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District I  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
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

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

EMNRD-OCD ARTESIA

☒ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                                     |                                                       |
|-----------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-45644 | <sup>2</sup> Pool Code<br>96144                                     | <sup>3</sup> Pool Name<br>CARLSBAD; BONE SPRING, EAST |
| <sup>4</sup> Property Code<br>323153    | <sup>5</sup> Property Name<br>LONE TREE DRAW 14-13 STATE COM        | <sup>6</sup> Well Number<br>336H                      |
| <sup>7</sup> OGRID No.<br>6137          | <sup>8</sup> Operator Name<br>DEVON ENERGY PRODUCTION COMPANY, L.P. | <sup>9</sup> Elevation<br>3259.1                      |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M             | 14      | 21 S     | 27 E  |         | 377           | SOUTH            | 172           | WEST           | EDDY   |

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

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 13      | 21 S     | 27 E  |         | 353           | SOUTH            | 102           | EAST           | EDDY   |

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

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

|                                                                                                                                                      |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------|--|
| <p>NW CORNER SEC. 14<br/>LAT. = 32.4874912N<br/>LONG. = 104.1691037W<br/>NMSP EAST (FT)<br/>N = 541119.08<br/>E = 591975.56</p>                      |  | <p>N/4 CORNER SEC. 14<br/>LAT. = 32.4875224N<br/>LONG. = 104.1604749W<br/>NMSP EAST (FT)<br/>N = 541134.64<br/>E = 594636.11</p> |  | <p>SECTION CORNER<br/>LAT. = 32.4875562N<br/>LONG. = 104.1518459W<br/>NMSP EAST (FT)<br/>N = 541151.36<br/>E = 597296.73</p> |  | <p>N/4 CORNER SEC. 13<br/>LAT. = 32.4875870N<br/>LONG. = 104.1431449W<br/>NMSP EAST (FT)<br/>N = 541167.23<br/>E = 599979.56</p> |  | <p>NE CORNER SEC. 13<br/>LAT. = 32.4876206N<br/>LONG. = 104.1344381W<br/>NMSP EAST (FT)<br/>N = 541184.34<br/>E = 602664.16</p> |  |
| N89°39'53"E 2661.24 FT                                                                                                                               |  | N89°38'24"E 2661.31 FT                                                                                                           |  | N89°39'40"E 2683.52 FT                                                                                                       |  | N89°38'05"E 2685.30 FT                                                                                                           |  |                                                                                                                                 |  |
| <p><b>AS-DRILLED</b></p>                                                                                                                             |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>SEC. 14      SEC. 13</p>                                                                                                                          |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>W/4 CORNER SEC. 14<br/>LAT. = 32.4801923N<br/>LONG. = 104.1680965W<br/>NMSP EAST (FT)<br/>N = 538463.77<br/>E = 591983.67</p>                     |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>ELEV. = 3259.1'<br/>LAT. = 32.4739251N (NAD83)<br/>LONG. = 104.1686762W<br/>NMSP EAST (FT)<br/>N = 536184.04<br/>E = 592157.40</p>                |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>KICK OFF POINT<br/>312' FSL; 87' FWL<br/>LAT. = 32.4737449N<br/>LONG. = 104.1688131W</p>                                                          |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>FIRST TAKE POINT<br/>324' FSL; 538' FWL<br/>LAT. = 32.4737847N<br/>LONG. = 104.1673535W</p>                                                       |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>QUARTER CORNER<br/>LAT. = 32.4802576N<br/>LONG. = 104.1518272W<br/>NMSP EAST (FT)<br/>N = 538496.17<br/>E = 597307.02</p>                         |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>E/4 CORNER SEC. 13<br/>LAT. = 32.4803887N<br/>LONG. = 104.1344261W<br/>NMSP EAST (FT)<br/>N = 538553.42<br/>E = 602672.77</p>                     |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>LAST TAKE POINT<br/>351' FSL, 132' FWL<br/>LAT. = 32.4741244N<br/>LONG. = 104.1348454W<br/>NMSP EAST (FT)<br/>N = 536275.97<br/>E = 602577.58</p> |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>BOTTOM OF HOLE<br/>LAT. = 32.4741290N<br/>LONG. = 104.1347486W<br/>NMSP EAST (FT)<br/>N = 536275.97<br/>E = 602577.58</p>                         |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>BOTTOM OF HOLE<br/>LTP<br/>102'</p>                                                                                                               |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>SW CORNER SEC. 14<br/>LAT. = 32.4728864N<br/>LONG. = 104.1690972W<br/>NMSP EAST (FT)<br/>N = 535805.90<br/>E = 591985.75</p>                      |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>S/4 CORNER SEC. 14<br/>LAT. = 32.4729258N<br/>LONG. = 104.1604401W<br/>NMSP EAST (FT)<br/>N = 535824.45<br/>E = 594655.45</p>                     |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>SECTION CORNER<br/>LAT. = 32.4729691N<br/>LONG. = 104.1517858W<br/>NMSP EAST (FT)<br/>N = 535844.86<br/>E = 597324.31</p>                         |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>S/4 CORNER SEC. 13<br/>LAT. = 32.4730669N<br/>LONG. = 104.1431032W<br/>NMSP EAST (FT)<br/>N = 535884.89<br/>E = 600001.85</p>                     |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |
| <p>SE CORNER SEC. 13<br/>LAT. = 32.4731637N<br/>LONG. = 104.1344163W<br/>NMSP EAST (FT)<br/>N = 535924.99<br/>E = 602680.71</p>                      |  |                                                                                                                                  |  |                                                                                                                              |  |                                                                                                                                  |  |                                                                                                                                 |  |

**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.

*Erin Workman* 12/20/19  
Signature Date

Erin Workman  
Printed Name

Erin.workman@dvn.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.

DECEMBER 6, 2018  
Date of Survey

Signature and Seal of Professional Surveyor:  
Certificate Number: 12797  
J. JARVIS F. JARAMILLO, PLS 12797  
PROFESSIONAL SURVEYOR NO. 6733

Intent ☐ As Drilled ☒

API #

|                                                            |                                                     |                     |
|------------------------------------------------------------|-----------------------------------------------------|---------------------|
| Operator Name:<br>DEVON ENERGY PRODUCTION<br>COMPANY, L.P. | Property Name:<br>LONE TREE DRAW 14-13 STATE<br>COM | Well Number<br>336H |
|------------------------------------------------------------|-----------------------------------------------------|---------------------|

Kick Off Point (KOP)

|                        |               |                 |              |     |                          |                   |            |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|------------|------------------|----------------|
| UL<br>M                | Section<br>14 | Township<br>21S | Range<br>27E | Lot | Feet<br>312              | From N/S<br>SOUTH | Feet<br>87 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.4737449 |               |                 |              |     | Longitude<br>104.1688131 |                   |            | NAD<br>83        |                |

First Take Point (FTP)

|                        |               |                 |              |     |                          |                   |             |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>M                | Section<br>14 | Township<br>21S | Range<br>27E | Lot | Feet<br>324              | From N/S<br>SOUTH | Feet<br>538 | From E/W<br>WEST | County<br>EDDY |
| Latitude<br>32.4737847 |               |                 |              |     | Longitude<br>104.1673535 |                   |             | NAD<br>83        |                |

Last Take Point (LTP)

|                        |               |                 |              |     |                          |                   |             |                  |                |
|------------------------|---------------|-----------------|--------------|-----|--------------------------|-------------------|-------------|------------------|----------------|
| UL<br>P                | Section<br>13 | Township<br>21S | Range<br>27E | Lot | Feet<br>351              | From N/S<br>SOUTH | Feet<br>132 | From E/W<br>EAST | County<br>EDDY |
| Latitude<br>32.4741244 |               |                 |              |     | Longitude<br>104.1348454 |                   |             | NAD<br>83        |                |

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

Is this well an infill well? ☐

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

API #  
30-015-45637

|                                                   |                                                  |                     |
|---------------------------------------------------|--------------------------------------------------|---------------------|
| Operator Name:<br>Devon Energy Production Co., LP | Property Name:<br>Lone Tree Draw 14-13 State Com | Well Number<br>335H |
|---------------------------------------------------|--------------------------------------------------|---------------------|

KZ 06/29/2018

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JAN 10 2020

EMNRD-OCD ARTESIA

Devon

# SURVEY REPORT

Lone Tree Draw 14-13 Fed Com 336H

This survey is correct to the best of my knowledge and is supported by actual field data.

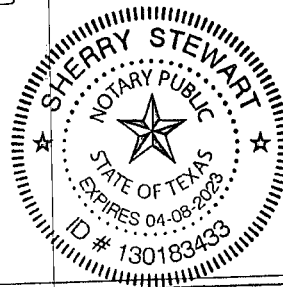
Notarized this data 19th of December, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The **Ultimate Partner** In Wellbore Placement

# **Devon Energy**

Eddy County, NM (NAD83 NME)  
Lone Tree Draw 14-13 State Com  
336H

OH

Survey: SDI ST1 Surveys

## **Standard Survey Report**

24 July, 2019



[www.scientificdrilling.com](http://www.scientificdrilling.com)



# Scientific Drilling, Intl Survey Report

|                  |                                |                                     |                                     |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | Devon Energy                   | <b>Local Co-ordinate Reference:</b> | Well 336H                           |
| <b>Project:</b>  | Eddy County, NM (NAD83 NME)    | <b>TVD Reference:</b>               | KB = 27' @ 3286.00usft (Cactus 167) |
| <b>Site:</b>     | Lone Tree Draw 14-13 State Com | <b>MD Reference:</b>                | KB = 27' @ 3286.00usft (Cactus 167) |
| <b>Well:</b>     | 336H                           | <b>North Reference:</b>             | Grid                                |
| <b>Wellbore:</b> | OH                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | OH                             | <b>Database:</b>                    | Midland District                    |

|                    |                             |                      |                             |
|--------------------|-----------------------------|----------------------|-----------------------------|
| <b>Project</b>     | Eddy County, NM (NAD83 NME) |                      |                             |
| <b>Map System:</b> | US State Plane 1983         | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983   |                      |                             |
| <b>Map Zone:</b>   | New Mexico Eastern Zone     |                      | Using geodetic scale factor |

|                              |                                |                          |                  |
|------------------------------|--------------------------------|--------------------------|------------------|
| <b>Site</b>                  | Lone Tree Draw 14-13 State Com |                          |                  |
| <b>Site Position:</b>        |                                | <b>Northing:</b>         | 536,203.20 usft  |
| <b>From:</b>                 | Map                            | <b>Easting:</b>          | 592,180.41 usft  |
| <b>Position Uncertainty:</b> | 0.00 usft                      | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |                                | <b>Latitude:</b>         | 32° 28' 26.319 N |
|                              |                                | <b>Longitude:</b>        | 104° 10' 6.470 W |
|                              |                                | <b>Grid Convergence:</b> | 0.09 °           |

|                      |       |           |                     |                 |               |                  |
|----------------------|-------|-----------|---------------------|-----------------|---------------|------------------|
| Well                 | 336H  |           |                     |                 |               |                  |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 536,184.04 usft | Latitude:     | 32° 28' 26.130 N |
|                      | +E/-W | 0.00 usft | Easting:            | 592,157.40 usft | Longitude:    | 104° 10' 6.739 W |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: | 0.00 usft       | Ground Level: | 3,259.00 usft    |

|           |            |             |             |           |                |
|-----------|------------|-------------|-------------|-----------|----------------|
| Wellbore  |            |             |             | OH        |                |
|           |            |             |             |           |                |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
|           |            |             | (°)         | (°)       | (nT)           |
|           | HDGM       | 6/12/2019   | 7.18        | 60.20     | 47,952         |

|                   |                  |        |        |               |      |
|-------------------|------------------|--------|--------|---------------|------|
| Design            |                  | OH     |        |               |      |
| Audit Notes:      |                  |        |        |               |      |
| Version:          | 1.0              | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S  | +E/-W  | Direction     |      |
|                   | (usft)           | (usft) | (usft) | (bearing)     |      |
|                   | 0.00             | 0.00   | 0.00   | 89.61         |      |

|                       |             |                          |                  |                    |
|-----------------------|-------------|--------------------------|------------------|--------------------|
| <b>Survey Program</b> | <b>Date</b> | 7/24/2019                |                  |                    |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |
| (usft)                | (usft)      |                          |                  |                    |
| 46.50                 | 8,337.00    | SDI PH Surveys (OH)      | MWD+HDGM         | OWSG MWD + HDGM    |
| 8,432.00              | 19,172.00   | SDI ST1 Surveys (OH)     | MWD+HDGM         | OWSG MWD + HDGM    |

|                       |                    |                |                       |              |              |                         |                    |                   |                  |
|-----------------------|--------------------|----------------|-----------------------|--------------|--------------|-------------------------|--------------------|-------------------|------------------|
| <b>Survey</b>         |                    |                |                       |              |              |                         |                    |                   |                  |
| <b>Measured Depth</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical Depth</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Vertical Section</b> | <b>Dogleg Rate</b> | <b>Build Rate</b> | <b>Turn Rate</b> |
| (usft)                | (°)                | (bearing)      | (usft)                | (usft)       | (usft)       | (usft)                  | (°/100usft)        | (°/100usft)       | (°/100usft)      |
| 8,337.00              | 1.16               | 178.86         | 8,333.73              | -70.08       | -80.74       | -81.21                  | 0.00               | 0.00              | 0.00             |
| 8,432.00              | 9.18               | 95.03          | 8,428.31              | -71.71       | -73.15       | -73.64                  | 9.61               | 8.44              | -88.24           |
| 8,479.00              | 14.49              | 90.83          | 8,474.29              | -72.13       | -63.53       | -64.02                  | 11.44              | 11.30             | -8.94            |
| 8,527.00              | 19.59              | 88.03          | 8,520.17              | -71.94       | -49.48       | -49.96                  | 10.76              | 10.63             | -5.83            |
| 8,574.00              | 26.22              | 87.65          | 8,563.44              | -71.24       | -31.21       | -31.69                  | 14.11              | 14.11             | -0.81            |
| 8,622.00              | 33.16              | 86.27          | 8,605.12              | -69.95       | -7.48        | -7.96                   | 14.53              | 14.46             | -2.88            |
| 8,669.00              | 39.71              | 87.58          | 8,642.91              | -68.48       | 20.38        | 19.91                   | 14.03              | 13.94             | 2.79             |
| 8,717.00              | 43.87              | 86.72          | 8,678.69              | -66.88       | 52.31        | 51.86                   | 8.75               | 8.67              | -1.79            |
| 8,764.00              | 46.93              | 86.27          | 8,711.69              | -64.83       | 85.71        | 85.27                   | 6.55               | 6.51              | -0.96            |
| 8,812.00              | 49.54              | 86.86          | 8,743.66              | -62.69       | 121.45       | 121.02                  | 5.51               | 5.44              | 1.23             |

# Scientific Drilling, Intl Survey Report

|           |                                |                              |                                     |
|-----------|--------------------------------|------------------------------|-------------------------------------|
| Company:  | Devon Energy                   | Local Co-ordinate Reference: | Well 336H                           |
| Project:  | Eddy County, NM (NAD83 NME)    | TVD Reference:               | KB = 27' @ 3286.00usft (Cactus 167) |
| Site:     | Lone Tree Draw 14-13 State Com | MD Reference:                | KB = 27' @ 3286.00usft (Cactus 167) |
| Well:     | 336H                           | North Reference:             | Grid                                |
| Wellbore: | OH                             | Survey Calculation Method:   | Minimum Curvature                   |
| Design:   | OH                             | Database:                    | Midland District                    |

| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,832.93              | 50.85           | 87.48             | 8,757.05              | -61.90       | 137.51       | 137.08                  | 6.67                    | 6.27                   | 2.98                  |
| <b>FTP[LT336H]</b>    |                 |                   |                       |              |              |                         |                         |                        |                       |
| 8,859.00              | 52.49           | 88.23             | 8,773.22              | -61.13       | 157.94       | 157.52                  | 6.67                    | 6.28                   | 2.86                  |
| 8,907.00              | 56.94           | 86.88             | 8,800.94              | -59.45       | 197.08       | 196.67                  | 9.55                    | 9.27                   | -2.81                 |
| 8,954.00              | 60.57           | 87.30             | 8,825.32              | -57.41       | 237.20       | 236.81                  | 7.76                    | 7.72                   | 0.89                  |
| 9,002.00              | 63.31           | 88.25             | 8,847.89              | -55.77       | 279.52       | 279.14                  | 5.97                    | 5.71                   | 1.98                  |
| 9,049.00              | 66.84           | 89.28             | 8,867.70              | -54.86       | 322.13       | 321.75                  | 7.77                    | 7.51                   | 2.19                  |
| 9,098.00              | 69.95           | 89.03             | 8,885.74              | -54.19       | 367.67       | 367.30                  | 6.36                    | 6.35                   | -0.51                 |
| 9,145.00              | 73.56           | 87.16             | 8,900.45              | -52.69       | 412.28       | 411.91                  | 8.56                    | 7.68                   | -3.98                 |
| 9,193.00              | 77.97           | 85.65             | 8,912.25              | -49.77       | 458.70       | 458.35                  | 9.68                    | 9.19                   | -3.15                 |
| 9,240.00              | 82.75           | 85.98             | 8,920.12              | -46.39       | 504.90       | 504.57                  | 10.19                   | 10.17                  | 0.70                  |
| 9,290.00              | 87.55           | 87.61             | 8,924.35              | -43.61       | 554.63       | 554.32                  | 10.13                   | 9.60                   | 3.26                  |
| 9,384.00              | 88.49           | 88.55             | 8,927.60              | -40.46       | 648.51       | 648.22                  | 1.41                    | 1.00                   | 1.00                  |
| 9,479.00              | 86.98           | 88.65             | 8,931.35              | -38.14       | 743.41       | 743.13                  | 1.59                    | -1.59                  | 0.11                  |
| 9,575.00              | 86.71           | 89.00             | 8,936.63              | -36.18       | 839.24       | 838.98                  | 0.46                    | -0.28                  | 0.36                  |
| 9,670.00              | 86.21           | 88.75             | 8,942.50              | -34.32       | 934.04       | 933.79                  | 0.59                    | -0.53                  | -0.26                 |
| 9,765.00              | 86.78           | 88.41             | 8,948.31              | -31.97       | 1,028.84     | 1,028.59                | 0.70                    | 0.60                   | -0.36                 |
| 9,861.00              | 89.26           | 87.64             | 8,951.62              | -28.66       | 1,124.71     | 1,124.49                | 2.70                    | 2.58                   | -0.80                 |
| 9,956.00              | 88.42           | 86.98             | 8,953.55              | -24.20       | 1,219.59     | 1,219.39                | 1.12                    | -0.88                  | -0.69                 |
| 10,051.00             | 87.89           | 86.81             | 8,956.61              | -19.06       | 1,314.40     | 1,314.24                | 0.59                    | -0.56                  | -0.18                 |
| 10,147.00             | 88.86           | 88.40             | 8,959.33              | -15.05       | 1,410.27     | 1,410.14                | 1.94                    | 1.01                   | 1.66                  |
| 10,242.00             | 88.93           | 88.76             | 8,961.16              | -12.70       | 1,505.22     | 1,505.10                | 0.39                    | 0.07                   | 0.38                  |
| 10,338.00             | 86.36           | 89.52             | 8,965.11              | -11.26       | 1,601.12     | 1,601.01                | 2.79                    | -2.68                  | 0.79                  |
| 10,433.00             | 85.68           | 89.52             | 8,971.70              | -10.46       | 1,695.89     | 1,695.78                | 0.72                    | -0.72                  | 0.00                  |
| 10,528.00             | 86.36           | 89.21             | 8,978.29              | -9.41        | 1,790.66     | 1,790.55                | 0.79                    | 0.72                   | -0.33                 |
| 10,624.00             | 87.95           | 89.31             | 8,983.06              | -8.17        | 1,886.53     | 1,886.43                | 1.66                    | 1.66                   | 0.10                  |
| 10,719.00             | 88.93           | 90.56             | 8,985.64              | -8.07        | 1,981.49     | 1,981.39                | 1.67                    | 1.03                   | 1.32                  |
| 10,814.00             | 88.73           | 90.91             | 8,987.58              | -9.28        | 2,076.46     | 2,076.35                | 0.42                    | -0.21                  | 0.37                  |
| 10,910.00             | 88.76           | 90.32             | 8,989.69              | -10.31       | 2,172.43     | 2,172.31                | 0.62                    | 0.03                   | -0.61                 |
| 11,004.00             | 88.73           | 90.66             | 8,991.75              | -11.12       | 2,266.41     | 2,266.28                | 0.36                    | -0.03                  | 0.36                  |
| 11,099.00             | 88.72           | 89.80             | 8,993.86              | -11.50       | 2,361.38     | 2,361.25                | 0.91                    | -0.01                  | -0.91                 |
| 11,194.00             | 88.52           | 89.71             | 8,996.15              | -11.09       | 2,456.35     | 2,456.22                | 0.23                    | -0.21                  | -0.09                 |
| 11,290.00             | 88.42           | 89.52             | 8,998.71              | -10.45       | 2,552.31     | 2,552.18                | 0.22                    | -0.10                  | -0.20                 |
| 11,384.00             | 88.16           | 89.60             | 9,001.52              | -9.73        | 2,646.27     | 2,646.14                | 0.29                    | -0.28                  | 0.09                  |
| 11,480.00             | 89.56           | 90.02             | 9,003.43              | -9.41        | 2,742.25     | 2,742.12                | 1.52                    | 1.46                   | 0.44                  |
| 11,575.00             | 89.46           | 90.27             | 9,004.24              | -9.65        | 2,837.24     | 2,837.11                | 0.28                    | -0.11                  | 0.26                  |
| 11,670.00             | 89.46           | 90.53             | 9,005.13              | -10.31       | 2,932.24     | 2,932.10                | 0.27                    | 0.00                   | 0.27                  |
| 11,765.00             | 89.40           | 90.35             | 9,006.08              | -11.04       | 3,027.23     | 3,027.08                | 0.20                    | -0.06                  | -0.19                 |
| 11,860.00             | 89.43           | 90.11             | 9,007.05              | -11.42       | 3,122.22     | 3,122.07                | 0.25                    | 0.03                   | -0.25                 |
| 11,956.00             | 89.19           | 89.67             | 9,008.20              | -11.24       | 3,218.22     | 3,218.07                | 0.52                    | -0.25                  | -0.46                 |
| 12,051.00             | 88.83           | 89.54             | 9,009.85              | -10.58       | 3,313.20     | 3,313.05                | 0.40                    | -0.38                  | -0.14                 |
| 12,146.00             | 88.32           | 89.47             | 9,012.21              | -9.76        | 3,408.17     | 3,408.02                | 0.54                    | -0.54                  | -0.07                 |
| 12,241.00             | 88.06           | 89.05             | 9,015.21              | -8.54        | 3,503.11     | 3,502.97                | 0.52                    | -0.27                  | -0.44                 |

# Scientific Drilling, Intl Survey Report

|                  |                                |                                     |                                     |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | Devon Energy                   | <b>Local Co-ordinate Reference:</b> | Well 336H                           |
| <b>Project:</b>  | Eddy County, NM (NAD83 NME)    | <b>TVD Reference:</b>               | KB = 27' @ 3286.00usft (Cactus 167) |
| <b>Site:</b>     | Lone Tree Draw 14-13 State Com | <b>MD Reference:</b>                | KB = 27' @ 3286.00usft (Cactus 167) |
| <b>Well:</b>     | 336H                           | <b>North Reference:</b>             | Grid                                |
| <b>Wellbore:</b> | OH                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | OH                             | <b>Database:</b>                    | Midland District                    |

| Survey                |                 |                   |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 12,336.00             | 88.86           | 88.22             | 9,017.76              | -6.28        | 3,598.05     | 3,597.92                | 1.21                    | 0.84                   | -0.87                 |  |
| 12,431.00             | 88.25           | 87.20             | 9,020.16              | -2.48        | 3,692.94     | 3,692.84                | 1.25                    | -0.64                  | -1.07                 |  |
| 12,527.00             | 88.79           | 87.01             | 9,022.64              | 2.37         | 3,788.79     | 3,788.71                | 0.60                    | 0.56                   | -0.20                 |  |
| 12,622.00             | 89.70           | 88.59             | 9,023.89              | 6.01         | 3,883.70     | 3,883.65                | 1.92                    | 0.96                   | 1.66                  |  |
| 12,717.00             | 90.03           | 88.30             | 9,024.11              | 8.59         | 3,978.67     | 3,978.63                | 0.46                    | 0.35                   | -0.31                 |  |
| 12,812.00             | 90.13           | 89.80             | 9,023.98              | 10.17        | 4,073.65     | 4,073.63                | 1.58                    | 0.11                   | 1.58                  |  |
| 12,907.00             | 89.93           | 90.19             | 9,023.93              | 10.17        | 4,168.65     | 4,168.62                | 0.46                    | -0.21                  | 0.41                  |  |
| 13,002.00             | 88.56           | 90.58             | 9,025.18              | 9.54         | 4,263.64     | 4,263.61                | 1.50                    | -1.44                  | 0.41                  |  |
| 13,096.00             | 88.62           | 90.50             | 9,027.50              | 8.65         | 4,357.61     | 4,357.56                | 0.11                    | 0.06                   | -0.09                 |  |
| 13,191.00             | 88.69           | 89.79             | 9,029.72              | 8.41         | 4,452.58     | 4,452.53                | 0.75                    | 0.07                   | -0.75                 |  |
| 13,286.00             | 88.82           | 89.60             | 9,031.79              | 8.92         | 4,547.56     | 4,547.51                | 0.24                    | 0.14                   | -0.20                 |  |
| 13,382.00             | 88.75           | 89.35             | 9,033.82              | 9.79         | 4,643.53     | 4,643.49                | 0.27                    | -0.07                  | -0.26                 |  |
| 13,477.00             | 88.15           | 89.65             | 9,036.39              | 10.62        | 4,738.49     | 4,738.45                | 0.71                    | -0.63                  | 0.32                  |  |
| 13,572.00             | 88.42           | 90.33             | 9,039.24              | 10.64        | 4,833.45     | 4,833.41                | 0.77                    | 0.28                   | 0.72                  |  |
| 13,668.00             | 88.28           | 89.52             | 9,042.00              | 10.77        | 4,929.41     | 4,929.37                | 0.86                    | -0.15                  | -0.84                 |  |
| 13,763.00             | 88.72           | 88.96             | 9,044.49              | 12.03        | 5,024.37     | 5,024.33                | 0.75                    | 0.46                   | -0.59                 |  |
| 13,858.00             | 89.83           | 90.14             | 9,045.69              | 12.77        | 5,119.35     | 5,119.32                | 1.71                    | 1.17                   | 1.24                  |  |
| 13,953.00             | 91.51           | 90.38             | 9,044.58              | 12.34        | 5,214.34     | 5,214.30                | 1.79                    | 1.77                   | 0.25                  |  |
| 14,048.00             | 89.63           | 90.93             | 9,043.63              | 11.25        | 5,309.33     | 5,309.28                | 2.06                    | -1.98                  | 0.58                  |  |
| 14,144.00             | 88.89           | 90.43             | 9,044.87              | 10.11        | 5,405.31     | 5,405.25                | 0.93                    | -0.77                  | -0.52                 |  |
| 14,239.00             | 88.05           | 90.27             | 9,047.41              | 9.53         | 5,500.27     | 5,500.21                | 0.90                    | -0.88                  | -0.17                 |  |
| 14,333.00             | 86.94           | 88.62             | 9,051.52              | 10.44        | 5,594.17     | 5,594.12                | 2.11                    | -1.18                  | -1.76                 |  |
| 14,429.00             | 86.95           | 88.41             | 9,056.64              | 12.93        | 5,690.01     | 5,689.96                | 0.22                    | 0.01                   | -0.22                 |  |
| 14,524.00             | 86.90           | 88.12             | 9,061.73              | 15.80        | 5,784.83     | 5,784.80                | 0.31                    | -0.05                  | -0.31                 |  |
| 14,620.00             | 87.78           | 88.02             | 9,066.19              | 19.03        | 5,880.67     | 5,880.66                | 0.92                    | 0.92                   | -0.10                 |  |
| 14,715.00             | 87.44           | 87.96             | 9,070.15              | 22.36        | 5,975.53     | 5,975.54                | 0.36                    | -0.36                  | -0.06                 |  |
| 14,809.00             | 88.62           | 88.61             | 9,073.38              | 25.17        | 6,069.43     | 6,069.46                | 1.43                    | 1.26                   | 0.69                  |  |
| 14,904.00             | 90.84           | 89.65             | 9,073.83              | 26.61        | 6,164.41     | 6,164.44                | 2.58                    | 2.34                   | 1.09                  |  |
| 14,999.00             | 89.33           | 89.52             | 9,073.69              | 27.30        | 6,259.40     | 6,259.44                | 1.60                    | -1.59                  | -0.14                 |  |
| 15,094.00             | 89.36           | 89.16             | 9,074.77              | 28.39        | 6,354.39     | 6,354.43                | 0.38                    | 0.03                   | -0.38                 |  |
| 15,189.00             | 88.73           | 88.69             | 9,076.36              | 30.18        | 6,449.36     | 6,449.41                | 0.83                    | -0.66                  | -0.49                 |  |
| 15,283.00             | 87.79           | 87.72             | 9,079.21              | 33.12        | 6,543.27     | 6,543.34                | 1.44                    | -1.00                  | -1.03                 |  |
| 15,379.00             | 87.81           | 87.66             | 9,082.90              | 36.99        | 6,639.12     | 6,639.22                | 0.07                    | 0.02                   | -0.06                 |  |
| 15,474.00             | 87.89           | 87.36             | 9,086.46              | 41.11        | 6,733.96     | 6,734.08                | 0.33                    | 0.08                   | -0.32                 |  |
| 15,570.00             | 89.06           | 88.94             | 9,089.01              | 44.21        | 6,829.87     | 6,830.01                | 2.05                    | 1.22                   | 1.65                  |  |
| 15,665.00             | 89.20           | 89.00             | 9,090.46              | 45.92        | 6,924.85     | 6,925.00                | 0.16                    | 0.15                   | 0.06                  |  |
| 15,759.00             | 89.13           | 88.26             | 9,091.83              | 48.16        | 7,018.81     | 7,018.97                | 0.79                    | -0.07                  | -0.79                 |  |
| 15,854.00             | 90.37           | 89.11             | 9,092.24              | 50.34        | 7,113.78     | 7,113.96                | 1.58                    | 1.31                   | 0.89                  |  |
| 15,950.00             | 90.44           | 88.82             | 9,091.56              | 52.08        | 7,209.76     | 7,209.95                | 0.31                    | 0.07                   | -0.30                 |  |
| 16,046.00             | 89.56           | 89.86             | 9,091.56              | 53.18        | 7,305.75     | 7,305.95                | 1.42                    | -0.92                  | 1.08                  |  |
| 16,140.00             | 89.66           | 89.67             | 9,092.20              | 53.57        | 7,399.75     | 7,399.94                | 0.23                    | 0.11                   | -0.20                 |  |
| 16,235.00             | 89.50           | 89.18             | 9,092.90              | 54.52        | 7,494.74     | 7,494.94                | 0.54                    | -0.17                  | -0.52                 |  |
| 16,328.00             | 88.49           | 90.41             | 9,094.53              | 54.85        | 7,587.72     | 7,587.92                | 1.71                    | -1.09                  | 1.32                  |  |

# Scientific Drilling, Intl Survey Report

|                  |                                |                                     |                                     |
|------------------|--------------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | Devon Energy                   | <b>Local Co-ordinate Reference:</b> | Well 336H                           |
| <b>Project:</b>  | Eddy County, NM (NAD83 NME)    | <b>TVD Reference:</b>               | KB = 27' @ 3286.00usft (Cactus 167) |
| <b>Site:</b>     | Lone Tree Draw 14-13 State Com | <b>MD Reference:</b>                | KB = 27' @ 3286.00usft (Cactus 167) |
| <b>Well:</b>     | 336H                           | <b>North Reference:</b>             | Grid                                |
| <b>Wellbore:</b> | OH                             | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | OH                             | <b>Database:</b>                    | Midland District                    |

| Survey                                            |                 |                   |                       |             |             |                         |                         |                        |                       |
|---------------------------------------------------|-----------------|-------------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                             | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 16,423.00                                         | 87.62           | 90.83             | 9,097.76              | 53.83       | 7,682.66    | 7,682.85                | 1.02                    | -0.92                  | 0.44                  |
| 16,518.00                                         | 87.08           | 90.20             | 9,102.15              | 52.97       | 7,777.56    | 7,777.74                | 0.87                    | -0.57                  | -0.66                 |
| 16,613.00                                         | 86.67           | 90.33             | 9,107.33              | 52.54       | 7,872.41    | 7,872.59                | 0.45                    | -0.43                  | 0.14                  |
| 16,708.00                                         | 86.61           | 90.13             | 9,112.89              | 52.15       | 7,967.25    | 7,967.42                | 0.22                    | -0.06                  | -0.21                 |
| 16,802.00                                         | 86.24           | 89.91             | 9,118.76              | 52.12       | 8,061.07    | 8,061.23                | 0.46                    | -0.39                  | -0.23                 |
| 16,896.00                                         | 87.68           | 89.99             | 9,123.74              | 52.20       | 8,154.93    | 8,155.10                | 1.53                    | 1.53                   | 0.09                  |
| 16,992.00                                         | 87.89           | 89.44             | 9,127.45              | 52.68       | 8,250.86    | 8,251.03                | 0.61                    | 0.22                   | -0.57                 |
| 17,087.00                                         | 90.13           | 90.02             | 9,129.09              | 53.13       | 8,345.84    | 8,346.00                | 2.44                    | 2.36                   | 0.61                  |
| 17,182.00                                         | 91.68           | 89.88             | 9,127.59              | 53.21       | 8,440.82    | 8,440.99                | 1.64                    | 1.63                   | -0.15                 |
| 17,277.00                                         | 90.10           | 90.83             | 9,126.12              | 52.62       | 8,535.80    | 8,535.96                | 1.94                    | -1.66                  | 1.00                  |
| 17,372.00                                         | 87.78           | 90.44             | 9,127.87              | 51.57       | 8,630.78    | 8,630.93                | 2.48                    | -2.44                  | -0.41                 |
| 17,468.00                                         | 87.92           | 89.86             | 9,131.47              | 51.32       | 8,726.71    | 8,726.85                | 0.62                    | 0.15                   | -0.60                 |
| 17,563.00                                         | 88.19           | 90.40             | 9,134.70              | 51.10       | 8,821.65    | 8,821.80                | 0.64                    | 0.28                   | 0.57                  |
| 17,658.00                                         | 88.92           | 90.39             | 9,137.09              | 50.45       | 8,916.62    | 8,916.76                | 0.77                    | 0.77                   | -0.01                 |
| 17,754.00                                         | 89.09           | 89.63             | 9,138.76              | 50.43       | 9,012.60    | 9,012.74                | 0.81                    | 0.18                   | -0.79                 |
| 17,849.00                                         | 89.13           | 89.80             | 9,140.24              | 50.90       | 9,107.59    | 9,107.73                | 0.18                    | 0.04                   | 0.18                  |
| 17,943.00                                         | 89.63           | 90.01             | 9,141.25              | 51.06       | 9,201.58    | 9,201.72                | 0.58                    | 0.53                   | 0.22                  |
| 18,038.00                                         | 89.73           | 90.07             | 9,141.79              | 50.99       | 9,296.58    | 9,296.72                | 0.12                    | 0.11                   | 0.06                  |
| 18,133.00                                         | 90.00           | 90.14             | 9,142.01              | 50.82       | 9,391.58    | 9,391.71                | 0.29                    | 0.28                   | 0.07                  |
| 18,229.00                                         | 89.30           | 88.52             | 9,142.60              | 51.94       | 9,487.57    | 9,487.70                | 1.84                    | -0.73                  | -1.69                 |
| 18,324.00                                         | 89.26           | 88.10             | 9,143.79              | 54.74       | 9,582.52    | 9,582.67                | 0.44                    | -0.04                  | -0.44                 |
| 18,418.00                                         | 89.43           | 87.82             | 9,144.86              | 58.09       | 9,676.46    | 9,676.63                | 0.35                    | 0.18                   | -0.30                 |
| 18,513.00                                         | 89.53           | 87.85             | 9,145.73              | 61.68       | 9,771.38    | 9,771.58                | 0.11                    | 0.11                   | 0.03                  |
| 18,607.00                                         | 87.82           | 88.07             | 9,147.90              | 65.02       | 9,865.30    | 9,865.51                | 1.83                    | -1.82                  | 0.23                  |
| 18,703.00                                         | 87.21           | 87.90             | 9,152.06              | 68.40       | 9,961.15    | 9,961.38                | 0.66                    | -0.64                  | -0.18                 |
| 18,798.00                                         | 86.88           | 88.21             | 9,156.96              | 71.62       | 10,055.96   | 10,056.22               | 0.48                    | -0.35                  | 0.33                  |
| 18,894.00                                         | 86.68           | 87.23             | 9,162.35              | 75.43       | 10,151.74   | 10,152.01               | 1.04                    | -0.21                  | -1.02                 |
| 18,989.00                                         | 86.28           | 87.27             | 9,168.18              | 79.98       | 10,246.45   | 10,246.75               | 0.42                    | -0.42                  | 0.04                  |
| 19,102.00                                         | 85.80           | 86.70             | 9,175.99              | 85.91       | 10,359.02   | 10,359.37               | 0.66                    | -0.42                  | -0.50                 |
| FINAL MWD Survey ( 19102.00' MD )                 |                 |                   |                       |             |             |                         |                         |                        |                       |
| 19,172.00                                         | 85.80           | 86.70             | 9,181.12              | 89.93       | 10,428.72   | 10,429.09               | 0.00                    | 0.00                   | 0.00                  |
| FINAL Proj. to Bit ( 19172.00' MD ) - BHL[LT336H] |                 |                   |                       |             |             |                         |                         |                        |                       |

| Survey Annotations    |                       |                   |             |                                     |
|-----------------------|-----------------------|-------------------|-------------|-------------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |             | Comment                             |
|                       |                       | +N-S (usft)       | +E-W (usft) |                                     |
| 19,102.00             | 9,175.99              | 85.91             | 10,359.02   | FINAL MWD Survey ( 19102.00' MD )   |
| 19,172.00             | 9,181.12              | 89.93             | 10,428.72   | FINAL Proj. to Bit ( 19172.00' MD ) |

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