

District I  
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District II  
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District III  
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District IV  
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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

EMNRD-OCD ARTESIA  
REC'D: 8/05/2020  
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT  
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                             |                                                        |
|------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-015-46381</b> | <sup>2</sup> Pool Code<br><b>98220</b>                      | <sup>3</sup> Pool Name<br><b>Purple Sage; Wolfcamp</b> |
| <sup>4</sup> Property Code<br><b>38476</b>     | <sup>5</sup> Property Name<br><b>HONEY GRAHAM STATE COM</b> | <sup>6</sup> Well Number<br><b>701H</b>                |
| <sup>7</sup> OGRID NO.<br><b>229137</b>        | <sup>8</sup> Operator Name<br><b>COG OPERATING, LLC</b>     | <sup>9</sup> Elevation<br><b>3064'</b>                 |

<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      |
|---------------|-----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>A</b>      | <b>20</b> | <b>26S</b> | <b>28E</b> |         | <b>320</b>    | <b>NORTH</b>     | <b>745</b>    | <b>EAST</b>    | <b>EDDY</b> |

<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      |
|---------------|-----------|------------|------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>4</b>      | <b>32</b> | <b>26S</b> | <b>28E</b> |         | <b>201</b>    | <b>SOUTH</b>     | <b>592</b>    | <b>EAST</b>    | <b>EDDY</b> |

|                                                |                               |                                  |                         |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>767.57</b> | <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.

**16**

**GEODETIC DATA**  
NAD 83 GRID - NM EAST

**SURFACE LOCATION (SL)**  
N: 376326.2 - E: 612583.2  
LAT: 32.0343923° N  
LONG: 104.1034140° W  
LAT: 32°02'03.8122" N  
LONG: 104°06'12.2906" W

**KICK OFF POINT (KOP)**  
123'-FNL/593'-FEL (Sec.20)  
N: 376522.2 - E: 612735.5  
LAT: 32.0349302° N  
LONG: 104.1029213° W  
LAT: 32°02'05.7488" N  
LONG: 104°06'10.5166" W  
MD=8,800.0/TVD=8,799.5

**FIRST TAKE POINT (FTP)**  
580'-FNL/596'-FEL (Sec.20)  
N: 376065.0 - E: 612732.8  
LAT: 32.0336734° N  
LONG: 104.1029331° W  
LAT: 32°02'01.2241" N  
LONG: 104°06'10.5591" W  
MD=9,550.0/TVD=9,324.8

**LAST TAKE POINT (LTP)**  
465'-FSL/592'-FEL (Sec.32)  
N: 364264.4 - E: 612755.9  
LAT: 32.0012336° N  
LONG: 104.1029396° W  
LAT: 32°00'04.4408" N  
LONG: 104°06'10.5828" W  
MD=21,364.0/TVD=9,310.1

**BOTTOM HOLE (BH)**  
N: 364000.2 - E: 612755.6  
LAT: 32.0005075° N  
LONG: 104.1029425° W  
LAT: 32°00'01.8269" N  
LONG: 104°06'10.5929" W  
MD=21,629.0/TVD=9,325.9

**CORNER DATA**  
NAD 83 GRID - NM EAST

|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| A: FOUND BRASS CAP "1995"<br>N: 363793.5 - E: 608039.5 | I: FOUND BRASS CAP "1995"<br>N: 366056.4 - E: 613343.5 |
| B: FOUND BRASS CAP "1995"<br>N: 366121.4 - E: 608035.0 | J: FOUND BRASS CAP "1995"<br>N: 364641.9 - E: 613346.6 |
| C: FOUND BRASS CAP "1995"<br>N: 368761.0 - E: 608041.8 | K: FOUND BRASS CAP "1995"<br>N: 363800.2 - E: 613348.4 |
| D: FOUND BRASS CAP "1995"<br>N: 371399.9 - E: 608048.9 | L: FOUND BRASS CAP "1995"<br>N: 363796.6 - E: 610675.9 |
| E: CALCULATED CORNER<br>N: 376678.5 - E: 608036.7      | M: FOUND BRASS CAP "1995"<br>N: 366045.1 - E: 610671.1 |
| F: FOUND BRASS CAP "1995"<br>N: 376640.9 - E: 613327.9 | N: FOUND BRASS CAP "1995"<br>N: 371370.8 - E: 610691.8 |
| G: FOUND BRASS CAP "1995"<br>N: 373994.4 - E: 613329.1 |                                                        |
| H: FOUND BRASS CAP "1995"<br>N: 371341.8 - E: 613334.8 |                                                        |

**CALCULATED POINTS**

|                              |  |
|------------------------------|--|
| 1: N: 376650.3 - E: 612005.1 |  |
| 2: N: 371356.3 - E: 612013.3 |  |
| 3: N: 366050.8 - E: 612007.3 |  |
| 4: N: 363798.4 - E: 612012.2 |  |

**17 OPERATOR CERTIFICATION**  
*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.*

**Amanda Avery** 7/29/20  
Signature Date  
**Amanda Avery**  
Printed Name  
**aavery@concho.com**  
E-mail Address

**18 SURVEYOR CERTIFICATION**  
*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.*

**09-06-2019**  
Date of Survey  
Signature and Seal of Professional Surveyor  
**19680**  
Certificate Number  
REV: 6/16/20 AS-DRILL

Job No.: LS19090863AD

# **NORTHERN DELAWARE BASIN**

**EDDY COUNTY, NM**

**ATLAS**

**HONEY GRAHAM STATE COM #701H**

**OWB**

**Design: AWP**

## **Standard Survey Report**

**05 December, 2019**

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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 °           |

|                             |                              |                            |                                  |
|-----------------------------|------------------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | HONEY GRAHAM STATE COM #701H |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>                 | 0.0 usft                   | <b>Northing:</b> 376,269.00 usft |
|                             | <b>+E/-W</b>                 | 0.0 usft                   | <b>Easting:</b> 571,398.50 usft  |
| <b>Position Uncertainty</b> | 3.0 usft                     | <b>Wellhead Elevation:</b> | usft                             |
|                             |                              | <b>Latitude:</b>           | 32° 2' 3.367 N                   |
|                             |                              | <b>Longitude:</b>          | 104° 6' 10.534 W                 |
|                             |                              | <b>Ground Level:</b>       | 3,064.0 usft                     |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | OWB               |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | IGRF2015          | 10/31/2019         | 6.93                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 59.77                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 47,528.72840699            |

|                          |                                |                      |                      |
|--------------------------|--------------------------------|----------------------|----------------------|
| <b>Design</b>            | AWP                            |                      |                      |
| <b>Audit Notes:</b>      |                                |                      |                      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>        | ACTUAL               |
|                          |                                | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>  | <b>+E/-W (usft)</b>  |
|                          | 0.0                            | 0.0                  | 0.0                  |
|                          |                                |                      | <b>Direction (°)</b> |
|                          |                                |                      | 179.00               |

|                       |                  |                          |                     |                                    |
|-----------------------|------------------|--------------------------|---------------------|------------------------------------|
| <b>Survey Program</b> | <b>Date</b>      | 12/5/2019                |                     |                                    |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Description</b>                 |
| 100.0                 | 8,560.0          | GYROS-INTERMEDIATE (OWB) | Standard Keeper 104 | Standard Wireline Keeper ver 1.0.4 |
| 8,674.0               | 21,629.0         | MWD-CURVE/LATERAL (OWB)  | MWD+IFR1+FDIR       | OWSG MWD + IFR1 + FDIR Correction  |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <b>Survey</b>                |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |  |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                 | 0.0                 | 0.0                            | 0.00                           | 0.00                          | 0.00                         |  |
| 100.0                        | 1.08                   | 102.86             | 100.0                        | -0.2                | 0.9                 | 0.2                            | 1.08                           | 1.08                          | 0.00                         |  |
| 125.0                        | 1.05                   | 98.09              | 125.0                        | -0.3                | 1.4                 | 0.3                            | 0.37                           | -0.12                         | -19.08                       |  |
| 150.0                        | 1.10                   | 97.78              | 150.0                        | -0.4                | 1.8                 | 0.4                            | 0.20                           | 0.20                          | -1.24                        |  |
| 175.0                        | 1.18                   | 85.75              | 175.0                        | -0.4                | 2.3                 | 0.4                            | 1.01                           | 0.32                          | -48.12                       |  |
| 200.0                        | 1.20                   | 86.78              | 200.0                        | -0.3                | 2.9                 | 0.4                            | 0.12                           | 0.08                          | 4.12                         |  |
| 225.0                        | 1.20                   | 85.93              | 225.0                        | -0.3                | 3.4                 | 0.4                            | 0.07                           | 0.00                          | -3.40                        |  |
| 250.0                        | 1.27                   | 82.76              | 250.0                        | -0.3                | 3.9                 | 0.3                            | 0.39                           | 0.28                          | -12.68                       |  |
| 275.0                        | 1.28                   | 81.98              | 275.0                        | -0.2                | 4.5                 | 0.3                            | 0.08                           | 0.04                          | -3.12                        |  |
| 300.0                        | 1.34                   | 81.44              | 300.0                        | -0.1                | 5.0                 | 0.2                            | 0.25                           | 0.24                          | -2.16                        |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |
| 325.0                 | 1.40            | 79.47       | 324.9                 | 0.0          | 5.6          | 0.1                     | 0.31                    | 0.24                   | -7.88                 |
| 350.0                 | 1.38            | 79.19       | 349.9                 | 0.1          | 6.2          | 0.0                     | 0.08                    | -0.08                  | -1.12                 |
| 375.0                 | 1.40            | 80.12       | 374.9                 | 0.2          | 6.8          | -0.1                    | 0.12                    | 0.08                   | 3.72                  |
| 400.0                 | 1.54            | 80.74       | 399.9                 | 0.3          | 7.4          | -0.2                    | 0.56                    | 0.56                   | 2.48                  |
| 425.0                 | 1.66            | 82.54       | 424.9                 | 0.4          | 8.1          | -0.3                    | 0.52                    | 0.48                   | 7.20                  |
| 450.0                 | 1.69            | 81.20       | 449.9                 | 0.5          | 8.9          | -0.4                    | 0.20                    | 0.12                   | -5.36                 |
| 475.0                 | 1.76            | 81.44       | 474.9                 | 0.6          | 9.6          | -0.5                    | 0.28                    | 0.28                   | 0.96                  |
| 500.0                 | 1.87            | 77.86       | 499.9                 | 0.8          | 10.4         | -0.6                    | 0.63                    | 0.44                   | -14.32                |
| 525.0                 | 1.92            | 76.13       | 524.9                 | 1.0          | 11.2         | -0.8                    | 0.30                    | 0.20                   | -6.92                 |
| 550.0                 | 2.10            | 74.26       | 549.8                 | 1.2          | 12.0         | -1.0                    | 0.77                    | 0.72                   | -7.48                 |
| 575.0                 | 2.14            | 74.04       | 574.8                 | 1.5          | 12.9         | -1.2                    | 0.16                    | 0.16                   | -0.88                 |
| 600.0                 | 2.14            | 73.65       | 599.8                 | 1.7          | 13.8         | -1.5                    | 0.06                    | 0.00                   | -1.56                 |
| 625.0                 | 2.17            | 72.29       | 624.8                 | 2.0          | 14.7         | -1.7                    | 0.24                    | 0.12                   | -5.44                 |
| 650.0                 | 2.21            | 72.46       | 649.8                 | 2.3          | 15.6         | -2.0                    | 0.16                    | 0.16                   | 0.68                  |
| 675.0                 | 2.29            | 72.52       | 674.8                 | 2.6          | 16.6         | -2.3                    | 0.32                    | 0.32                   | 0.24                  |
| 700.0                 | 2.37            | 70.38       | 699.7                 | 2.9          | 17.5         | -2.6                    | 0.47                    | 0.32                   | -8.56                 |
| 725.0                 | 2.45            | 71.22       | 724.7                 | 3.2          | 18.5         | -2.9                    | 0.35                    | 0.32                   | 3.36                  |
| 750.0                 | 2.62            | 70.09       | 749.7                 | 3.6          | 19.6         | -3.3                    | 0.71                    | 0.68                   | -4.52                 |
| 775.0                 | 2.79            | 69.76       | 774.7                 | 4.0          | 20.7         | -3.7                    | 0.68                    | 0.68                   | -1.32                 |
| 800.0                 | 2.96            | 70.31       | 799.6                 | 4.4          | 21.8         | -4.1                    | 0.69                    | 0.68                   | 2.20                  |
| 825.0                 | 3.14            | 69.68       | 824.6                 | 4.9          | 23.1         | -4.5                    | 0.73                    | 0.72                   | -2.52                 |
| 850.0                 | 3.30            | 69.79       | 849.6                 | 5.4          | 24.4         | -5.0                    | 0.64                    | 0.64                   | 0.44                  |
| 875.0                 | 3.60            | 69.81       | 874.5                 | 5.9          | 25.8         | -5.5                    | 1.20                    | 1.20                   | 0.08                  |
| 900.0                 | 3.78            | 71.50       | 899.5                 | 6.4          | 27.3         | -6.0                    | 0.84                    | 0.72                   | 6.76                  |
| 925.0                 | 4.00            | 71.48       | 924.4                 | 7.0          | 29.0         | -6.5                    | 0.88                    | 0.88                   | -0.08                 |
| 950.0                 | 4.13            | 72.78       | 949.3                 | 7.5          | 30.6         | -7.0                    | 0.64                    | 0.52                   | 5.20                  |
| 975.0                 | 4.24            | 74.86       | 974.3                 | 8.0          | 32.4         | -7.5                    | 0.75                    | 0.44                   | 8.32                  |
| 1,000.0               | 4.71            | 74.51       | 999.2                 | 8.5          | 34.3         | -7.9                    | 1.88                    | 1.88                   | -1.40                 |
| 1,025.0               | 5.60            | 74.49       | 1,024.1               | 9.1          | 36.4         | -8.5                    | 3.56                    | 3.56                   | -0.08                 |
| 1,050.0               | 6.58            | 74.74       | 1,049.0               | 9.8          | 39.0         | -9.2                    | 3.92                    | 3.92                   | 1.00                  |
| 1,075.0               | 7.27            | 73.69       | 1,073.8               | 10.7         | 41.9         | -9.9                    | 2.81                    | 2.76                   | -4.20                 |
| 1,100.0               | 7.83            | 72.57       | 1,098.6               | 11.6         | 45.0         | -10.8                   | 2.32                    | 2.24                   | -4.48                 |
| 1,125.0               | 8.43            | 68.01       | 1,123.3               | 12.8         | 48.4         | -12.0                   | 3.52                    | 2.40                   | -18.24                |
| 1,150.0               | 9.09            | 64.00       | 1,148.0               | 14.4         | 51.8         | -13.5                   | 3.60                    | 2.64                   | -16.04                |
| 1,175.0               | 9.39            | 62.83       | 1,172.7               | 16.2         | 55.4         | -15.2                   | 1.42                    | 1.20                   | -4.68                 |
| 1,200.0               | 9.43            | 62.63       | 1,197.4               | 18.0         | 59.1         | -17.0                   | 0.21                    | 0.16                   | -0.80                 |
| 1,225.0               | 9.06            | 57.94       | 1,222.0               | 20.0         | 62.5         | -18.9                   | 3.36                    | -1.48                  | -18.76                |
| 1,250.0               | 9.01            | 54.85       | 1,246.7               | 22.2         | 65.8         | -21.0                   | 1.95                    | -0.20                  | -12.36                |
| 1,275.0               | 8.68            | 52.22       | 1,271.4               | 24.5         | 68.9         | -23.3                   | 2.09                    | -1.32                  | -10.52                |
| 1,300.0               | 8.38            | 48.37       | 1,296.1               | 26.8         | 71.8         | -25.6                   | 2.58                    | -1.20                  | -15.40                |
| 1,325.0               | 7.62            | 38.86       | 1,320.9               | 29.3         | 74.2         | -28.1                   | 6.09                    | -3.04                  | -38.04                |
| 1,350.0               | 7.14            | 34.51       | 1,345.7               | 31.9         | 76.1         | -30.6                   | 2.95                    | -1.92                  | -17.40                |
| 1,375.0               | 6.56            | 28.93       | 1,370.5               | 34.4         | 77.7         | -33.1                   | 3.53                    | -2.32                  | -22.32                |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |  |
| 1,400.0               | 6.27            | 23.50       | 1,395.4               | 37.0         | 78.9         | -35.6                   | 2.69                    | -1.16                  | -21.72                |  |
| 1,425.0               | 5.96            | 19.48       | 1,420.2               | 39.4         | 79.9         | -38.0                   | 2.11                    | -1.24                  | -16.08                |  |
| 1,450.0               | 5.73            | 16.30       | 1,445.1               | 41.8         | 80.6         | -40.4                   | 1.59                    | -0.92                  | -12.72                |  |
| 1,475.0               | 5.68            | 16.39       | 1,470.0               | 44.2         | 81.3         | -42.8                   | 0.20                    | -0.20                  | 0.36                  |  |
| 1,500.0               | 5.58            | 16.62       | 1,494.8               | 46.6         | 82.0         | -45.1                   | 0.41                    | -0.40                  | 0.92                  |  |
| 1,525.0               | 5.73            | 16.46       | 1,519.7               | 48.9         | 82.7         | -47.5                   | 0.60                    | 0.60                   | -0.64                 |  |
| 1,550.0               | 5.61            | 15.46       | 1,544.6               | 51.3         | 83.4         | -49.9                   | 0.62                    | -0.48                  | -4.00                 |  |
| 1,575.0               | 5.28            | 16.23       | 1,569.5               | 53.6         | 84.1         | -52.1                   | 1.35                    | -1.32                  | 3.08                  |  |
| 1,600.0               | 4.99            | 16.46       | 1,594.4               | 55.7         | 84.7         | -54.3                   | 1.16                    | -1.16                  | 0.92                  |  |
| 1,625.0               | 5.06            | 17.56       | 1,619.3               | 57.8         | 85.3         | -56.3                   | 0.48                    | 0.28                   | 4.40                  |  |
| 1,650.0               | 4.98            | 17.69       | 1,644.2               | 59.9         | 86.0         | -58.4                   | 0.32                    | -0.32                  | 0.52                  |  |
| 1,675.0               | 4.89            | 18.45       | 1,669.1               | 62.0         | 86.7         | -60.5                   | 0.44                    | -0.36                  | 3.04                  |  |
| 1,700.0               | 4.80            | 19.52       | 1,694.0               | 64.0         | 87.4         | -62.4                   | 0.51                    | -0.36                  | 4.28                  |  |
| 1,725.0               | 4.48            | 22.33       | 1,718.9               | 65.9         | 88.1         | -64.3                   | 1.57                    | -1.28                  | 11.24                 |  |
| 1,750.0               | 4.36            | 22.87       | 1,743.9               | 67.6         | 88.8         | -66.1                   | 0.51                    | -0.48                  | 2.16                  |  |
| 1,775.0               | 4.36            | 23.33       | 1,768.8               | 69.4         | 89.6         | -67.8                   | 0.14                    | 0.00                   | 1.84                  |  |
| 1,800.0               | 4.25            | 24.92       | 1,793.7               | 71.1         | 90.3         | -69.5                   | 0.65                    | -0.44                  | 6.36                  |  |
| 1,825.0               | 4.29            | 24.53       | 1,818.6               | 72.8         | 91.1         | -71.2                   | 0.20                    | 0.16                   | -1.56                 |  |
| 1,850.0               | 4.22            | 25.17       | 1,843.6               | 74.5         | 91.9         | -72.9                   | 0.34                    | -0.28                  | 2.56                  |  |
| 1,875.0               | 4.27            | 26.04       | 1,868.5               | 76.1         | 92.7         | -74.5                   | 0.33                    | 0.20                   | 3.48                  |  |
| 1,900.0               | 4.33            | 25.44       | 1,893.4               | 77.8         | 93.5         | -76.2                   | 0.30                    | 0.24                   | -2.40                 |  |
| 1,925.0               | 4.15            | 26.20       | 1,918.4               | 79.5         | 94.3         | -77.8                   | 0.75                    | -0.72                  | 3.04                  |  |
| 1,950.0               | 4.27            | 26.36       | 1,943.3               | 81.1         | 95.1         | -79.5                   | 0.48                    | 0.48                   | 0.64                  |  |
| 1,975.0               | 4.18            | 26.41       | 1,968.2               | 82.8         | 95.9         | -81.1                   | 0.36                    | -0.36                  | 0.20                  |  |
| 2,000.0               | 4.20            | 26.01       | 1,993.2               | 84.4         | 96.7         | -82.7                   | 0.14                    | 0.08                   | -1.60                 |  |
| 2,025.0               | 3.88            | 25.95       | 2,018.1               | 86.0         | 97.5         | -84.3                   | 1.28                    | -1.28                  | -0.24                 |  |
| 2,050.0               | 3.39            | 25.99       | 2,043.1               | 87.4         | 98.2         | -85.7                   | 1.96                    | -1.96                  | 0.16                  |  |
| 2,075.0               | 3.19            | 26.71       | 2,068.0               | 88.7         | 98.8         | -87.0                   | 0.82                    | -0.80                  | 2.88                  |  |
| 2,100.0               | 3.06            | 27.20       | 2,093.0               | 89.9         | 99.5         | -88.2                   | 0.53                    | -0.52                  | 1.96                  |  |
| 2,125.0               | 3.11            | 27.04       | 2,117.9               | 91.1         | 100.1        | -89.4                   | 0.20                    | 0.20                   | -0.64                 |  |
| 2,150.0               | 3.08            | 29.41       | 2,142.9               | 92.3         | 100.7        | -90.6                   | 0.53                    | -0.12                  | 9.48                  |  |
| 2,175.0               | 2.98            | 36.21       | 2,167.9               | 93.4         | 101.4        | -91.7                   | 1.49                    | -0.40                  | 27.20                 |  |
| 2,200.0               | 3.07            | 41.14       | 2,192.8               | 94.5         | 102.3        | -92.7                   | 1.10                    | 0.36                   | 19.72                 |  |
| 2,225.0               | 3.13            | 42.69       | 2,217.8               | 95.5         | 103.2        | -93.7                   | 0.41                    | 0.24                   | 6.20                  |  |
| 2,250.0               | 3.19            | 44.09       | 2,242.8               | 96.5         | 104.1        | -94.6                   | 0.39                    | 0.24                   | 5.60                  |  |
| 2,275.0               | 3.19            | 45.96       | 2,267.7               | 97.5         | 105.1        | -95.6                   | 0.42                    | 0.00                   | 7.48                  |  |
| 2,300.0               | 3.27            | 46.78       | 2,292.7               | 98.4         | 106.1        | -96.6                   | 0.37                    | 0.32                   | 3.28                  |  |
| 2,325.0               | 2.48            | 42.83       | 2,317.6               | 99.3         | 107.0        | -97.4                   | 3.26                    | -3.16                  | -15.80                |  |
| 2,350.0               | 1.34            | 30.28       | 2,342.6               | 100.0        | 107.5        | -98.1                   | 4.83                    | -4.56                  | -50.20                |  |
| 2,375.0               | 1.03            | 9.24        | 2,367.6               | 100.4        | 107.7        | -98.5                   | 2.12                    | -1.24                  | -84.16                |  |
| 2,400.0               | 0.79            | 341.49      | 2,392.6               | 100.8        | 107.7        | -98.9                   | 1.98                    | -0.96                  | -111.00               |  |
| 2,425.0               | 0.73            | 331.98      | 2,417.6               | 101.1        | 107.5        | -99.2                   | 0.56                    | -0.24                  | -38.04                |  |
| 2,450.0               | 0.72            | 326.53      | 2,442.6               | 101.4        | 107.4        | -99.5                   | 0.28                    | -0.04                  | -21.80                |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |  |
| 2,475.0               | 0.70            | 328.84      | 2,467.6               | 101.7        | 107.2        | -99.8                   | 0.14                    | -0.08                  | 9.24                  |  |
| 2,500.0               | 0.75            | 328.04      | 2,492.6               | 101.9        | 107.1        | -100.0                  | 0.20                    | 0.20                   | -3.20                 |  |
| 2,525.0               | 0.71            | 326.81      | 2,517.6               | 102.2        | 106.9        | -100.3                  | 0.17                    | -0.16                  | -4.92                 |  |
| 2,550.0               | 0.68            | 322.06      | 2,542.6               | 102.4        | 106.7        | -100.6                  | 0.26                    | -0.12                  | -19.00                |  |
| 2,575.0               | 0.63            | 318.65      | 2,567.6               | 102.7        | 106.5        | -100.8                  | 0.25                    | -0.20                  | -13.64                |  |
| 2,600.0               | 0.70            | 319.65      | 2,592.6               | 102.9        | 106.3        | -101.0                  | 0.28                    | 0.28                   | 4.00                  |  |
| 2,625.0               | 0.67            | 323.65      | 2,617.6               | 103.1        | 106.1        | -101.2                  | 0.23                    | -0.12                  | 16.00                 |  |
| 2,650.0               | 0.74            | 321.63      | 2,642.6               | 103.4        | 106.0        | -101.5                  | 0.30                    | 0.28                   | -8.08                 |  |
| 2,675.0               | 0.70            | 318.82      | 2,667.6               | 103.6        | 105.8        | -101.7                  | 0.21                    | -0.16                  | -11.24                |  |
| 2,700.0               | 0.73            | 319.09      | 2,692.6               | 103.8        | 105.6        | -102.0                  | 0.12                    | 0.12                   | 1.08                  |  |
| 2,725.0               | 0.73            | 316.90      | 2,717.6               | 104.1        | 105.3        | -102.2                  | 0.11                    | 0.00                   | -8.76                 |  |
| 2,750.0               | 0.70            | 318.98      | 2,742.6               | 104.3        | 105.1        | -102.5                  | 0.16                    | -0.12                  | 8.32                  |  |
| 2,775.0               | 0.78            | 316.15      | 2,767.6               | 104.5        | 104.9        | -102.7                  | 0.35                    | 0.32                   | -11.32                |  |
| 2,800.0               | 0.66            | 309.49      | 2,792.6               | 104.8        | 104.7        | -102.9                  | 0.58                    | -0.48                  | -26.64                |  |
| 2,825.0               | 0.75            | 317.89      | 2,817.6               | 105.0        | 104.5        | -103.1                  | 0.55                    | 0.36                   | 33.60                 |  |
| 2,850.0               | 0.73            | 316.96      | 2,842.6               | 105.2        | 104.2        | -103.4                  | 0.09                    | -0.08                  | -3.72                 |  |
| 2,875.0               | 0.72            | 316.37      | 2,867.6               | 105.4        | 104.0        | -103.6                  | 0.05                    | -0.04                  | -2.36                 |  |
| 2,900.0               | 0.74            | 313.30      | 2,892.6               | 105.7        | 103.8        | -103.8                  | 0.18                    | 0.08                   | -12.28                |  |
| 2,925.0               | 0.72            | 310.03      | 2,917.6               | 105.9        | 103.6        | -104.1                  | 0.18                    | -0.08                  | -13.08                |  |
| 2,950.0               | 0.73            | 315.82      | 2,942.6               | 106.1        | 103.3        | -104.3                  | 0.30                    | 0.04                   | 23.16                 |  |
| 2,975.0               | 0.84            | 333.40      | 2,967.6               | 106.4        | 103.1        | -104.6                  | 1.05                    | 0.44                   | 70.32                 |  |
| 3,000.0               | 1.18            | 357.69      | 2,992.6               | 106.8        | 103.1        | -105.0                  | 2.16                    | 1.36                   | 97.16                 |  |
| 3,025.0               | 1.33            | 354.02      | 3,017.6               | 107.3        | 103.0        | -105.5                  | 0.68                    | 0.60                   | -14.68                |  |
| 3,050.0               | 1.32            | 4.89        | 3,042.6               | 107.9        | 103.0        | -106.1                  | 1.00                    | -0.04                  | 43.48                 |  |
| 3,075.0               | 1.36            | 2.56        | 3,067.6               | 108.5        | 103.0        | -106.7                  | 0.27                    | 0.16                   | -9.32                 |  |
| 3,100.0               | 1.39            | 3.85        | 3,092.5               | 109.1        | 103.1        | -107.3                  | 0.17                    | 0.12                   | 5.16                  |  |
| 3,125.0               | 1.40            | 2.92        | 3,117.5               | 109.7        | 103.1        | -107.9                  | 0.10                    | 0.04                   | -3.72                 |  |
| 3,150.0               | 1.45            | 2.98        | 3,142.5               | 110.3        | 103.1        | -108.5                  | 0.20                    | 0.20                   | 0.24                  |  |
| 3,175.0               | 1.39            | 4.23        | 3,167.5               | 110.9        | 103.2        | -109.1                  | 0.27                    | -0.24                  | 5.00                  |  |
| 3,200.0               | 1.45            | 4.39        | 3,192.5               | 111.6        | 103.2        | -109.7                  | 0.24                    | 0.24                   | 0.64                  |  |
| 3,225.0               | 1.45            | 7.20        | 3,217.5               | 112.2        | 103.3        | -110.4                  | 0.28                    | 0.00                   | 11.24                 |  |
| 3,250.0               | 1.37            | 3.80        | 3,242.5               | 112.8        | 103.4        | -111.0                  | 0.46                    | -0.32                  | -13.60                |  |
| 3,275.0               | 1.41            | 4.37        | 3,267.5               | 113.4        | 103.4        | -111.6                  | 0.17                    | 0.16                   | 2.28                  |  |
| 3,300.0               | 1.44            | 4.43        | 3,292.5               | 114.0        | 103.4        | -112.2                  | 0.12                    | 0.12                   | 0.24                  |  |
| 3,325.0               | 1.43            | 359.92      | 3,317.5               | 114.6        | 103.5        | -112.8                  | 0.45                    | -0.04                  | -18.04                |  |
| 3,350.0               | 1.39            | 2.45        | 3,342.5               | 115.3        | 103.5        | -113.4                  | 0.30                    | -0.16                  | 10.12                 |  |
| 3,375.0               | 1.41            | 358.68      | 3,367.5               | 115.9        | 103.5        | -114.1                  | 0.38                    | 0.08                   | -15.08                |  |
| 3,400.0               | 1.45            | 359.00      | 3,392.5               | 116.5        | 103.5        | -114.7                  | 0.16                    | 0.16                   | 1.28                  |  |
| 3,425.0               | 1.43            | 2.68        | 3,417.4               | 117.1        | 103.5        | -115.3                  | 0.38                    | -0.08                  | 14.72                 |  |
| 3,450.0               | 1.43            | 0.66        | 3,442.4               | 117.7        | 103.5        | -115.9                  | 0.20                    | 0.00                   | -8.08                 |  |
| 3,475.0               | 1.47            | 0.23        | 3,467.4               | 118.4        | 103.5        | -116.6                  | 0.17                    | 0.16                   | -1.72                 |  |
| 3,500.0               | 1.46            | 358.48      | 3,492.4               | 119.0        | 103.5        | -117.2                  | 0.18                    | -0.04                  | -7.00                 |  |
| 3,525.0               | 1.49            | 357.86      | 3,517.4               | 119.7        | 103.5        | -117.8                  | 0.14                    | 0.12                   | -2.48                 |  |
| 3,550.0               | 1.53            | 358.48      | 3,542.4               | 120.3        | 103.5        | -118.5                  | 0.17                    | 0.16                   | 2.48                  |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |
| 3,575.0               | 1.50            | 357.30      | 3,567.4               | 121.0        | 103.4        | -119.2                  | 0.17                    | -0.12                  | -4.72                 |
| 3,600.0               | 1.52            | 357.67      | 3,592.4               | 121.6        | 103.4        | -119.8                  | 0.09                    | 0.08                   | 1.48                  |
| 3,625.0               | 1.50            | 357.14      | 3,617.4               | 122.3        | 103.4        | -120.5                  | 0.10                    | -0.08                  | -2.12                 |
| 3,650.0               | 1.53            | 355.05      | 3,642.4               | 123.0        | 103.3        | -121.1                  | 0.25                    | 0.12                   | -8.36                 |
| 3,675.0               | 1.45            | 357.36      | 3,667.4               | 123.6        | 103.3        | -121.8                  | 0.40                    | -0.32                  | 9.24                  |
| 3,700.0               | 1.60            | 357.06      | 3,692.4               | 124.3        | 103.3        | -122.5                  | 0.60                    | 0.60                   | -1.20                 |
| 3,725.0               | 1.57            | 355.78      | 3,717.3               | 125.0        | 103.2        | -123.1                  | 0.19                    | -0.12                  | -5.12                 |
| 3,750.0               | 1.63            | 355.96      | 3,742.3               | 125.7        | 103.2        | -123.8                  | 0.24                    | 0.24                   | 0.72                  |
| 3,775.0               | 1.61            | 356.18      | 3,767.3               | 126.4        | 103.1        | -124.5                  | 0.08                    | -0.08                  | 0.88                  |
| 3,800.0               | 1.58            | 355.87      | 3,792.3               | 127.1        | 103.1        | -125.2                  | 0.12                    | -0.12                  | -1.24                 |
| 3,825.0               | 1.57            | 353.54      | 3,817.3               | 127.7        | 103.0        | -125.9                  | 0.26                    | -0.04                  | -9.32                 |
| 3,850.0               | 1.56            | 355.94      | 3,842.3               | 128.4        | 102.9        | -126.6                  | 0.27                    | -0.04                  | 9.60                  |
| 3,875.0               | 1.55            | 355.10      | 3,867.3               | 129.1        | 102.9        | -127.3                  | 0.10                    | -0.04                  | -3.36                 |
| 3,900.0               | 1.60            | 356.57      | 3,892.3               | 129.8        | 102.8        | -128.0                  | 0.26                    | 0.20                   | 5.88                  |
| 3,925.0               | 1.53            | 353.58      | 3,917.3               | 130.5        | 102.8        | -128.6                  | 0.43                    | -0.28                  | -11.96                |
| 3,950.0               | 1.60            | 354.07      | 3,942.3               | 131.1        | 102.7        | -129.3                  | 0.29                    | 0.28                   | 1.96                  |
| 3,975.0               | 1.65            | 353.53      | 3,967.2               | 131.8        | 102.6        | -130.0                  | 0.21                    | 0.20                   | -2.16                 |
| 4,000.0               | 1.77            | 354.09      | 3,992.2               | 132.6        | 102.5        | -130.8                  | 0.48                    | 0.48                   | 2.24                  |
| 4,025.0               | 1.58            | 355.85      | 4,017.2               | 133.3        | 102.5        | -131.5                  | 0.79                    | -0.76                  | 7.04                  |
| 4,050.0               | 1.62            | 356.89      | 4,042.2               | 134.0        | 102.4        | -132.2                  | 0.20                    | 0.16                   | 4.16                  |
| 4,075.0               | 1.65            | 354.52      | 4,067.2               | 134.7        | 102.4        | -132.9                  | 0.30                    | 0.12                   | -9.48                 |
| 4,100.0               | 1.64            | 355.74      | 4,092.2               | 135.4        | 102.3        | -133.6                  | 0.15                    | -0.04                  | 4.88                  |
| 4,125.0               | 1.65            | 352.98      | 4,117.2               | 136.1        | 102.3        | -134.3                  | 0.32                    | 0.04                   | -11.04                |
| 4,150.0               | 1.71            | 353.11      | 4,142.2               | 136.9        | 102.2        | -135.1                  | 0.24                    | 0.24                   | 0.52                  |
| 4,175.0               | 1.63            | 354.24      | 4,167.2               | 137.6        | 102.1        | -135.8                  | 0.35                    | -0.32                  | 4.52                  |
| 4,200.0               | 1.65            | 353.84      | 4,192.2               | 138.3        | 102.0        | -136.5                  | 0.09                    | 0.08                   | -1.60                 |
| 4,225.0               | 1.74            | 353.16      | 4,217.1               | 139.0        | 101.9        | -137.3                  | 0.37                    | 0.36                   | -2.72                 |
| 4,250.0               | 1.68            | 357.23      | 4,242.1               | 139.8        | 101.9        | -138.0                  | 0.54                    | -0.24                  | 16.28                 |
| 4,275.0               | 1.61            | 358.39      | 4,267.1               | 140.5        | 101.8        | -138.7                  | 0.31                    | -0.28                  | 4.64                  |
| 4,300.0               | 1.61            | 0.24        | 4,292.1               | 141.2        | 101.8        | -139.4                  | 0.21                    | 0.00                   | 7.40                  |
| 4,325.0               | 1.60            | 359.22      | 4,317.1               | 141.9        | 101.8        | -140.1                  | 0.12                    | -0.04                  | -4.08                 |
| 4,350.0               | 1.63            | 356.78      | 4,342.1               | 142.6        | 101.8        | -140.8                  | 0.30                    | 0.12                   | -9.76                 |
| 4,375.0               | 1.62            | 358.98      | 4,367.1               | 143.3        | 101.8        | -141.5                  | 0.25                    | -0.04                  | 8.80                  |
| 4,400.0               | 1.69            | 359.64      | 4,392.1               | 144.0        | 101.8        | -142.2                  | 0.29                    | 0.28                   | 2.64                  |
| 4,425.0               | 1.71            | 355.88      | 4,417.1               | 144.8        | 101.7        | -143.0                  | 0.45                    | 0.08                   | -15.04                |
| 4,450.0               | 1.67            | 357.09      | 4,442.1               | 145.5        | 101.7        | -143.7                  | 0.21                    | -0.16                  | 4.84                  |
| 4,475.0               | 1.69            | 359.30      | 4,467.0               | 146.3        | 101.7        | -144.5                  | 0.27                    | 0.08                   | 8.84                  |
| 4,500.0               | 1.66            | 0.69        | 4,492.0               | 147.0        | 101.7        | -145.2                  | 0.20                    | -0.12                  | 5.56                  |
| 4,525.0               | 1.69            | 358.80      | 4,517.0               | 147.7        | 101.7        | -145.9                  | 0.25                    | 0.12                   | -7.56                 |
| 4,550.0               | 1.61            | 359.58      | 4,542.0               | 148.4        | 101.7        | -146.6                  | 0.33                    | -0.32                  | 3.12                  |
| 4,575.0               | 1.63            | 356.91      | 4,567.0               | 149.1        | 101.6        | -147.3                  | 0.31                    | 0.08                   | -10.68                |
| 4,600.0               | 1.65            | 356.29      | 4,592.0               | 149.9        | 101.6        | -148.1                  | 0.11                    | 0.08                   | -2.48                 |
| 4,625.0               | 1.61            | 356.56      | 4,617.0               | 150.6        | 101.5        | -148.8                  | 0.16                    | -0.16                  | 1.08                  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |  |
| 4,650.0               | 1.63            | 355.67      | 4,642.0               | 151.3        | 101.5        | -149.5                  | 0.13                    | 0.08                   | -3.56                 |  |
| 4,675.0               | 1.65            | 358.45      | 4,667.0               | 152.0        | 101.5        | -150.2                  | 0.33                    | 0.08                   | 11.12                 |  |
| 4,700.0               | 1.66            | 358.29      | 4,691.9               | 152.7        | 101.4        | -150.9                  | 0.04                    | 0.04                   | -0.64                 |  |
| 4,725.0               | 1.62            | 0.03        | 4,716.9               | 153.4        | 101.4        | -151.6                  | 0.26                    | -0.16                  | 6.96                  |  |
| 4,750.0               | 1.70            | 354.09      | 4,741.9               | 154.1        | 101.4        | -152.4                  | 0.76                    | 0.32                   | -23.76                |  |
| 4,775.0               | 1.68            | 357.67      | 4,766.9               | 154.9        | 101.3        | -153.1                  | 0.43                    | -0.08                  | 14.32                 |  |
| 4,800.0               | 1.69            | 358.05      | 4,791.9               | 155.6        | 101.3        | -153.8                  | 0.06                    | 0.04                   | 1.52                  |  |
| 4,825.0               | 1.68            | 1.28        | 4,816.9               | 156.3        | 101.3        | -154.6                  | 0.38                    | -0.04                  | 12.92                 |  |
| 4,850.0               | 1.67            | 4.11        | 4,841.9               | 157.1        | 101.3        | -155.3                  | 0.33                    | -0.04                  | 11.32                 |  |
| 4,875.0               | 1.72            | 4.46        | 4,866.9               | 157.8        | 101.4        | -156.0                  | 0.20                    | 0.20                   | 1.40                  |  |
| 4,900.0               | 1.65            | 358.57      | 4,891.9               | 158.5        | 101.4        | -156.8                  | 0.75                    | -0.28                  | -23.56                |  |
| 4,925.0               | 1.71            | 1.59        | 4,916.9               | 159.3        | 101.4        | -157.5                  | 0.43                    | 0.24                   | 12.08                 |  |
| 4,950.0               | 1.72            | 3.72        | 4,941.8               | 160.0        | 101.5        | -158.2                  | 0.26                    | 0.04                   | 8.52                  |  |
| 4,975.0               | 1.67            | 2.30        | 4,966.8               | 160.8        | 101.5        | -159.0                  | 0.26                    | -0.20                  | -5.68                 |  |
| 5,000.0               | 1.72            | 4.86        | 4,991.8               | 161.5        | 101.5        | -159.7                  | 0.36                    | 0.20                   | 10.24                 |  |
| 5,025.0               | 1.71            | 1.19        | 5,016.8               | 162.3        | 101.6        | -160.5                  | 0.44                    | -0.04                  | -14.68                |  |
| 5,050.0               | 1.74            | 4.73        | 5,041.8               | 163.0        | 101.6        | -161.2                  | 0.44                    | 0.12                   | 14.16                 |  |
| 5,075.0               | 1.74            | 2.41        | 5,066.8               | 163.8        | 101.7        | -162.0                  | 0.28                    | 0.00                   | -9.28                 |  |
| 5,100.0               | 1.79            | 3.05        | 5,091.8               | 164.5        | 101.7        | -162.7                  | 0.21                    | 0.20                   | 2.56                  |  |
| 5,125.0               | 1.70            | 6.69        | 5,116.8               | 165.3        | 101.8        | -163.5                  | 0.57                    | -0.36                  | 14.56                 |  |
| 5,150.0               | 1.54            | 31.38       | 5,141.8               | 165.9        | 102.0        | -164.1                  | 2.84                    | -0.64                  | 98.76                 |  |
| 5,175.0               | 1.60            | 40.69       | 5,166.7               | 166.5        | 102.4        | -164.7                  | 1.05                    | 0.24                   | 37.24                 |  |
| 5,200.0               | 1.62            | 47.64       | 5,191.7               | 167.0        | 102.9        | -165.2                  | 0.78                    | 0.08                   | 27.80                 |  |
| 5,225.0               | 1.65            | 52.06       | 5,216.7               | 167.5        | 103.4        | -165.6                  | 0.52                    | 0.12                   | 17.68                 |  |
| 5,250.0               | 1.74            | 56.36       | 5,241.7               | 167.9        | 104.0        | -166.1                  | 0.62                    | 0.36                   | 17.20                 |  |
| 5,275.0               | 1.66            | 55.07       | 5,266.7               | 168.3        | 104.6        | -166.5                  | 0.35                    | -0.32                  | -5.16                 |  |
| 5,300.0               | 1.65            | 54.06       | 5,291.7               | 168.7        | 105.2        | -166.9                  | 0.12                    | -0.04                  | -4.04                 |  |
| 5,325.0               | 1.72            | 55.79       | 5,316.7               | 169.1        | 105.8        | -167.3                  | 0.35                    | 0.28                   | 6.92                  |  |
| 5,350.0               | 1.73            | 53.67       | 5,341.7               | 169.6        | 106.4        | -167.7                  | 0.26                    | 0.04                   | -8.48                 |  |
| 5,375.0               | 1.74            | 53.80       | 5,366.7               | 170.0        | 107.0        | -168.1                  | 0.04                    | 0.04                   | 0.52                  |  |
| 5,400.0               | 1.75            | 53.85       | 5,391.6               | 170.5        | 107.7        | -168.6                  | 0.04                    | 0.04                   | 0.20                  |  |
| 5,425.0               | 1.78            | 54.33       | 5,416.6               | 170.9        | 108.3        | -169.0                  | 0.13                    | 0.12                   | 1.92                  |  |
| 5,450.0               | 1.77            | 53.58       | 5,441.6               | 171.4        | 108.9        | -169.5                  | 0.10                    | -0.04                  | -3.00                 |  |
| 5,475.0               | 1.77            | 55.30       | 5,466.6               | 171.8        | 109.5        | -169.9                  | 0.21                    | 0.00                   | 6.88                  |  |
| 5,500.0               | 1.73            | 55.30       | 5,491.6               | 172.3        | 110.2        | -170.3                  | 0.16                    | -0.16                  | 0.00                  |  |
| 5,525.0               | 1.74            | 54.41       | 5,516.6               | 172.7        | 110.8        | -170.7                  | 0.11                    | 0.04                   | -3.56                 |  |
| 5,550.0               | 1.77            | 55.77       | 5,541.6               | 173.1        | 111.4        | -171.2                  | 0.21                    | 0.12                   | 5.44                  |  |
| 5,575.0               | 1.70            | 54.46       | 5,566.6               | 173.6        | 112.0        | -171.6                  | 0.32                    | -0.28                  | -5.24                 |  |
| 5,600.0               | 1.70            | 54.78       | 5,591.6               | 174.0        | 112.6        | -172.0                  | 0.04                    | 0.00                   | 1.28                  |  |
| 5,625.0               | 1.68            | 55.24       | 5,616.5               | 174.4        | 113.2        | -172.4                  | 0.10                    | -0.08                  | 1.84                  |  |
| 5,650.0               | 1.72            | 57.92       | 5,641.5               | 174.8        | 113.9        | -172.8                  | 0.36                    | 0.16                   | 10.72                 |  |
| 5,675.0               | 1.64            | 57.56       | 5,666.5               | 175.2        | 114.5        | -173.2                  | 0.32                    | -0.32                  | -1.44                 |  |
| 5,700.0               | 1.61            | 54.92       | 5,691.5               | 175.6        | 115.1        | -173.6                  | 0.32                    | -0.12                  | -10.56                |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |  |
| 5,725.0               | 1.59            | 59.61       | 5,716.5               | 176.0        | 115.7        | -174.0                  | 0.53                    | -0.08                  | 18.76                 |  |
| 5,750.0               | 1.47            | 59.75       | 5,741.5               | 176.3        | 116.2        | -174.3                  | 0.48                    | -0.48                  | 0.56                  |  |
| 5,775.0               | 1.43            | 61.70       | 5,766.5               | 176.6        | 116.8        | -174.6                  | 0.25                    | -0.16                  | 7.80                  |  |
| 5,800.0               | 1.41            | 60.38       | 5,791.5               | 176.9        | 117.3        | -174.9                  | 0.15                    | -0.08                  | -5.28                 |  |
| 5,825.0               | 1.36            | 62.42       | 5,816.5               | 177.2        | 117.9        | -175.2                  | 0.28                    | -0.20                  | 8.16                  |  |
| 5,850.0               | 1.33            | 60.88       | 5,841.5               | 177.5        | 118.4        | -175.4                  | 0.19                    | -0.12                  | -6.16                 |  |
| 5,875.0               | 1.26            | 60.22       | 5,866.5               | 177.8        | 118.9        | -175.7                  | 0.29                    | -0.28                  | -2.64                 |  |
| 5,900.0               | 1.20            | 65.59       | 5,891.4               | 178.0        | 119.3        | -175.9                  | 0.52                    | -0.24                  | 21.48                 |  |
| 5,925.0               | 1.19            | 64.72       | 5,916.4               | 178.3        | 119.8        | -176.1                  | 0.08                    | -0.04                  | -3.48                 |  |
| 5,950.0               | 1.16            | 63.22       | 5,941.4               | 178.5        | 120.3        | -176.4                  | 0.17                    | -0.12                  | -6.00                 |  |
| 5,975.0               | 1.13            | 64.37       | 5,966.4               | 178.7        | 120.7        | -176.6                  | 0.15                    | -0.12                  | 4.60                  |  |
| 6,000.0               | 1.19            | 64.33       | 5,991.4               | 178.9        | 121.2        | -176.8                  | 0.24                    | 0.24                   | -0.16                 |  |
| 6,025.0               | 1.16            | 62.55       | 6,016.4               | 179.1        | 121.6        | -177.0                  | 0.19                    | -0.12                  | -7.12                 |  |
| 6,050.0               | 1.18            | 65.69       | 6,041.4               | 179.4        | 122.1        | -177.2                  | 0.27                    | 0.08                   | 12.56                 |  |
| 6,075.0               | 1.22            | 62.49       | 6,066.4               | 179.6        | 122.6        | -177.4                  | 0.31                    | 0.16                   | -12.80                |  |
| 6,100.0               | 1.16            | 63.74       | 6,091.4               | 179.8        | 123.0        | -177.7                  | 0.26                    | -0.24                  | 5.00                  |  |
| 6,125.0               | 1.18            | 63.83       | 6,116.4               | 180.1        | 123.5        | -177.9                  | 0.08                    | 0.08                   | 0.36                  |  |
| 6,150.0               | 1.12            | 64.91       | 6,141.4               | 180.3        | 123.9        | -178.1                  | 0.26                    | -0.24                  | 4.32                  |  |
| 6,175.0               | 1.19            | 65.56       | 6,166.4               | 180.5        | 124.4        | -178.3                  | 0.28                    | 0.28                   | 2.60                  |  |
| 6,200.0               | 1.23            | 63.89       | 6,191.4               | 180.7        | 124.9        | -178.5                  | 0.21                    | 0.16                   | -6.68                 |  |
| 6,225.0               | 1.23            | 67.48       | 6,216.4               | 180.9        | 125.4        | -178.7                  | 0.31                    | 0.00                   | 14.36                 |  |
| 6,250.0               | 1.20            | 64.23       | 6,241.4               | 181.1        | 125.8        | -178.9                  | 0.30                    | -0.12                  | -13.00                |  |
| 6,275.0               | 1.10            | 62.62       | 6,266.4               | 181.4        | 126.3        | -179.1                  | 0.42                    | -0.40                  | -6.44                 |  |
| 6,300.0               | 1.07            | 67.25       | 6,291.4               | 181.6        | 126.7        | -179.3                  | 0.37                    | -0.12                  | 18.52                 |  |
| 6,325.0               | 1.01            | 63.45       | 6,316.4               | 181.8        | 127.1        | -179.5                  | 0.37                    | -0.24                  | -15.20                |  |
| 6,350.0               | 0.92            | 64.28       | 6,341.4               | 181.9        | 127.5        | -179.7                  | 0.36                    | -0.36                  | 3.32                  |  |
| 6,375.0               | 0.89            | 59.58       | 6,366.4               | 182.1        | 127.9        | -179.9                  | 0.32                    | -0.12                  | -18.80                |  |
| 6,400.0               | 0.82            | 56.61       | 6,391.3               | 182.3        | 128.2        | -180.1                  | 0.33                    | -0.28                  | -11.88                |  |
| 6,425.0               | 0.77            | 51.24       | 6,416.3               | 182.5        | 128.5        | -180.3                  | 0.36                    | -0.20                  | -21.48                |  |
| 6,450.0               | 0.69            | 44.54       | 6,441.3               | 182.7        | 128.7        | -180.5                  | 0.47                    | -0.32                  | -26.80                |  |
| 6,475.0               | 0.65            | 31.49       | 6,466.3               | 183.0        | 128.9        | -180.7                  | 0.63                    | -0.16                  | -52.20                |  |
| 6,500.0               | 0.65            | 15.64       | 6,491.3               | 183.2        | 129.0        | -181.0                  | 0.72                    | 0.00                   | -63.40                |  |
| 6,525.0               | 0.66            | 357.74      | 6,516.3               | 183.5        | 129.0        | -181.2                  | 0.82                    | 0.04                   | -71.60                |  |
| 6,550.0               | 0.71            | 355.19      | 6,541.3               | 183.8        | 129.0        | -181.5                  | 0.23                    | 0.20                   | -10.20                |  |
| 6,575.0               | 0.73            | 355.69      | 6,566.3               | 184.1        | 129.0        | -181.9                  | 0.08                    | 0.08                   | 2.00                  |  |
| 6,600.0               | 0.76            | 345.74      | 6,591.3               | 184.4        | 128.9        | -182.2                  | 0.53                    | 0.12                   | -39.80                |  |
| 6,625.0               | 0.85            | 339.74      | 6,616.3               | 184.8        | 128.8        | -182.5                  | 0.49                    | 0.36                   | -24.00                |  |
| 6,650.0               | 0.92            | 332.59      | 6,641.3               | 185.1        | 128.7        | -182.9                  | 0.52                    | 0.28                   | -28.60                |  |
| 6,675.0               | 0.96            | 337.34      | 6,666.3               | 185.5        | 128.5        | -183.2                  | 0.35                    | 0.16                   | 19.00                 |  |
| 6,700.0               | 0.90            | 330.97      | 6,691.3               | 185.9        | 128.3        | -183.6                  | 0.48                    | -0.24                  | -25.48                |  |
| 6,725.0               | 0.92            | 333.91      | 6,716.3               | 186.2        | 128.1        | -184.0                  | 0.20                    | 0.08                   | 11.76                 |  |
| 6,750.0               | 1.03            | 331.16      | 6,741.3               | 186.6        | 127.9        | -184.3                  | 0.48                    | 0.44                   | -11.00                |  |
| 6,775.0               | 0.91            | 332.06      | 6,766.3               | 187.0        | 127.7        | -184.7                  | 0.48                    | -0.48                  | 3.60                  |  |
| 6,800.0               | 0.94            | 333.95      | 6,791.3               | 187.3        | 127.5        | -185.1                  | 0.17                    | 0.12                   | 7.56                  |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |
| 6,825.0               | 0.95            | 335.03      | 6,816.3               | 187.7        | 127.4        | -185.5                  | 0.08                    | 0.04                   | 4.32                  |
| 6,850.0               | 0.89            | 333.23      | 6,841.3               | 188.1        | 127.2        | -185.8                  | 0.27                    | -0.24                  | -7.20                 |
| 6,875.0               | 0.97            | 331.40      | 6,866.3               | 188.4        | 127.0        | -186.2                  | 0.34                    | 0.32                   | -7.32                 |
| 6,900.0               | 0.93            | 330.13      | 6,891.3               | 188.8        | 126.8        | -186.5                  | 0.18                    | -0.16                  | -5.08                 |
| 6,925.0               | 0.96            | 327.28      | 6,916.3               | 189.1        | 126.6        | -186.9                  | 0.22                    | 0.12                   | -11.40                |
| 6,950.0               | 0.89            | 324.55      | 6,941.3               | 189.5        | 126.4        | -187.2                  | 0.33                    | -0.28                  | -10.92                |
| 6,975.0               | 1.05            | 323.55      | 6,966.3               | 189.8        | 126.1        | -187.6                  | 0.64                    | 0.64                   | -4.00                 |
| 7,000.0               | 1.24            | 317.84      | 6,991.3               | 190.2        | 125.8        | -188.0                  | 0.89                    | 0.76                   | -22.84                |
| 7,025.0               | 1.31            | 314.56      | 7,016.3               | 190.6        | 125.4        | -188.4                  | 0.40                    | 0.28                   | -13.12                |
| 7,050.0               | 1.40            | 313.22      | 7,041.3               | 191.0        | 125.0        | -188.8                  | 0.38                    | 0.36                   | -5.36                 |
| 7,075.0               | 1.46            | 309.86      | 7,066.3               | 191.4        | 124.5        | -189.2                  | 0.41                    | 0.24                   | -13.44                |
| 7,100.0               | 1.60            | 319.55      | 7,091.3               | 191.9        | 124.1        | -189.7                  | 1.17                    | 0.56                   | 38.76                 |
| 7,125.0               | 2.60            | 333.87      | 7,116.2               | 192.7        | 123.6        | -190.5                  | 4.49                    | 4.00                   | 57.28                 |
| 7,150.0               | 2.85            | 334.85      | 7,141.2               | 193.7        | 123.1        | -191.6                  | 1.02                    | 1.00                   | 3.92                  |
| 7,175.0               | 2.79            | 336.73      | 7,166.2               | 194.9        | 122.6        | -192.7                  | 0.44                    | -0.24                  | 7.52                  |
| 7,200.0               | 2.81            | 341.05      | 7,191.1               | 196.0        | 122.1        | -193.8                  | 0.85                    | 0.08                   | 17.28                 |
| 7,225.0               | 2.81            | 345.60      | 7,216.1               | 197.2        | 121.8        | -195.0                  | 0.89                    | 0.00                   | 18.20                 |
| 7,250.0               | 2.78            | 349.02      | 7,241.1               | 198.4        | 121.5        | -196.2                  | 0.68                    | -0.12                  | 13.68                 |
| 7,275.0               | 2.73            | 352.82      | 7,266.1               | 199.5        | 121.3        | -197.4                  | 0.76                    | -0.20                  | 15.20                 |
| 7,300.0               | 2.40            | 4.59        | 7,291.0               | 200.7        | 121.3        | -198.5                  | 2.48                    | -1.32                  | 47.08                 |
| 7,325.0               | 2.18            | 16.70       | 7,316.0               | 201.6        | 121.5        | -199.5                  | 2.12                    | -0.88                  | 48.44                 |
| 7,350.0               | 2.08            | 22.72       | 7,341.0               | 202.5        | 121.8        | -200.4                  | 0.98                    | -0.40                  | 24.08                 |
| 7,375.0               | 2.08            | 28.84       | 7,366.0               | 203.3        | 122.2        | -201.2                  | 0.89                    | 0.00                   | 24.48                 |
| 7,400.0               | 1.92            | 29.44       | 7,391.0               | 204.1        | 122.6        | -201.9                  | 0.65                    | -0.64                  | 2.40                  |
| 7,425.0               | 1.82            | 30.33       | 7,415.9               | 204.8        | 123.0        | -202.6                  | 0.42                    | -0.40                  | 3.56                  |
| 7,450.0               | 1.73            | 28.05       | 7,440.9               | 205.5        | 123.4        | -203.3                  | 0.46                    | -0.36                  | -9.12                 |
| 7,475.0               | 1.57            | 28.85       | 7,465.9               | 206.1        | 123.7        | -203.9                  | 0.65                    | -0.64                  | 3.20                  |
| 7,500.0               | 1.51            | 26.04       | 7,490.9               | 206.7        | 124.0        | -204.5                  | 0.39                    | -0.24                  | -11.24                |
| 7,525.0               | 1.20            | 10.14       | 7,515.9               | 207.3        | 124.2        | -205.1                  | 1.94                    | -1.24                  | -63.60                |
| 7,550.0               | 1.10            | 4.39        | 7,540.9               | 207.7        | 124.3        | -205.6                  | 0.61                    | -0.40                  | -23.00                |
| 7,575.0               | 1.04            | 6.80        | 7,565.9               | 208.2        | 124.3        | -206.0                  | 0.30                    | -0.24                  | 9.64                  |
| 7,600.0               | 1.00            | 5.67        | 7,590.9               | 208.7        | 124.4        | -206.5                  | 0.18                    | -0.16                  | -4.52                 |
| 7,625.0               | 0.99            | 5.63        | 7,615.9               | 209.1        | 124.4        | -206.9                  | 0.04                    | -0.04                  | -0.16                 |
| 7,650.0               | 1.01            | 4.81        | 7,640.9               | 209.5        | 124.5        | -207.3                  | 0.10                    | 0.08                   | -3.28                 |
| 7,675.0               | 0.97            | 14.33       | 7,665.9               | 209.9        | 124.5        | -207.7                  | 0.68                    | -0.16                  | 38.08                 |
| 7,700.0               | 1.05            | 23.05       | 7,690.9               | 210.4        | 124.7        | -208.2                  | 0.69                    | 0.32                   | 34.88                 |
| 7,725.0               | 1.07            | 30.10       | 7,715.9               | 210.8        | 124.9        | -208.6                  | 0.53                    | 0.08                   | 28.20                 |
| 7,750.0               | 1.17            | 39.95       | 7,740.9               | 211.2        | 125.2        | -209.0                  | 0.87                    | 0.40                   | 39.40                 |
| 7,775.0               | 1.41            | 49.22       | 7,765.9               | 211.6        | 125.5        | -209.4                  | 1.27                    | 0.96                   | 37.08                 |
| 7,800.0               | 1.54            | 57.61       | 7,790.9               | 211.9        | 126.1        | -209.7                  | 1.01                    | 0.52                   | 33.56                 |
| 7,825.0               | 1.69            | 60.96       | 7,815.8               | 212.3        | 126.7        | -210.1                  | 0.71                    | 0.60                   | 13.40                 |
| 7,850.0               | 1.80            | 63.63       | 7,840.8               | 212.7        | 127.3        | -210.4                  | 0.55                    | 0.44                   | 10.68                 |
| 7,875.0               | 1.84            | 63.73       | 7,865.8               | 213.0        | 128.1        | -210.8                  | 0.16                    | 0.16                   | 0.40                  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |  |
| 7,900.0               | 1.89            | 65.41       | 7,890.8               | 213.4        | 128.8        | -211.1                  | 0.30                    | 0.20                   | 6.72                  |  |
| 7,925.0               | 2.00            | 65.73       | 7,915.8               | 213.7        | 129.6        | -211.4                  | 0.44                    | 0.44                   | 1.28                  |  |
| 7,950.0               | 1.96            | 65.51       | 7,940.8               | 214.1        | 130.4        | -211.8                  | 0.16                    | -0.16                  | -0.88                 |  |
| 7,975.0               | 2.03            | 65.21       | 7,965.8               | 214.4        | 131.1        | -212.1                  | 0.28                    | 0.28                   | -1.20                 |  |
| 8,000.0               | 2.05            | 65.72       | 7,990.8               | 214.8        | 132.0        | -212.5                  | 0.11                    | 0.08                   | 2.04                  |  |
| 8,025.0               | 2.15            | 65.42       | 8,015.7               | 215.2        | 132.8        | -212.8                  | 0.40                    | 0.40                   | -1.20                 |  |
| 8,050.0               | 2.11            | 69.07       | 8,040.7               | 215.5        | 133.6        | -213.2                  | 0.57                    | -0.16                  | 14.60                 |  |
| 8,075.0               | 2.08            | 72.98       | 8,065.7               | 215.8        | 134.5        | -213.5                  | 0.58                    | -0.12                  | 15.64                 |  |
| 8,100.0               | 1.91            | 81.22       | 8,090.7               | 216.0        | 135.4        | -213.6                  | 1.33                    | -0.68                  | 32.96                 |  |
| 8,125.0               | 1.82            | 81.90       | 8,115.7               | 216.2        | 136.2        | -213.8                  | 0.37                    | -0.36                  | 2.72                  |  |
| 8,150.0               | 1.72            | 92.15       | 8,140.7               | 216.2        | 136.9        | -213.8                  | 1.33                    | -0.40                  | 41.00                 |  |
| 8,175.0               | 1.67            | 92.71       | 8,165.6               | 216.2        | 137.7        | -213.7                  | 0.21                    | -0.20                  | 2.24                  |  |
| 8,200.0               | 1.65            | 99.66       | 8,190.6               | 216.1        | 138.4        | -213.6                  | 0.81                    | -0.08                  | 27.80                 |  |
| 8,225.0               | 1.76            | 101.60      | 8,215.6               | 215.9        | 139.1        | -213.5                  | 0.50                    | 0.44                   | 7.76                  |  |
| 8,250.0               | 1.81            | 105.60      | 8,240.6               | 215.8        | 139.9        | -213.3                  | 0.54                    | 0.20                   | 16.00                 |  |
| 8,275.0               | 1.87            | 108.87      | 8,265.6               | 215.5        | 140.6        | -213.0                  | 0.48                    | 0.24                   | 13.08                 |  |
| 8,300.0               | 2.02            | 110.87      | 8,290.6               | 215.2        | 141.4        | -212.7                  | 0.66                    | 0.60                   | 8.00                  |  |
| 8,325.0               | 2.15            | 119.98      | 8,315.6               | 214.8        | 142.3        | -212.3                  | 1.42                    | 0.52                   | 36.44                 |  |
| 8,350.0               | 2.36            | 127.85      | 8,340.6               | 214.3        | 143.1        | -211.8                  | 1.49                    | 0.84                   | 31.48                 |  |
| 8,375.0               | 2.52            | 131.23      | 8,365.5               | 213.6        | 143.9        | -211.1                  | 0.86                    | 0.64                   | 13.52                 |  |
| 8,400.0               | 2.64            | 133.24      | 8,390.5               | 212.9        | 144.7        | -210.3                  | 0.60                    | 0.48                   | 8.04                  |  |
| 8,425.0               | 2.81            | 139.10      | 8,415.5               | 212.0        | 145.5        | -209.4                  | 1.30                    | 0.68                   | 23.44                 |  |
| 8,450.0               | 2.91            | 140.86      | 8,440.4               | 211.0        | 146.3        | -208.5                  | 0.53                    | 0.40                   | 7.04                  |  |
| 8,475.0               | 2.97            | 145.97      | 8,465.4               | 210.0        | 147.1        | -207.4                  | 1.08                    | 0.24                   | 20.44                 |  |
| 8,500.0               | 3.06            | 149.76      | 8,490.4               | 208.9        | 147.8        | -206.3                  | 0.87                    | 0.36                   | 15.16                 |  |
| 8,525.0               | 3.05            | 152.82      | 8,515.3               | 207.7        | 148.4        | -205.1                  | 0.65                    | -0.04                  | 12.24                 |  |
| 8,550.0               | 3.04            | 154.05      | 8,540.3               | 206.6        | 149.0        | -203.9                  | 0.26                    | -0.04                  | 4.92                  |  |
| 8,560.0               | 3.01            | 154.19      | 8,550.3               | 206.1        | 149.3        | -203.4                  | 0.31                    | -0.30                  | 1.40                  |  |
| 8,674.0               | 2.30            | 164.43      | 8,664.2               | 201.2        | 151.2        | -198.5                  | 0.75                    | -0.62                  | 8.98                  |  |
| 8,704.0               | 2.24            | 164.47      | 8,694.1               | 200.0        | 151.5        | -197.4                  | 0.20                    | -0.20                  | 0.13                  |  |
| 8,737.0               | 2.32            | 163.48      | 8,727.1               | 198.8        | 151.9        | -196.1                  | 0.27                    | 0.24                   | -3.00                 |  |
| 8,799.0               | 2.68            | 176.16      | 8,789.1               | 196.1        | 152.3        | -193.4                  | 1.06                    | 0.58                   | 20.45                 |  |
| 8,846.0               | 8.39            | 193.15      | 8,835.8               | 191.7        | 151.6        | -189.0                  | 12.51                   | 12.15                  | 36.15                 |  |
| 8,893.0               | 14.17           | 194.83      | 8,881.9               | 182.8        | 149.4        | -180.1                  | 12.32                   | 12.30                  | 3.57                  |  |
| 8,924.0               | 17.55           | 194.78      | 8,911.7               | 174.6        | 147.2        | -172.0                  | 10.90                   | 10.90                  | -0.16                 |  |
| 8,956.0               | 20.46           | 194.15      | 8,942.0               | 164.5        | 144.6        | -162.0                  | 9.12                    | 9.09                   | -1.97                 |  |
| 8,987.0               | 23.63           | 191.08      | 8,970.7               | 153.1        | 142.1        | -150.6                  | 10.88                   | 10.23                  | -9.90                 |  |
| 9,018.0               | 27.26           | 187.85      | 8,998.7               | 140.0        | 139.9        | -137.6                  | 12.53                   | 11.71                  | -10.42                |  |
| 9,081.0               | 33.39           | 184.82      | 9,053.0               | 108.4        | 136.5        | -106.0                  | 10.03                   | 9.73                   | -4.81                 |  |
| 9,129.0               | 37.81           | 183.75      | 9,092.1               | 80.6         | 134.4        | -78.2                   | 9.30                    | 9.21                   | -2.23                 |  |
| 9,175.0               | 41.46           | 182.54      | 9,127.5               | 51.3         | 132.8        | -48.9                   | 8.11                    | 7.93                   | -2.63                 |  |
| 9,222.0               | 45.88           | 179.98      | 9,161.5               | 18.8         | 132.1        | -16.5                   | 10.13                   | 9.40                   | -5.45                 |  |
| 9,262.5               | 48.96           | 179.37      | 9,188.9               | -11.0        | 132.3        | 13.3                    | 7.70                    | 7.62                   | -1.50                 |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| <b>FTP @ 9262.5'MD / 91.88.9'TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,269.0                              | 49.46           | 179.28      | 9,193.1               | -15.9        | 132.4        | 18.2                    | 7.70                    | 7.62                   | -1.42                 |
| 9,316.0                              | 53.85           | 178.10      | 9,222.3               | -52.8        | 133.2        | 55.1                    | 9.55                    | 9.34                   | -2.51                 |
| 9,362.0                              | 58.02           | 175.38      | 9,248.0               | -90.8        | 135.4        | 93.1                    | 10.30                   | 9.07                   | -5.91                 |
| 9,409.0                              | 62.35           | 174.83      | 9,271.4               | -131.4       | 138.9        | 133.8                   | 9.27                    | 9.21                   | -1.17                 |
| 9,456.0                              | 65.15           | 175.04      | 9,292.2               | -173.4       | 142.6        | 175.8                   | 5.97                    | 5.96                   | 0.45                  |
| 9,505.0                              | 70.03           | 175.43      | 9,310.9               | -218.5       | 146.4        | 221.0                   | 9.99                    | 9.96                   | 0.80                  |
| 9,550.0                              | 73.92           | 175.86      | 9,324.8               | -261.2       | 149.6        | 263.7                   | 8.69                    | 8.64                   | 0.96                  |
| 9,597.0                              | 76.13           | 175.97      | 9,336.9               | -306.5       | 152.8        | 309.1                   | 4.71                    | 4.70                   | 0.23                  |
| 9,644.0                              | 78.37           | 174.96      | 9,347.3               | -352.2       | 156.5        | 354.8                   | 5.21                    | 4.77                   | -2.15                 |
| 9,682.0                              | 83.01           | 174.49      | 9,353.4               | -389.5       | 159.9        | 392.2                   | 12.27                   | 12.21                  | -1.24                 |
| 9,776.0                              | 87.84           | 173.80      | 9,360.9               | -482.7       | 169.5        | 485.5                   | 5.19                    | 5.14                   | -0.73                 |
| 9,870.0                              | 89.50           | 174.64      | 9,363.1               | -576.2       | 178.9        | 579.2                   | 1.98                    | 1.77                   | 0.89                  |
| 9,963.0                              | 89.56           | 177.17      | 9,363.9               | -668.9       | 185.6        | 672.0                   | 2.72                    | 0.06                   | 2.72                  |
| 10,057.0                             | 88.97           | 176.51      | 9,365.1               | -762.8       | 190.8        | 766.0                   | 0.94                    | -0.63                  | -0.70                 |
| 10,151.0                             | 88.86           | 177.41      | 9,366.9               | -856.6       | 195.7        | 859.9                   | 0.96                    | -0.12                  | 0.96                  |
| 10,245.0                             | 86.03           | 176.44      | 9,371.1               | -950.4       | 200.8        | 953.7                   | 3.18                    | -3.01                  | -1.03                 |
| 10,339.0                             | 88.42           | 176.54      | 9,375.6               | -1,044.1     | 206.5        | 1,047.5                 | 2.54                    | 2.54                   | 0.11                  |
| 10,433.0                             | 90.21           | 176.54      | 9,376.7               | -1,137.9     | 212.2        | 1,141.4                 | 1.90                    | 1.90                   | 0.00                  |
| 10,527.0                             | 93.14           | 176.92      | 9,374.0               | -1,231.7     | 217.6        | 1,235.3                 | 3.14                    | 3.12                   | 0.40                  |
| 10,620.0                             | 92.43           | 176.56      | 9,369.5               | -1,324.4     | 222.8        | 1,328.1                 | 0.86                    | -0.76                  | -0.39                 |
| 10,714.0                             | 89.91           | 176.13      | 9,367.5               | -1,418.2     | 228.8        | 1,422.0                 | 2.72                    | -2.68                  | -0.46                 |
| 10,808.0                             | 89.39           | 175.97      | 9,368.1               | -1,512.0     | 235.3        | 1,515.9                 | 0.58                    | -0.55                  | -0.17                 |
| 10,902.0                             | 92.11           | 180.32      | 9,366.9               | -1,605.9     | 238.3        | 1,609.8                 | 5.46                    | 2.89                   | 4.63                  |
| 10,996.0                             | 89.11           | 180.24      | 9,365.9               | -1,699.9     | 237.9        | 1,703.8                 | 3.19                    | -3.19                  | -0.09                 |
| 11,090.0                             | 92.32           | 181.46      | 9,364.7               | -1,793.9     | 236.5        | 1,797.7                 | 3.65                    | 3.41                   | 1.30                  |
| 11,183.0                             | 91.87           | 181.01      | 9,361.3               | -1,886.8     | 234.5        | 1,890.6                 | 0.68                    | -0.48                  | -0.48                 |
| 11,277.0                             | 89.64           | 180.60      | 9,360.1               | -1,980.7     | 233.2        | 1,984.5                 | 2.41                    | -2.37                  | -0.44                 |
| 11,371.0                             | 90.63           | 181.36      | 9,359.9               | -2,074.7     | 231.6        | 2,078.4                 | 1.33                    | 1.05                   | 0.81                  |
| 11,465.0                             | 88.76           | 181.02      | 9,360.4               | -2,168.7     | 229.6        | 2,172.4                 | 2.02                    | -1.99                  | -0.36                 |
| 11,559.0                             | 88.25           | 181.20      | 9,362.8               | -2,262.7     | 227.8        | 2,266.3                 | 0.58                    | -0.54                  | 0.19                  |
| 11,653.0                             | 89.95           | 180.94      | 9,364.3               | -2,356.6     | 226.0        | 2,360.2                 | 1.83                    | 1.81                   | -0.28                 |
| 11,747.0                             | 89.56           | 180.34      | 9,364.7               | -2,450.6     | 225.0        | 2,454.2                 | 0.76                    | -0.41                  | -0.64                 |
| 11,840.0                             | 92.03           | 180.90      | 9,363.4               | -2,543.6     | 224.0        | 2,547.1                 | 2.72                    | 2.66                   | 0.60                  |
| 11,934.0                             | 92.08           | 180.70      | 9,360.0               | -2,637.5     | 222.7        | 2,641.0                 | 0.22                    | 0.05                   | -0.21                 |
| 12,028.0                             | 90.91           | 180.72      | 9,357.6               | -2,731.5     | 221.5        | 2,734.9                 | 1.24                    | -1.24                  | 0.02                  |
| 12,122.0                             | 89.37           | 180.38      | 9,357.3               | -2,825.5     | 220.6        | 2,828.9                 | 1.68                    | -1.64                  | -0.36                 |
| 12,216.0                             | 87.25           | 179.46      | 9,360.1               | -2,919.4     | 220.7        | 2,922.8                 | 2.46                    | -2.26                  | -0.98                 |
| 12,310.0                             | 90.34           | 179.74      | 9,362.1               | -3,013.4     | 221.4        | 3,016.8                 | 3.30                    | 3.29                   | 0.30                  |
| 12,404.0                             | 92.53           | 180.25      | 9,359.7               | -3,107.4     | 221.4        | 3,110.7                 | 2.39                    | 2.33                   | 0.54                  |
| 12,497.0                             | 92.77           | 180.37      | 9,355.4               | -3,200.3     | 220.9        | 3,203.6                 | 0.29                    | 0.26                   | 0.13                  |
| 12,591.0                             | 92.17           | 180.33      | 9,351.4               | -3,294.2     | 220.3        | 3,297.5                 | 0.64                    | -0.64                  | -0.04                 |
| 12,685.0                             | 90.16           | 179.11      | 9,349.5               | -3,388.1     | 220.8        | 3,391.5                 | 2.50                    | -2.14                  | -1.30                 |
| 12,779.0                             | 89.59           | 179.08      | 9,349.7               | -3,482.1     | 222.3        | 3,485.5                 | 0.61                    | -0.61                  | -0.03                 |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |  |
| 12,873.0              | 88.66           | 179.18      | 9,351.1               | -3,576.1     | 223.7        | 3,579.5                 | 1.00                    | -0.99                  | 0.11                  |  |
| 12,967.0              | 89.10           | 179.45      | 9,353.0               | -3,670.1     | 224.8        | 3,673.4                 | 0.55                    | 0.47                   | 0.29                  |  |
| 13,061.0              | 89.13           | 179.59      | 9,354.4               | -3,764.1     | 225.6        | 3,767.4                 | 0.15                    | 0.03                   | 0.15                  |  |
| 13,155.0              | 89.53           | 179.48      | 9,355.5               | -3,858.1     | 226.4        | 3,861.4                 | 0.44                    | 0.43                   | -0.12                 |  |
| 13,249.0              | 89.34           | 179.26      | 9,356.4               | -3,952.0     | 227.4        | 3,955.4                 | 0.31                    | -0.20                  | -0.23                 |  |
| 13,342.0              | 92.26           | 179.16      | 9,355.1               | -4,045.0     | 228.7        | 4,048.4                 | 3.14                    | 3.14                   | -0.11                 |  |
| 13,436.0              | 91.95           | 178.65      | 9,351.7               | -4,138.9     | 230.5        | 4,142.3                 | 0.63                    | -0.33                  | -0.54                 |  |
| 13,530.0              | 93.03           | 178.55      | 9,347.6               | -4,232.8     | 232.8        | 4,236.2                 | 1.15                    | 1.15                   | -0.11                 |  |
| 13,624.0              | 91.82           | 178.66      | 9,343.6               | -4,326.7     | 235.1        | 4,330.1                 | 1.29                    | -1.29                  | 0.12                  |  |
| 13,718.0              | 88.86           | 176.49      | 9,343.1               | -4,420.6     | 239.0        | 4,424.1                 | 3.90                    | -3.15                  | -2.31                 |  |
| 13,812.0              | 89.04           | 178.47      | 9,344.8               | -4,514.5     | 243.2        | 4,518.0                 | 2.11                    | 0.19                   | 2.11                  |  |
| 13,906.0              | 89.71           | 178.89      | 9,345.8               | -4,608.5     | 245.3        | 4,612.0                 | 0.84                    | 0.71                   | 0.45                  |  |
| 14,000.0              | 92.50           | 180.88      | 9,344.0               | -4,702.4     | 245.5        | 4,706.0                 | 3.65                    | 2.97                   | 2.12                  |  |
| 14,094.0              | 90.73           | 180.78      | 9,341.4               | -4,796.4     | 244.2        | 4,799.9                 | 1.89                    | -1.88                  | -0.11                 |  |
| 14,188.0              | 87.94           | 179.25      | 9,342.4               | -4,890.4     | 244.1        | 4,893.9                 | 3.38                    | -2.97                  | -1.63                 |  |
| 14,282.0              | 90.77           | 181.36      | 9,343.5               | -4,984.3     | 243.6        | 4,987.8                 | 3.76                    | 3.01                   | 2.24                  |  |
| 14,375.0              | 90.91           | 181.57      | 9,342.1               | -5,077.3     | 241.3        | 5,080.7                 | 0.27                    | 0.15                   | 0.23                  |  |
| 14,469.0              | 90.61           | 181.24      | 9,340.9               | -5,171.3     | 239.0        | 5,174.6                 | 0.47                    | -0.32                  | -0.35                 |  |
| 14,563.0              | 89.79           | 179.98      | 9,340.6               | -5,265.3     | 237.9        | 5,268.6                 | 1.60                    | -0.87                  | -1.34                 |  |
| 14,657.0              | 88.95           | 179.37      | 9,341.6               | -5,359.2     | 238.5        | 5,362.6                 | 1.10                    | -0.89                  | -0.65                 |  |
| 14,751.0              | 89.86           | 180.33      | 9,342.6               | -5,453.2     | 238.7        | 5,456.6                 | 1.41                    | 0.97                   | 1.02                  |  |
| 14,845.0              | 93.33           | 180.88      | 9,340.0               | -5,547.2     | 237.7        | 5,550.5                 | 3.74                    | 3.69                   | 0.59                  |  |
| 14,938.0              | 93.24           | 180.68      | 9,334.6               | -5,640.0     | 236.5        | 5,643.3                 | 0.24                    | -0.10                  | -0.22                 |  |
| 15,032.0              | 90.90           | 180.36      | 9,331.2               | -5,733.9     | 235.6        | 5,737.2                 | 2.51                    | -2.49                  | -0.34                 |  |
| 15,126.0              | 89.54           | 179.31      | 9,330.9               | -5,827.9     | 235.9        | 5,831.2                 | 1.83                    | -1.45                  | -1.12                 |  |
| 15,220.0              | 90.07           | 179.28      | 9,331.2               | -5,921.9     | 237.0        | 5,925.2                 | 0.56                    | 0.56                   | -0.03                 |  |
| 15,314.0              | 90.01           | 180.99      | 9,331.1               | -6,015.9     | 236.8        | 6,019.1                 | 1.82                    | -0.06                  | 1.82                  |  |
| 15,408.0              | 89.06           | 181.20      | 9,331.9               | -6,109.9     | 235.0        | 6,113.1                 | 1.04                    | -1.01                  | 0.22                  |  |
| 15,502.0              | 88.73           | 181.54      | 9,333.7               | -6,203.9     | 232.8        | 6,207.0                 | 0.50                    | -0.35                  | 0.36                  |  |
| 15,596.0              | 89.12           | 181.05      | 9,335.5               | -6,297.8     | 230.7        | 6,300.9                 | 0.67                    | 0.41                   | -0.52                 |  |
| 15,690.0              | 88.41           | 180.80      | 9,337.5               | -6,391.8     | 229.1        | 6,394.8                 | 0.80                    | -0.76                  | -0.27                 |  |
| 15,784.0              | 92.00           | 182.24      | 9,337.2               | -6,485.7     | 226.6        | 6,488.7                 | 4.11                    | 3.82                   | 1.53                  |  |
| 15,878.0              | 92.46           | 182.44      | 9,333.5               | -6,579.6     | 222.8        | 6,582.5                 | 0.53                    | 0.49                   | 0.21                  |  |
| 15,972.0              | 92.33           | 182.44      | 9,329.6               | -6,673.4     | 218.8        | 6,676.2                 | 0.14                    | -0.14                  | 0.00                  |  |
| 16,065.0              | 91.30           | 181.76      | 9,326.6               | -6,766.3     | 215.4        | 6,769.0                 | 1.33                    | -1.11                  | -0.73                 |  |
| 16,160.0              | 90.95           | 180.95      | 9,324.8               | -6,861.3     | 213.2        | 6,863.9                 | 0.93                    | -0.37                  | -0.85                 |  |
| 16,253.0              | 90.54           | 180.31      | 9,323.5               | -6,954.2     | 212.1        | 6,956.9                 | 0.82                    | -0.44                  | -0.69                 |  |
| 16,347.0              | 90.61           | 179.91      | 9,322.6               | -7,048.2     | 212.0        | 7,050.9                 | 0.43                    | 0.07                   | -0.43                 |  |
| 16,441.0              | 92.11           | 180.68      | 9,320.4               | -7,142.2     | 211.5        | 7,144.8                 | 1.79                    | 1.60                   | 0.82                  |  |
| 16,534.0              | 90.38           | 181.47      | 9,318.4               | -7,235.2     | 209.7        | 7,237.7                 | 2.04                    | -1.86                  | 0.85                  |  |
| 16,628.0              | 89.46           | 180.68      | 9,318.5               | -7,329.2     | 208.0        | 7,331.7                 | 1.29                    | -0.98                  | -0.84                 |  |
| 16,722.0              | 89.03           | 180.27      | 9,319.7               | -7,423.1     | 207.2        | 7,425.6                 | 0.63                    | -0.46                  | -0.44                 |  |
| 16,816.0              | 89.56           | 180.17      | 9,320.9               | -7,517.1     | 206.8        | 7,519.6                 | 0.57                    | 0.56                   | -0.11                 |  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |
| 16,910.0              | 89.09           | 180.11      | 9,322.0               | -7,611.1     | 206.6        | 7,613.6                 | 0.50                    | -0.50                  | -0.06                 |
| 17,004.0              | 90.88           | 181.01      | 9,322.0               | -7,705.1     | 205.7        | 7,707.5                 | 2.13                    | 1.90                   | 0.96                  |
| 17,098.0              | 90.75           | 181.02      | 9,320.7               | -7,799.1     | 204.0        | 7,801.5                 | 0.14                    | -0.14                  | 0.01                  |
| 17,192.0              | 90.32           | 180.85      | 9,319.8               | -7,893.1     | 202.5        | 7,895.4                 | 0.49                    | -0.46                  | -0.18                 |
| 17,286.0              | 92.59           | 181.94      | 9,317.4               | -7,987.0     | 200.2        | 7,989.3                 | 2.68                    | 2.41                   | 1.16                  |
| 17,379.0              | 89.38           | 179.20      | 9,315.8               | -8,080.0     | 199.3        | 8,082.2                 | 4.54                    | -3.45                  | -2.95                 |
| 17,473.0              | 87.55           | 178.69      | 9,318.3               | -8,173.9     | 201.0        | 8,176.2                 | 2.02                    | -1.95                  | -0.54                 |
| 17,567.0              | 87.81           | 178.52      | 9,322.1               | -8,267.8     | 203.3        | 8,270.1                 | 0.33                    | 0.28                   | -0.18                 |
| 17,661.0              | 89.61           | 179.91      | 9,324.3               | -8,361.8     | 204.6        | 8,364.1                 | 2.42                    | 1.91                   | 1.48                  |
| 17,755.0              | 86.87           | 179.07      | 9,327.1               | -8,455.7     | 205.4        | 8,458.0                 | 3.05                    | -2.91                  | -0.89                 |
| 17,849.0              | 88.84           | 179.56      | 9,330.7               | -8,549.6     | 206.5        | 8,551.9                 | 2.16                    | 2.10                   | 0.52                  |
| 17,942.0              | 90.68           | 180.35      | 9,331.0               | -8,642.6     | 206.6        | 8,644.9                 | 2.15                    | 1.98                   | 0.85                  |
| 18,036.0              | 89.86           | 180.16      | 9,330.6               | -8,736.6     | 206.2        | 8,738.9                 | 0.90                    | -0.87                  | -0.20                 |
| 18,130.0              | 88.16           | 180.95      | 9,332.2               | -8,830.6     | 205.3        | 8,832.8                 | 1.99                    | -1.81                  | 0.84                  |
| 18,224.0              | 89.82           | 181.42      | 9,333.9               | -8,924.6     | 203.3        | 8,926.8                 | 1.84                    | 1.77                   | 0.50                  |
| 18,318.0              | 91.19           | 180.05      | 9,333.1               | -9,018.6     | 202.1        | 9,020.7                 | 2.06                    | 1.46                   | -1.46                 |
| 18,412.0              | 92.51           | 180.65      | 9,330.0               | -9,112.5     | 201.6        | 9,114.6                 | 1.54                    | 1.40                   | 0.64                  |
| 18,506.0              | 90.46           | 180.78      | 9,327.6               | -9,206.5     | 200.4        | 9,208.5                 | 2.19                    | -2.18                  | 0.14                  |
| 18,600.0              | 87.89           | 179.30      | 9,328.9               | -9,300.4     | 200.3        | 9,302.5                 | 3.15                    | -2.73                  | -1.57                 |
| 18,694.0              | 89.21           | 180.50      | 9,331.3               | -9,394.4     | 200.5        | 9,396.5                 | 1.90                    | 1.40                   | 1.28                  |
| 18,787.0              | 92.33           | 181.37      | 9,330.1               | -9,487.4     | 199.0        | 9,489.4                 | 3.48                    | 3.35                   | 0.94                  |
| 18,881.0              | 91.38           | 181.58      | 9,327.0               | -9,581.3     | 196.5        | 9,583.3                 | 1.04                    | -1.01                  | 0.22                  |
| 18,975.0              | 90.29           | 181.31      | 9,325.7               | -9,675.2     | 194.2        | 9,677.2                 | 1.19                    | -1.16                  | -0.29                 |
| 19,069.0              | 88.54           | 180.66      | 9,326.6               | -9,769.2     | 192.6        | 9,771.1                 | 1.99                    | -1.86                  | -0.69                 |
| 19,163.0              | 90.64           | 179.51      | 9,327.3               | -9,863.2     | 192.4        | 9,865.1                 | 2.55                    | 2.23                   | -1.22                 |
| 19,257.0              | 92.56           | 179.71      | 9,324.7               | -9,957.2     | 193.1        | 9,959.0                 | 2.05                    | 2.04                   | 0.21                  |
| 19,351.0              | 94.32           | 179.61      | 9,319.0               | -10,051.0    | 193.6        | 10,052.8                | 1.88                    | 1.87                   | -0.11                 |
| 19,444.0              | 91.89           | 180.06      | 9,314.0               | -10,143.8    | 193.9        | 10,145.7                | 2.66                    | -2.61                  | 0.48                  |
| 19,538.0              | 88.98           | 180.13      | 9,313.3               | -10,237.8    | 193.7        | 10,239.7                | 3.10                    | -3.10                  | 0.07                  |
| 19,632.0              | 88.96           | 179.58      | 9,315.0               | -10,331.8    | 194.0        | 10,333.6                | 0.59                    | -0.02                  | -0.59                 |
| 19,726.0              | 91.54           | 180.30      | 9,314.6               | -10,425.8    | 194.1        | 10,427.6                | 2.85                    | 2.74                   | 0.77                  |
| 19,820.0              | 91.63           | 179.17      | 9,312.0               | -10,519.8    | 194.5        | 10,521.6                | 1.21                    | 0.10                   | -1.20                 |
| 19,914.0              | 89.99           | 177.60      | 9,310.6               | -10,613.7    | 197.1        | 10,615.5                | 2.42                    | -1.74                  | -1.67                 |
| 20,008.0              | 92.08           | 178.31      | 9,308.9               | -10,707.6    | 200.5        | 10,709.5                | 2.35                    | 2.22                   | 0.76                  |
| 20,102.0              | 92.09           | 178.11      | 9,305.5               | -10,801.5    | 203.4        | 10,803.4                | 0.21                    | 0.01                   | -0.21                 |
| 20,196.0              | 89.94           | 178.35      | 9,303.8               | -10,895.5    | 206.3        | 10,897.4                | 2.30                    | -2.29                  | 0.26                  |
| 20,291.0              | 91.30           | 178.61      | 9,302.8               | -10,990.4    | 208.9        | 10,992.4                | 1.46                    | 1.43                   | 0.27                  |
| 20,385.0              | 90.24           | 178.39      | 9,301.5               | -11,084.4    | 211.3        | 11,086.4                | 1.15                    | -1.13                  | -0.23                 |
| 20,479.0              | 88.80           | 178.89      | 9,302.3               | -11,178.3    | 213.5        | 11,180.4                | 1.62                    | -1.53                  | 0.53                  |
| 20,573.0              | 90.57           | 180.17      | 9,302.9               | -11,272.3    | 214.3        | 11,274.4                | 2.32                    | 1.88                   | 1.36                  |
| 20,667.0              | 87.46           | 181.66      | 9,304.5               | -11,366.3    | 212.8        | 11,368.3                | 3.67                    | -3.31                  | 1.59                  |
| 20,760.0              | 87.34           | 182.33      | 9,308.7               | -11,459.1    | 209.6        | 11,461.1                | 0.73                    | -0.13                  | 0.72                  |
| 20,855.0              | 86.91           | 182.82      | 9,313.5               | -11,553.9    | 205.3        | 11,555.8                | 0.69                    | -0.45                  | 0.52                  |

## Survey Report

|                  |                              |                                     |                                    |
|------------------|------------------------------|-------------------------------------|------------------------------------|
| <b>Company:</b>  | NORTHERN DELAWARE BASIN      | <b>Local Co-ordinate Reference:</b> | Well HONEY GRAHAM STATE COM#701H   |
| <b>Project:</b>  | EDDY COUNTY, NM              | <b>TVD Reference:</b>               | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Site:</b>     | ATLAS                        | <b>MD Reference:</b>                | KB=27' @ 3091.0usft (Scan Freedom) |
| <b>Well:</b>     | HONEY GRAHAM STATE COM #701H | <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) |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 20,949.0                             | 87.96           | 183.36      | 9,317.7               | -11,647.7    | 200.3        | 11,649.4                | 1.26                    | 1.12                   | 0.57                  |
| 21,043.0                             | 91.17           | 183.39      | 9,318.4               | -11,741.5    | 194.7        | 11,743.1                | 3.42                    | 3.41                   | 0.03                  |
| 21,137.0                             | 92.79           | 184.72      | 9,315.1               | -11,835.2    | 188.1        | 11,836.7                | 2.23                    | 1.72                   | 1.41                  |
| 21,232.0                             | 91.06           | 184.55      | 9,311.9               | -11,929.9    | 180.4        | 11,931.2                | 1.83                    | -1.82                  | -0.18                 |
| 21,326.0                             | 90.83           | 183.27      | 9,310.4               | -12,023.6    | 174.0        | 12,024.8                | 1.38                    | -0.24                  | -1.36                 |
| 21,420.0                             | 90.16           | 181.31      | 9,309.6               | -12,117.5    | 170.2        | 12,118.7                | 2.20                    | -0.71                  | -2.09                 |
| 21,499.1                             | 85.84           | 179.56      | 9,312.3               | -12,196.6    | 169.6        | 12,197.7                | 5.89                    | -5.46                  | -2.21                 |
| <b>LTP @ 21499.1'MD / 9312.3'TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 21,515.0                             | 84.97           | 179.21      | 9,313.6               | -12,212.4    | 169.8        | 12,213.5                | 5.89                    | -5.46                  | -2.22                 |
| 21,561.0                             | 83.50           | 178.71      | 9,318.2               | -12,258.2    | 170.6        | 12,259.3                | 3.37                    | -3.20                  | -1.09                 |
| <b>LAST MWD SVY @ 21561'MD</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 21,629.0                             | 83.50           | 178.71      | 9,325.9               | -12,325.7    | 172.2        | 12,326.8                | 0.00                    | 0.00                   | 0.00                  |
| <b>PTD @ 21629'MD</b>                |                 |             |                       |              |              |                         |                         |                        |                       |

### Design Targets

| Target Name                                                                                            | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude       | Longitude       |
|--------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|----------------|-----------------|
| - hit/miss target                                                                                      |               |              |            |              |              |                 |                |                |                 |
| - Shape                                                                                                |               |              |            |              |              |                 |                |                |                 |
| LTP (HONEY GRAHA                                                                                       | 0.00          | 0.00         | 9,292.6    | -12,196.6    | 214.4        | 364,072.40      | 571,612.90     | 32° 0' 2.657 N | 104° 6' 8.346 W |
| - actual wellpath misses target center by 48.9usft at 21498.1usft MD (9312.3 TVD, -12195.6 N, 169.6 E) |               |              |            |              |              |                 |                |                |                 |
| - Point                                                                                                |               |              |            |              |              |                 |                |                |                 |
| PBHL (HONEY GRAH                                                                                       | 0.27          | 359.91       | 9,307.0    | -12,326.5    | 214.6        | 363,942.50      | 571,613.10     | 32° 0' 1.372 N | 104° 6' 8.347 W |
| - actual wellpath misses target center by 46.5usft at 21628.6usft MD (9325.9 TVD, -12325.3 N, 172.2 E) |               |              |            |              |              |                 |                |                |                 |
| - Rectangle (sides W100.0 H12,550.0 D20.0)                                                             |               |              |            |              |              |                 |                |                |                 |
| FTP (HONEY GRAHA                                                                                       | 0.00          | 0.00         | 9,365.0    | -11.3        | 195.0        | 376,257.70      | 571,593.50     | 32° 2' 3.251 N | 104° 6' 8.269 W |
| - actual wellpath misses target center by 153.5usft at 9362.0usft MD (9248.0 TVD, -90.8 N, 135.4 E)    |               |              |            |              |              |                 |                |                |                 |
| - Circle (radius 50.0)                                                                                 |               |              |            |              |              |                 |                |                |                 |

### Design Annotations

|  | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                       |
|--|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|
|  |                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                               |
|  | 9,262.5                     | 9,188.9                     | -11.0             | 132.3           | FTP @ 9262.5'MD / 91.88.9'TVD |
|  | 21,499.1                    | 9,312.3                     | -12,196.6         | 169.6           | LTP @ 21499.1'MD / 9312.3'TVD |
|  | 21,561.0                    | 9,318.2                     | -12,258.2         | 170.6           | LAST MWD SVY @ 21561'MD       |
|  | 21,629.0                    | 9,325.9                     | -12,325.7         | 172.2           | PTD @ 21629'MD                |

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