | 140.4        | 373.0        | -110.5                  | 0.13                    | 0.08                   | 1.44                  |  |
| 7,400.0               | 3.93            | 78.23       | 7,382.7               | 140.7        | 374.7        | -110.7                  | 0.20                    | 0.20                   | 0.40                  |  |
| 7,425.0               | 4.05            | 78.96       | 7,407.6               | 141.1        | 376.4        | -110.9                  | 0.52                    | 0.48                   | 2.92                  |  |
| 7,450.0               | 4.05            | 79.04       | 7,432.5               | 141.4        | 378.1        | -111.1                  | 0.02                    | 0.00                   | 0.32                  |  |
| 7,475.0               | 3.98            | 78.64       | 7,457.5               | 141.7        | 379.8        | -111.3                  | 0.30                    | -0.28                  | -1.60                 |  |
| 7,500.0               | 3.89            | 79.06       | 7,482.4               | 142.1        | 381.5        | -111.5                  | 0.38                    | -0.36                  | 1.68                  |  |
| 7,525.0               | 3.83            | 78.30       | 7,507.4               | 142.4        | 383.2        | -111.7                  | 0.32                    | -0.24                  | -3.04                 |  |
| 7,550.0               | 3.84            | 77.48       | 7,532.3               | 142.8        | 384.8        | -111.9                  | 0.22                    | 0.04                   | -3.28                 |  |
| 7,575.0               | 3.84            | 77.57       | 7,557.3               | 143.1        | 386.4        | -112.1                  | 0.02                    | 0.00                   | 0.36                  |  |
| 7,600.0               | 3.87            | 78.45       | 7,582.2               | 143.5        | 388.1        | -112.3                  | 0.27                    | 0.12                   | 3.52                  |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 7,625.0                                     | 3.89            | 81.06       | 7,607.1               | 143.8        | 389.8        | -112.5                  | 0.71                    | 0.08                   | 10.44                 |  |
| 7,650.0                                     | 3.80            | 83.33       | 7,632.1               | 144.0        | 391.4        | -112.6                  | 0.71                    | -0.36                  | 9.08                  |  |
| 7,675.0                                     | 3.75            | 85.30       | 7,657.0               | 144.2        | 393.0        | -112.6                  | 0.56                    | -0.20                  | 7.88                  |  |
| 7,700.0                                     | 3.86            | 86.33       | 7,682.0               | 144.3        | 394.7        | -112.6                  | 0.52                    | 0.44                   | 4.12                  |  |
| 7,725.0                                     | 3.92            | 86.63       | 7,706.9               | 144.4        | 396.4        | -112.6                  | 0.25                    | 0.24                   | 1.20                  |  |
| 7,750.0                                     | 4.12            | 86.56       | 7,731.9               | 144.5        | 398.1        | -112.6                  | 0.80                    | 0.80                   | -0.28                 |  |
| 7,775.0                                     | 4.23            | 86.58       | 7,756.8               | 144.6        | 400.0        | -112.5                  | 0.44                    | 0.44                   | 0.08                  |  |
| 7,800.0                                     | 4.13            | 85.98       | 7,781.7               | 144.7        | 401.8        | -112.5                  | 0.44                    | -0.40                  | -2.40                 |  |
| 7,825.0                                     | 4.04            | 85.61       | 7,806.7               | 144.8        | 403.6        | -112.5                  | 0.38                    | -0.36                  | -1.48                 |  |
| 7,850.0                                     | 3.98            | 85.14       | 7,831.6               | 145.0        | 405.3        | -112.5                  | 0.27                    | -0.24                  | -1.88                 |  |
| 7,875.0                                     | 3.89            | 84.83       | 7,856.5               | 145.1        | 407.0        | -112.5                  | 0.37                    | -0.36                  | -1.24                 |  |
| 7,900.0                                     | 3.94            | 84.49       | 7,881.5               | 145.3        | 408.7        | -112.5                  | 0.22                    | 0.20                   | -1.36                 |  |
| 7,925.0                                     | 3.91            | 83.31       | 7,906.4               | 145.5        | 410.4        | -112.6                  | 0.34                    | -0.12                  | -4.72                 |  |
| 7,950.0                                     | 3.77            | 82.69       | 7,931.4               | 145.7        | 412.1        | -112.7                  | 0.58                    | -0.56                  | -2.48                 |  |
| 7,975.0                                     | 3.67            | 83.08       | 7,956.3               | 145.9        | 413.7        | -112.7                  | 0.41                    | -0.40                  | 1.56                  |  |
| 8,000.0                                     | 3.65            | 83.24       | 7,981.3               | 146.1        | 415.3        | -112.8                  | 0.09                    | -0.08                  | 0.64                  |  |
| 8,025.0                                     | 3.59            | 83.84       | 8,006.2               | 146.3        | 416.8        | -112.9                  | 0.28                    | -0.24                  | 2.40                  |  |
| 8,050.0                                     | 3.57            | 83.36       | 8,031.2               | 146.4        | 418.4        | -112.9                  | 0.14                    | -0.08                  | -1.92                 |  |
| 8,075.0                                     | 3.39            | 82.79       | 8,056.1               | 146.6        | 419.9        | -113.0                  | 0.73                    | -0.72                  | -2.28                 |  |
| 8,100.0                                     | 3.14            | 80.84       | 8,081.1               | 146.8        | 421.3        | -113.1                  | 1.09                    | -1.00                  | -7.80                 |  |
| 8,125.0                                     | 2.89            | 77.89       | 8,106.0               | 147.1        | 422.6        | -113.2                  | 1.18                    | -1.00                  | -11.80                |  |
| 8,150.0                                     | 2.57            | 73.95       | 8,131.0               | 147.3        | 423.7        | -113.4                  | 1.48                    | -1.28                  | -15.76                |  |
| 8,175.0                                     | 2.47            | 70.99       | 8,156.0               | 147.7        | 424.8        | -113.6                  | 0.66                    | -0.40                  | -11.84                |  |
| 8,200.0                                     | 2.36            | 67.16       | 8,181.0               | 148.0        | 425.8        | -113.9                  | 0.78                    | -0.44                  | -15.32                |  |
| 8,225.0                                     | 2.26            | 63.59       | 8,206.0               | 148.5        | 426.7        | -114.3                  | 0.70                    | -0.40                  | -14.28                |  |
| 8,250.0                                     | 2.20            | 61.45       | 8,230.9               | 148.9        | 427.6        | -114.7                  | 0.41                    | -0.24                  | -8.56                 |  |
| 8,275.0                                     | 2.17            | 59.89       | 8,255.9               | 149.4        | 428.4        | -115.1                  | 0.27                    | -0.12                  | -6.24                 |  |
| 8,300.0                                     | 2.06            | 58.28       | 8,280.9               | 149.9        | 429.2        | -115.5                  | 0.50                    | -0.44                  | -6.44                 |  |
| 8,308.0                                     | 2.01            | 57.71       | 8,288.9               | 150.0        | 429.4        | -115.6                  | 0.67                    | -0.63                  | -7.13                 |  |
| 8,502.0                                     | 1.97            | 12.47       | 8,482.8               | 155.1        | 433.0        | -120.4                  | 0.79                    | -0.02                  | -23.32                |  |
| <b>First MWD SVY @ 8502'MD / 8482.8'TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 8,518.0                                     | 2.06            | 9.05        | 8,498.8               | 155.6        | 433.1        | -120.9                  | 0.94                    | 0.56                   | -21.38                |  |
| 8,549.0                                     | 2.12            | 1.92        | 8,529.8               | 156.8        | 433.2        | -122.0                  | 0.86                    | 0.19                   | -23.00                |  |
| 8,580.0                                     | 1.17            | 120.53      | 8,560.7               | 157.2        | 433.5        | -122.4                  | 9.26                    | -3.06                  | 382.61                |  |
| 8,612.0                                     | 5.63            | 154.72      | 8,592.7               | 155.6        | 434.5        | -120.8                  | 14.71                   | 13.94                  | 106.84                |  |
| 8,643.0                                     | 10.22           | 161.03      | 8,623.4               | 151.6        | 436.0        | -116.7                  | 15.05                   | 14.81                  | 20.35                 |  |
| 8,690.0                                     | 16.16           | 163.71      | 8,669.1               | 141.4        | 439.2        | -106.2                  | 12.70                   | 12.64                  | 5.70                  |  |
| 8,737.0                                     | 19.99           | 159.74      | 8,713.8               | 127.5        | 443.8        | -92.1                   | 8.56                    | 8.15                   | -8.45                 |  |
| 8,784.0                                     | 25.50           | 156.38      | 8,757.1               | 110.7        | 450.7        | -74.8                   | 12.04                   | 11.72                  | -7.15                 |  |
| 8,831.0                                     | 29.49           | 153.21      | 8,798.8               | 91.1         | 459.9        | -54.5                   | 9.04                    | 8.49                   | -6.74                 |  |
| 8,878.0                                     | 33.83           | 151.77      | 8,838.8               | 69.3         | 471.4        | -31.8                   | 9.37                    | 9.23                   | -3.06                 |  |
| 8,924.0                                     | 38.20           | 151.19      | 8,876.0               | 45.5         | 484.3        | -7.1                    | 9.53                    | 9.50                   | -1.26                 |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| 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) |  |
| 8,972.0                      | 40.68           | 151.74      | 8,913.1               | 18.7         | 498.8        | 20.8                    | 5.22                    | 5.17                   | 1.15                  |  |
| 9,018.0                      | 44.68           | 152.47      | 8,946.9               | -8.8         | 513.4        | 49.4                    | 8.76                    | 8.70                   | 1.59                  |  |
| 9,049.0                      | 48.96           | 153.90      | 8,968.1               | -29.0        | 523.6        | 70.3                    | 14.21                   | 13.81                  | 4.61                  |  |
| 9,112.0                      | 51.37           | 153.69      | 9,008.4               | -72.4        | 545.0        | 115.3                   | 3.83                    | 3.83                   | -0.33                 |  |
| 9,159.0                      | 57.40           | 151.90      | 9,035.8               | -106.4       | 562.4        | 150.5                   | 13.20                   | 12.83                  | -3.81                 |  |
| 9,167.1                      | 58.29           | 151.88      | 9,040.1               | -112.4       | 565.7        | 156.8                   | 11.02                   | 11.02                  | -0.29                 |  |
| FTP @ 9167.1'MD / 9040.1'TVD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,206.0                      | 62.58           | 151.77      | 9,059.3               | -142.2       | 581.6        | 187.8                   | 11.02                   | 11.02                  | -0.27                 |  |
| 9,253.0                      | 67.31           | 151.16      | 9,079.2               | -179.6       | 602.0        | 226.6                   | 10.13                   | 10.06                  | -1.30                 |  |
| 9,299.0                      | 71.45           | 151.60      | 9,095.4               | -217.4       | 622.6        | 265.9                   | 9.04                    | 9.00                   | 0.96                  |  |
| 9,330.0                      | 73.40           | 150.95      | 9,104.8               | -243.3       | 636.8        | 292.9                   | 6.60                    | 6.29                   | -2.10                 |  |
| 9,361.0                      | 76.54           | 152.02      | 9,112.8               | -269.6       | 651.1        | 320.2                   | 10.66                   | 10.13                  | 3.45                  |  |
| 9,393.0                      | 78.24           | 153.43      | 9,119.8               | -297.4       | 665.4        | 349.0                   | 6.83                    | 5.31                   | 4.41                  |  |
| 9,424.0                      | 79.53           | 155.36      | 9,125.8               | -324.8       | 678.5        | 377.4                   | 7.39                    | 4.16                   | 6.23                  |  |
| 9,455.0                      | 79.60           | 157.85      | 9,131.4               | -352.8       | 690.6        | 406.3                   | 7.90                    | 0.23                   | 8.03                  |  |
| 9,487.0                      | 79.74           | 159.84      | 9,137.1               | -382.2       | 702.0        | 436.4                   | 6.13                    | 0.44                   | 6.22                  |  |
| 9,518.0                      | 80.27           | 160.36      | 9,142.5               | -410.9       | 712.4        | 465.9                   | 2.38                    | 1.71                   | 1.68                  |  |
| 9,549.0                      | 82.12           | 160.53      | 9,147.2               | -439.7       | 722.6        | 495.5                   | 5.99                    | 5.97                   | 0.55                  |  |
| 9,576.0                      | 84.68           | 160.80      | 9,150.3               | -465.0       | 731.5        | 521.4                   | 9.53                    | 9.48                   | 1.00                  |  |
| 9,611.0                      | 88.37           | 162.22      | 9,152.5               | -498.2       | 742.6        | 555.3                   | 11.29                   | 10.54                  | 4.06                  |  |
| 9,669.0                      | 90.44           | 163.14      | 9,153.1               | -553.5       | 759.9        | 611.8                   | 3.91                    | 3.57                   | 1.59                  |  |
| 9,705.0                      | 90.34           | 162.86      | 9,152.8               | -587.9       | 770.4        | 647.0                   | 0.83                    | -0.28                  | -0.78                 |  |
| 9,799.0                      | 88.56           | 164.67      | 9,153.7               | -678.2       | 796.7        | 739.0                   | 2.70                    | -1.89                  | 1.93                  |  |
| 9,893.0                      | 88.07           | 167.21      | 9,156.5               | -769.3       | 819.5        | 831.7                   | 2.75                    | -0.52                  | 2.70                  |  |
| 9,987.0                      | 89.04           | 171.33      | 9,158.9               | -861.6       | 837.0        | 925.1                   | 4.50                    | 1.03                   | 4.38                  |  |
| 10,081.0                     | 90.82           | 173.43      | 9,159.0               | -954.8       | 849.5        | 1,018.9                 | 2.93                    | 1.89                   | 2.23                  |  |
| 10,175.0                     | 91.68           | 177.12      | 9,156.9               | -1,048.4     | 857.2        | 1,112.9                 | 4.03                    | 0.91                   | 3.93                  |  |
| 10,268.0                     | 91.70           | 177.63      | 9,154.2               | -1,141.3     | 861.4        | 1,205.8                 | 0.55                    | 0.02                   | 0.55                  |  |
| 10,362.0                     | 91.28           | 179.65      | 9,151.7               | -1,235.2     | 863.7        | 1,299.6                 | 2.19                    | -0.45                  | 2.15                  |  |
| 10,456.0                     | 90.50           | 179.48      | 9,150.3               | -1,329.2     | 864.4        | 1,393.4                 | 0.85                    | -0.83                  | -0.18                 |  |
| 10,550.0                     | 89.94           | 178.96      | 9,149.9               | -1,423.2     | 865.7        | 1,487.2                 | 0.81                    | -0.60                  | -0.55                 |  |
| 10,644.0                     | 90.23           | 179.47      | 9,149.8               | -1,517.2     | 867.0        | 1,581.0                 | 0.62                    | 0.31                   | 0.54                  |  |
| 10,738.0                     | 88.37           | 178.78      | 9,150.9               | -1,611.2     | 868.4        | 1,674.8                 | 2.11                    | -1.98                  | -0.73                 |  |
| 10,832.0                     | 90.72           | 181.64      | 9,151.7               | -1,705.2     | 868.0        | 1,768.4                 | 3.94                    | 2.50                   | 3.04                  |  |
| 10,926.0                     | 91.57           | 182.46      | 9,149.8               | -1,799.1     | 864.7        | 1,861.8                 | 1.26                    | 0.90                   | 0.87                  |  |
| 11,020.0                     | 90.86           | 181.72      | 9,147.8               | -1,893.0     | 861.3        | 1,955.1                 | 1.09                    | -0.76                  | -0.79                 |  |
| 11,114.0                     | 89.59           | 181.28      | 9,147.4               | -1,987.0     | 858.8        | 2,048.6                 | 1.43                    | -1.35                  | -0.47                 |  |
| 11,207.0                     | 88.14           | 180.84      | 9,149.3               | -2,079.9     | 857.1        | 2,141.1                 | 1.63                    | -1.56                  | -0.47                 |  |
| 11,301.0                     | 90.87           | 185.81      | 9,150.1               | -2,173.7     | 851.6        | 2,234.2                 | 6.03                    | 2.90                   | 5.29                  |  |
| 11,395.0                     | 88.16           | 180.04      | 9,150.9               | -2,267.5     | 846.8        | 2,327.4                 | 6.78                    | -2.88                  | -6.14                 |  |
| 11,489.0                     | 88.88           | 180.21      | 9,153.3               | -2,361.5     | 846.6        | 2,421.0                 | 0.79                    | 0.77                   | 0.18                  |  |
| 11,583.0                     | 90.51           | 183.02      | 9,153.8               | -2,455.5     | 844.0        | 2,514.5                 | 3.46                    | 1.73                   | 2.99                  |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 11,677.0              | 90.55           | 184.93      | 9,152.9               | -2,549.2     | 837.5        | 2,607.4                 | 2.03                    | 0.04                   | 2.03                  |
| 11,771.0              | 90.08           | 183.77      | 9,152.4               | -2,643.0     | 830.3        | 2,700.3                 | 1.33                    | -0.50                  | -1.23                 |
| 11,865.0              | 88.47           | 179.27      | 9,153.6               | -2,736.9     | 827.8        | 2,793.7                 | 5.08                    | -1.71                  | -4.79                 |
| 11,958.0              | 86.24           | 175.48      | 9,157.9               | -2,829.7     | 832.1        | 2,886.6                 | 4.72                    | -2.40                  | -4.08                 |
| 12,052.0              | 87.49           | 178.04      | 9,163.0               | -2,923.4     | 837.4        | 2,980.4                 | 3.03                    | 1.33                   | 2.72                  |
| 12,146.0              | 90.34           | 180.24      | 9,164.8               | -3,017.3     | 838.8        | 3,074.2                 | 3.83                    | 3.03                   | 2.34                  |
| 12,240.0              | 90.09           | 181.04      | 9,164.5               | -3,111.3     | 837.8        | 3,167.8                 | 0.89                    | -0.27                  | 0.85                  |
| 12,334.0              | 90.32           | 181.43      | 9,164.1               | -3,205.3     | 835.7        | 3,261.3                 | 0.48                    | 0.24                   | 0.41                  |
| 12,427.0              | 89.73           | 180.81      | 9,164.1               | -3,298.3     | 833.9        | 3,353.9                 | 0.92                    | -0.63                  | -0.67                 |
| 12,521.0              | 91.12           | 182.51      | 9,163.4               | -3,392.2     | 831.2        | 3,447.3                 | 2.34                    | 1.48                   | 1.81                  |
| 12,615.0              | 89.28           | 181.66      | 9,163.1               | -3,486.2     | 827.8        | 3,540.7                 | 2.16                    | -1.96                  | -0.90                 |
| 12,709.0              | 90.43           | 180.95      | 9,163.3               | -3,580.1     | 825.6        | 3,634.2                 | 1.44                    | 1.22                   | -0.76                 |
| 12,803.0              | 90.00           | 181.80      | 9,163.0               | -3,674.1     | 823.4        | 3,727.7                 | 1.01                    | -0.46                  | 0.90                  |
| 12,897.0              | 92.70           | 182.20      | 9,160.7               | -3,768.0     | 820.1        | 3,821.0                 | 2.90                    | 2.87                   | 0.43                  |
| 12,990.0              | 92.21           | 182.09      | 9,156.8               | -3,860.9     | 816.6        | 3,913.3                 | 0.54                    | -0.53                  | -0.12                 |
| 13,084.0              | 92.04           | 179.89      | 9,153.3               | -3,954.8     | 815.0        | 4,006.8                 | 2.35                    | -0.18                  | -2.34                 |
| 13,178.0              | 91.40           | 177.91      | 9,150.5               | -4,048.7     | 816.8        | 4,100.6                 | 2.21                    | -0.68                  | -2.11                 |
| 13,272.0              | 91.99           | 177.90      | 9,147.7               | -4,142.6     | 820.2        | 4,194.5                 | 0.63                    | 0.63                   | -0.01                 |
| 13,366.0              | 92.49           | 176.89      | 9,144.0               | -4,236.4     | 824.5        | 4,288.3                 | 1.20                    | 0.53                   | -1.07                 |
| 13,460.0              | 90.32           | 176.04      | 9,141.7               | -4,330.2     | 830.3        | 4,382.3                 | 2.48                    | -2.31                  | -0.90                 |
| 13,554.0              | 90.26           | 177.59      | 9,141.2               | -4,424.1     | 835.5        | 4,476.3                 | 1.65                    | -0.06                  | 1.65                  |
| 13,647.0              | 88.87           | 178.06      | 9,141.9               | -4,517.0     | 839.0        | 4,569.2                 | 1.58                    | -1.49                  | 0.51                  |
| 13,741.0              | 90.44           | 179.17      | 9,142.5               | -4,611.0     | 841.3        | 4,663.0                 | 2.05                    | 1.67                   | 1.18                  |
| 13,835.0              | 90.21           | 179.20      | 9,142.0               | -4,705.0     | 842.7        | 4,756.8                 | 0.25                    | -0.24                  | 0.03                  |
| 13,929.0              | 92.12           | 179.62      | 9,140.0               | -4,798.9     | 843.6        | 4,850.6                 | 2.08                    | 2.03                   | 0.45                  |
| 14,023.0              | 90.58           | 178.89      | 9,137.8               | -4,892.9     | 844.8        | 4,944.4                 | 1.81                    | -1.64                  | -0.78                 |
| 14,117.0              | 92.76           | 178.52      | 9,135.1               | -4,986.8     | 847.0        | 5,038.2                 | 2.35                    | 2.32                   | -0.39                 |
| 14,211.0              | 92.14           | 177.90      | 9,131.1               | -5,080.7     | 849.9        | 5,132.0                 | 0.93                    | -0.66                  | -0.66                 |
| 14,305.0              | 91.28           | 177.59      | 9,128.3               | -5,174.6     | 853.6        | 5,225.8                 | 0.97                    | -0.91                  | -0.33                 |
| 14,399.0              | 91.88           | 177.70      | 9,125.7               | -5,268.5     | 857.5        | 5,319.7                 | 0.65                    | 0.64                   | 0.12                  |
| 14,492.0              | 89.90           | 178.03      | 9,124.2               | -5,361.4     | 860.9        | 5,412.6                 | 2.16                    | -2.13                  | 0.35                  |
| 14,586.0              | 91.35           | 178.63      | 9,123.2               | -5,455.3     | 863.7        | 5,506.5                 | 1.67                    | 1.54                   | 0.64                  |
| 14,680.0              | 87.87           | 180.00      | 9,123.8               | -5,549.3     | 864.8        | 5,600.3                 | 3.98                    | -3.70                  | 1.46                  |
| 14,774.0              | 87.53           | 180.32      | 9,127.6               | -5,643.2     | 864.5        | 5,693.9                 | 0.50                    | -0.36                  | 0.34                  |
| 14,868.0              | 87.12           | 180.14      | 9,132.0               | -5,737.1     | 864.1        | 5,787.5                 | 0.48                    | -0.44                  | -0.19                 |
| 14,961.0              | 86.66           | 179.88      | 9,137.1               | -5,830.0     | 864.1        | 5,880.0                 | 0.57                    | -0.49                  | -0.28                 |
| 15,055.0              | 87.96           | 181.93      | 9,141.5               | -5,923.9     | 862.6        | 5,973.5                 | 2.58                    | 1.38                   | 2.18                  |
| 15,149.0              | 90.50           | 182.82      | 9,142.7               | -6,017.8     | 858.8        | 6,066.8                 | 2.86                    | 2.70                   | 0.95                  |
| 15,243.0              | 90.10           | 182.44      | 9,142.2               | -6,111.7     | 854.4        | 6,160.1                 | 0.59                    | -0.43                  | -0.40                 |
| 15,337.0              | 93.60           | 183.45      | 9,139.2               | -6,205.5     | 849.6        | 6,253.2                 | 3.88                    | 3.72                   | 1.07                  |
| 15,431.0              | 93.00           | 182.92      | 9,133.8               | -6,299.2     | 844.4        | 6,346.2                 | 0.85                    | -0.64                  | -0.56                 |
| 15,525.0              | 92.55           | 182.44      | 9,129.2               | -6,393.0     | 840.0        | 6,439.3                 | 0.70                    | -0.48                  | -0.51                 |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

| Survey                              |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)               | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 15,618.0                            | 91.92           | 182.45      | 9,125.6               | -6,485.8     | 836.0        | 6,531.6                 | 0.68                    | -0.68                  | 0.01                  |  |
| 15,712.0                            | 90.45           | 181.91      | 9,123.7               | -6,579.7     | 832.5        | 6,624.9                 | 1.67                    | -1.56                  | -0.57                 |  |
| 15,806.0                            | 89.37           | 181.27      | 9,123.8               | -6,673.7     | 829.9        | 6,718.4                 | 1.34                    | -1.15                  | -0.68                 |  |
| 15,900.0                            | 88.74           | 180.98      | 9,125.4               | -6,767.6     | 828.0        | 6,811.9                 | 0.74                    | -0.67                  | -0.31                 |  |
| 15,994.0                            | 87.88           | 180.92      | 9,128.1               | -6,861.6     | 826.5        | 6,905.4                 | 0.92                    | -0.91                  | -0.06                 |  |
| 16,088.0                            | 87.16           | 180.47      | 9,132.2               | -6,955.5     | 825.3        | 6,999.0                 | 0.90                    | -0.77                  | -0.48                 |  |
| 16,181.0                            | 89.08           | 181.52      | 9,135.3               | -7,048.4     | 823.7        | 7,091.5                 | 2.35                    | 2.06                   | 1.13                  |  |
| 16,274.0                            | 89.30           | 181.29      | 9,136.6               | -7,141.4     | 821.4        | 7,184.0                 | 0.34                    | 0.24                   | -0.25                 |  |
| 16,368.0                            | 91.07           | 181.98      | 9,136.3               | -7,235.3     | 818.7        | 7,277.4                 | 2.02                    | 1.88                   | 0.73                  |  |
| 16,462.0                            | 89.60           | 180.69      | 9,135.7               | -7,329.3     | 816.6        | 7,370.9                 | 2.08                    | -1.56                  | -1.37                 |  |
| 16,556.0                            | 90.31           | 180.52      | 9,135.8               | -7,423.3     | 815.6        | 7,464.5                 | 0.78                    | 0.76                   | -0.18                 |  |
| 16,649.0                            | 89.66           | 179.64      | 9,135.8               | -7,516.3     | 815.4        | 7,557.2                 | 1.18                    | -0.70                  | -0.95                 |  |
| 16,744.0                            | 89.04           | 178.75      | 9,136.9               | -7,611.3     | 816.8        | 7,652.0                 | 1.14                    | -0.65                  | -0.94                 |  |
| 16,838.0                            | 90.61           | 179.12      | 9,137.2               | -7,705.3     | 818.5        | 7,745.9                 | 1.72                    | 1.67                   | 0.39                  |  |
| 16,931.0                            | 90.33           | 178.76      | 9,136.4               | -7,798.2     | 820.2        | 7,838.7                 | 0.49                    | -0.30                  | -0.39                 |  |
| 17,025.0                            | 90.73           | 178.98      | 9,135.5               | -7,892.2     | 822.1        | 7,932.5                 | 0.49                    | 0.43                   | 0.23                  |  |
| 17,119.0                            | 90.21           | 178.81      | 9,134.8               | -7,986.2     | 823.9        | 8,026.3                 | 0.58                    | -0.55                  | -0.18                 |  |
| 17,213.0                            | 90.41           | 178.87      | 9,134.3               | -8,080.2     | 825.8        | 8,120.2                 | 0.22                    | 0.21                   | 0.06                  |  |
| 17,307.0                            | 90.05           | 178.66      | 9,133.9               | -8,174.2     | 827.8        | 8,214.0                 | 0.44                    | -0.38                  | -0.22                 |  |
| 17,400.0                            | 90.14           | 179.05      | 9,133.7               | -8,267.1     | 829.7        | 8,306.9                 | 0.43                    | 0.10                   | 0.42                  |  |
| 17,494.0                            | 90.35           | 179.59      | 9,133.3               | -8,361.1     | 830.8        | 8,400.6                 | 0.62                    | 0.22                   | 0.57                  |  |
| 17,588.0                            | 90.17           | 179.62      | 9,132.9               | -8,455.1     | 831.5        | 8,494.4                 | 0.19                    | -0.19                  | 0.03                  |  |
| 17,682.0                            | 89.99           | 179.66      | 9,132.8               | -8,549.1     | 832.0        | 8,588.1                 | 0.20                    | -0.19                  | 0.04                  |  |
| 17,775.0                            | 89.46           | 179.53      | 9,133.2               | -8,642.1     | 832.7        | 8,680.9                 | 0.59                    | -0.57                  | -0.14                 |  |
| 17,869.0                            | 89.20           | 181.18      | 9,134.3               | -8,736.1     | 832.1        | 8,774.6                 | 1.78                    | -0.28                  | 1.76                  |  |
| 17,963.0                            | 89.01           | 181.29      | 9,135.8               | -8,830.1     | 830.1        | 8,868.1                 | 0.23                    | -0.20                  | 0.12                  |  |
| 18,056.0                            | 89.61           | 181.60      | 9,136.9               | -8,923.0     | 827.7        | 8,960.5                 | 0.73                    | 0.65                   | 0.33                  |  |
| 18,150.0                            | 89.16           | 181.33      | 9,137.9               | -9,017.0     | 825.3        | 9,054.0                 | 0.56                    | -0.48                  | -0.29                 |  |
| 18,243.0                            | 89.24           | 181.52      | 9,139.2               | -9,110.0     | 823.0        | 9,146.5                 | 0.22                    | 0.09                   | 0.20                  |  |
| 18,337.0                            | 90.34           | 181.97      | 9,139.6               | -9,203.9     | 820.2        | 9,240.0                 | 1.26                    | 1.17                   | 0.48                  |  |
| 18,431.0                            | 90.10           | 181.63      | 9,139.2               | -9,297.9     | 817.2        | 9,333.4                 | 0.44                    | -0.26                  | -0.36                 |  |
| 18,524.0                            | 89.52           | 181.08      | 9,139.5               | -9,390.8     | 815.0        | 9,425.9                 | 0.86                    | -0.62                  | -0.59                 |  |
| 18,618.0                            | 91.48           | 181.77      | 9,138.7               | -9,484.8     | 812.7        | 9,519.4                 | 2.21                    | 2.09                   | 0.73                  |  |
| 18,712.0                            | 91.35           | 181.65      | 9,136.4               | -9,578.7     | 809.9        | 9,612.8                 | 0.19                    | -0.14                  | -0.13                 |  |
| 18,806.0                            | 91.32           | 181.51      | 9,134.2               | -9,672.7     | 807.3        | 9,706.2                 | 0.15                    | -0.03                  | -0.15                 |  |
| 18,900.0                            | 92.46           | 182.20      | 9,131.1               | -9,766.6     | 804.2        | 9,799.6                 | 1.42                    | 1.21                   | 0.73                  |  |
| 18,994.0                            | 90.98           | 182.16      | 9,128.3               | -9,860.5     | 800.7        | 9,892.9                 | 1.58                    | -1.57                  | -0.04                 |  |
| 19,085.8                            | 90.78           | 181.90      | 9,126.8               | -9,952.2     | 797.4        | 9,984.1                 | 0.36                    | -0.21                  | -0.29                 |  |
| LTP @ 19085.8'MD / 9126.8'TVD       |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 19,088.0                            | 90.78           | 181.89      | 9,126.8               | -9,954.4     | 797.3        | 9,986.3                 | 0.36                    | -0.21                  | -0.29                 |  |
| 19,142.0                            | 90.94           | 182.09      | 9,126.0               | -10,008.4    | 795.5        | 10,039.9                | 0.47                    | 0.30                   | 0.37                  |  |
| FINAL MWD SVY @ 19142'MD / 9126'TVD |                 |             |                       |              |              |                         |                         |                        |                       |  |

# Survey Report

|                  |                         |                                     |                                               |
|------------------|-------------------------|-------------------------------------|-----------------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN | <b>Local Co-ordinate Reference:</b> | Well MYOX 31 STATE COM #601H                  |
| <b>Project:</b>  | EDDY COUNTY, NM         | <b>TVD Reference:</b>               | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Site:</b>     | ATLAS                   | <b>MD Reference:</b>                | RKB = 3013' + 27' @ 3040.0usft (SCAN FREEDOM) |
| <b>Well:</b>     | MYOX 31 STATE COM #601H | <b>North Reference:</b>             | Grid                                          |
| <b>Wellbore:</b> | OWB                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                             |
| <b>Design:</b>   | AWP                     | <b>Database:</b>                    | EDM_Users                                     |

## 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) |
|------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 19,209.0                     | 90.94           | 182.09      | 9,124.9               | -10,075.3    | 793.0        | 10,106.5                | 0.00                    | 0.00                   | 0.00                  |
| PTD @ 192109'MD / 9124.9'TVD |                 |             |                       |              |              |                         |                         |                        |                       |

## Design Targets

| Target Name                                                                                                                                                              | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|
| T1 (MYOX 31 STATE<br>- hit/miss target<br>- Shape                                                                                                                        | 2.25          | 0.33         | 9,137.0    | -4,147.3     | 833.2        | 393,303.84      | 566,532.45     | 32° 4' 52.053 N | 104° 7' 6.671 W |
| - actual wellpath misses target center by 16.6usft at 13277.6usft MD (9147.5 TVD, -4148.2 N, 820.4 E)<br>- Rectangle (sides W100.0 H752.5 D20.0)                         |               |              |            |              |              |                 |                |                 |                 |
| LTP (MYOX 31 STATE<br>- actual wellpath misses target center by 10.2usft at 19079.3usft MD (9126.9 TVD, -9945.7 N, 797.6 E)<br>- Point                                   | 0.00          | 0.00         | 9,137.0    | -9,945.9     | 799.1        | 387,505.20      | 566,498.30     | 32° 3' 54.667 N | 104° 7' 7.202 W |
| PBHL (MYOX 31 STA<br>- actual wellpath misses target center by 13.4usft at 19209.0usft MD (9124.9 TVD, -10075.3 N, 793.0 E)<br>- Rectangle (sides W100.0 H5,907.4 D20.0) | -0.02         | 0.33         | 9,137.0    | -10,075.8    | 798.8        | 387,375.30      | 566,498.00     | 32° 3' 53.382 N | 104° 7' 7.208 W |
| PLAN 2 WNDW (MYC<br>- actual wellpath misses target center by 7.9usft at 12520.5usft MD (9163.4 TVD, -3391.7 N, 831.2 E)<br>- Rectangle (sides W100.0 H3,347.0 D20.0)    | 0.05          | 0.33         | 9,158.8    | -3,391.9     | 837.6        | 394,059.23      | 566,536.84     | 32° 4' 59.529 N | 104° 7' 6.603 W |
| FTP (MYOX 31 STATI<br>- actual wellpath misses target center by 261.7usft at 9340.1usft MD (9107.6 TVD, -251.8 N, 641.5 E)<br>- Circle (radius 50.0)                     | 0.00          | 0.00         | 9,163.0    | -116.9       | 858.7        | 397,334.20      | 566,557.90     | 32° 5' 31.939 N | 104° 7' 6.282 W |

## Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates +N/-S (usft) | +E/-W (usft) | Comment                              |
|-----------------------|-----------------------|--------------------------------|--------------|--------------------------------------|
| 8,502.0               | 8,482.8               | 155.1                          | 433.0        | First MWD SVY @ 8502'MD / 8482.8'TVD |
| 9,167.1               | 9,040.1               | -112.4                         | 565.7        | FTP @ 9167.1'MD / 9040.1'TVD         |
| 19,085.8              | 9,126.8               | -9,952.2                       | 797.4        | LTP @ 19085.8'MD / 9126.8'TVD        |
| 19,142.0              | 9,126.0               | -10,008.4                      | 795.5        | FINAL MWD SVY @ 19142'MD / 9126'TVD  |
| 19,209.0              | 9,124.9               | -10,075.3                      | 793.0        | PTD @ 192109'MD / 9124.9'TVD         |

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