

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Form C-104  
Revised August 1, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

|                                                                                                                                      |                                                          |                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|
| <sup>1</sup> Operator name and Address<br>Titus Oil & Gas Production, LLC<br>420 Throckmorton St., Ste. 1150<br>Fort Worth, TX 76102 |                                                          | <sup>2</sup> OGRID Number<br>373986                                  |
|                                                                                                                                      |                                                          | <sup>3</sup> Reason for Filing Code/ Effective Date<br>New Well - RT |
| <sup>4</sup> API Number<br>30 - 0 25-48132                                                                                           | <sup>5</sup> Pool Name<br>WC-025 G-09 S263619C; Wolfcamp | <sup>6</sup> Pool Code<br>98234                                      |
| <sup>7</sup> Property Code<br>329879                                                                                                 | <sup>8</sup> Property Name<br>Cattlemen Fed Com          | <sup>9</sup> Well Number<br>514H                                     |

II. <sup>10</sup> Surface Location

|                    |               |                 |              |         |                        |                           |                       |                        |               |
|--------------------|---------------|-----------------|--------------|---------|------------------------|---------------------------|-----------------------|------------------------|---------------|
| Ul or lot no.<br>H | Section<br>17 | Township<br>26S | Range<br>35E | Lot Idn | Feet from the<br>1948' | North/South Line<br>North | Feet from the<br>922' | East/West line<br>East | County<br>Lea |
|--------------------|---------------|-----------------|--------------|---------|------------------------|---------------------------|-----------------------|------------------------|---------------|

<sup>11</sup> Bottom Hole Location

|                             |                                        |                                      |                                   |         |                                    |                           |                                     |                        |               |
|-----------------------------|----------------------------------------|--------------------------------------|-----------------------------------|---------|------------------------------------|---------------------------|-------------------------------------|------------------------|---------------|
| UL or lot no.<br>P          | Section<br>20                          | Township<br>26S                      | Range<br>35E                      | Lot Idn | Feet from the<br>53'               | North/South line<br>South | Feet from the<br>507'               | East/West line<br>East | County<br>Lea |
| <sup>12</sup> Lse Code<br>F | <sup>13</sup> Producing Method<br>Code | <sup>14</sup> Gas Connection<br>Date | <sup>15</sup> C-129 Permit Number |         | <sup>16</sup> C-129 Effective Date |                           | <sup>17</sup> C-129 Expiration Date |                        |               |

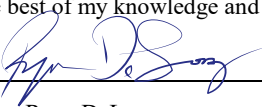
III. Oil and Gas Transporters

|                                    |                                                                                   |                     |
|------------------------------------|-----------------------------------------------------------------------------------|---------------------|
| <sup>18</sup> Transporter<br>OGRID | <sup>19</sup> Transporter Name<br>and Address                                     | <sup>20</sup> O/G/W |
| 319135                             | Western Refining Pipeline, LLC<br>200 E. Hardin Street<br>Frindlay, OH 45840      | O                   |
| 371960                             | Lucid Energy Delaware, LLC<br>3100 Mckinnon Street, Suite 800<br>Dallas, TX 75201 | G                   |
| 308339                             | Oilfield Water Logistics<br>8201 Preston Rd., Suite 520<br>Dallas, TX 75225       | W                   |
|                                    |                                                                                   |                     |
|                                    |                                                                                   |                     |

IV. Well Completion Data

|                                      |                                              |                                           |                         |                                             |                            |
|--------------------------------------|----------------------------------------------|-------------------------------------------|-------------------------|---------------------------------------------|----------------------------|
| <sup>21</sup> Spud Date<br>4/23/2021 | <sup>22</sup> Ready Date<br>Planned 9/1/2021 | <sup>23</sup> TD<br>13081' TVD; 21341' MD | <sup>24</sup> PBDT      | <sup>25</sup> Perforations<br>13574'-21279' | <sup>26</sup> DHC, MC      |
| <sup>27</sup> Hole Size              |                                              | <sup>28</sup> Casing & Tubing Size        | <sup>29</sup> Depth Set |                                             | <sup>30</sup> Sacks Cement |
| 13 1/2                               |                                              | 10 3/4                                    | 1190'                   |                                             | 665 Class C                |
| 9 7/8                                |                                              | 7 5/8                                     | 12177'                  |                                             | 2320 Class H/C             |
| 6 3/4                                |                                              | 5 1/2                                     | 11934'                  |                                             | Included in total below    |
| 6 3/4                                |                                              | 5                                         | 21341'                  |                                             | 1325 Class H               |

V. Well Test Data

|                                                                                                                                                                                                                                                                                                            |                                 |                         |                             |                             |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|
| <sup>31</sup> Date New Oil                                                                                                                                                                                                                                                                                 | <sup>32</sup> Gas Delivery Date | <sup>33</sup> Test Date | <sup>34</sup> Test Length   | <sup>35</sup> Tbg. Pressure | <sup>36</sup> Csg. Pressure |
| <sup>37</sup> Choke Size                                                                                                                                                                                                                                                                                   | <sup>38</sup> Oil               | <sup>39</sup> Water     | <sup>40</sup> Gas           |                             | <sup>41</sup> Test Method   |
| <sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.<br>Signature:  |                                 |                         | OIL CONSERVATION DIVISION   |                             |                             |
| Printed name: Ryan DeLong                                                                                                                                                                                                                                                                                  |                                 |                         | Approved by: KURT SIMMONS   |                             |                             |
| Title: Regulatory Manager                                                                                                                                                                                                                                                                                  |                                 |                         | Title: NMOC, SANTA FE       |                             |                             |
| E-mail Address: rdelong@titusoil.com                                                                                                                                                                                                                                                                       |                                 |                         | Approval Date: 08/17/2021   |                             |                             |
| Date: 8/11/2021                                                                                                                                                                                                                                                                                            |                                 | Phone: 817-852-6370     | RT C-104 EXPIRES 11/17/2021 |                             |                             |

District I

1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                     |                                                          |                                                      |
|-------------------------------------|----------------------------------------------------------|------------------------------------------------------|
| <b>1 API Number</b><br>30-025-48132 | <b>2 Pool Code</b><br>98234                              | <b>3 Pool Name</b><br>WC-025 G-09 S263619C; Wolfcamp |
| <b>4 Property Code</b><br>329879    | <b>5 Property Name</b><br>CATTLEMEN FED COM              | <b>6 Well Number</b><br>514H                         |
| <b>7 OGRID No.</b><br>373986        | <b>8 Operator Name</b><br>TITUS OIL & GAS PRODUCTION LLC | <b>9 Elevation</b><br>3217'                          |

<sup>10</sup> Surface Location

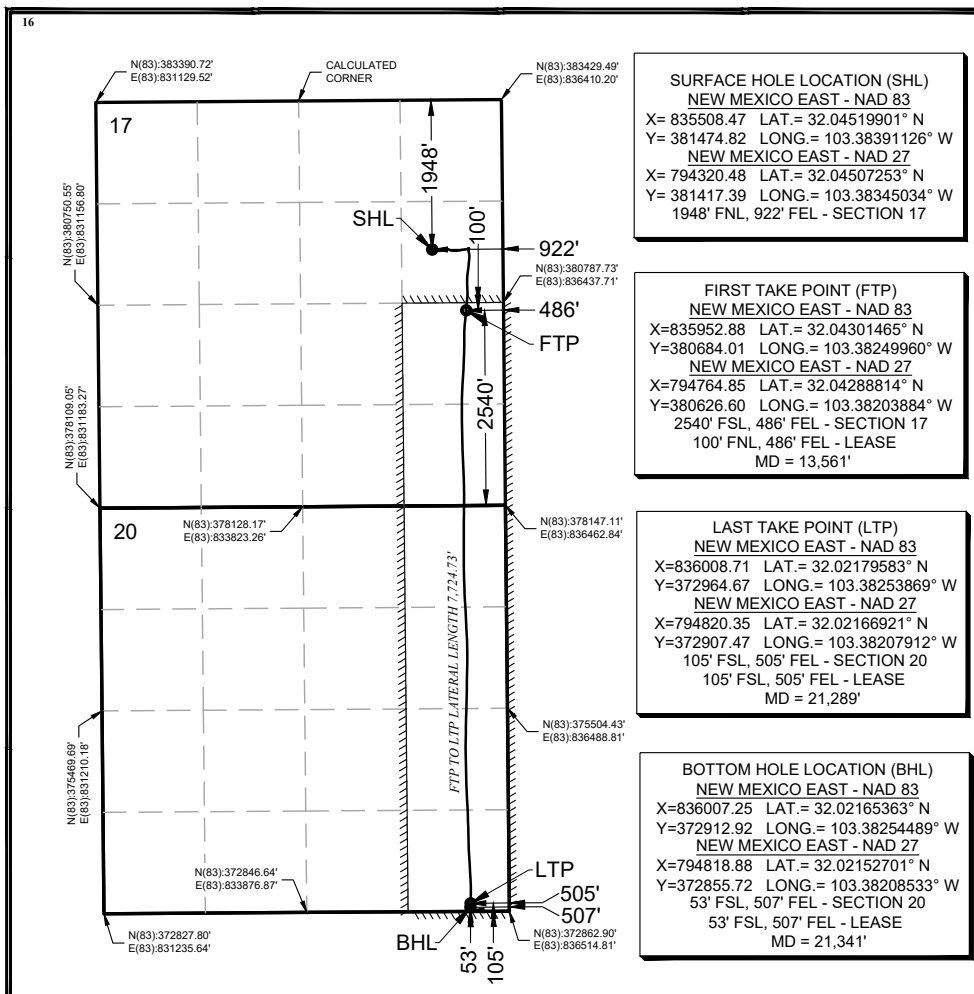
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H             | 17      | 26-S     | 35-E  |         | 1948'         | NORTH            | 922'          | EAST           | LEA    |

<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             | 20      | 26-S     | 35-E  |         | 53'           | SOUTH            | 507'          | EAST           | LEA    |

|                                  |                                |                              |                     |
|----------------------------------|--------------------------------|------------------------------|---------------------|
| <b>12 Dedicated Acres</b><br>240 | <b>13 Joint or Infill</b><br>Y | <b>14 Consolidation Code</b> | <b>15 Order No.</b> |
|----------------------------------|--------------------------------|------------------------------|---------------------|

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.



## 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.

*Ryan DeLong* 8/12/2021  
Signature Date

Ryan DeLong - Regulatory Manager

Printed Name

rdelong@titusoil.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.

Date of Survey  
Signature and Seal of Professional Surveyor:

12177

8/11/2021

Certificate Number



## **Titus Oil & Gas Production, LLC**

**Lea County, NM ( NAD27 NME)**

**Cattleman Fed Com - Deep**

**Cattleman Fed Com 514H**

**OH / 67734**

**Survey: Phoenix MWD Surveys - Corrected 1**

## **Standard Survey Report**

**04 June, 2021**





## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
| <b>Site:</b>     | Cattleman Fed Com - Deep        | <b>MD Reference:</b>                | RKB @ 3243.50usft (H&P 474) |
| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM ( NAD27 NME)          |                      |                |
| <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>                  | Cattleman Fed Com - Deep |                          |                     |
| <b>Site Position:</b>        |                          | <b>Northing:</b>         | 381,417.66 usft     |
| <b>From:</b>                 | Map                      | <b>Easting:</b>          | 794,350.48 usft     |
| <b>Position Uncertainty:</b> | 0.00 usft                | <b>Slot Radius:</b>      | 13-3/16 "           |
|                              |                          | <b>Latitude:</b>         | 32° 2' 42.261108 N  |
|                              |                          | <b>Longitude:</b>        | 103° 23' 0.072672 W |
|                              |                          | <b>Grid Convergence:</b> | 0.50 °              |

|                             |                        |                            |                     |
|-----------------------------|------------------------|----------------------------|---------------------|
| <b>Well</b>                 | Cattleman Fed Com 514H |                            |                     |
| <b>Well Position</b>        | <b>+N/-S</b>           | 0.00 usft                  | <b>Northing:</b>    |
|                             | <b>+E/-W</b>           | 0.00 usft                  | <b>Easting:</b>     |
| <b>Position Uncertainty</b> | 1.00 usft              | <b>Wellhead Elevation:</b> | usft                |
|                             |                        | <b>Latitude:</b>           | 32° 2' 42.261108 N  |
|                             |                        | <b>Longitude:</b>          | 103° 23' 0.421224 W |
|                             |                        | <b>Ground Level:</b>       | 3,217.00 usft       |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | OH / 67734        |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | MVHD              | 5/19/2021          | 6.35                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 59.63                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 47,468.40077143            |

|                          |                                |                      |                      |
|--------------------------|--------------------------------|----------------------|----------------------|
| <b>Design</b>            | Surveys (H&P 474)              |                      |                      |
| <b>Audit Notes:</b>      |                                |                      |                      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>        | ACTUAL               |
|                          |                                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>  | <b>+E/-W (usft)</b>  |
|                          | 0.00                           | 0.00                 | 0.00                 |
|                          |                                |                      | <b>Direction (°)</b> |
|                          |                                |                      | 179.44               |

|                       |                  |                                        |                  |                                                  |
|-----------------------|------------------|----------------------------------------|------------------|--------------------------------------------------|
| <b>Survey Program</b> | <b>Date</b>      | 6/4/2021                               |                  |                                                  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>               | <b>Tool Name</b> | <b>Description</b>                               |
| 174.00                | 21,341.00        | Phoenix MWD Surveys - Corrected 1 (OH) | MWD+HDGM+MS      | OWSG Rev.2 MWD + HDGM + Multi-Station 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> |
| 0.00                            | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |
| 174.00                          | 1.64                   | 117.30             | 173.98                       | -1.14               | 2.21                | 1.16                           | 0.94                           | 0.94                          | 0.00                         |
| <b>First Phoenix MWD Survey</b> |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| 284.00                          | 0.36                   | 123.46             | 283.96                       | -2.05               | 3.90                | 2.09                           | 1.17                           | -1.16                         | 5.60                         |
| 407.00                          | 0.11                   | 123.69             | 406.96                       | -2.33               | 4.32                | 2.38                           | 0.20                           | -0.20                         | 0.19                         |
| 497.00                          | 0.34                   | 79.07              | 496.96                       | -2.33               | 4.65                | 2.38                           | 0.30                           | 0.26                          | -49.58                       |
| 589.00                          | 0.40                   | 81.74              | 588.95                       | -2.23               | 5.24                | 2.28                           | 0.07                           | 0.07                          | 2.90                         |
| 680.00                          | 0.44                   | 286.95             | 679.95                       | -2.09               | 5.22                | 2.14                           | 0.90                           | 0.04                          | -170.10                      |
| 770.00                          | 0.88                   | 294.90             | 769.95                       | -1.69               | 4.26                | 1.73                           | 0.50                           | 0.49                          | 8.83                         |
| 861.00                          | 0.95                   | 299.93             | 860.93                       | -1.02               | 2.98                | 1.05                           | 0.12                           | 0.08                          | 5.53                         |
| 951.00                          | 0.82                   | 295.19             | 950.92                       | -0.38               | 1.75                | 0.39                           | 0.17                           | -0.14                         | -5.27                        |



## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
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| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

| 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) |
| 1,041.00              | 0.79            | 283.80      | 1,040.92              | 0.05         | 0.56         | -0.04                   | 0.18                    | -0.03                  | -12.66                |
| 1,136.00              | 0.86            | 288.94      | 1,135.91              | 0.43         | -0.75        | -0.44                   | 0.11                    | 0.07                   | 5.41                  |
| 1,232.00              | 0.40            | 291.52      | 1,231.90              | 0.79         | -1.74        | -0.81                   | 0.48                    | -0.48                  | 2.69                  |
| 1,323.00              | 0.32            | 289.94      | 1,322.90              | 0.99         | -2.28        | -1.02                   | 0.09                    | -0.09                  | -1.74                 |
| 1,415.00              | 0.35            | 287.37      | 1,414.90              | 1.16         | -2.79        | -1.19                   | 0.04                    | 0.03                   | -2.79                 |
| 1,507.00              | 1.43            | 107.83      | 1,506.89              | 0.90         | -1.96        | -0.92                   | 1.93                    | 1.17                   | -195.15               |
| 1,600.00              | 2.90            | 105.99      | 1,599.82              | -0.11        | 1.40         | 0.12                    | 1.58                    | 1.58                   | -1.98                 |
| 1,693.00              | 2.93            | 106.44      | 1,692.70              | -1.43        | 5.95         | 1.48                    | 0.04                    | 0.03                   | 0.48                  |
| 1,784.00              | 3.10            | 107.49      | 1,783.57              | -2.82        | 10.52        | 2.93                    | 0.20                    | 0.19                   | 1.15                  |
| 1,876.00              | 3.17            | 104.45      | 1,875.44              | -4.21        | 15.36        | 4.36                    | 0.20                    | 0.08                   | -3.30                 |
| 1,970.00              | 3.28            | 102.35      | 1,969.29              | -5.43        | 20.50        | 5.63                    | 0.17                    | 0.12                   | -2.23                 |
| 2,065.00              | 3.35            | 101.65      | 2,064.13              | -6.57        | 25.88        | 6.83                    | 0.09                    | 0.07                   | -0.74                 |
| 2,159.00              | 3.51            | 100.15      | 2,157.96              | -7.63        | 31.40        | 7.94                    | 0.20                    | 0.17                   | -1.60                 |
| 2,254.00              | 3.59            | 97.98       | 2,252.78              | -8.56        | 37.21        | 8.92                    | 0.16                    | 0.08                   | -2.28                 |
| 2,348.00              | 3.71            | 96.39       | 2,346.59              | -9.31        | 43.14        | 9.73                    | 0.17                    | 0.13                   | -1.69                 |
| 2,443.00              | 3.92            | 93.46       | 2,441.38              | -9.84        | 49.44        | 10.33                   | 0.30                    | 0.22                   | -3.08                 |
| 2,538.00              | 4.03            | 91.44       | 2,536.15              | -10.12       | 56.02        | 10.67                   | 0.19                    | 0.12                   | -2.13                 |
| 2,633.00              | 4.06            | 90.40       | 2,630.91              | -10.23       | 62.72        | 10.84                   | 0.08                    | 0.03                   | -1.09                 |
| 2,728.00              | 4.36            | 87.39       | 2,725.65              | -10.09       | 69.69        | 10.77                   | 0.39                    | 0.32                   | -3.17                 |
| 2,823.00              | 3.12            | 100.70      | 2,820.45              | -10.41       | 75.84        | 11.15                   | 1.59                    | -1.31                  | 14.01                 |
| 2,918.00              | 3.28            | 105.99      | 2,915.30              | -11.64       | 80.99        | 12.43                   | 0.35                    | 0.17                   | 5.57                  |
| 3,012.00              | 3.65            | 102.81      | 3,009.13              | -13.04       | 86.49        | 13.88                   | 0.44                    | 0.39                   | -3.38                 |
| 3,107.00              | 3.76            | 99.60       | 3,103.93              | -14.23       | 92.51        | 15.13                   | 0.25                    | 0.12                   | -3.38                 |
| 3,202.00              | 3.28            | 90.99       | 3,198.75              | -14.80       | 98.30        | 15.76                   | 0.75                    | -0.51                  | -9.06                 |
| 3,297.00              | 3.55            | 86.87       | 3,293.59              | -14.68       | 103.95       | 15.70                   | 0.38                    | 0.28                   | -4.34                 |
| 3,392.00              | 3.77            | 84.34       | 3,388.39              | -14.21       | 110.00       | 15.29                   | 0.29                    | 0.23                   | -2.66                 |
| 3,486.00              | 4.18            | 82.10       | 3,482.17              | -13.44       | 116.47       | 14.58                   | 0.47                    | 0.44                   | -2.38                 |
| 3,581.00              | 4.39            | 77.78       | 3,576.90              | -12.19       | 123.45       | 13.40                   | 0.41                    | 0.22                   | -4.55                 |
| 3,675.00              | 4.56            | 74.43       | 3,670.61              | -10.43       | 130.57       | 11.70                   | 0.33                    | 0.18                   | -3.56                 |
| 3,770.00              | 3.81            | 74.13       | 3,765.36              | -8.55        | 137.24       | 9.89                    | 0.79                    | -0.79                  | -0.32                 |
| 3,865.00              | 3.87            | 74.65       | 3,860.15              | -6.84        | 143.37       | 8.24                    | 0.07                    | 0.06                   | 0.55                  |
| 3,960.00              | 4.06            | 75.77       | 3,954.92              | -5.16        | 149.72       | 6.63                    | 0.22                    | 0.20                   | 1.18                  |
| 4,056.00              | 4.25            | 77.21       | 4,050.67              | -3.54        | 156.48       | 5.07                    | 0.23                    | 0.20                   | 1.50                  |
| 4,150.00              | 4.16            | 81.08       | 4,144.41              | -2.24        | 163.25       | 3.84                    | 0.32                    | -0.10                  | 4.12                  |
| 4,243.00              | 3.97            | 82.02       | 4,237.18              | -1.27        | 169.77       | 2.93                    | 0.22                    | -0.20                  | 1.01                  |
| 4,338.00              | 4.00            | 81.83       | 4,331.95              | -0.34        | 176.30       | 2.07                    | 0.03                    | 0.03                   | -0.20                 |
| 4,433.00              | 3.95            | 83.02       | 4,426.72              | 0.52         | 182.83       | 1.26                    | 0.10                    | -0.05                  | 1.25                  |
| 4,527.00              | 3.96            | 80.73       | 4,520.50              | 1.44         | 189.25       | 0.41                    | 0.17                    | 0.01                   | -2.44                 |
| 4,622.00              | 4.15            | 78.24       | 4,615.26              | 2.67         | 195.85       | -0.76                   | 0.27                    | 0.20                   | -2.62                 |
| 4,717.00              | 4.58            | 82.39       | 4,709.99              | 3.87         | 202.98       | -1.89                   | 0.56                    | 0.45                   | 4.37                  |
| 4,812.00              | 3.46            | 95.54       | 4,804.75              | 4.10         | 209.59       | -2.05                   | 1.52                    | -1.18                  | 13.84                 |
| 4,906.00              | 3.45            | 109.93      | 4,898.58              | 2.86         | 215.07       | -0.76                   | 0.92                    | -0.01                  | 15.31                 |
| 5,001.00              | 3.88            | 112.59      | 4,993.39              | 0.65         | 220.73       | 1.51                    | 0.49                    | 0.45                   | 2.80                  |



## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
| <b>Site:</b>     | Cattleman Fed Com - Deep        | <b>MD Reference:</b>                | RKB @ 3243.50usft (H&P 474) |
| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

| 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) |  |
| 5,095.00              | 4.26            | 112.72      | 5,087.15              | -1.92        | 226.88       | 4.14                    | 0.40                    | 0.40                   | 0.14                  |  |
| 5,190.00              | 2.84            | 112.23      | 5,181.97              | -4.17        | 232.32       | 6.44                    | 1.50                    | -1.49                  | -0.52                 |  |
| 5,284.00              | 1.70            | 117.26      | 5,275.89              | -5.69        | 235.71       | 8.00                    | 1.23                    | -1.21                  | 5.35                  |  |
| 5,378.00              | 1.71            | 117.27      | 5,369.85              | -6.97        | 238.20       | 9.30                    | 0.01                    | 0.01                   | 0.01                  |  |
| 5,473.00              | 1.83            | 114.47      | 5,464.80              | -8.25        | 240.84       | 10.60                   | 0.16                    | 0.13                   | -2.95                 |  |
| 5,568.00              | 2.81            | 103.66      | 5,559.73              | -9.43        | 244.48       | 11.82                   | 1.13                    | 1.03                   | -11.38                |  |
| 5,663.00              | 2.96            | 101.73      | 5,654.61              | -10.48       | 249.15       | 12.91                   | 0.19                    | 0.16                   | -2.03                 |  |
| 5,757.00              | 3.01            | 98.19       | 5,748.48              | -11.32       | 253.97       | 13.80                   | 0.20                    | 0.05                   | -3.77                 |  |
| 5,852.00              | 3.14            | 99.08       | 5,843.34              | -12.09       | 259.00       | 14.62                   | 0.15                    | 0.14                   | 0.94                  |  |
| 5,946.00              | 3.17            | 98.10       | 5,937.20              | -12.86       | 264.12       | 15.44                   | 0.07                    | 0.03                   | -1.04                 |  |
| 6,041.00              | 3.09            | 98.26       | 6,032.06              | -13.60       | 269.25       | 16.23                   | 0.08                    | -0.08                  | 0.17                  |  |
| 6,136.00              | 3.02            | 94.26       | 6,126.92              | -14.15       | 274.28       | 16.83                   | 0.24                    | -0.07                  | -4.21                 |  |
| 6,231.00              | 3.03            | 94.15       | 6,221.79              | -14.52       | 279.28       | 17.25                   | 0.01                    | 0.01                   | -0.12                 |  |
| 6,325.00              | 3.16            | 92.67       | 6,315.65              | -14.82       | 284.35       | 17.60                   | 0.16                    | 0.14                   | -1.57                 |  |
| 6,420.00              | 3.11            | 90.62       | 6,410.51              | -14.97       | 289.54       | 17.80                   | 0.13                    | -0.05                  | -2.16                 |  |
| 6,515.00              | 3.23            | 90.52       | 6,505.36              | -15.02       | 294.80       | 17.90                   | 0.13                    | 0.13                   | -0.11                 |  |
| 6,610.00              | 2.95            | 92.00       | 6,600.23              | -15.13       | 299.91       | 18.06                   | 0.31                    | -0.29                  | 1.56                  |  |
| 6,705.00              | 4.11            | 84.34       | 6,695.05              | -14.88       | 305.75       | 17.87                   | 1.32                    | 1.22                   | -8.06                 |  |
| 6,799.00              | 4.65            | 84.88       | 6,788.77              | -14.21       | 312.89       | 17.27                   | 0.58                    | 0.57                   | 0.57                  |  |
| 6,895.00              | 4.80            | 83.88       | 6,884.44              | -13.43       | 320.76       | 16.57                   | 0.18                    | 0.16                   | -1.04                 |  |
| 6,989.00              | 4.75            | 83.79       | 6,978.12              | -12.59       | 328.54       | 15.80                   | 0.05                    | -0.05                  | -0.10                 |  |
| 7,085.00              | 4.70            | 83.34       | 7,073.79              | -11.71       | 336.40       | 15.00                   | 0.06                    | -0.05                  | -0.47                 |  |
| 7,179.00              | 4.60            | 85.25       | 7,167.48              | -10.95       | 343.98       | 14.31                   | 0.20                    | -0.11                  | 2.03                  |  |
| 7,274.00              | 4.40            | 82.73       | 7,262.19              | -10.17       | 351.39       | 13.61                   | 0.30                    | -0.21                  | -2.65                 |  |
| 7,369.00              | 4.32            | 80.89       | 7,356.91              | -9.14        | 358.54       | 12.65                   | 0.17                    | -0.08                  | -1.94                 |  |
| 7,463.00              | 4.27            | 78.92       | 7,450.65              | -7.91        | 365.47       | 11.48                   | 0.17                    | -0.05                  | -2.10                 |  |
| 7,558.00              | 3.99            | 74.94       | 7,545.40              | -6.37        | 372.13       | 10.01                   | 0.42                    | -0.29                  | -4.19                 |  |
| 7,653.00              | 3.85            | 75.95       | 7,640.18              | -4.74        | 378.42       | 8.44                    | 0.16                    | -0.15                  | 1.06                  |  |
| 7,748.00              | 3.58            | 79.91       | 7,734.98              | -3.45        | 384.43       | 7.20                    | 0.39                    | -0.28                  | 4.17                  |  |
| 7,842.00              | 3.36            | 79.20       | 7,828.81              | -2.42        | 390.03       | 6.23                    | 0.24                    | -0.23                  | -0.76                 |  |
| 7,938.00              | 3.05            | 85.61       | 7,924.66              | -1.69        | 395.34       | 5.56                    | 0.49                    | -0.32                  | 6.68                  |  |
| 8,033.00              | 2.79            | 87.60       | 8,019.54              | -1.40        | 400.17       | 5.31                    | 0.29                    | -0.27                  | 2.09                  |  |
| 8,125.00              | 3.72            | 86.40       | 8,111.39              | -1.12        | 405.38       | 5.08                    | 1.01                    | 1.01                   | -1.30                 |  |
| 8,219.00              | 3.96            | 82.94       | 8,205.18              | -0.53        | 411.65       | 4.55                    | 0.35                    | 0.26                   | -3.68                 |  |
| 8,314.00              | 3.14            | 76.68       | 8,299.99              | 0.47         | 417.44       | 3.61                    | 0.95                    | -0.86                  | -6.59                 |  |
| 8,409.00              | 2.71            | 77.49       | 8,394.87              | 1.56         | 422.16       | 2.57                    | 0.45                    | -0.45                  | 0.85                  |  |
| 8,503.00              | 3.48            | 80.52       | 8,488.73              | 2.51         | 427.14       | 1.67                    | 0.84                    | 0.82                   | 3.22                  |  |
| 8,598.00              | 3.69            | 82.45       | 8,583.55              | 3.38         | 433.02       | 0.85                    | 0.25                    | 0.22                   | 2.03                  |  |
| 8,693.00              | 3.55            | 80.99       | 8,678.36              | 4.25         | 438.95       | 0.04                    | 0.18                    | -0.15                  | -1.54                 |  |
| 8,787.00              | 3.59            | 80.43       | 8,772.17              | 5.19         | 444.73       | -0.85                   | 0.06                    | 0.04                   | -0.60                 |  |
| 8,882.00              | 3.49            | 77.67       | 8,866.99              | 6.30         | 450.49       | -1.90                   | 0.21                    | -0.11                  | -2.91                 |  |
| 8,977.00              | 3.34            | 73.90       | 8,961.82              | 7.69         | 455.97       | -3.23                   | 0.28                    | -0.16                  | -3.97                 |  |
| 9,070.00              | 3.20            | 71.14       | 9,054.67              | 9.28         | 461.03       | -4.77                   | 0.23                    | -0.15                  | -2.97                 |  |



## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
| <b>Site:</b>     | Cattleman Fed Com - Deep        | <b>MD Reference:</b>                | RKB @ 3243.50usft (H&P 474) |
| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

| 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) |
| 9,165.00              | 2.82            | 62.73       | 9,149.54              | 11.21        | 465.62       | -6.66                   | 0.61                    | -0.40                  | -8.85                 |
| 9,258.00              | 2.20            | 61.73       | 9,242.45              | 13.10        | 469.22       | -8.51                   | 0.67                    | -0.67                  | -1.08                 |
| 9,352.00              | 1.30            | 96.21       | 9,336.41              | 13.84        | 471.87       | -9.23                   | 1.43                    | -0.96                  | 36.68                 |
| 9,447.00              | 0.96            | 97.74       | 9,431.39              | 13.62        | 473.73       | -8.99                   | 0.36                    | -0.36                  | 1.61                  |
| 9,543.00              | 0.66            | 130.46      | 9,527.38              | 13.15        | 474.95       | -8.51                   | 0.56                    | -0.31                  | 34.08                 |
| 9,638.00              | 0.88            | 123.33      | 9,622.37              | 12.39        | 475.97       | -7.74                   | 0.25                    | 0.23                   | -7.51                 |
| 9,731.00              | 0.83            | 114.42      | 9,715.36              | 11.72        | 477.18       | -7.06                   | 0.15                    | -0.05                  | -9.58                 |
| 9,825.00              | 1.30            | 137.39      | 9,809.35              | 10.66        | 478.53       | -5.98                   | 0.67                    | 0.50                   | 24.44                 |
| 9,920.00              | 1.50            | 140.55      | 9,904.32              | 8.90         | 480.05       | -4.21                   | 0.23                    | 0.21                   | 3.33                  |
| 10,014.00             | 0.98            | 139.19      | 9,998.30              | 7.34         | 481.35       | -2.64                   | 0.55                    | -0.55                  | -1.45                 |
| 10,109.00             | 0.57            | 152.97      | 10,093.29             | 6.31         | 482.10       | -1.60                   | 0.47                    | -0.43                  | 14.51                 |
| 10,204.00             | 0.29            | 213.41      | 10,188.29             | 5.69         | 482.18       | -0.97                   | 0.52                    | -0.29                  | 63.62                 |
| 10,299.00             | 0.40            | 299.10      | 10,283.28             | 5.65         | 481.76       | -0.94                   | 0.50                    | 0.12                   | 90.20                 |
| 10,394.00             | 0.71            | 308.94      | 10,378.28             | 6.18         | 481.01       | -1.48                   | 0.34                    | 0.33                   | 10.36                 |
| 10,489.00             | 0.88            | 284.10      | 10,473.27             | 6.73         | 479.85       | -2.04                   | 0.40                    | 0.18                   | -26.15                |
| 10,583.00             | 0.97            | 287.49      | 10,567.26             | 7.14         | 478.39       | -2.47                   | 0.11                    | 0.10                   | 3.61                  |
| 10,679.00             | 0.98            | 278.81      | 10,663.24             | 7.51         | 476.80       | -2.85                   | 0.15                    | 0.01                   | -9.04                 |
| 10,774.00             | 1.25            | 291.96      | 10,758.23             | 8.02         | 475.04       | -3.38                   | 0.39                    | 0.28                   | 13.84                 |
| 10,868.00             | 1.01            | 289.87      | 10,852.21             | 8.69         | 473.31       | -4.06                   | 0.26                    | -0.26                  | -2.22                 |
| 10,964.00             | 0.44            | 284.59      | 10,948.20             | 9.07         | 472.15       | -4.45                   | 0.60                    | -0.59                  | -5.50                 |
| 11,059.00             | 0.23            | 273.01      | 11,043.20             | 9.17         | 471.61       | -4.56                   | 0.23                    | -0.22                  | -12.19                |
| 11,154.00             | 0.06            | 338.69      | 11,138.20             | 9.23         | 471.40       | -4.62                   | 0.22                    | -0.18                  | 69.14                 |
| 11,249.00             | 0.36            | 85.81       | 11,233.20             | 9.30         | 471.68       | -4.68                   | 0.40                    | 0.32                   | 112.76                |
| 11,344.00             | 0.79            | 86.55       | 11,328.19             | 9.36         | 472.63       | -4.74                   | 0.45                    | 0.45                   | 0.78                  |
| 11,439.00             | 1.13            | 59.66       | 11,423.18             | 9.87         | 474.10       | -5.23                   | 0.58                    | 0.36                   | -28.31                |
| 11,532.00             | 0.89            | 40.99       | 11,516.17             | 10.88        | 475.36       | -6.23                   | 0.43                    | -0.26                  | -20.08                |
| 11,627.00             | 0.78            | 27.71       | 11,611.16             | 12.01        | 476.15       | -7.35                   | 0.23                    | -0.12                  | -13.98                |
| 11,721.00             | 0.88            | 45.30       | 11,705.15             | 13.08        | 476.96       | -8.42                   | 0.29                    | 0.11                   | 18.71                 |
| 11,816.00             | 0.77            | 55.57       | 11,800.14             | 13.95        | 478.00       | -9.28                   | 0.19                    | -0.12                  | 10.81                 |
| 11,911.00             | 0.22            | 352.04      | 11,895.13             | 14.50        | 478.50       | -9.82                   | 0.74                    | -0.58                  | -66.87                |
| 12,006.00             | 0.22            | 276.49      | 11,990.13             | 14.70        | 478.30       | -10.02                  | 0.28                    | 0.00                   | -79.53                |
| 12,101.00             | 0.53            | 249.35      | 12,085.13             | 14.56        | 477.70       | -9.89                   | 0.37                    | 0.33                   | -28.57                |
| 12,115.00             | 0.55            | 250.74      | 12,099.13             | 14.52        | 477.58       | -9.85                   | 0.17                    | 0.14                   | 9.93                  |
| 12,221.00             | 1.48            | 229.33      | 12,205.11             | 13.46        | 476.06       | -8.80                   | 0.93                    | 0.88                   | -20.20                |
| 12,316.00             | 2.05            | 226.10      | 12,300.07             | 11.48        | 473.91       | -6.85                   | 0.61                    | 0.60                   | -3.40                 |
| 12,363.00             | 2.20            | 225.92      | 12,347.03             | 10.27        | 472.65       | -5.65                   | 0.32                    | 0.32                   | -0.38                 |
| 12,411.00             | 2.05            | 225.72      | 12,395.00             | 9.03         | 471.38       | -4.42                   | 0.31                    | -0.31                  | -0.42                 |
| 12,458.00             | 6.79            | 186.23      | 12,441.86             | 5.68         | 470.47       | -1.08                   | 11.42                   | 10.09                  | -84.02                |
| 12,505.00             | 13.30           | 171.36      | 12,488.12             | -2.44        | 470.98       | 7.04                    | 14.80                   | 13.85                  | -31.64                |
| 12,552.00             | 22.08           | 167.17      | 12,532.85             | -16.42       | 473.76       | 21.05                   | 18.86                   | 18.68                  | -8.91                 |
| 12,600.00             | 26.95           | 166.54      | 12,576.51             | -35.81       | 478.30       | 40.48                   | 10.16                   | 10.15                  | -1.31                 |
| 12,648.00             | 31.80           | 170.61      | 12,618.33             | -58.88       | 482.90       | 63.60                   | 10.92                   | 10.10                  | 8.48                  |
| 12,696.00             | 36.44           | 181.26      | 12,658.09             | -85.65       | 484.65       | 90.38                   | 15.73                   | 9.67                   | 22.19                 |
| 12,743.00             | 40.59           | 184.91      | 12,694.87             | -114.86      | 483.03       | 119.57                  | 10.06                   | 8.83                   | 7.77                  |





## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
| <b>Site:</b>     | Cattleman Fed Com - Deep        | <b>MD Reference:</b>                | RKB @ 3243.50usft (H&P 474) |
| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

| 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) |
| 12,791.00                  | 42.15           | 184.92      | 12,730.89             | -146.46      | 480.32       | 151.15                  | 3.25                    | 3.25                   | 0.02                  |
| 12,838.00                  | 42.59           | 185.40      | 12,765.61             | -178.01      | 477.47       | 182.67                  | 1.16                    | 0.94                   | 1.02                  |
| 12,886.00                  | 42.93           | 186.06      | 12,800.85             | -210.43      | 474.21       | 215.06                  | 1.17                    | 0.71                   | 1.38                  |
| 12,933.00                  | 43.22           | 186.77      | 12,835.19             | -242.33      | 470.63       | 246.92                  | 1.20                    | 0.62                   | 1.51                  |
| 12,981.00                  | 43.73           | 187.33      | 12,870.02             | -275.11      | 466.57       | 279.65                  | 1.33                    | 1.06                   | 1.17                  |
| 13,028.00                  | 44.62           | 187.77      | 12,903.73             | -307.57      | 462.27       | 312.08                  | 2.00                    | 1.89                   | 0.94                  |
| 13,076.00                  | 48.13           | 186.20      | 12,936.84             | -342.06      | 458.06       | 346.52                  | 7.69                    | 7.31                   | -3.27                 |
| 13,124.00                  | 53.02           | 181.63      | 12,967.32             | -379.02      | 455.58       | 383.46                  | 12.56                   | 10.19                  | -9.52                 |
| 13,171.00                  | 58.48           | 178.82      | 12,993.77             | -417.85      | 455.46       | 422.28                  | 12.62                   | 11.62                  | -5.98                 |
| 13,218.00                  | 63.53           | 177.03      | 13,016.54             | -458.92      | 456.96       | 463.36                  | 11.25                   | 10.74                  | -3.81                 |
| 13,266.00                  | 67.58           | 177.11      | 13,036.40             | -502.55      | 459.19       | 507.01                  | 8.44                    | 8.44                   | 0.17                  |
| 13,313.00                  | 70.77           | 179.73      | 13,053.11             | -546.45      | 460.39       | 550.92                  | 8.56                    | 6.79                   | 5.57                  |
| 13,360.00                  | 75.97           | 182.29      | 13,066.56             | -591.46      | 459.59       | 595.92                  | 12.23                   | 11.06                  | 5.45                  |
| 13,408.00                  | 83.27           | 184.70      | 13,075.21             | -638.55      | 456.70       | 642.98                  | 15.99                   | 15.21                  | 5.02                  |
| 13,455.00                  | 86.57           | 185.21      | 13,079.37             | -685.18      | 452.66       | 689.57                  | 7.10                    | 7.02                   | 1.09                  |
| 13,551.00                  | 90.02           | 183.86      | 13,082.22             | -780.82      | 445.07       | 785.13                  | 3.86                    | 3.59                   | -1.41                 |
| 13,561.00                  | 90.16           | 184.22      | 13,082.21             | -790.80      | 444.37       | 795.10                  | 3.86                    | 1.43                   | 3.59                  |
| FTP: 13561*MD/13082.21*TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 13,646.00                  | 91.38           | 187.27      | 13,081.06             | -875.35      | 435.86       | 879.57                  | 3.86                    | 1.43                   | 3.59                  |
| 13,742.00                  | 89.53           | 186.12      | 13,080.30             | -970.69      | 424.67       | 974.79                  | 2.27                    | -1.93                  | -1.20                 |
| 13,836.00                  | 89.22           | 180.59      | 13,081.33             | -1,064.48    | 419.17       | 1,068.53                | 5.89                    | -0.33                  | -5.88                 |
| 13,932.00                  | 93.25           | 179.67      | 13,079.26             | -1,160.44    | 418.95       | 1,164.48                | 4.31                    | 4.20                   | -0.96                 |
| 14,027.00                  | 88.53           | 180.72      | 13,077.78             | -1,255.40    | 418.63       | 1,259.43                | 5.09                    | -4.97                  | 1.11                  |
| 14,121.00                  | 88.44           | 182.43      | 13,080.27             | -1,349.33    | 416.05       | 1,353.33                | 1.82                    | -0.10                  | 1.82                  |
| 14,216.00                  | 90.27           | 181.50      | 13,081.34             | -1,444.26    | 412.79       | 1,448.23                | 2.16                    | 1.93                   | -0.98                 |
| 14,333.00                  | 90.53           | 183.23      | 13,080.52             | -1,561.15    | 407.96       | 1,565.07                | 1.50                    | 0.22                   | 1.48                  |
| 14,428.00                  | 90.29           | 183.24      | 13,079.84             | -1,656.00    | 402.60       | 1,659.86                | 0.25                    | -0.25                  | 0.01                  |
| 14,523.00                  | 92.03           | 183.87      | 13,077.92             | -1,750.79    | 396.71       | 1,754.59                | 1.95                    | 1.83                   | 0.66                  |
| 14,618.00                  | 90.81           | 182.94      | 13,075.56             | -1,845.60    | 391.07       | 1,849.33                | 1.61                    | -1.28                  | -0.98                 |
| 14,713.00                  | 88.59           | 180.68      | 13,076.06             | -1,940.53    | 388.07       | 1,944.23                | 3.33                    | -2.34                  | -2.38                 |
| 14,808.00                  | 90.01           | 180.94      | 13,077.22             | -2,035.52    | 386.73       | 2,039.20                | 1.52                    | 1.49                   | 0.27                  |
| 14,904.00                  | 87.36           | 179.22      | 13,079.42             | -2,131.48    | 386.59       | 2,135.15                | 3.29                    | -2.76                  | -1.79                 |
| 14,997.00                  | 87.79           | 178.92      | 13,083.36             | -2,224.38    | 388.10       | 2,228.07                | 0.56                    | 0.46                   | -0.32                 |
| 15,091.00                  | 88.10           | 178.99      | 13,086.73             | -2,318.31    | 389.82       | 2,322.00                | 0.34                    | 0.33                   | 0.07                  |
| 15,186.00                  | 88.96           | 179.11      | 13,089.17             | -2,413.26    | 391.39       | 2,416.97                | 0.91                    | 0.91                   | 0.13                  |
| 15,281.00                  | 88.76           | 178.75      | 13,091.06             | -2,508.22    | 393.16       | 2,511.95                | 0.43                    | -0.21                  | -0.38                 |
| 15,375.00                  | 88.93           | 178.47      | 13,092.95             | -2,602.18    | 395.44       | 2,605.92                | 0.35                    | 0.18                   | -0.30                 |
| 15,470.00                  | 90.59           | 177.39      | 13,093.35             | -2,697.11    | 398.87       | 2,700.88                | 2.08                    | 1.75                   | -1.14                 |
| 15,565.00                  | 90.70           | 177.00      | 13,092.28             | -2,791.99    | 403.52       | 2,795.80                | 0.43                    | 0.12                   | -0.41                 |
| 15,660.00                  | 90.16           | 176.51      | 13,091.57             | -2,886.83    | 408.90       | 2,890.69                | 0.77                    | -0.57                  | -0.52                 |
| 15,755.00                  | 91.43           | 178.77      | 13,090.25             | -2,981.74    | 412.81       | 2,985.63                | 2.73                    | 1.34                   | 2.38                  |
| 15,850.00                  | 91.83           | 179.06      | 13,087.55             | -3,076.68    | 414.61       | 3,080.59                | 0.52                    | 0.42                   | 0.31                  |
| 15,945.00                  | 91.07           | 179.20      | 13,085.14             | -3,171.64    | 416.05       | 3,175.55                | 0.81                    | -0.80                  | 0.15                  |





## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
| <b>Site:</b>     | Cattleman Fed Com - Deep        | <b>MD Reference:</b>                | RKB @ 3243.50usft (H&P 474) |
| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

| 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) |  |
| 16,040.00             | 91.63           | 179.92      | 13,082.90             | -3,266.61    | 416.78       | 3,270.53                | 0.96                    | 0.59                   | 0.76                  |  |
| 16,135.00             | 90.47           | 181.62      | 13,081.16             | -3,361.58    | 415.51       | 3,365.48                | 2.17                    | -1.22                  | 1.79                  |  |
| 16,229.00             | 87.45           | 180.38      | 13,082.87             | -3,455.54    | 413.86       | 3,459.42                | 3.47                    | -3.21                  | -1.32                 |  |
| 16,325.00             | 88.05           | 180.35      | 13,086.64             | -3,551.46    | 413.25       | 3,555.33                | 0.63                    | 0.63                   | -0.03                 |  |
| 16,420.00             | 88.13           | 180.16      | 13,089.80             | -3,646.41    | 412.83       | 3,650.27                | 0.22                    | 0.08                   | -0.20                 |  |
| 16,515.00             | 86.89           | 180.09      | 13,093.93             | -3,741.31    | 412.62       | 3,745.17                | 1.31                    | -1.31                  | -0.07                 |  |
| 16,610.00             | 88.24           | 180.32      | 13,097.97             | -3,836.23    | 412.28       | 3,840.07                | 1.44                    | 1.42                   | 0.24                  |  |
| 16,705.00             | 89.85           | 180.01      | 13,099.55             | -3,931.21    | 412.01       | 3,935.05                | 1.73                    | 1.69                   | -0.33                 |  |
| 16,800.00             | 91.76           | 180.54      | 13,098.22             | -4,026.19    | 411.56       | 4,030.02                | 2.09                    | 2.01                   | 0.56                  |  |
| 16,895.00             | 89.35           | 178.73      | 13,097.30             | -4,121.18    | 412.16       | 4,125.01                | 3.17                    | -2.54                  | -1.91                 |  |
| 16,989.00             | 89.05           | 178.36      | 13,098.61             | -4,215.14    | 414.55       | 4,218.99                | 0.51                    | -0.32                  | -0.39                 |  |
| 17,083.00             | 89.71           | 178.40      | 13,099.63             | -4,309.09    | 417.20       | 4,312.97                | 0.70                    | 0.70                   | 0.04                  |  |
| 17,178.00             | 89.67           | 178.20      | 13,100.14             | -4,404.05    | 420.02       | 4,407.94                | 0.21                    | -0.04                  | -0.21                 |  |
| 17,273.00             | 89.07           | 177.28      | 13,101.18             | -4,498.97    | 423.77       | 4,502.90                | 1.16                    | -0.63                  | -0.97                 |  |
| 17,368.00             | 88.24           | 176.13      | 13,103.41             | -4,593.78    | 429.23       | 4,597.76                | 1.49                    | -0.87                  | -1.21                 |  |
| 17,463.00             | 91.21           | 177.03      | 13,103.87             | -4,688.60    | 434.89       | 4,692.63                | 3.27                    | 3.13                   | 0.95                  |  |
| 17,557.00             | 92.10           | 177.51      | 13,101.16             | -4,782.45    | 439.37       | 4,786.52                | 1.08                    | 0.95                   | 0.51                  |  |
| 17,652.00             | 90.42           | 177.52      | 13,099.07             | -4,877.34    | 443.49       | 4,881.44                | 1.77                    | -1.77                  | 0.01                  |  |
| 17,747.00             | 91.07           | 176.82      | 13,097.83             | -4,972.21    | 448.18       | 4,976.36                | 1.01                    | 0.68                   | -0.74                 |  |
| 17,842.00             | 90.07           | 177.08      | 13,096.89             | -5,067.07    | 453.23       | 5,071.26                | 1.09                    | -1.05                  | 0.27                  |  |
| 17,936.00             | 90.35           | 178.32      | 13,096.54             | -5,161.00    | 457.00       | 5,165.22                | 1.35                    | 0.30                   | 1.32                  |  |
| 18,031.00             | 88.85           | 180.66      | 13,097.21             | -5,255.98    | 457.85       | 5,260.20                | 2.93                    | -1.58                  | 2.46                  |  |
| 18,126.00             | 88.17           | 179.66      | 13,099.68             | -5,350.95    | 457.58       | 5,355.16                | 1.27                    | -0.72                  | -1.05                 |  |
| 18,221.00             | 91.21           | 182.08      | 13,100.19             | -5,445.91    | 456.14       | 5,450.11                | 4.09                    | 3.20                   | 2.55                  |  |
| 18,314.00             | 87.36           | 180.59      | 13,101.35             | -5,538.86    | 453.97       | 5,543.03                | 4.44                    | -4.14                  | -1.60                 |  |
| 18,409.00             | 90.65           | 181.15      | 13,103.00             | -5,633.82    | 452.53       | 5,637.98                | 3.51                    | 3.46                   | 0.59                  |  |
| 18,503.00             | 88.88           | 180.81      | 13,103.38             | -5,727.81    | 450.92       | 5,731.94                | 1.92                    | -1.88                  | -0.36                 |  |
| 18,597.00             | 90.76           | 181.44      | 13,103.68             | -5,821.78    | 449.08       | 5,825.89                | 2.11                    | 2.00                   | 0.67                  |  |
| 18,691.00             | 90.44           | 181.17      | 13,102.70             | -5,915.75    | 446.94       | 5,919.84                | 0.45                    | -0.34                  | -0.29                 |  |
| 18,785.00             | 91.52           | 181.50      | 13,101.09             | -6,009.71    | 444.75       | 6,013.77                | 1.20                    | 1.15                   | 0.35                  |  |
| 18,880.00             | 92.74           | 182.23      | 13,097.56             | -6,104.59    | 441.66       | 6,108.62                | 1.50                    | 1.28                   | 0.77                  |  |
| 18,975.00             | 89.85           | 180.13      | 13,095.41             | -6,199.53    | 439.70       | 6,203.53                | 3.76                    | -3.04                  | -2.21                 |  |
| 19,070.00             | 90.10           | 180.65      | 13,095.45             | -6,294.53    | 439.06       | 6,298.52                | 0.61                    | 0.26                   | 0.55                  |  |
| 19,165.00             | 92.97           | 181.84      | 13,092.91             | -6,389.46    | 437.00       | 6,393.43                | 3.27                    | 3.02                   | 1.25                  |  |
| 19,260.00             | 92.66           | 179.76      | 13,088.24             | -6,484.33    | 435.67       | 6,488.28                | 2.21                    | -0.33                  | -2.19                 |  |
| 19,355.00             | 86.37           | 178.26      | 13,089.04             | -6,579.27    | 437.31       | 6,583.23                | 6.81                    | -6.62                  | -1.58                 |  |
| 19,450.00             | 85.55           | 178.57      | 13,095.74             | -6,673.99    | 439.93       | 6,677.97                | 0.92                    | -0.86                  | 0.33                  |  |
| 19,545.00             | 84.79           | 178.79      | 13,103.74             | -6,768.63    | 442.11       | 6,772.63                | 0.83                    | -0.80                  | 0.23                  |  |
| 19,640.00             | 87.93           | 178.70      | 13,109.77             | -6,863.40    | 444.19       | 6,867.42                | 3.31                    | 3.31                   | -0.09                 |  |
| 19,736.00             | 88.17           | 178.90      | 13,113.03             | -6,959.33    | 446.20       | 6,963.35                | 0.33                    | 0.25                   | 0.21                  |  |
| 19,831.00             | 90.08           | 177.47      | 13,114.48             | -7,054.26    | 449.21       | 7,058.31                | 2.51                    | 2.01                   | -1.51                 |  |
| 19,926.00             | 91.47           | 176.75      | 13,113.20             | -7,149.13    | 454.00       | 7,153.22                | 1.65                    | 1.46                   | -0.76                 |  |
| 20,021.00             | 89.05           | 175.75      | 13,112.77             | -7,243.92    | 460.21       | 7,248.07                | 2.76                    | -2.55                  | -1.05                 |  |



## Survey Report



|                  |                                 |                                     |                             |
|------------------|---------------------------------|-------------------------------------|-----------------------------|
| <b>Company:</b>  | Titus Oil & Gas Production, LLC | <b>Local Co-ordinate Reference:</b> | Well Cattleman Fed Com 514H |
| <b>Project:</b>  | Lea County, NM ( NAD27 NME)     | <b>TVD Reference:</b>               | RKB @ 3243.50usft (H&P 474) |
| <b>Site:</b>     | Cattleman Fed Com - Deep        | <b>MD Reference:</b>                | RKB @ 3243.50usft (H&P 474) |
| <b>Well:</b>     | Cattleman Fed Com 514H          | <b>North Reference:</b>             | Grid                        |
| <b>Wellbore:</b> | OH / 67734                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Design:</b>   | Surveys (H&P 474)               | <b>Database:</b>                    | USA Compass                 |

| 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) |
| 20,116.00                     | 92.23           | 178.90      | 13,111.71             | -7,338.78    | 464.64       | 7,342.97                | 4.71                    | 3.35                   | 3.32                  |
| 20,211.00                     | 89.18           | 177.89      | 13,110.54             | -7,433.72    | 467.30       | 7,437.94                | 3.38                    | -3.21                  | -1.06                 |
| 20,306.00                     | 89.65           | 178.61      | 13,111.51             | -7,528.67    | 470.20       | 7,532.91                | 0.91                    | 0.49                   | 0.76                  |
| 20,401.00                     | 91.61           | 178.65      | 13,110.46             | -7,623.64    | 472.48       | 7,627.89                | 2.06                    | 2.06                   | 0.04                  |
| 20,496.00                     | 91.80           | 179.28      | 13,107.64             | -7,718.58    | 474.19       | 7,722.84                | 0.69                    | 0.20                   | 0.66                  |
| 20,591.00                     | 90.36           | 176.64      | 13,105.85             | -7,813.49    | 477.57       | 7,817.79                | 3.16                    | -1.52                  | -2.78                 |
| 20,686.00                     | 90.89           | 177.17      | 13,104.81             | -7,908.35    | 482.70       | 7,912.69                | 0.79                    | 0.56                   | 0.56                  |
| 20,781.00                     | 89.25           | 175.37      | 13,104.69             | -8,003.14    | 488.88       | 8,007.53                | 2.56                    | -1.73                  | -1.89                 |
| 20,876.00                     | 91.29           | 177.99      | 13,104.25             | -8,097.96    | 494.38       | 8,102.41                | 3.50                    | 2.15                   | 2.76                  |
| 20,971.00                     | 89.27           | 176.27      | 13,103.78             | -8,192.84    | 499.14       | 8,197.32                | 2.79                    | -2.13                  | -1.81                 |
| 21,065.00                     | 91.69           | 178.04      | 13,102.99             | -8,286.71    | 503.80       | 8,291.23                | 3.19                    | 2.57                   | 1.88                  |
| 21,159.00                     | 94.76           | 181.95      | 13,097.70             | -8,380.53    | 503.82       | 8,385.05                | 5.28                    | 3.27                   | 4.16                  |
| 21,253.00                     | 95.43           | 181.63      | 13,089.36             | -8,474.11    | 500.89       | 8,478.60                | 0.79                    | 0.71                   | -0.34                 |
| Final Phoenix MWD Survey      |                 |             |                       |              |              |                         |                         |                        |                       |
| 21,293.88                     | 95.43           | 181.63      | 13,085.49             | -8,514.79    | 499.73       | 8,519.27                | 0.00                    | 0.00                   | 0.00                  |
| LTP: 21293.88'MD/13085.49'TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 21,341.00                     | 95.43           | 181.63      | 13,081.03             | -8,561.68    | 498.40       | 8,566.14                | 0.00                    | 0.00                   | 0.00                  |
| Projection to TD              |                 |             |                       |              |              |                         |                         |                        |                       |

| Casing Points         |                       |            |                     |                   |
|-----------------------|-----------------------|------------|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name       | Casing Diameter (") | Hole Diameter (") |
| 21,341.00             | 13,081.03             | 20" Casing | 20                  | 24                |

| Survey Annotations    |                       |                   |              |                               |
|-----------------------|-----------------------|-------------------|--------------|-------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                       |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                               |
| 174.00                | 173.98                | -1.14             | 2.21         | First Phoenix MWD Survey      |
| 13,561.00             | 13,082.21             | -790.80           | 444.37       | FTP: 13561'MD/13082.21'TVD    |
| 21,253.00             | 13,089.36             | -8,474.11         | 500.89       | Final Phoenix MWD Survey      |
| 21,293.88             | 13,085.49             | -8,514.79         | 499.73       | LTP: 21293.88'MD/13085.49'TVD |
| 21,341.00             | 13,081.03             | -8,561.68         | 498.40       | Projection to TD              |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 41664

**ACKNOWLEDGMENTS**

|                                                                                                       |                                                    |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>Titus Oil & Gas Production, LLC<br>420 Throckmorton St, Ste 1150<br>Fort Worth, TX 76012 | OGRID:<br>373986                                   |
|                                                                                                       | Action Number:<br>41664                            |
|                                                                                                       | Action Type:<br>[C-104] Completion Packet (C-104C) |

**ACKNOWLEDGMENTS**

|                                     |                                                                                                                    |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.     |
| <input checked="" type="checkbox"/> | I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion. |

**District I**  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 41664

CONDITIONS

|                                                                                                       |                                                    |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>Titus Oil & Gas Production, LLC<br>420 Throckmorton St, Ste 1150<br>Fort Worth, TX 76012 | OGRID:<br>373986                                   |
|                                                                                                       | Action Number:<br>41664                            |
|                                                                                                       | Action Type:<br>[C-104] Completion Packet (C-104C) |

CONDITIONS

| Created By | Condition                                                                                | Condition Date |
|------------|------------------------------------------------------------------------------------------|----------------|
| ksimmons   | RT C-104 expires 11/17/21; submit all drilling, casing, and completion sundries/reports. | 8/17/2021      |