

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>MANZANO, LLC<br>PO BOX 1737<br>ROSWELL, NM |                                                  | <sup>2</sup> OGRID Number<br>231429                       |
|                                                                                      |                                                  | <sup>3</sup> Reason for Filing Code/ Effective Date<br>NW |
| <sup>4</sup> API Number<br>30 - 025 51684                                            | <sup>5</sup> Pool Name<br>SANMAL;PENN            | <sup>6</sup> Pool Code<br>54340                           |
| <sup>7</sup> Property Code<br>334295                                                 | <sup>8</sup> Property Name<br>DANJER 22 10 STATE | <sup>9</sup> Well Number<br>4H                            |

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

|                    |               |                 |              |         |                       |                       |                      |                     |               |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|-----------------------|----------------------|---------------------|---------------|
| Ul or lot no.<br>L | Section<br>22 | Township<br>17S | Range<br>33E | Lot Idn | Feet from the<br>2000 | North/South Line<br>S | Feet from the<br>660 | East/West line<br>W | County<br>LEA |
|--------------------|---------------|-----------------|--------------|---------|-----------------------|-----------------------|----------------------|---------------------|---------------|

<sup>11</sup> Bottom Hole Location

|                             |                                          |                                                 |                                   |                                    |                                     |                       |                      |                     |               |
|-----------------------------|------------------------------------------|-------------------------------------------------|-----------------------------------|------------------------------------|-------------------------------------|-----------------------|----------------------|---------------------|---------------|
| UL or lot no.<br>L          | Section<br>10                            | Township<br>17S                                 | Range<br>33E                      | Lot Idn                            | Feet from the<br>1493               | North/South line<br>S | Feet from the<br>866 | East/West line<br>W | County<br>LEA |
| <sup>12</sup> Lse Code<br>S | <sup>13</sup> Producing Method Code<br>F | <sup>14</sup> Gas Connection Date<br>11/29/2023 | <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

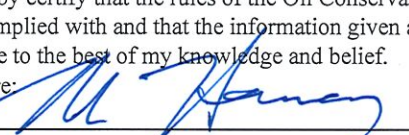
|                                 |                                            |                     |
|---------------------------------|--------------------------------------------|---------------------|
| <sup>18</sup> Transporter OGRID | <sup>19</sup> Transporter Name and Address | <sup>20</sup> O/G/W |
| 33479                           | HOLLY FRONTIER REFINING & MARKETING, LLC   | O                   |
| 159160                          | VERSADO GAS PROCESSORS, LLC                | G                   |
|                                 |                                            |                     |
|                                 |                                            |                     |
|                                 |                                            |                     |
|                                 |                                            |                     |

IV. Well Completion Data

|                                   |                                      |                           |                             |                                             |                       |
|-----------------------------------|--------------------------------------|---------------------------|-----------------------------|---------------------------------------------|-----------------------|
| <sup>21</sup> Spud Date<br>7/9/23 | <sup>22</sup> Ready Date<br>11/17/23 | <sup>23</sup> TD<br>21795 | <sup>24</sup> PBTB<br>21740 | <sup>25</sup> Perforations<br>12150'-21734' | <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  |                                             |                       |
| 12.25                             | 9.625                                | 1495                      | 1050                        |                                             |                       |
| 8.75                              | 7.625                                | 11290                     | 1900                        |                                             |                       |
| 6.75                              | 5.5                                  | 21795                     | 1700                        |                                             |                       |
|                                   |                                      |                           |                             |                                             |                       |

V. Well Test Data

|                                        |                                             |                                     |                                 |                             |                                     |
|----------------------------------------|---------------------------------------------|-------------------------------------|---------------------------------|-----------------------------|-------------------------------------|
| <sup>31</sup> Date New Oil<br>11/21/23 | <sup>32</sup> Gas Delivery Date<br>11/29/23 | <sup>33</sup> Test Date<br>11/28/23 | <sup>34</sup> Test Length<br>24 | <sup>35</sup> Tbg. Pressure | <sup>36</sup> Csg. Pressure<br>2560 |
| <sup>37</sup> Choke Size<br>16/64"     | <sup>38</sup> Oil<br>339                    | <sup>39</sup> Water<br>2252         | <sup>40</sup> Gas<br>325        |                             | <sup>41</sup> Test Method<br>F      |

<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.  
Signature:   
Printed name: MIKE HANAGAN  
Title: MANAGING MEMBER  
E-mail Address: mike@manzanoenergy.com  
Date: 11/28/23  
Phone: 575-623-1996 ext 310

|                                |  |
|--------------------------------|--|
| OIL CONSERVATION DIVISION      |  |
| Approved by: PATRICIA MARTINEZ |  |
| Title: PETROLEUM SPECIALIST    |  |
| Approval Date: 6/26/2024       |  |



DANJER 22 10 STATE 4H - 10/27/2023

DISTRICT I  
1613 N. French Dr., Hobbs, NM 88240  
Phone: (505) 393-6161 Fax: (505) 393-6720  
DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720  
DISTRICT III  
1009 Rio Diaz Rd., Arlee, NM 87410  
Phone: (505) 331-6178 Fax: (505) 331-6170  
DISTRICT IV  
1230 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3169 Fax: (505) 476-3162

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                   |                      |                                              |                      |                                    |                               |
|---------------------------------------------------|----------------------|----------------------------------------------|----------------------|------------------------------------|-------------------------------|
| 1 API Number<br><b>30-025-51684</b>               |                      | 2 Pool Code<br><b>54340</b>                  |                      | 3 Pool Name<br><b>SANMAL; PENN</b> |                               |
| 4 Property Code<br><b>334295</b>                  |                      | 5 Property Name<br><b>DANJER 22 10 STATE</b> |                      |                                    |                               |
| 6 OGRID No.<br><b>231429</b>                      |                      | 7 Operator Name<br><b>MANZANO .LLC</b>       |                      |                                    |                               |
| 8 Well Number<br><b>4H</b>                        |                      |                                              |                      |                                    |                               |
| 9 Elevation<br><b>4160.3'</b>                     |                      |                                              |                      |                                    |                               |
| 10 Surface Location                               |                      |                                              |                      |                                    |                               |
| UL or lot no.<br><b>L</b>                         | Section<br><b>22</b> | Township<br><b>17-S</b>                      | Range<br><b>33-E</b> | Lot Idn                            | Feet from the<br><b>2000'</b> |
|                                                   |                      | North/South line<br><b>SOUTH</b>             |                      | Feet from the<br><b>660'</b>       | East/West line<br><b>WEST</b> |
|                                                   |                      | County<br><b>LEA</b>                         |                      |                                    |                               |
| 11 Bottom Hole Location If Different From Surface |                      |                                              |                      |                                    |                               |
| UL or lot no.<br><b>L</b>                         | Section<br><b>10</b> | Township<br><b>17-S</b>                      | Range<br><b>33-E</b> | Lot Idn                            | Feet from the<br><b>1493'</b> |
|                                                   |                      | North/South line<br><b>SOUTH</b>             |                      | Feet from the<br><b>866'</b>       | East/West line<br><b>WEST</b> |
|                                                   |                      | County<br><b>LEA</b>                         |                      |                                    |                               |
| 12 Dedicated Acres<br><b>360.0</b>                |                      | 13 Joint or Infill<br><b>N</b>               |                      | 14 Consolidated Code<br><b>C</b>   |                               |
| 15 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.

**SHL/KOP:**  
GR. ELEV. 4160.3'  
NMSP-E (NAD 83)  
N(Y): = 662133.6'  
E(X): = 748988.2'  
LAT.: = N32.8184085° N  
LON.: = W103.6574002° W  
NMSP-E (NAD 27)  
N(Y): = 662068.9'  
E(X): = 707809.8'  
LAT.: = 32.8182875° N  
LON.: = 103.6568981° W

**FTP:**  
NMSP-E (NAD 83)  
N(Y): = 662564.1'  
E(X): = 748936.9'  
LAT.: = N32.8195926° N  
LON.: = W103.6575583° W  
NMSP-E (NAD 27)  
N(Y): = 662499.4'  
E(X): = 707758.4'  
LAT.: = 32.8194716° N  
LON.: = 103.6570562° W

**LTP:**  
NMSP-E (NAD 83)  
N(Y): = 672125.9'  
E(X): = 749190.6'  
LAT.: = N32.8458682° N  
LON.: = W103.6565330° W  
NMSP-E (NAD 27)  
N(Y): = 672061.0'  
E(X): = 708012.3'  
LAT.: = 32.8457474° N  
LON.: = 103.6580303° W

**BHL:**  
NMSP-E (NAD 83)  
N(Y): = 672186.8'  
E(X): = 749193.8'  
LAT.: = N32.8460356° N  
LON.: = W103.6565214° W  
NMSP-E (NAD 27)  
N(Y): = 672121.9'  
E(X): = 708015.5'  
LAT.: = 32.8459148° N  
LON.: = 103.6560167° W

**"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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Mike Hanagan* Date: **11/4/23**  
Print Name: **MIKE HANAGAN**  
E-mail Address: **mike@manzanenergy.com**

**"SURVEYORS 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.

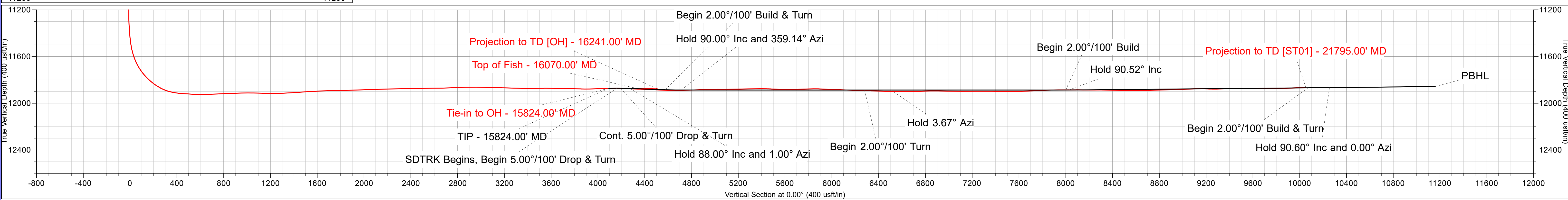
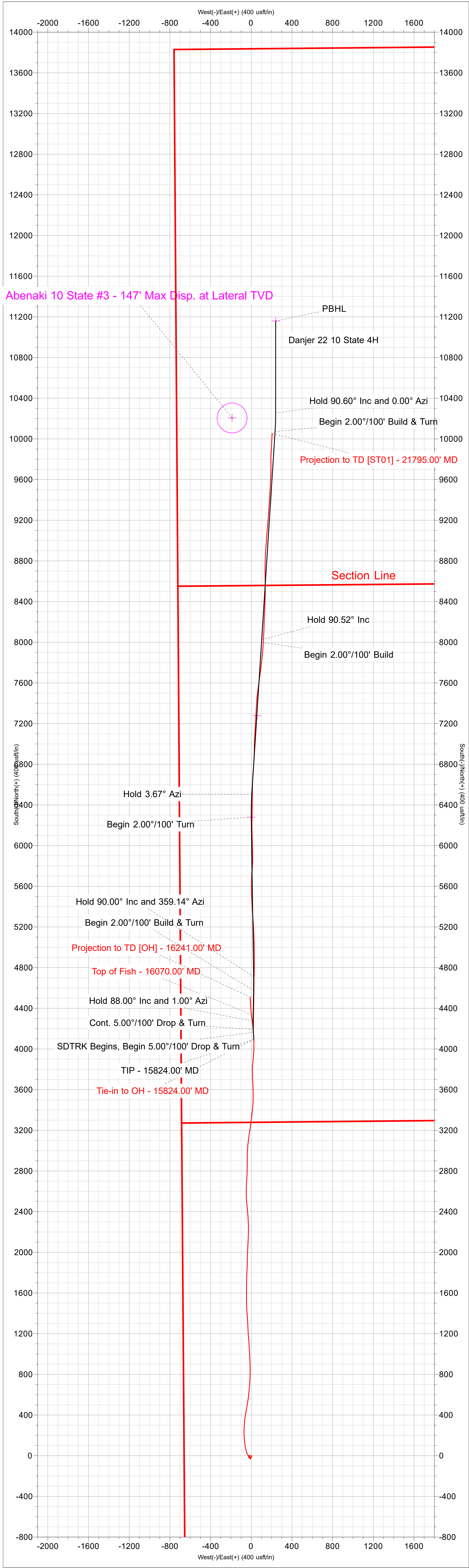
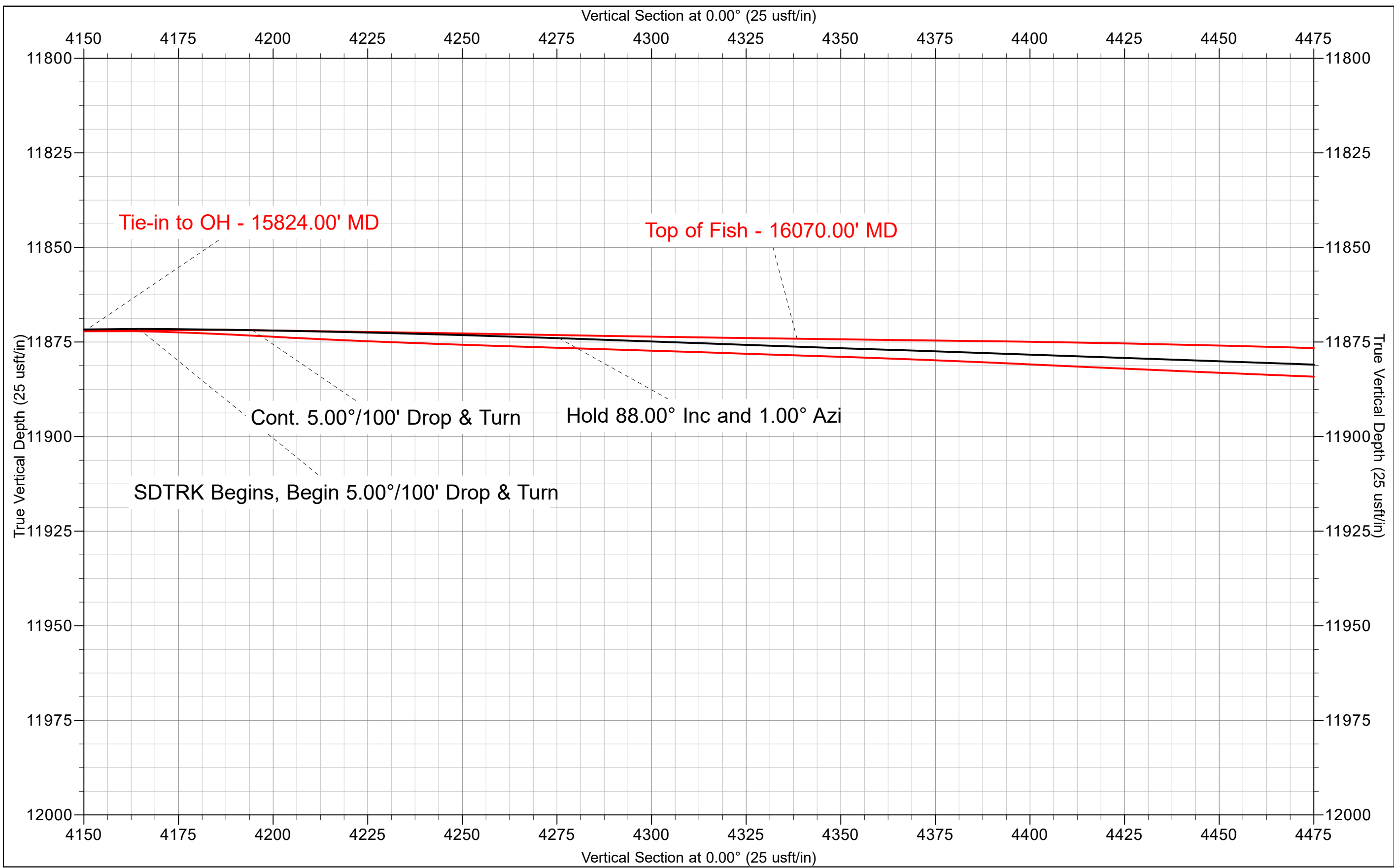
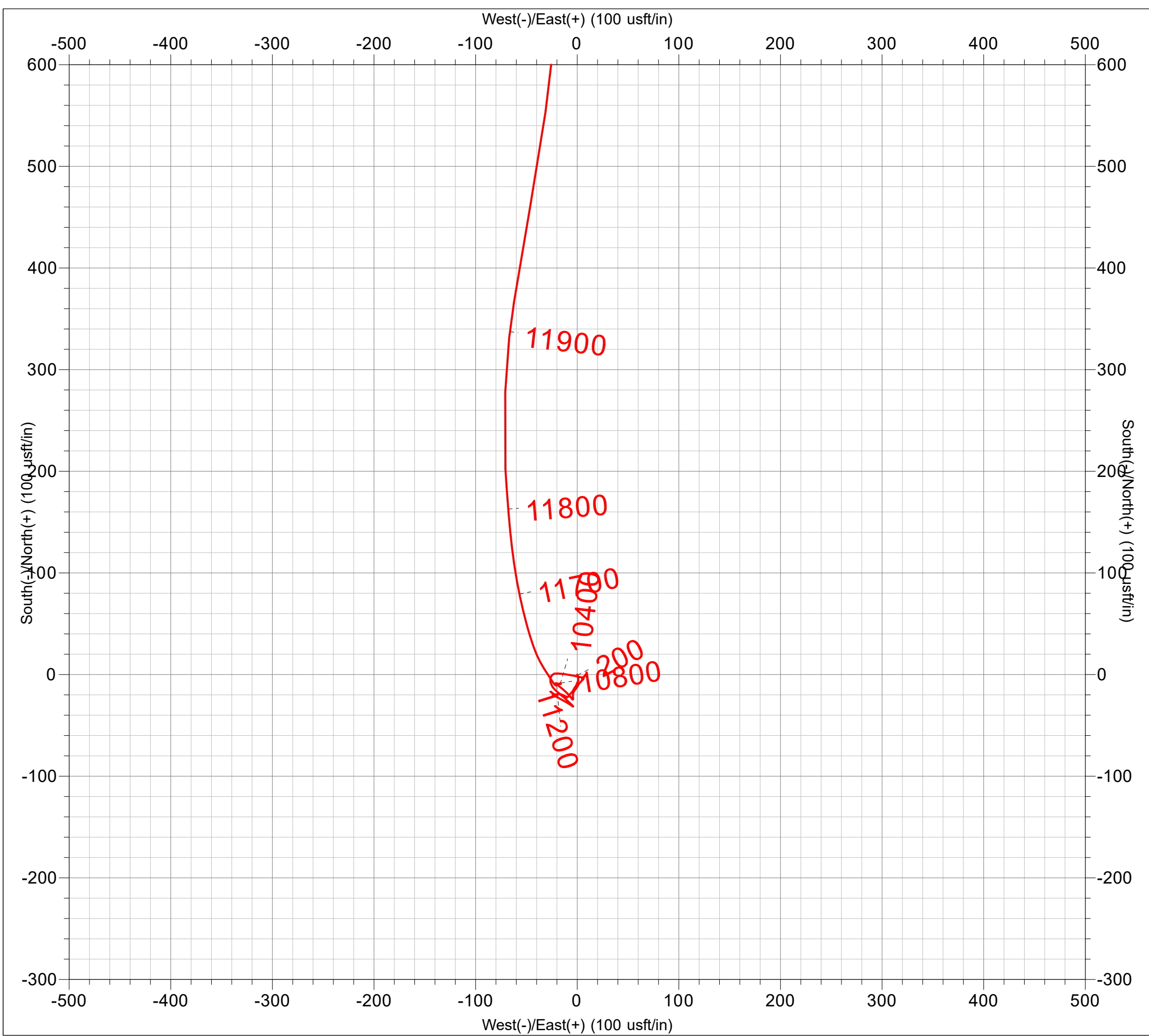
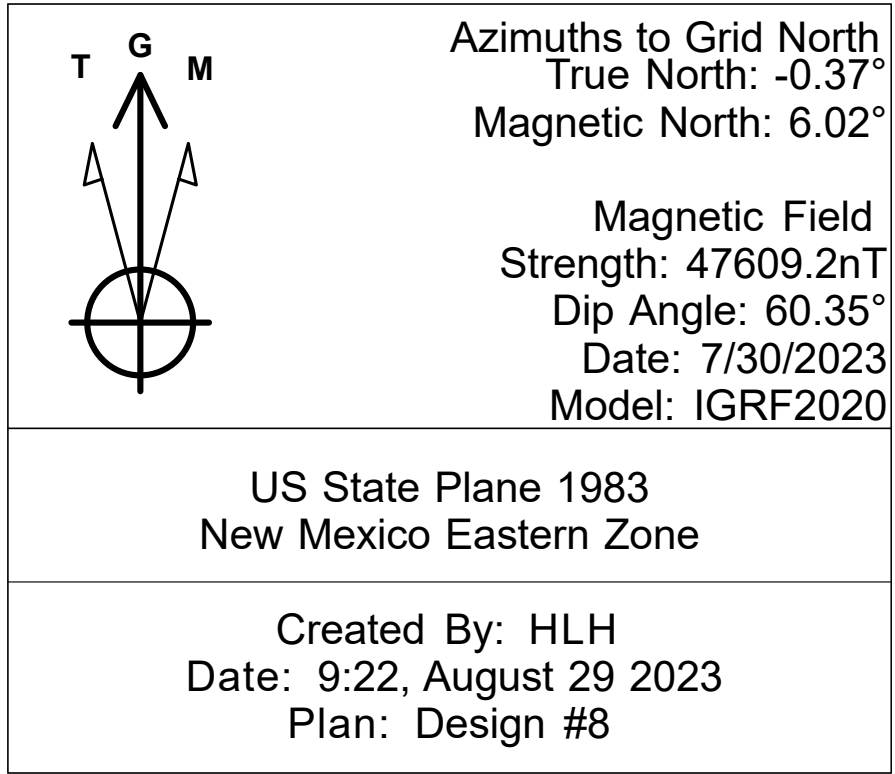
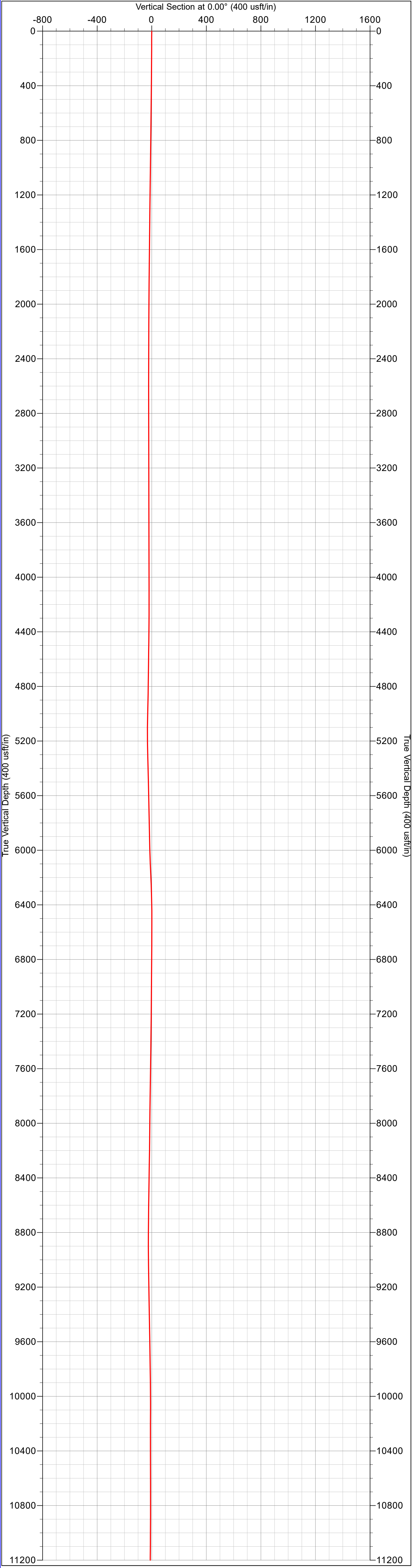
OCTOBER 27, 2023  
Date of Survey  
Signature and Seal of Professional Surveyor:  
  
Job No.: **WTC-56035** Draft: **JY**  
James C. Tompkins 27117 DATE: 10/27/2023  
Certificate Number



ANNOTATIONS

| MD       | Inc   | Azi    | TVD      | +N/-S    | +E/-W  | VSect    | Departure | Annotation                                 |
|----------|-------|--------|----------|----------|--------|----------|-----------|--------------------------------------------|
| 15824.00 | 91.34 | 357.23 | 11872.24 | 4093.71  | 25.72  | 4093.71  | 0.00      | TIP - 15824.00' MD                         |
| 15895.00 | 89.75 | 355.77 | 11871.56 | 4164.57  | 21.38  | 4164.57  | 70.99     | SDTRK Begins, Begin 5.00°/100' Drop & Turn |
| 15925.00 | 89.00 | 357.07 | 11871.89 | 4194.51  | 19.51  | 4194.51  | 100.99    | Cont. 5.00°/100' Drop & Turn               |
| 16006.09 | 88.00 | 1.00   | 11874.01 | 4275.55  | 18.14  | 4275.55  | 182.06    | Hold 88.00° Inc and 1.00° Azi              |
| 16306.09 | 88.00 | 1.00   | 11884.48 | 4575.32  | 23.38  | 4575.32  | 481.87    | Begin 2.00°/100' Build & Turn              |
| 16442.47 | 90.00 | 359.14 | 11886.87 | 4711.66  | 23.54  | 4711.66  | 618.22    | Hold 90.00° Inc and 359.14° Azi            |
| 18010.98 | 90.00 | 359.14 | 11887.00 | 6280.00  | 0.00   | 6280.00  | 2186.74   | Begin 2.00°/100' Turn                      |
| 18237.48 | 90.00 | 3.67   | 11887.01 | 6506.36  | 5.55   | 6506.36  | 2413.23   | Hold 3.67° Azi                             |
| 19734.18 | 90.00 | 3.67   | 11887.00 | 8000.00  | 101.35 | 8000.00  | 3909.93   | Begin 2.00°/100' Build                     |
| 19760.23 | 90.52 | 3.67   | 11886.88 | 8025.99  | 103.02 | 8025.99  | 3935.98   | Hold 90.52° Inc                            |
| 21810.51 | 90.52 | 3.67   | 11868.23 | 10072.00 | 234.10 | 10072.00 | 5986.18   | Begin 2.00°/100' Build & Turn              |
| 21993.72 | 90.60 | 0.00   | 11866.44 | 10255.07 | 239.96 | 10255.07 | 6169.38   | Hold 90.60° Inc and 0.00° Azi              |
| 22898.70 | 90.60 | 0.00   | 11857.00 | 11160.00 | 240.00 | 11160.00 | 7074.31   | PBHL                                       |

Grid North is 0.37° East of True North (Grid Convergence)  
To convert a Magnetic Direction to a Grid Direction, Add 6.02°  
To convert a Magnetic Direction to a True Direction, Add 6.38° East







## **Manzano**

**Lea County, NM (NAD 83)**

**Danjer 22 10**

**Danjer 22 10 State 4H**

**Wellbore #1**

**Design: Surveys**

## **Standard Survey Report**

**29 August, 2023**





# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD 83)   |                      |                |
| <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   |                      |                |

|                       |              |              |                 |                   |             |
|-----------------------|--------------|--------------|-----------------|-------------------|-------------|
| Site                  | Danjer 22 10 |              |                 |                   |             |
| Site Position:        |              | Northing:    | 662,133.59 usft | Latitude:         | 32.818409   |
| From:                 | Lat/Long     | Easting:     | 748,988.21 usft | Longitude:        | -103.657400 |
| Position Uncertainty: | 0.00 usft    | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.37 °      |

|                      |                       |           |                     |                 |               |               |
|----------------------|-----------------------|-----------|---------------------|-----------------|---------------|---------------|
| Well                 | Danjer 22 10 State 4H |           |                     |                 |               |               |
| Well Position        | +N/-S                 | 0.00 usft | Northing:           | 662,133.59 usft | Latitude:     | 32.818409     |
|                      | +E/-W                 | 0.00 usft | Easting:            | 748,988.21 usft | Longitude:    | -103.657400   |
| Position Uncertainty |                       | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 4,160.00 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020          | 7/30/2023          | 6.38                   | 60.35                | 47,609.27175618            |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | Surveys                        |                     |                     |                      |      |
| <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> | <b>Direction (°)</b> |      |
|                          | 0.00                           | 0.00                | 0.00                | 0.00                 |      |

|                       |                  |                           |                  |                     |  |
|-----------------------|------------------|---------------------------|------------------|---------------------|--|
| <b>Survey Program</b> | <b>Date</b>      | 8/4/2023                  |                  |                     |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>  | <b>Tool Name</b> | <b>Description</b>  |  |
| 224.00                | 16,241.00        | Stryker MWD (Wellbore #1) | MWD              | OWSG MWD - Standard |  |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <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                         |  |
| 224.00                       | 0.40                   | 153.00             | 224.00                       | -0.70               | 0.35                | -0.70                          | 0.18                           | 0.18                          | 0.00                         |  |
| 311.00                       | 0.70                   | 165.63             | 310.99                       | -1.48               | 0.62                | -1.48                          | 0.37                           | 0.34                          | 14.52                        |  |
| 397.00                       | 0.70                   | 166.51             | 396.99                       | -2.50               | 0.88                | -2.50                          | 0.01                           | 0.00                          | 1.02                         |  |
| 482.00                       | 0.62                   | 177.32             | 481.98                       | -3.47               | 1.02                | -3.47                          | 0.17                           | -0.09                         | 12.72                        |  |
| 581.00                       | 0.66                   | 178.02             | 580.98                       | -4.57               | 1.07                | -4.57                          | 0.04                           | 0.04                          | 0.71                         |  |
| 676.00                       | 0.70                   | 177.49             | 675.97                       | -5.70               | 1.11                | -5.70                          | 0.04                           | 0.04                          | -0.56                        |  |
| 770.00                       | 0.70                   | 213.27             | 769.96                       | -6.75               | 0.82                | -6.75                          | 0.46                           | 0.00                          | 38.06                        |  |
| 865.00                       | 0.53                   | 211.07             | 864.96                       | -7.61               | 0.27                | -7.61                          | 0.18                           | -0.18                         | -2.32                        |  |
| 960.00                       | 0.84                   | 191.03             | 959.95                       | -8.67               | -0.09               | -8.67                          | 0.41                           | 0.33                          | -21.09                       |  |





# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 1,055.00              | 1.01            | 209.31      | 1,054.94              | -10.09       | -0.63        | -10.09                  | 0.36                    | 0.18                   | 19.24                 |
| 1,149.00              | 0.97            | 214.41      | 1,148.92              | -11.47       | -1.48        | -11.47                  | 0.10                    | -0.04                  | 5.43                  |
| 1,244.00              | 0.84            | 216.61      | 1,243.91              | -12.69       | -2.35        | -12.69                  | 0.14                    | -0.14                  | 2.32                  |
| 1,339.00              | 0.79            | 204.83      | 1,338.90              | -13.84       | -3.04        | -13.84                  | 0.18                    | -0.05                  | -12.40                |
| 1,423.00              | 0.75            | 209.49      | 1,422.90              | -14.84       | -3.56        | -14.84                  | 0.09                    | -0.05                  | 5.55                  |
| 1,514.00              | 0.70            | 212.56      | 1,513.89              | -15.83       | -4.15        | -15.83                  | 0.07                    | -0.05                  | 3.37                  |
| 1,609.00              | 0.75            | 211.95      | 1,608.88              | -16.85       | -4.79        | -16.85                  | 0.05                    | 0.05                   | -0.64                 |
| 1,703.00              | 0.62            | 230.40      | 1,702.87              | -17.69       | -5.51        | -17.69                  | 0.27                    | -0.14                  | 19.63                 |
| 1,798.00              | 0.57            | 232.07      | 1,797.87              | -18.31       | -6.28        | -18.31                  | 0.06                    | -0.05                  | 1.76                  |
| 1,893.00              | 0.53            | 214.41      | 1,892.86              | -18.97       | -6.90        | -18.97                  | 0.18                    | -0.04                  | -18.59                |
| 1,987.00              | 0.57            | 201.58      | 1,986.86              | -19.76       | -7.32        | -19.76                  | 0.14                    | 0.04                   | -13.65                |
| 2,082.00              | 0.44            | 218.19      | 2,081.86              | -20.49       | -7.72        | -20.49                  | 0.20                    | -0.14                  | 17.48                 |
| 2,177.00              | 0.40            | 212.56      | 2,176.85              | -21.05       | -8.12        | -21.05                  | 0.06                    | -0.04                  | -5.93                 |
| 2,272.00              | 0.35            | 235.77      | 2,271.85              | -21.49       | -8.54        | -21.49                  | 0.17                    | -0.05                  | 24.43                 |
| 2,366.00              | 0.44            | 230.14      | 2,365.85              | -21.89       | -9.05        | -21.89                  | 0.10                    | 0.10                   | -5.99                 |
| 2,461.00              | 0.40            | 231.02      | 2,460.85              | -22.33       | -9.59        | -22.33                  | 0.04                    | -0.04                  | 0.93                  |
| 2,556.00              | 0.18            | 272.24      | 2,555.85              | -22.53       | -10.00       | -22.53                  | 0.31                    | -0.23                  | 43.39                 |
| 2,651.00              | 0.04            | 349.23      | 2,650.85              | -22.49       | -10.15       | -22.49                  | 0.18                    | -0.15                  | 81.04                 |
| 2,746.00              | 0.13            | 27.73       | 2,745.85              | -22.37       | -10.11       | -22.37                  | 0.11                    | 0.09                   | 40.53                 |
| 2,840.00              | 0.09            | 7.51        | 2,839.85              | -22.20       | -10.05       | -22.20                  | 0.06                    | -0.04                  | -21.51                |
| 2,935.00              | 0.09            | 37.84       | 2,934.85              | -22.07       | -9.99        | -22.07                  | 0.05                    | 0.00                   | 31.93                 |
| 3,030.00              | 0.18            | 267.41      | 3,029.85              | -22.01       | -10.10       | -22.01                  | 0.26                    | 0.09                   | -137.29               |
| 3,125.00              | 0.31            | 294.13      | 3,124.84              | -21.91       | -10.48       | -21.91                  | 0.18                    | 0.14                   | 28.13                 |
| 3,220.00              | 0.26            | 301.16      | 3,219.84              | -21.70       | -10.90       | -21.70                  | 0.06                    | -0.05                  | 7.40                  |
| 3,314.00              | 0.44            | 287.45      | 3,313.84              | -21.48       | -11.43       | -21.48                  | 0.21                    | 0.19                   | -14.59                |
| 3,409.00              | 0.44            | 303.88      | 3,408.84              | -21.17       | -12.08       | -21.17                  | 0.13                    | 0.00                   | 17.29                 |
| 3,504.00              | 0.70            | 295.18      | 3,503.83              | -20.72       | -12.91       | -20.72                  | 0.29                    | 0.27                   | -9.16                 |
| 3,599.00              | 0.70            | 293.95      | 3,598.83              | -20.23       | -13.96       | -20.23                  | 0.02                    | 0.00                   | -1.29                 |
| 3,693.00              | 0.79            | 288.76      | 3,692.82              | -19.79       | -15.10       | -19.79                  | 0.12                    | 0.10                   | -5.52                 |
| 3,788.00              | 0.70            | 284.98      | 3,787.81              | -19.43       | -16.28       | -19.43                  | 0.11                    | -0.09                  | -3.98                 |
| 3,883.00              | 0.79            | 269.87      | 3,882.80              | -19.28       | -17.50       | -19.28                  | 0.23                    | 0.09                   | -15.91                |
| 3,977.00              | 0.84            | 272.24      | 3,976.79              | -19.26       | -18.83       | -19.26                  | 0.06                    | 0.05                   | 2.52                  |
| 4,072.00              | 0.88            | 263.89      | 4,071.78              | -19.31       | -20.25       | -19.31                  | 0.14                    | 0.04                   | -8.79                 |
| 4,167.00              | 0.97            | 265.03      | 4,166.77              | -19.46       | -21.78       | -19.46                  | 0.10                    | 0.09                   | 1.20                  |
| 4,261.00              | 1.01            | 268.20      | 4,260.76              | -19.55       | -23.40       | -19.55                  | 0.07                    | 0.04                   | 3.37                  |
| 4,356.00              | 0.48            | 145.06      | 4,355.75              | -19.90       | -24.01       | -19.90                  | 1.40                    | -0.56                  | -129.62               |
| 4,452.00              | 1.76            | 113.42      | 4,451.73              | -20.82       | -22.43       | -20.82                  | 1.43                    | 1.33                   | -32.96                |
| 4,547.00              | 1.63            | 118.08      | 4,546.69              | -22.03       | -19.90       | -22.03                  | 0.20                    | -0.14                  | 4.91                  |
| 4,642.00              | 1.67            | 122.39      | 4,641.65              | -23.41       | -17.53       | -23.41                  | 0.14                    | 0.04                   | 4.54                  |
| 4,736.00              | 1.58            | 115.80      | 4,735.61              | -24.71       | -15.21       | -24.71                  | 0.22                    | -0.10                  | -7.01                 |
| 4,831.00              | 1.71            | 116.67      | 4,830.57              | -25.92       | -12.77       | -25.92                  | 0.14                    | 0.14                   | 0.92                  |
| 4,926.00              | 2.29            | 124.58      | 4,925.52              | -27.63       | -9.94        | -27.63                  | 0.67                    | 0.61                   | 8.33                  |
| 5,021.00              | 2.24            | 121.77      | 5,020.44              | -29.68       | -6.79        | -29.68                  | 0.13                    | -0.05                  | -2.96                 |
| 5,116.00              | 1.71            | 126.69      | 5,115.38              | -31.51       | -4.08        | -31.51                  | 0.59                    | -0.56                  | 5.18                  |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |  |
| 5,211.00              | 1.93            | 318.91      | 5,210.37              | -31.15       | -3.99        | -31.15                  | 3.81                    | 0.23                   | -176.61               |  |
| 5,306.00              | 1.89            | 313.37      | 5,305.32              | -28.87       | -6.18        | -28.87                  | 0.20                    | -0.04                  | -5.83                 |  |
| 5,400.00              | 2.02            | 313.99      | 5,399.26              | -26.65       | -8.50        | -26.65                  | 0.14                    | 0.14                   | 0.66                  |  |
| 5,495.00              | 2.07            | 311.97      | 5,494.20              | -24.34       | -10.98       | -24.34                  | 0.09                    | 0.05                   | -2.13                 |  |
| 5,590.00              | 1.76            | 309.42      | 5,589.15              | -22.27       | -13.39       | -22.27                  | 0.34                    | -0.33                  | -2.68                 |  |
| 5,685.00              | 1.80            | 311.44      | 5,684.10              | -20.36       | -15.63       | -20.36                  | 0.08                    | 0.04                   | 2.13                  |  |
| 5,780.00              | 1.76            | 312.14      | 5,779.06              | -18.39       | -17.83       | -18.39                  | 0.05                    | -0.04                  | 0.74                  |  |
| 5,874.00              | 1.76            | 309.95      | 5,873.01              | -16.49       | -20.01       | -16.49                  | 0.07                    | 0.00                   | -2.33                 |  |
| 5,969.00              | 1.80            | 310.39      | 5,967.97              | -14.59       | -22.26       | -14.59                  | 0.04                    | 0.04                   | 0.46                  |  |
| 6,064.00              | 2.37            | 329.98      | 6,062.90              | -11.92       | -24.38       | -11.92                  | 0.95                    | 0.60                   | 20.62                 |  |
| 6,159.00              | 3.03            | 342.38      | 6,157.80              | -7.83        | -26.13       | -7.83                   | 0.92                    | 0.69                   | 13.05                 |  |
| 6,253.00              | 1.89            | 14.55       | 6,251.71              | -3.96        | -26.49       | -3.96                   | 1.86                    | -1.21                  | 34.22                 |  |
| 6,348.00              | 2.15            | 33.18       | 6,346.66              | -0.95        | -25.12       | -0.95                   | 0.74                    | 0.27                   | 19.61                 |  |
| 6,443.00              | 1.98            | 76.77       | 6,441.60              | 0.91         | -22.55       | 0.91                    | 1.62                    | -0.18                  | 45.88                 |  |
| 6,537.00              | 2.46            | 93.38       | 6,535.53              | 1.17         | -18.95       | 1.17                    | 0.85                    | 0.51                   | 17.67                 |  |
| 6,632.00              | 2.24            | 98.39       | 6,630.45              | 0.78         | -15.08       | 0.78                    | 0.32                    | -0.23                  | 5.27                  |  |
| 6,727.00              | 2.29            | 99.10       | 6,725.38              | 0.21         | -11.37       | 0.21                    | 0.06                    | 0.05                   | 0.75                  |  |
| 6,822.00              | 2.55            | 97.51       | 6,820.29              | -0.37        | -7.40        | -0.37                   | 0.28                    | 0.27                   | -1.67                 |  |
| 6,917.00              | 2.55            | 102.44      | 6,915.20              | -1.10        | -3.24        | -1.10                   | 0.23                    | 0.00                   | 5.19                  |  |
| 7,012.00              | 2.37            | 103.31      | 7,010.11              | -2.01        | 0.73         | -2.01                   | 0.19                    | -0.19                  | 0.92                  |  |
| 7,106.00              | 2.33            | 97.69       | 7,104.03              | -2.71        | 4.52         | -2.71                   | 0.25                    | -0.04                  | -5.98                 |  |
| 7,201.00              | 0.53            | 173.89      | 7,199.00              | -3.41        | 6.48         | -3.41                   | 2.38                    | -1.89                  | 80.21                 |  |
| 7,295.00              | 0.84            | 215.11      | 7,293.00              | -4.40        | 6.13         | -4.40                   | 0.60                    | 0.33                   | 43.85                 |  |
| 7,390.00              | 1.01            | 231.55      | 7,387.98              | -5.50        | 5.07         | -5.50                   | 0.33                    | 0.18                   | 17.31                 |  |
| 7,485.00              | 1.23            | 219.59      | 7,482.97              | -6.80        | 3.77         | -6.80                   | 0.34                    | 0.23                   | -12.59                |  |
| 7,580.00              | 1.10            | 223.99      | 7,577.95              | -8.24        | 2.49         | -8.24                   | 0.17                    | -0.14                  | 4.63                  |  |
| 7,674.00              | 0.92            | 210.45      | 7,671.93              | -9.54        | 1.48         | -9.54                   | 0.32                    | -0.19                  | -14.40                |  |
| 7,769.00              | 0.84            | 206.85      | 7,766.92              | -10.82       | 0.78         | -10.82                  | 0.10                    | -0.08                  | -3.79                 |  |
| 7,864.00              | 0.97            | 209.22      | 7,861.91              | -12.14       | 0.07         | -12.14                  | 0.14                    | 0.14                   | 2.49                  |  |
| 7,959.00              | 1.01            | 220.74      | 7,956.89              | -13.48       | -0.87        | -13.48                  | 0.21                    | 0.04                   | 12.13                 |  |
| 8,054.00              | 0.66            | 218.80      | 8,051.88              | -14.54       | -1.76        | -14.54                  | 0.37                    | -0.37                  | -2.04                 |  |
| 8,148.00              | 0.75            | 219.77      | 8,145.88              | -15.44       | -2.49        | -15.44                  | 0.10                    | 0.10                   | 1.03                  |  |
| 8,243.00              | 0.97            | 204.21      | 8,240.87              | -16.65       | -3.22        | -16.65                  | 0.34                    | 0.23                   | -16.38                |  |
| 8,338.00              | 1.01            | 198.59      | 8,335.85              | -18.17       | -3.82        | -18.17                  | 0.11                    | 0.04                   | -5.92                 |  |
| 8,433.00              | 0.79            | 185.05      | 8,430.84              | -19.62       | -4.14        | -19.62                  | 0.32                    | -0.23                  | -14.25                |  |
| 8,528.00              | 0.92            | 177.85      | 8,525.83              | -21.04       | -4.17        | -21.04                  | 0.18                    | 0.14                   | -7.58                 |  |
| 8,622.00              | 0.79            | 169.41      | 8,619.82              | -22.43       | -4.02        | -22.43                  | 0.19                    | -0.14                  | -8.98                 |  |
| 8,717.00              | 0.53            | 192.35      | 8,714.81              | -23.50       | -4.00        | -23.50                  | 0.39                    | -0.27                  | 24.15                 |  |
| 8,812.00              | 0.57            | 171.87      | 8,809.81              | -24.40       | -4.02        | -24.40                  | 0.21                    | 0.04                   | -21.56                |  |
| 8,906.00              | 0.57            | 300.28      | 8,903.81              | -24.62       | -4.36        | -24.62                  | 1.09                    | 0.00                   | 136.61                |  |
| 9,001.00              | 0.26            | 319.17      | 8,998.80              | -24.22       | -4.91        | -24.22                  | 0.35                    | -0.33                  | 19.88                 |  |
| 9,096.00              | 1.45            | 325.50      | 9,093.79              | -23.07       | -5.73        | -23.07                  | 1.25                    | 1.25                   | 6.66                  |  |
| 9,191.00              | 1.41            | 311.97      | 9,188.76              | -21.30       | -7.28        | -21.30                  | 0.36                    | -0.04                  | -14.24                |  |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 9,286.00              | 1.49            | 321.81      | 9,283.73              | -19.54       | -8.92        | -19.54                  | 0.27                    | 0.08                   | 10.36                 |
| 9,381.00              | 1.58            | 320.32      | 9,378.70              | -17.57       | -10.51       | -17.57                  | 0.10                    | 0.09                   | -1.57                 |
| 9,475.00              | 1.36            | 308.36      | 9,472.67              | -15.88       | -12.22       | -15.88                  | 0.40                    | -0.23                  | -12.72                |
| 9,570.00              | 1.32            | 305.64      | 9,567.64              | -14.54       | -13.99       | -14.54                  | 0.08                    | -0.04                  | -2.86                 |
| 9,665.00              | 1.27            | 310.56      | 9,662.62              | -13.22       | -15.68       | -13.22                  | 0.13                    | -0.05                  | 5.18                  |
| 9,760.00              | 1.32            | 309.07      | 9,757.59              | -11.84       | -17.33       | -11.84                  | 0.06                    | 0.05                   | -1.57                 |
| 9,854.00              | 1.32            | 308.01      | 9,851.57              | -10.49       | -19.02       | -10.49                  | 0.03                    | 0.00                   | -1.13                 |
| 9,949.00              | 1.32            | 307.92      | 9,946.54              | -9.15        | -20.75       | -9.15                   | 0.00                    | 0.00                   | -0.09                 |
| 10,044.00             | 0.53            | 85.47       | 10,041.54             | -8.44        | -21.17       | -8.44                   | 1.84                    | -0.83                  | 144.79                |
| 10,139.00             | 0.97            | 104.72      | 10,136.53             | -8.61        | -19.96       | -8.61                   | 0.53                    | 0.46                   | 20.26                 |
| 10,234.00             | 0.75            | 103.84      | 10,231.52             | -8.96        | -18.58       | -8.96                   | 0.23                    | -0.23                  | -0.93                 |
| 10,328.00             | 0.70            | 101.12      | 10,325.51             | -9.22        | -17.42       | -9.22                   | 0.06                    | -0.05                  | -2.89                 |
| 10,423.00             | 0.31            | 93.65       | 10,420.50             | -9.35        | -16.59       | -9.35                   | 0.42                    | -0.41                  | -7.86                 |
| 10,518.00             | 0.09            | 99.71       | 10,515.50             | -9.38        | -16.26       | -9.38                   | 0.23                    | -0.23                  | 6.38                  |
| 10,613.00             | 0.18            | 18.85       | 10,610.50             | -9.25        | -16.14       | -9.25                   | 0.20                    | 0.09                   | -85.12                |
| 10,707.00             | 0.35            | 355.65      | 10,704.50             | -8.82        | -16.11       | -8.82                   | 0.21                    | 0.18                   | -24.68                |
| 10,802.00             | 0.18            | 350.73      | 10,799.50             | -8.39        | -16.16       | -8.39                   | 0.18                    | -0.18                  | -5.18                 |
| 10,897.00             | 0.84            | 238.67      | 10,894.50             | -8.60        | -16.78       | -8.60                   | 0.97                    | 0.69                   | -117.96               |
| 10,992.00             | 0.66            | 235.33      | 10,989.49             | -9.27        | -17.82       | -9.27                   | 0.19                    | -0.19                  | -3.52                 |
| 11,087.00             | 0.70            | 241.30      | 11,084.48             | -9.86        | -18.78       | -9.86                   | 0.09                    | 0.04                   | 6.28                  |
| 11,182.00             | 0.75            | 243.85      | 11,179.48             | -10.42       | -19.85       | -10.42                  | 0.06                    | 0.05                   | 2.68                  |
| 11,276.00             | 1.14            | 273.38      | 11,273.46             | -10.63       | -21.33       | -10.63                  | 0.65                    | 0.41                   | 31.41                 |
| 11,333.00             | 5.32            | 327.61      | 11,330.37             | -8.37        | -23.32       | -8.37                   | 8.32                    | 7.33                   | 95.14                 |
| 11,422.00             | 4.92            | 325.50      | 11,419.01             | -1.74        | -27.69       | -1.74                   | 0.50                    | -0.45                  | -2.37                 |
| 11,516.00             | 11.69           | 329.02      | 11,511.97             | 9.76         | -34.88       | 9.76                    | 7.22                    | 7.20                   | 3.74                  |
| 11,611.00             | 19.74           | 341.76      | 11,603.37             | 33.30        | -44.88       | 33.30                   | 9.17                    | 8.47                   | 13.41                 |
| 11,706.00             | 30.99           | 347.12      | 11,689.09             | 72.51        | -55.38       | 72.51                   | 12.07                   | 11.84                  | 5.64                  |
| 11,800.00             | 42.20           | 353.45      | 11,764.46             | 127.66       | -64.41       | 127.66                  | 12.57                   | 11.93                  | 6.73                  |
| 11,895.00             | 52.44           | 356.62      | 11,828.79             | 197.14       | -70.29       | 197.14                  | 11.05                   | 10.78                  | 3.34                  |
| 11,990.00             | 64.53           | 2.33        | 11,878.38             | 277.92       | -70.77       | 277.92                  | 13.71                   | 12.73                  | 6.01                  |
| 12,047.00             | 74.51           | 5.76        | 11,898.31             | 331.11       | -66.95       | 331.11                  | 18.39                   | 17.51                  | 6.02                  |
| 12,084.00             | 79.21           | 9.80        | 11,906.72             | 366.79       | -62.07       | 366.79                  | 16.56                   | 12.70                  | 10.92                 |
| 12,179.00             | 86.86           | 9.36        | 11,918.23             | 459.70       | -46.39       | 459.70                  | 8.07                    | 8.05                   | -0.46                 |
| 12,274.00             | 86.99           | 9.18        | 11,923.33             | 553.33       | -31.11       | 553.33                  | 0.23                    | 0.14                   | -0.19                 |
| 12,368.00             | 91.82           | 4.17        | 11,924.30             | 646.63       | -20.19       | 646.63                  | 7.40                    | 5.14                   | -5.33                 |
| 12,463.00             | 92.70           | 4.44        | 11,920.56             | 741.28       | -13.06       | 741.28                  | 0.97                    | 0.93                   | 0.28                  |
| 12,558.00             | 91.87           | 359.25      | 11,916.77             | 836.13       | -10.01       | 836.13                  | 5.53                    | -0.87                  | -5.46                 |
| 12,653.00             | 92.04           | 357.06      | 11,913.53             | 931.02       | -13.07       | 931.02                  | 2.31                    | 0.18                   | -2.31                 |
| 12,747.00             | 89.71           | 357.76      | 11,912.09             | 1,024.90     | -17.31       | 1,024.90                | 2.59                    | -2.48                  | 0.74                  |
| 12,842.00             | 88.31           | 354.68      | 11,913.73             | 1,119.67     | -23.57       | 1,119.67                | 3.56                    | -1.47                  | -3.24                 |
| 12,937.00             | 90.42           | 357.14      | 11,914.79             | 1,214.41     | -30.35       | 1,214.41                | 3.41                    | 2.22                   | 2.59                  |
| 13,032.00             | 90.68           | 357.32      | 11,913.87             | 1,309.29     | -34.94       | 1,309.29                | 0.33                    | 0.27                   | 0.19                  |
| 13,127.00             | 94.73           | 354.86      | 11,909.39             | 1,403.94     | -41.40       | 1,403.94                | 4.99                    | 4.26                   | -2.59                 |





# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

## 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) |
|---------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,221.00                                   | 93.80           | 359.43      | 11,902.40             | 1,497.54     | -46.07       | 1,497.54                | 4.95                    | -0.99                  | 4.86                  |
| 13,316.00                                   | 92.66           | 0.31        | 11,897.04             | 1,592.38     | -46.28       | 1,592.38                | 1.52                    | -1.20                  | 0.93                  |
| 13,411.00                                   | 92.26           | 359.87      | 11,892.97             | 1,687.29     | -46.13       | 1,687.29                | 0.63                    | -0.42                  | -0.46                 |
| 13,506.00                                   | 90.77           | 2.94        | 11,890.45             | 1,782.22     | -43.81       | 1,782.22                | 3.59                    | -1.57                  | 3.23                  |
| 13,601.00                                   | 91.38           | 2.06        | 11,888.67             | 1,877.11     | -39.66       | 1,877.11                | 1.13                    | 0.64                   | -0.93                 |
| 13,695.00                                   | 91.96           | 0.83        | 11,885.93             | 1,971.04     | -37.29       | 1,971.04                | 1.45                    | 0.62                   | -1.31                 |
| 13,790.00                                   | 91.91           | 3.91        | 11,882.72             | 2,065.89     | -33.37       | 2,065.89                | 3.24                    | -0.05                  | 3.24                  |
| 13,834.00                                   | 92.18           | 2.50        | 11,881.15             | 2,109.79     | -30.91       | 2,109.79                | 3.26                    | 0.61                   | -3.20                 |
| 13,928.00                                   | 91.52           | 1.10        | 11,878.12             | 2,203.69     | -27.96       | 2,203.69                | 1.65                    | -0.70                  | -1.49                 |
| 14,023.00                                   | 90.51           | 357.58      | 11,876.43             | 2,298.66     | -29.05       | 2,298.66                | 3.85                    | -1.06                  | -3.71                 |
| 14,118.00                                   | 91.25           | 354.77      | 11,874.98             | 2,393.42     | -35.39       | 2,393.42                | 3.06                    | 0.78                   | -2.96                 |
| 14,213.00                                   | 91.47           | 354.24      | 11,872.72             | 2,487.96     | -44.48       | 2,487.96                | 0.60                    | 0.23                   | -0.56                 |
| 14,308.00                                   | 90.46           | 359.43      | 11,871.12             | 2,582.77     | -49.72       | 2,582.77                | 5.56                    | -1.06                  | 5.46                  |
| 14,402.00                                   | 90.51           | 4.09        | 11,870.32             | 2,676.70     | -46.84       | 2,676.70                | 4.96                    | 0.05                   | 4.96                  |
| 14,497.00                                   | 93.23           | 2.33        | 11,867.22             | 2,771.48     | -41.52       | 2,771.48                | 3.41                    | 2.86                   | -1.85                 |
| 14,592.00                                   | 92.48           | 0.22        | 11,862.49             | 2,866.34     | -39.41       | 2,866.34                | 2.35                    | -0.79                  | -2.22                 |
| 14,686.00                                   | 88.44           | 0.48        | 11,861.74             | 2,960.31     | -38.84       | 2,960.31                | 4.31                    | -4.30                  | 0.28                  |
| 14,781.00                                   | 88.40           | 5.58        | 11,864.36             | 3,055.11     | -33.82       | 3,055.11                | 5.37                    | -0.04                  | 5.37                  |
| 14,876.00                                   | 88.35           | 9.18        | 11,867.05             | 3,149.27     | -21.62       | 3,149.27                | 3.79                    | -0.05                  | 3.79                  |
| 14,970.00                                   | 88.70           | 7.51        | 11,869.47             | 3,242.24     | -7.99        | 3,242.24                | 1.81                    | 0.37                   | -1.78                 |
| 15,065.00                                   | 88.40           | 7.07        | 11,871.88             | 3,336.44     | 4.07         | 3,336.44                | 0.56                    | -0.32                  | -0.46                 |
| 15,160.00                                   | 90.29           | 5.49        | 11,872.96             | 3,430.86     | 14.46        | 3,430.86                | 2.59                    | 1.99                   | -1.66                 |
| 15,255.00                                   | 91.12           | 359.87      | 11,871.79             | 3,525.71     | 18.90        | 3,525.71                | 5.98                    | 0.87                   | -5.92                 |
| 15,350.00                                   | 88.18           | 357.93      | 11,872.37             | 3,620.67     | 17.07        | 3,620.67                | 3.71                    | -3.09                  | -2.04                 |
| 15,445.00                                   | 89.10           | 356.97      | 11,874.63             | 3,715.55     | 12.85        | 3,715.55                | 1.40                    | 0.97                   | -1.01                 |
| 15,539.00                                   | 88.62           | 1.89        | 11,876.50             | 3,809.50     | 11.91        | 3,809.50                | 5.26                    | -0.51                  | 5.23                  |
| 15,634.00                                   | 89.10           | 6.72        | 11,878.39             | 3,904.18     | 19.04        | 3,904.18                | 5.11                    | 0.51                   | 5.08                  |
| 15,729.00                                   | 93.49           | 2.06        | 11,876.24             | 3,998.83     | 26.31        | 3,998.83                | 6.74                    | 4.62                   | -4.91                 |
| 15,824.00                                   | 91.34           | 357.23      | 11,872.24             | 4,093.71     | 25.72        | 4,093.71                | 5.56                    | -2.26                  | -5.08                 |
| 15,918.00                                   | 89.19           | 355.30      | 11,871.80             | 4,187.50     | 19.60        | 4,187.50                | 3.07                    | -2.29                  | -2.05                 |
| 16,013.00                                   | 89.01           | 352.66      | 11,873.30             | 4,281.96     | 9.63         | 4,281.96                | 2.79                    | -0.19                  | -2.78                 |
| 16,070.00                                   | 89.22           | 352.77      | 11,874.18             | 4,338.49     | 2.41         | 4,338.49                | 0.41                    | 0.37                   | 0.19                  |
| <b>Top of Fish - 16070.00' MD</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 16,108.00                                   | 89.36           | 352.84      | 11,874.65             | 4,376.19     | -2.35        | 4,376.19                | 0.41                    | 0.37                   | 0.19                  |
| 16,203.00                                   | 88.40           | 358.99      | 11,876.51             | 4,470.88     | -9.12        | 4,470.88                | 6.55                    | -1.01                  | 6.47                  |
| 16,241.00                                   | 88.40           | 358.99      | 11,877.57             | 4,508.86     | -9.79        | 4,508.86                | 0.00                    | 0.00                   | 0.00                  |
| <b>Projection to TD [OH] - 16241.00' MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

## Design Annotations

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                              |
|-----------------------------|-----------------------------|-------------------|-----------------|--------------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                      |
| 16,070.00                   | 11,874.18                   | 4,338.49          | 2.41            | Top of Fish - 16070.00' MD           |
| 16,241.00                   | 11,877.57                   | 4,508.86          | -9.79           | Projection to TD [OH] - 16241.00' MD |

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



## **Manzano**

**Lea County, NM (NAD 83)**

**Danjer 22 10**

**Danjer 22 10 State 4H**

**Wellbore #2**

**Design: Surveys**

## **Standard Survey Report**

**29 August, 2023**







# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, NM (NAD 83)   |                      |                |
| <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   |                      |                |

|                       |  |              |  |                   |  |
|-----------------------|--|--------------|--|-------------------|--|
| Site                  |  | Danjer 22 10 |  |                   |  |
| Site Position:        |  | Northing:    |  | 662,133.59 usft   |  |
| From:                 |  | Easting:     |  | 748,988.21 usft   |  |
| Position Uncertainty: |  | Slot Radius: |  | Grid Convergence: |  |
| Lat/Long              |  | 0.00 usft    |  | 32.818409         |  |
|                       |  | 13-3/16 "    |  | -103.657400       |  |
|                       |  |              |  | 0.37 °            |  |

| Well                 | Danjer 22 10 State 4H |           |                     |                 |               |               |
|----------------------|-----------------------|-----------|---------------------|-----------------|---------------|---------------|
| Well Position        | +N/-S                 | 0.00 usft | Northing:           | 662,133.59 usft | Latitude:     | 32.818409     |
|                      | +E/-W                 | 0.00 usft | Easting:            | 748,988.21 usft | Longitude:    | -103.657400   |
| Position Uncertainty |                       | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 4,160.00 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #2       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020          | 7/30/2023          | 6.38                   | 60.35                | 47,609.19186697            |

|                          |                                |                     |                     |                      |           |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----------|
| <b>Design</b>            | Surveys                        |                     |                     |                      |           |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |           |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> | 15,824.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |           |
|                          | 0.00                           | 0.00                | 0.00                |                      | 0.00      |

|                       |                  |                           |                  |                     |  |
|-----------------------|------------------|---------------------------|------------------|---------------------|--|
| <b>Survey Program</b> | <b>Date</b>      | 8/29/2023                 |                  |                     |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>  | <b>Tool Name</b> | <b>Description</b>  |  |
| 224.00                | 15,824.00        | Stryker MWD (Wellbore #1) | MWD              | OWSG MWD - Standard |  |
| 15,894.00             | 21,795.00        | Stryker MWD (Wellbore #2) | MWD              | OWSG MWD - Standard |  |

|                              |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <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                         |  |
| 224.00                       | 0.40                   | 153.00             | 224.00                       | -0.70               | 0.35                | -0.70                          | 0.18                           | 0.18                          | 0.00                         |  |
| 311.00                       | 0.70                   | 165.63             | 310.99                       | -1.48               | 0.62                | -1.48                          | 0.37                           | 0.34                          | 14.52                        |  |
| 397.00                       | 0.70                   | 166.51             | 396.99                       | -2.50               | 0.88                | -2.50                          | 0.01                           | 0.00                          | 1.02                         |  |
| 482.00                       | 0.62                   | 177.32             | 481.98                       | -3.47               | 1.02                | -3.47                          | 0.17                           | -0.09                         | 12.72                        |  |
| 581.00                       | 0.66                   | 178.02             | 580.98                       | -4.57               | 1.07                | -4.57                          | 0.04                           | 0.04                          | 0.71                         |  |
| 676.00                       | 0.70                   | 177.49             | 675.97                       | -5.70               | 1.11                | -5.70                          | 0.04                           | 0.04                          | -0.56                        |  |
| 770.00                       | 0.70                   | 213.27             | 769.96                       | -6.75               | 0.82                | -6.75                          | 0.46                           | 0.00                          | 38.06                        |  |
| 865.00                       | 0.53                   | 211.07             | 864.96                       | -7.61               | 0.27                | -7.61                          | 0.18                           | -0.18                         | -2.32                        |  |
| 960.00                       | 0.84                   | 191.03             | 959.95                       | -8.67               | -0.09               | -8.67                          | 0.41                           | 0.33                          | -21.09                       |  |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 1,055.00              | 1.01            | 209.31      | 1,054.94              | -10.09       | -0.63        | -10.09                  | 0.36                    | 0.18                   | 19.24                 |
| 1,149.00              | 0.97            | 214.41      | 1,148.92              | -11.47       | -1.48        | -11.47                  | 0.10                    | -0.04                  | 5.43                  |
| 1,244.00              | 0.84            | 216.61      | 1,243.91              | -12.69       | -2.35        | -12.69                  | 0.14                    | -0.14                  | 2.32                  |
| 1,339.00              | 0.79            | 204.83      | 1,338.90              | -13.84       | -3.04        | -13.84                  | 0.18                    | -0.05                  | -12.40                |
| 1,423.00              | 0.75            | 209.49      | 1,422.90              | -14.84       | -3.56        | -14.84                  | 0.09                    | -0.05                  | 5.55                  |
| 1,514.00              | 0.70            | 212.56      | 1,513.89              | -15.83       | -4.15        | -15.83                  | 0.07                    | -0.05                  | 3.37                  |
| 1,609.00              | 0.75            | 211.95      | 1,608.88              | -16.85       | -4.79        | -16.85                  | 0.05                    | 0.05                   | -0.64                 |
| 1,703.00              | 0.62            | 230.40      | 1,702.87              | -17.69       | -5.51        | -17.69                  | 0.27                    | -0.14                  | 19.63                 |
| 1,798.00              | 0.57            | 232.07      | 1,797.87              | -18.31       | -6.28        | -18.31                  | 0.06                    | -0.05                  | 1.76                  |
| 1,893.00              | 0.53            | 214.41      | 1,892.86              | -18.97       | -6.90        | -18.97                  | 0.18                    | -0.04                  | -18.59                |
| 1,987.00              | 0.57            | 201.58      | 1,986.86              | -19.76       | -7.32        | -19.76                  | 0.14                    | 0.04                   | -13.65                |
| 2,082.00              | 0.44            | 218.19      | 2,081.86              | -20.49       | -7.72        | -20.49                  | 0.20                    | -0.14                  | 17.48                 |
| 2,177.00              | 0.40            | 212.56      | 2,176.85              | -21.05       | -8.12        | -21.05                  | 0.06                    | -0.04                  | -5.93                 |
| 2,272.00              | 0.35            | 235.77      | 2,271.85              | -21.49       | -8.54        | -21.49                  | 0.17                    | -0.05                  | 24.43                 |
| 2,366.00              | 0.44            | 230.14      | 2,365.85              | -21.89       | -9.05        | -21.89                  | 0.10                    | 0.10                   | -5.99                 |
| 2,461.00              | 0.40            | 231.02      | 2,460.85              | -22.33       | -9.59        | -22.33                  | 0.04                    | -0.04                  | 0.93                  |
| 2,556.00              | 0.18            | 272.24      | 2,555.85              | -22.53       | -10.00       | -22.53                  | 0.31                    | -0.23                  | 43.39                 |
| 2,651.00              | 0.04            | 349.23      | 2,650.85              | -22.49       | -10.15       | -22.49                  | 0.18                    | -0.15                  | 81.04                 |
| 2,746.00              | 0.13            | 27.73       | 2,745.85              | -22.37       | -10.11       | -22.37                  | 0.11                    | 0.09                   | 40.53                 |
| 2,840.00              | 0.09            | 7.51        | 2,839.85              | -22.20       | -10.05       | -22.20                  | 0.06                    | -0.04                  | -21.51                |
| 2,935.00              | 0.09            | 37.84       | 2,934.85              | -22.07       | -9.99        | -22.07                  | 0.05                    | 0.00                   | 31.93                 |
| 3,030.00              | 0.18            | 267.41      | 3,029.85              | -22.01       | -10.10       | -22.01                  | 0.26                    | 0.09                   | -137.29               |
| 3,125.00              | 0.31            | 294.13      | 3,124.84              | -21.91       | -10.48       | -21.91                  | 0.18                    | 0.14                   | 28.13                 |
| 3,220.00              | 0.26            | 301.16      | 3,219.84              | -21.70       | -10.90       | -21.70                  | 0.06                    | -0.05                  | 7.40                  |
| 3,314.00              | 0.44            | 287.45      | 3,313.84              | -21.48       | -11.43       | -21.48                  | 0.21                    | 0.19                   | -14.59                |
| 3,409.00              | 0.44            | 303.88      | 3,408.84              | -21.17       | -12.08       | -21.17                  | 0.13                    | 0.00                   | 17.29                 |
| 3,504.00              | 0.70            | 295.18      | 3,503.83              | -20.72       | -12.91       | -20.72                  | 0.29                    | 0.27                   | -9.16                 |
| 3,599.00              | 0.70            | 293.95      | 3,598.83              | -20.23       | -13.96       | -20.23                  | 0.02                    | 0.00                   | -1.29                 |
| 3,693.00              | 0.79            | 288.76      | 3,692.82              | -19.79       | -15.10       | -19.79                  | 0.12                    | 0.10                   | -5.52                 |
| 3,788.00              | 0.70            | 284.98      | 3,787.81              | -19.43       | -16.28       | -19.43                  | 0.11                    | -0.09                  | -3.98                 |
| 3,883.00              | 0.79            | 269.87      | 3,882.80              | -19.28       | -17.50       | -19.28                  | 0.23                    | 0.09                   | -15.91                |
| 3,977.00              | 0.84            | 272.24      | 3,976.79              | -19.26       | -18.83       | -19.26                  | 0.06                    | 0.05                   | 2.52                  |
| 4,072.00              | 0.88            | 263.89      | 4,071.78              | -19.31       | -20.25       | -19.31                  | 0.14                    | 0.04                   | -8.79                 |
| 4,167.00              | 0.97            | 265.03      | 4,166.77              | -19.46       | -21.78       | -19.46                  | 0.10                    | 0.09                   | 1.20                  |
| 4,261.00              | 1.01            | 268.20      | 4,260.76              | -19.55       | -23.40       | -19.55                  | 0.07                    | 0.04                   | 3.37                  |
| 4,356.00              | 0.48            | 145.06      | 4,355.75              | -19.90       | -24.01       | -19.90                  | 1.40                    | -0.56                  | -129.62               |
| 4,452.00              | 1.76            | 113.42      | 4,451.73              | -20.82       | -22.43       | -20.82                  | 1.43                    | 1.33                   | -32.96                |
| 4,547.00              | 1.63            | 118.08      | 4,546.69              | -22.03       | -19.90       | -22.03                  | 0.20                    | -0.14                  | 4.91                  |
| 4,642.00              | 1.67            | 122.39      | 4,641.65              | -23.41       | -17.53       | -23.41                  | 0.14                    | 0.04                   | 4.54                  |
| 4,736.00              | 1.58            | 115.80      | 4,735.61              | -24.71       | -15.21       | -24.71                  | 0.22                    | -0.10                  | -7.01                 |
| 4,831.00              | 1.71            | 116.67      | 4,830.57              | -25.92       | -12.77       | -25.92                  | 0.14                    | 0.14                   | 0.92                  |
| 4,926.00              | 2.29            | 124.58      | 4,925.52              | -27.63       | -9.94        | -27.63                  | 0.67                    | 0.61                   | 8.33                  |
| 5,021.00              | 2.24            | 121.77      | 5,020.44              | -29.68       | -6.79        | -29.68                  | 0.13                    | -0.05                  | -2.96                 |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 5,116.00              | 1.71            | 126.69      | 5,115.38              | -31.51       | -4.08        | -31.51                  | 0.59                    | -0.56                  | 5.18                  |
| 5,211.00              | 1.93            | 318.91      | 5,210.37              | -31.15       | -3.99        | -31.15                  | 3.81                    | 0.23                   | -176.61               |
| 5,306.00              | 1.89            | 313.37      | 5,305.32              | -28.87       | -6.18        | -28.87                  | 0.20                    | -0.04                  | -5.83                 |
| 5,400.00              | 2.02            | 313.99      | 5,399.26              | -26.65       | -8.50        | -26.65                  | 0.14                    | 0.14                   | 0.66                  |
| 5,495.00              | 2.07            | 311.97      | 5,494.20              | -24.34       | -10.98       | -24.34                  | 0.09                    | 0.05                   | -2.13                 |
| 5,590.00              | 1.76            | 309.42      | 5,589.15              | -22.27       | -13.39       | -22.27                  | 0.34                    | -0.33                  | -2.68                 |
| 5,685.00              | 1.80            | 311.44      | 5,684.10              | -20.36       | -15.63       | -20.36                  | 0.08                    | 0.04                   | 2.13                  |
| 5,780.00              | 1.76            | 312.14      | 5,779.06              | -18.39       | -17.83       | -18.39                  | 0.05                    | -0.04                  | 0.74                  |
| 5,874.00              | 1.76            | 309.95      | 5,873.01              | -16.49       | -20.01       | -16.49                  | 0.07                    | 0.00                   | -2.33                 |
| 5,969.00              | 1.80            | 310.39      | 5,967.97              | -14.59       | -22.26       | -14.59                  | 0.04                    | 0.04                   | 0.46                  |
| 6,064.00              | 2.37            | 329.98      | 6,062.90              | -11.92       | -24.38       | -11.92                  | 0.95                    | 0.60                   | 20.62                 |
| 6,159.00              | 3.03            | 342.38      | 6,157.80              | -7.83        | -26.13       | -7.83                   | 0.92                    | 0.69                   | 13.05                 |
| 6,253.00              | 1.89            | 14.55       | 6,251.71              | -3.96        | -26.49       | -3.96                   | 1.86                    | -1.21                  | 34.22                 |
| 6,348.00              | 2.15            | 33.18       | 6,346.66              | -0.95        | -25.12       | -0.95                   | 0.74                    | 0.27                   | 19.61                 |
| 6,443.00              | 1.98            | 76.77       | 6,441.60              | 0.91         | -22.55       | 0.91                    | 1.62                    | -0.18                  | 45.88                 |
| 6,537.00              | 2.46            | 93.38       | 6,535.53              | 1.17         | -18.95       | 1.17                    | 0.85                    | 0.51                   | 17.67                 |
| 6,632.00              | 2.24            | 98.39       | 6,630.45              | 0.78         | -15.08       | 0.78                    | 0.32                    | -0.23                  | 5.27                  |
| 6,727.00              | 2.29            | 99.10       | 6,725.38              | 0.21         | -11.37       | 0.21                    | 0.06                    | 0.05                   | 0.75                  |
| 6,822.00              | 2.55            | 97.51       | 6,820.29              | -0.37        | -7.40        | -0.37                   | 0.28                    | 0.27                   | -1.67                 |
| 6,917.00              | 2.55            | 102.44      | 6,915.20              | -1.10        | -3.24        | -1.10                   | 0.23                    | 0.00                   | 5.19                  |
| 7,012.00              | 2.37            | 103.31      | 7,010.11              | -2.01        | 0.73         | -2.01                   | 0.19                    | -0.19                  | 0.92                  |
| 7,106.00              | 2.33            | 97.69       | 7,104.03              | -2.71        | 4.52         | -2.71                   | 0.25                    | -0.04                  | -5.98                 |
| 7,201.00              | 0.53            | 173.89      | 7,199.00              | -3.41        | 6.48         | -3.41                   | 2.38                    | -1.89                  | 80.21                 |
| 7,295.00              | 0.84            | 215.11      | 7,293.00              | -4.40        | 6.13         | -4.40                   | 0.60                    | 0.33                   | 43.85                 |
| 7,390.00              | 1.01            | 231.55      | 7,387.98              | -5.50        | 5.07         | -5.50                   | 0.33                    | 0.18                   | 17.31                 |
| 7,485.00              | 1.23            | 219.59      | 7,482.97              | -6.80        | 3.77         | -6.80                   | 0.34                    | 0.23                   | -12.59                |
| 7,580.00              | 1.10            | 223.99      | 7,577.95              | -8.24        | 2.49         | -8.24                   | 0.17                    | -0.14                  | 4.63                  |
| 7,674.00              | 0.92            | 210.45      | 7,671.93              | -9.54        | 1.48         | -9.54                   | 0.32                    | -0.19                  | -14.40                |
| 7,769.00              | 0.84            | 206.85      | 7,766.92              | -10.82       | 0.78         | -10.82                  | 0.10                    | -0.08                  | -3.79                 |
| 7,864.00              | 0.97            | 209.22      | 7,861.91              | -12.14       | 0.07         | -12.14                  | 0.14                    | 0.14                   | 2.49                  |
| 7,959.00              | 1.01            | 220.74      | 7,956.89              | -13.48       | -0.87        | -13.48                  | 0.21                    | 0.04                   | 12.13                 |
| 8,054.00              | 0.66            | 218.80      | 8,051.88              | -14.54       | -1.76        | -14.54                  | 0.37                    | -0.37                  | -2.04                 |
| 8,148.00              | 0.75            | 219.77      | 8,145.88              | -15.44       | -2.49        | -15.44                  | 0.10                    | 0.10                   | 1.03                  |
| 8,243.00              | 0.97            | 204.21      | 8,240.87              | -16.65       | -3.22        | -16.65                  | 0.34                    | 0.23                   | -16.38                |
| 8,338.00              | 1.01            | 198.59      | 8,335.85              | -18.17       | -3.82        | -18.17                  | 0.11                    | 0.04                   | -5.92                 |
| 8,433.00              | 0.79            | 185.05      | 8,430.84              | -19.62       | -4.14        | -19.62                  | 0.32                    | -0.23                  | -14.25                |
| 8,528.00              | 0.92            | 177.85      | 8,525.83              | -21.04       | -4.17        | -21.04                  | 0.18                    | 0.14                   | -7.58                 |
| 8,622.00              | 0.79            | 169.41      | 8,619.82              | -22.43       | -4.02        | -22.43                  | 0.19                    | -0.14                  | -8.98                 |
| 8,717.00              | 0.53            | 192.35      | 8,714.81              | -23.50       | -4.00        | -23.50                  | 0.39                    | -0.27                  | 24.15                 |
| 8,812.00              | 0.57            | 171.87      | 8,809.81              | -24.40       | -4.02        | -24.40                  | 0.21                    | 0.04                   | -21.56                |
| 8,906.00              | 0.57            | 300.28      | 8,903.81              | -24.62       | -4.36        | -24.62                  | 1.09                    | 0.00                   | 136.61                |
| 9,001.00              | 0.26            | 319.17      | 8,998.80              | -24.22       | -4.91        | -24.22                  | 0.35                    | -0.33                  | 19.88                 |
| 9,096.00              | 1.45            | 325.50      | 9,093.79              | -23.07       | -5.73        | -23.07                  | 1.25                    | 1.25                   | 6.66                  |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 9,191.00              | 1.41            | 311.97      | 9,188.76              | -21.30       | -7.28        | -21.30                  | 0.36                    | -0.04                  | -14.24                |
| 9,286.00              | 1.49            | 321.81      | 9,283.73              | -19.54       | -8.92        | -19.54                  | 0.27                    | 0.08                   | 10.36                 |
| 9,381.00              | 1.58            | 320.32      | 9,378.70              | -17.57       | -10.51       | -17.57                  | 0.10                    | 0.09                   | -1.57                 |
| 9,475.00              | 1.36            | 308.36      | 9,472.67              | -15.88       | -12.22       | -15.88                  | 0.40                    | -0.23                  | -12.72                |
| 9,570.00              | 1.32            | 305.64      | 9,567.64              | -14.54       | -13.99       | -14.54                  | 0.08                    | -0.04                  | -2.86                 |
| 9,665.00              | 1.27            | 310.56      | 9,662.62              | -13.22       | -15.68       | -13.22                  | 0.13                    | -0.05                  | 5.18                  |
| 9,760.00              | 1.32            | 309.07      | 9,757.59              | -11.84       | -17.33       | -11.84                  | 0.06                    | 0.05                   | -1.57                 |
| 9,854.00              | 1.32            | 308.01      | 9,851.57              | -10.49       | -19.02       | -10.49                  | 0.03                    | 0.00                   | -1.13                 |
| 9,949.00              | 1.32            | 307.92      | 9,946.54              | -9.15        | -20.75       | -9.15                   | 0.00                    | 0.00                   | -0.09                 |
| 10,044.00             | 0.53            | 85.47       | 10,041.54             | -8.44        | -21.17       | -8.44                   | 1.84                    | -0.83                  | 144.79                |
| 10,139.00             | 0.97            | 104.72      | 10,136.53             | -8.61        | -19.96       | -8.61                   | 0.53                    | 0.46                   | 20.26                 |
| 10,234.00             | 0.75            | 103.84      | 10,231.52             | -8.96        | -18.58       | -8.96                   | 0.23                    | -0.23                  | -0.93                 |
| 10,328.00             | 0.70            | 101.12      | 10,325.51             | -9.22        | -17.42       | -9.22                   | 0.06                    | -0.05                  | -2.89                 |
| 10,423.00             | 0.31            | 93.65       | 10,420.50             | -9.35        | -16.59       | -9.35                   | 0.42                    | -0.41                  | -7.86                 |
| 10,518.00             | 0.09            | 99.71       | 10,515.50             | -9.38        | -16.26       | -9.38                   | 0.23                    | -0.23                  | 6.38                  |
| 10,613.00             | 0.18            | 18.85       | 10,610.50             | -9.25        | -16.14       | -9.25                   | 0.20                    | 0.09                   | -85.12                |
| 10,707.00             | 0.35            | 355.65      | 10,704.50             | -8.82        | -16.11       | -8.82                   | 0.21                    | 0.18                   | -24.68                |
| 10,802.00             | 0.18            | 350.73      | 10,799.50             | -8.39        | -16.16       | -8.39                   | 0.18                    | -0.18                  | -5.18                 |
| 10,897.00             | 0.84            | 238.67      | 10,894.50             | -8.60        | -16.78       | -8.60                   | 0.97                    | 0.69                   | -117.96               |
| 10,992.00             | 0.66            | 235.33      | 10,989.49             | -9.27        | -17.82       | -9.27                   | 0.19                    | -0.19                  | -3.52                 |
| 11,087.00             | 0.70            | 241.30      | 11,084.48             | -9.86        | -18.78       | -9.86                   | 0.09                    | 0.04                   | 6.28                  |
| 11,182.00             | 0.75            | 243.85      | 11,179.48             | -10.42       | -19.85       | -10.42                  | 0.06                    | 0.05                   | 2.68                  |
| 11,276.00             | 1.14            | 273.38      | 11,273.46             | -10.63       | -21.33       | -10.63                  | 0.65                    | 0.41                   | 31.41                 |
| 11,333.00             | 5.32            | 327.61      | 11,330.37             | -8.37        | -23.32       | -8.37                   | 8.32                    | 7.33                   | 95.14                 |
| 11,422.00             | 4.92            | 325.50      | 11,419.01             | -1.74        | -27.69       | -1.74                   | 0.50                    | -0.45                  | -2.37                 |
| 11,516.00             | 11.69           | 329.02      | 11,511.97             | 9.76         | -34.88       | 9.76                    | 7.22                    | 7.20                   | 3.74                  |
| 11,611.00             | 19.74           | 341.76      | 11,603.37             | 33.30        | -44.88       | 33.30                   | 9.17                    | 8.47                   | 13.41                 |
| 11,706.00             | 30.99           | 347.12      | 11,689.09             | 72.51        | -55.38       | 72.51                   | 12.07                   | 11.84                  | 5.64                  |
| 11,800.00             | 42.20           | 353.45      | 11,764.46             | 127.66       | -64.41       | 127.66                  | 12.57                   | 11.93                  | 6.73                  |
| 11,895.00             | 52.44           | 356.62      | 11,828.79             | 197.14       | -70.29       | 197.14                  | 11.05                   | 10.78                  | 3.34                  |
| 11,990.00             | 64.53           | 2.33        | 11,878.38             | 277.92       | -70.77       | 277.92                  | 13.71                   | 12.73                  | 6.01                  |
| 12,047.00             | 74.51           | 5.76        | 11,898.31             | 331.11       | -66.95       | 331.11                  | 18.39                   | 17.51                  | 6.02                  |
| 12,084.00             | 79.21           | 9.80        | 11,906.72             | 366.79       | -62.07       | 366.79                  | 16.56                   | 12.70                  | 10.92                 |
| 12,179.00             | 86.86           | 9.36        | 11,918.23             | 459.70       | -46.39       | 459.70                  | 8.07                    | 8.05                   | -0.46                 |
| 12,274.00             | 86.99           | 9.18        | 11,923.33             | 553.33       | -31.11       | 553.33                  | 0.23                    | 0.14                   | -0.19                 |
| 12,368.00             | 91.82           | 4.17        | 11,924.30             | 646.63       | -20.19       | 646.63                  | 7.40                    | 5.14                   | -5.33                 |
| 12,463.00             | 92.70           | 4.44        | 11,920.56             | 741.28       | -13.06       | 741.28                  | 0.97                    | 0.93                   | 0.28                  |
| 12,558.00             | 91.87           | 359.25      | 11,916.77             | 836.13       | -10.01       | 836.13                  | 5.53                    | -0.87                  | -5.46                 |
| 12,653.00             | 92.04           | 357.06      | 11,913.53             | 931.02       | -13.07       | 931.02                  | 2.31                    | 0.18                   | -2.31                 |
| 12,747.00             | 89.71           | 357.76      | 11,912.09             | 1,024.90     | -17.31       | 1,024.90                | 2.59                    | -2.48                  | 0.74                  |
| 12,842.00             | 88.31           | 354.68      | 11,913.73             | 1,119.67     | -23.57       | 1,119.67                | 3.56                    | -1.47                  | -3.24                 |
| 12,937.00             | 90.42           | 357.14      | 11,914.79             | 1,214.41     | -30.35       | 1,214.41                | 3.41                    | 2.22                   | 2.59                  |
| 13,032.00             | 90.68           | 357.32      | 11,913.87             | 1,309.29     | -34.94       | 1,309.29                | 0.33                    | 0.27                   | 0.19                  |
| 13,127.00             | 94.73           | 354.86      | 11,909.39             | 1,403.94     | -41.40       | 1,403.94                | 4.99                    | 4.26                   | -2.59                 |





# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 13,221.00                          | 93.80           | 359.43      | 11,902.40             | 1,497.54     | -46.07       | 1,497.54                | 4.95                    | -0.99                  | 4.86                  |
| 13,316.00                          | 92.66           | 0.31        | 11,897.04             | 1,592.38     | -46.28       | 1,592.38                | 1.52                    | -1.20                  | 0.93                  |
| 13,411.00                          | 92.26           | 359.87      | 11,892.97             | 1,687.29     | -46.13       | 1,687.29                | 0.63                    | -0.42                  | -0.46                 |
| 13,506.00                          | 90.77           | 2.94        | 11,890.45             | 1,782.22     | -43.81       | 1,782.22                | 3.59                    | -1.57                  | 3.23                  |
| 13,601.00                          | 91.38           | 2.06        | 11,888.67             | 1,877.11     | -39.66       | 1,877.11                | 1.13                    | 0.64                   | -0.93                 |
| 13,695.00                          | 91.96           | 0.83        | 11,885.93             | 1,971.04     | -37.29       | 1,971.04                | 1.45                    | 0.62                   | -1.31                 |
| 13,790.00                          | 91.91           | 3.91        | 11,882.72             | 2,065.89     | -33.37       | 2,065.89                | 3.24                    | -0.05                  | 3.24                  |
| 13,834.00                          | 92.18           | 2.50        | 11,881.15             | 2,109.79     | -30.91       | 2,109.79                | 3.26                    | 0.61                   | -3.20                 |
| 13,928.00                          | 91.52           | 1.10        | 11,878.12             | 2,203.69     | -27.96       | 2,203.69                | 1.65                    | -0.70                  | -1.49                 |
| 14,023.00                          | 90.51           | 357.58      | 11,876.43             | 2,298.66     | -29.05       | 2,298.66                | 3.85                    | -1.06                  | -3.71                 |
| 14,118.00                          | 91.25           | 354.77      | 11,874.98             | 2,393.42     | -35.39       | 2,393.42                | 3.06                    | 0.78                   | -2.96                 |
| 14,213.00                          | 91.47           | 354.24      | 11,872.72             | 2,487.96     | -44.48       | 2,487.96                | 0.60                    | 0.23                   | -0.56                 |
| 14,308.00                          | 90.46           | 359.43      | 11,871.12             | 2,582.77     | -49.72       | 2,582.77                | 5.56                    | -1.06                  | 5.46                  |
| 14,402.00                          | 90.51           | 4.09        | 11,870.32             | 2,676.70     | -46.84       | 2,676.70                | 4.96                    | 0.05                   | 4.96                  |
| 14,497.00                          | 93.23           | 2.33        | 11,867.22             | 2,771.48     | -41.52       | 2,771.48                | 3.41                    | 2.86                   | -1.85                 |
| 14,592.00                          | 92.48           | 0.22        | 11,862.49             | 2,866.34     | -39.41       | 2,866.34                | 2.35                    | -0.79                  | -2.22                 |
| 14,686.00                          | 88.44           | 0.48        | 11,861.74             | 2,960.31     | -38.84       | 2,960.31                | 4.31                    | -4.30                  | 0.28                  |
| 14,781.00                          | 88.40           | 5.58        | 11,864.36             | 3,055.11     | -33.82       | 3,055.11                | 5.37                    | -0.04                  | 5.37                  |
| 14,876.00                          | 88.35           | 9.18        | 11,867.05             | 3,149.27     | -21.62       | 3,149.27                | 3.79                    | -0.05                  | 3.79                  |
| 14,970.00                          | 88.70           | 7.51        | 11,869.47             | 3,242.24     | -7.99        | 3,242.24                | 1.81                    | 0.37                   | -1.78                 |
| 15,065.00                          | 88.40           | 7.07        | 11,871.88             | 3,336.44     | 4.07         | 3,336.44                | 0.56                    | -0.32                  | -0.46                 |
| 15,160.00                          | 90.29           | 5.49        | 11,872.96             | 3,430.86     | 14.46        | 3,430.86                | 2.59                    | 1.99                   | -1.66                 |
| 15,255.00                          | 91.12           | 359.87      | 11,871.79             | 3,525.71     | 18.90        | 3,525.71                | 5.98                    | 0.87                   | -5.92                 |
| 15,350.00                          | 88.18           | 357.93      | 11,872.37             | 3,620.67     | 17.07        | 3,620.67                | 3.71                    | -3.09                  | -2.04                 |
| 15,445.00                          | 89.10           | 356.97      | 11,874.63             | 3,715.55     | 12.85        | 3,715.55                | 1.40                    | 0.97                   | -1.01                 |
| 15,539.00                          | 88.62           | 1.89        | 11,876.50             | 3,809.50     | 11.91        | 3,809.50                | 5.26                    | -0.51                  | 5.23                  |
| 15,634.00                          | 89.10           | 6.72        | 11,878.39             | 3,904.18     | 19.04        | 3,904.18                | 5.11                    | 0.51                   | 5.08                  |
| 15,729.00                          | 93.49           | 2.06        | 11,876.24             | 3,998.83     | 26.31        | 3,998.83                | 6.74                    | 4.62                   | -4.91                 |
| 15,824.00                          | 91.34           | 357.23      | 11,872.24             | 4,093.71     | 25.72        | 4,093.71                | 5.56                    | -2.26                  | -5.08                 |
| <b>Tie-in to OH - 15824.00' MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 15,894.00                          | 88.79           | 356.35      | 11,872.16             | 4,163.60     | 21.80        | 4,163.60                | 3.85                    | -3.64                  | -1.26                 |
| 15,925.00                          | 86.81           | 359.16      | 11,873.35             | 4,194.54     | 20.59        | 4,194.54                | 11.08                   | -6.39                  | 9.06                  |
| 15,955.00                          | 87.65           | 0.66        | 11,874.80             | 4,224.51     | 20.54        | 4,224.51                | 5.73                    | 2.80                   | 5.00                  |
| 15,990.00                          | 88.22           | 0.22        | 11,876.06             | 4,259.48     | 20.81        | 4,259.48                | 2.06                    | 1.63                   | -1.26                 |
| 16,035.00                          | 88.22           | 1.54        | 11,877.46             | 4,304.46     | 21.50        | 4,304.46                | 2.93                    | 0.00                   | 2.93                  |
| 16,085.00                          | 88.04           | 1.01        | 11,879.09             | 4,354.42     | 22.61        | 4,354.42                | 1.12                    | -0.36                  | -1.06                 |
| 16,130.00                          | 87.34           | 0.83        | 11,880.90             | 4,399.37     | 23.33        | 4,399.37                | 1.61                    | -1.56                  | -0.40                 |
| 16,180.00                          | 87.60           | 1.36        | 11,883.11             | 4,449.32     | 24.29        | 4,449.32                | 1.18                    | 0.52                   | 1.06                  |
| 16,225.00                          | 87.60           | 0.83        | 11,884.99             | 4,494.27     | 25.15        | 4,494.27                | 1.18                    | 0.00                   | -1.18                 |
| 16,274.00                          | 87.03           | 1.01        | 11,887.29             | 4,543.21     | 25.93        | 4,543.21                | 1.22                    | -1.16                  | 0.37                  |
| 16,369.00                          | 89.76           | 0.04        | 11,889.95             | 4,638.16     | 26.80        | 4,638.16                | 3.05                    | 2.87                   | -1.02                 |
| 16,464.00                          | 91.12           | 2.06        | 11,889.22             | 4,733.13     | 28.54        | 4,733.13                | 2.56                    | 1.43                   | 2.13                  |
| 16,559.00                          | 92.53           | 0.22        | 11,886.19             | 4,828.06     | 30.43        | 4,828.06                | 2.44                    | 1.48                   | -1.94                 |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |
| 16,661.00             | 92.44           | 0.13        | 11,881.77             | 4,929.96     | 30.74        | 4,929.96                | 0.12                    | -0.09                  | -0.09                 |
| 16,756.00             | 89.63           | 357.23      | 11,880.06             | 5,024.90     | 28.55        | 5,024.90                | 4.25                    | -2.96                  | -3.05                 |
| 16,851.00             | 90.64           | 359.43      | 11,879.83             | 5,119.85     | 25.78        | 5,119.85                | 2.55                    | 1.06                   | 2.32                  |
| 16,946.00             | 90.55           | 356.00      | 11,878.85             | 5,214.76     | 22.00        | 5,214.76                | 3.61                    | -0.09                  | -3.61                 |
| 17,041.00             | 91.56           | 355.03      | 11,877.10             | 5,309.45     | 14.57        | 5,309.45                | 1.47                    | 1.06                   | -1.02                 |
| 17,136.00             | 89.63           | 358.29      | 11,876.11             | 5,404.26     | 9.04         | 5,404.26                | 3.99                    | -2.03                  | 3.43                  |
| 17,231.00             | 87.52           | 357.41      | 11,878.47             | 5,499.16     | 5.48         | 5,499.16                | 2.41                    | -2.22                  | -0.93                 |
| 17,325.00             | 88.48           | 359.16      | 11,881.75             | 5,593.06     | 2.66         | 5,593.06                | 2.12                    | 1.02                   | 1.86                  |
| 17,420.00             | 91.78           | 2.94        | 11,881.54             | 5,688.01     | 4.40         | 5,688.01                | 5.28                    | 3.47                   | 3.98                  |
| 17,515.00             | 92.79           | 4.44        | 11,877.75             | 5,782.74     | 10.51        | 5,782.74                | 1.90                    | 1.06                   | 1.58                  |
| 17,610.00             | 88.22           | 359.52      | 11,876.91             | 5,877.62     | 13.79        | 5,877.62                | 7.07                    | -4.81                  | -5.18                 |
| 17,705.00             | 87.47           | 358.55      | 11,880.48             | 5,972.54     | 12.19        | 5,972.54                | 1.29                    | -0.79                  | -1.02                 |
| 17,806.00             | 87.80           | 358.29      | 11,884.65             | 6,073.41     | 9.41         | 6,073.41                | 0.42                    | 0.33                   | -0.26                 |
| 17,901.00             | 87.03           | 359.16      | 11,888.94             | 6,168.29     | 7.30         | 6,168.29                | 1.22                    | -0.81                  | 0.92                  |
| 17,996.00             | 89.23           | 1.27        | 11,892.04             | 6,263.23     | 7.66         | 6,263.23                | 3.21                    | 2.32                   | 2.22                  |
| 18,091.00             | 87.96           | 0.83        | 11,894.37             | 6,358.18     | 9.40         | 6,358.18                | 1.41                    | -1.34                  | -0.46                 |
| 18,185.00             | 88.26           | 0.13        | 11,897.47             | 6,452.13     | 10.18        | 6,452.13                | 0.81                    | 0.32                   | -0.74                 |
| 18,280.00             | 88.79           | 1.19        | 11,899.91             | 6,547.09     | 11.28        | 6,547.09                | 1.25                    | 0.56                   | 1.12                  |
| 18,375.00             | 90.59           | 1.80        | 11,900.43             | 6,642.05     | 13.76        | 6,642.05                | 2.00                    | 1.89                   | 0.64                  |
| 18,469.00             | 92.35           | 4.70        | 11,898.01             | 6,735.85     | 19.08        | 6,735.85                | 3.61                    | 1.87                   | 3.09                  |
| 18,564.00             | 91.38           | 4.00        | 11,894.92             | 6,830.53     | 26.28        | 6,830.53                | 1.26                    | -1.02                  | -0.74                 |
| 18,659.00             | 88.44           | 0.22        | 11,895.07             | 6,925.44     | 29.78        | 6,925.44                | 5.04                    | -3.09                  | -3.98                 |
| 18,754.00             | 89.36           | 2.06        | 11,896.90             | 7,020.40     | 31.67        | 7,020.40                | 2.17                    | 0.97                   | 1.94                  |
| 18,849.00             | 90.37           | 3.73        | 11,897.12             | 7,115.27     | 36.47        | 7,115.27                | 2.05                    | 1.06                   | 1.76                  |
| 18,943.00             | 89.89           | 2.86        | 11,896.91             | 7,209.11     | 41.87        | 7,209.11                | 1.06                    | -0.51                  | -0.93                 |
| 19,038.00             | 90.07           | 3.56        | 11,896.94             | 7,303.96     | 47.19        | 7,303.96                | 0.76                    | 0.19                   | 0.74                  |
| 19,133.00             | 89.19           | 2.50        | 11,897.55             | 7,398.83     | 52.21        | 7,398.83                | 1.45                    | -0.93                  | -1.12                 |
| 19,228.00             | 90.11           | 7.34        | 11,898.13             | 7,493.44     | 60.36        | 7,493.44                | 5.19                    | 0.97                   | 5.09                  |
| 19,322.00             | 90.07           | 8.22        | 11,897.99             | 7,586.58     | 73.08        | 7,586.58                | 0.94                    | -0.04                  | 0.94                  |
| 19,420.00             | 92.66           | 7.51        | 11,895.65             | 7,683.62     | 86.49        | 7,683.62                | 2.74                    | 2.64                   | -0.72                 |
| 19,515.00             | 92.84           | 6.55        | 11,891.09             | 7,777.80     | 98.10        | 7,777.80                | 1.03                    | 0.19                   | -1.01                 |
| 19,609.00             | 92.00           | 6.28        | 11,887.12             | 7,871.12     | 108.59       | 7,871.12                | 0.94                    | -0.89                  | -0.29                 |
| 19,704.00             | 89.36           | 3.12        | 11,886.00             | 7,965.78     | 116.37       | 7,965.78                | 4.33                    | -2.78                  | -3.33                 |
| 19,799.00             | 90.81           | 3.12        | 11,885.86             | 8,060.63     | 121.55       | 8,060.63                | 1.53                    | 1.53                   | 0.00                  |
| 19,894.00             | 88.70           | 1.71        | 11,886.26             | 8,155.54     | 125.55       | 8,155.54                | 2.67                    | -2.22                  | -1.48                 |
| 19,989.00             | 90.90           | 2.59        | 11,886.59             | 8,250.47     | 129.11       | 8,250.47                | 2.49                    | 2.32                   | 0.93                  |
| 20,084.00             | 88.53           | 2.50        | 11,887.07             | 8,345.36     | 133.33       | 8,345.36                | 2.50                    | -2.49                  | -0.09                 |
| 20,179.00             | 89.45           | 1.80        | 11,888.74             | 8,440.28     | 136.89       | 8,440.28                | 1.22                    | 0.97                   | -0.74                 |
| 20,273.00             | 88.79           | 359.34      | 11,890.18             | 8,534.26     | 137.83       | 8,534.26                | 2.71                    | -0.70                  | -2.62                 |
| 20,368.00             | 89.67           | 359.16      | 11,891.46             | 8,629.24     | 136.58       | 8,629.24                | 0.95                    | 0.93                   | -0.19                 |
| 20,462.00             | 93.05           | 0.04        | 11,889.23             | 8,723.20     | 135.93       | 8,723.20                | 3.72                    | 3.60                   | 0.94                  |
| 20,557.00             | 90.77           | 2.33        | 11,886.06             | 8,818.11     | 137.89       | 8,818.11                | 3.40                    | -2.40                  | 2.41                  |
| 20,651.00             | 91.16           | 3.82        | 11,884.48             | 8,911.96     | 142.93       | 8,911.96                | 1.64                    | 0.41                   | 1.59                  |



# Stryker Directional Survey Report



|                  |                         |                                     |                                   |
|------------------|-------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Manzano                 | <b>Local Co-ordinate Reference:</b> | Well Danjer 22 10 State 4H        |
| <b>Project:</b>  | Lea County, NM (NAD 83) | <b>TVD Reference:</b>               | RKB @ 4187.00usft (Scan Producer) |
| <b>Site:</b>     | Danjer 22 10            | <b>MD Reference:</b>                | RKB @ 4187.00usft (Scan Producer) |
| <b>Well:</b>     | Danjer 22 10 State 4H   | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #2             | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                 | <b>Database:</b>                    | EDM 5000 Server                   |

| 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) |  |
| 20,746.00                              | 92.97           | 4.17        | 11,881.06             | 9,006.66     | 149.55       | 9,006.66                | 1.94                    | 1.91                   | 0.37                  |  |
| 20,841.00                              | 92.31           | 5.32        | 11,876.68             | 9,101.23     | 157.40       | 9,101.23                | 1.39                    | -0.69                  | 1.21                  |  |
| 20,936.00                              | 87.52           | 4.00        | 11,876.82             | 9,195.89     | 165.11       | 9,195.89                | 5.23                    | -5.04                  | -1.39                 |  |
| 21,031.00                              | 90.46           | 4.17        | 11,878.50             | 9,290.62     | 171.88       | 9,290.62                | 3.10                    | 3.09                   | 0.18                  |  |
| 21,126.00                              | 92.62           | 3.73        | 11,875.94             | 9,385.36     | 178.42       | 9,385.36                | 2.32                    | 2.27                   | -0.46                 |  |
| 21,220.00                              | 89.76           | 3.38        | 11,873.99             | 9,479.15     | 184.25       | 9,479.15                | 3.07                    | -3.04                  | -0.37                 |  |
| 21,315.00                              | 89.36           | 2.33        | 11,874.72             | 9,574.03     | 188.98       | 9,574.03                | 1.18                    | -0.42                  | -1.11                 |  |
| 21,409.00                              | 91.56           | 3.12        | 11,873.97             | 9,667.91     | 193.45       | 9,667.91                | 2.49                    | 2.34                   | 0.84                  |  |
| 21,504.00                              | 87.96           | 357.06      | 11,874.37             | 9,762.85     | 193.60       | 9,762.85                | 7.42                    | -3.79                  | -6.38                 |  |
| 21,599.00                              | 92.53           | 3.91        | 11,873.96             | 9,857.76     | 194.40       | 9,857.76                | 8.67                    | 4.81                   | 7.21                  |  |
| 21,694.00                              | 93.58           | 3.21        | 11,868.90             | 9,952.44     | 200.29       | 9,952.44                | 1.33                    | 1.11                   | -0.74                 |  |
| 21,750.00                              | 92.22           | 2.94        | 11,866.06             | 10,008.29    | 203.29       | 10,008.29               | 2.48                    | -2.43                  | -0.48                 |  |
| 21,795.00                              | 92.22           | 2.94        | 11,864.32             | 10,053.20    | 205.60       | 10,053.20               | 0.00                    | 0.00                   | 0.00                  |  |
| Projection to TD [ST01] - 21795.00' MD |                 |             |                       |              |              |                         |                         |                        |                       |  |

| Design Annotations    |                       |                   |              |                                        |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                        |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                                |  |
| 15,824.00             | 11,872.24             | 4,093.71          | 25.72        | Tie-in to OH - 15824.00' MD            |  |
| 21,795.00             | 11,864.32             | 10,053.20         | 205.60       | Projection to TD [ST01] - 21795.00' MD |  |

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

Intent ☐ As Drilled ☐

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

## Kick Off Point (KOP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## First Take Point (FTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## Last Take Point (LTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

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 #          |                |             |
| Operator Name: | Property Name: | Well Number |

KZ 06/29/2018



Submit 1 Copy To Appropriate District Office

District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-103  
Revised July 18, 2013

|                                                                                                                                                                                                                                                |  |                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)                                  |  | WELL API NO.<br>30-025-51684                                                                        |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                                                 |  | 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 2. Name of Operator<br>MANZANO, LLC                                                                                                                                                                                                            |  | 6. State Oil & Gas Lease No.<br>BO 2229-0001 & BO 2148-0003                                         |
| 3. Address of Operator<br>P.O. BOX 1737 – ROSWELL, NM 88202                                                                                                                                                                                    |  | 7. Lease Name or Unit Agreement Name<br>DANJER 22 10 STATE COM                                      |
| 4. Well Location<br>Unit Letter <u>  L  </u> : <u>  2000  </u> feet from the <u>  SOUTH  </u> line and <u>  660  </u> feet from the <u>  WEST  </u> line<br>Section <u>  22  </u> Township <u>  17S  </u> Range <u>  33E  </u> NMPM LEA County |  | 8. Well Number 4H                                                                                   |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>4160' GR                                                                                                                                                                                 |  | 9. OGRID Number 231429                                                                              |
|                                                                                                                                                                                                                                                |  | 10. Pool name or Wildcat<br>SANMAL;PENN                                                             |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: COMPLETION ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/24-11/6/23 FRAC CANYON SHALE FROM 12150'-21734' IN 50 STAGES WITH 16,609,469#\*S 100 MESH + 4,279,260#\*S  
 40/70 IN BASIN SAND + 490,739 BARRELS OF SLICK WATER + 1258 BARRELS OF 10% ACID  
 11/13-15/23 DRILLOUT PLUGS & CLEAN OUT LATERAL  
 11/16/23 START FLOWING BACK WELL TO FRAC TANKS. SWITCH INTO TEST SEPARATOR ON 11/21/23  
 11/28/23 SWITCH WELL INTO TANK BATTERY

Spud Date:

7/9/23

Rig Release Date:

9/1/23

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Hanagan TITLE MANAGER DATE 11/27/23

Type or print name Mike Hanagan E-mail address: mike@manzanoenergy.com PHONE: 575-623-1996 ext 310

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

Page 21 of 25  
Received by OGD: 11/28/2023 2:40:08 PM  
Released by Imaging: 6/26/2024 11:55:32 AM

Submit To Appropriate District Office  
Two Copies  
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 and Natural Resources

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

Form C-105  
Revised April 3, 2017

1. WELL API NO.  
30-015-51684
2. Type of Lease  
☒ STATE ☐ FEE ☐ FED/INDIAN
3. State Oil & Gas Lease No.  
BO-2229-0001 & BO-2148-0003

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                 |                                       |       |                                                   |                                                                |          |                                                              |                                                   |        |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|---------------------------------------|-------|---------------------------------------------------|----------------------------------------------------------------|----------|--------------------------------------------------------------|---------------------------------------------------|--------|--|
| 4. Reason for filing:<br><input checked="" type="checkbox"/> <b>COMPLETION REPORT</b> (Fill in boxes #1 through #31 for State and Fee wells only)<br><br><input type="checkbox"/> <b>C-144 CLOSURE ATTACHMENT</b> (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC) |                                  |                                 |                                       |       |                                                   | 5. Lease Name or Unit Agreement Name<br>DANJER 22 10 STATE COM |          |                                                              |                                                   |        |  |
| 7. Type of Completion:<br><input checked="" type="checkbox"/> NEW WELL <input type="checkbox"/> WORKOVER <input type="checkbox"/> DEEPENING <input type="checkbox"/> PLUGBACK <input type="checkbox"/> DIFFERENT RESERVOIR <input type="checkbox"/> OTHER                                                                                                                             |                                  |                                 |                                       |       |                                                   |                                                                |          |                                                              |                                                   |        |  |
| 8. Name of Operator<br>MANZANO, LLC                                                                                                                                                                                                                                                                                                                                                   |                                  |                                 |                                       |       |                                                   | 9. OGRID<br>231429                                             |          |                                                              |                                                   |        |  |
| 10. Address of Operator<br>P.O. BOX 1737 - ROSWELL, NM 88202-1737                                                                                                                                                                                                                                                                                                                     |                                  |                                 |                                       |       |                                                   | 11. Pool name or Wildcat<br>SANMAL;PENN                        |          |                                                              |                                                   |        |  |
| 12. Location                                                                                                                                                                                                                                                                                                                                                                          | Unit Ltr                         | Section                         | Township                              | Range | Lot                                               | Feet from the                                                  | N/S Line | Feet from the                                                | E/W Line                                          | County |  |
| Surface:                                                                                                                                                                                                                                                                                                                                                                              | L                                | 22                              | 17S                                   | 33E   |                                                   | 2000                                                           | S        | 660                                                          | W                                                 | LEA    |  |
| BH:                                                                                                                                                                                                                                                                                                                                                                                   | L                                | 10                              | 17S                                   | 33E   |                                                   | 1493                                                           | S        | 866                                                          | W                                                 | LEA    |  |
| 13. Date Spudded<br>7/9/23                                                                                                                                                                                                                                                                                                                                                            | 14. Date T.D. Reached<br>8/26/23 | 15. Date Rig Released<br>9/1/23 |                                       |       | 16. Date Completed (Ready to Produce)<br>11/17/23 |                                                                |          | 17. Elevations (DF and RKB, RT, GR, etc.) 4160'GL & 4187'RKB |                                                   |        |  |
| 18. Total Measured Depth of Well<br>21795                                                                                                                                                                                                                                                                                                                                             |                                  |                                 | 19. Plug Back Measured Depth<br>21740 |       |                                                   | 20. Was Directional Survey Made?<br>YES                        |          |                                                              | 21. Type Electric and Other Logs Run<br>GAMMA RAY |        |  |
| 22. Producing Interval(s), of this completion - Top, Bottom, Name<br>12150, 21734 CANYON SHALE                                                                                                                                                                                                                                                                                        |                                  |                                 |                                       |       |                                                   |                                                                |          |                                                              |                                                   |        |  |

CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB/FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|---------------|-----------|-----------|------------------|---------------|
| 9.625       | 40.0          | 1495      | 12.25     | 1050             | 0             |
| 7.625       | 29.7          | 11290     | 8.75      | 1900             | 0             |
| 5.5         | 20.0          | 21795     | 8.75      | 1700             | 0             |
|             |               |           |           |                  |               |
|             |               |           |           |                  |               |

|                                                                                         |     |        |              |        |                                                 |           |            |
|-----------------------------------------------------------------------------------------|-----|--------|--------------|--------|-------------------------------------------------|-----------|------------|
| 24. LINER RECORD                                                                        |     |        |              |        | 25. TUBING RECORD                               |           |            |
| SIZE                                                                                    | TOP | BOTTOM | SACKS CEMENT | SCREEN | SIZE                                            | DEPTH SET | PACKER SET |
|                                                                                         |     |        |              |        |                                                 |           |            |
|                                                                                         |     |        |              |        |                                                 |           |            |
| 26. Perforation record (interval, size, and number)<br>12150'-21734', 0.42", 1800 HOLES |     |        |              |        | 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. |           |            |
|                                                                                         |     |        |              |        | DEPTH INTERVAL                                  |           |            |
|                                                                                         |     |        |              |        | AMOUNT AND KIND MATERIAL USED                   |           |            |
|                                                                                         |     |        |              |        | 12150'-21734'                                   |           |            |
|                                                                                         |     |        |              |        | 20,888,729#'s SAND + 490,739bbl SW              |           |            |
|                                                                                         |     |        |              |        | + 1258BBL 10% ACID                              |           |            |
|                                                                                         |     |        |              |        |                                                 |           |            |

PRODUCTION

|                                                                    |                         |                                                                                |                           |                  |                      |                                             |                          |
|--------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------|---------------------------|------------------|----------------------|---------------------------------------------|--------------------------|
| 28. Date First Production<br>11/17/23                              |                         | Production Method (Flowing, gas lift, pumping - Size and type pump)<br>FLOWING |                           |                  |                      | Well Status (Prod. or Shut-in)<br>PRODUCING |                          |
| Date of Test<br>11/28/23                                           | Hours Tested<br>24      | Choke Size<br>16/64"                                                           | Prod'n For<br>Test Period | Oil - Bbl<br>339 | Gas - MCF<br>325     | Water - Bbl.<br>2252                        | Gas - Oil Ratio<br>958:1 |
| Flow Tubing<br>Press.                                              | Casing Pressure<br>2560 | Calculated 24-<br>Hour Rate                                                    | Oil - Bbl.<br>339         | Gas - MCF<br>325 | Water - Bbl.<br>2252 | Oil Gravity - API - (Corr.)<br>43           |                          |
| 29. Disposition of Gas (Sold, used for fuel, vented, etc.)<br>SOLD |                         |                                                                                |                           |                  |                      | 30. Test Witnessed By                       |                          |

31. List Attachments  
DIRECTIONAL SURVEY, GAMMA RAY LOG, C-104, C-103, C102 "AS DRILLED", ADDITIONAL POINTS

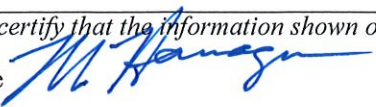
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. Rig Release Date:

34. If an on-site burial was used at the well, report the exact location of the on-site burial:

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Latitude Longitude NAD83

Signature  Printed Name Mike Hanagan Title MANAGER Date 11/28/23

E-mail Address m.ke@manzanoenergy.com



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Received by OCD: 11/28/2023 2:40:08 PM  
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico |                  | Northwestern New Mexico |                  |
|-------------------------|------------------|-------------------------|------------------|
| T. Anhy 1440            | T. Canyon 11000  | T. Ojo Alamo            | T. Penn A"       |
| T. Salt 1555            | T. Strawn        | T. Kirtland             | T. Penn. "B"     |
| B. Salt 2700            | T. Atoka         | T. Fruitland            | T. Penn. "C"     |
| T. Yates 2810           | T. Miss          | T. Pictured Cliffs      | T. Penn. "D"     |
| T. 7 Rivers 3150        | T. Devonian      | T. Cliff House          | T. Leadville     |
| T. Queen 3765           | T. Silurian      | T. Menefee              | T. Madison       |
| T. Grayburg             | T. Montoya       | T. Point Lookout        | T. Elbert        |
| T. San Andres 4540      | T. Simpson       | T. Mancos               | T. McCracken     |
| T. Glorieta 6020        | T. McKee         | T. Gallup               | T. Ignacio Otzte |
| T. Paddock 6120         | T. Ellenburger   | Base Greenhorn          | T. Granite       |
| T. Blinebry             | T. Gr. Wash      | T. Dakota               |                  |
| T. Tubb 7535            | T. Delaware Sand | T. Morrison             |                  |
| T. Drinkard             | T. Bone Springs  | T. Todilto              |                  |
| T. Abo 8250             | T.               | T. Entrada              |                  |
| T. Wolfcamp             | T.               | T. Wingate              |                  |
| T. Penn                 | T.               | T. Chinle               |                  |
| T. Cisco (Bough C)      | T.               | T. Permian              |                  |

OIL OR GAS  
SANDS OR ZONES

No. 1, from.....to.....  
No. 2, from.....to.....  
No. 3, from.....to.....  
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....  
No. 2, from.....to.....feet.....  
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness<br>In Feet | Lithology | From | To | Thickness<br>In Feet | Lithology |
|------|----|----------------------|-----------|------|----|----------------------|-----------|
|      |    |                      |           |      |    |                      |           |

Submit 1 Copy To Appropriate District Office  
 District I – (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II – (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III – (505) 334-6178  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

Form C-103  
 Revised July 18, 2013

|                                                                                                                                                                                                                |  |                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| SUNDRY NOTICES AND REPORTS ON WELLS<br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)         |  | WELL API NO.<br>30-025-51684                                                                        |
| 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>                                                                                 |  | 5. Indicate Type of Lease<br>STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 2. Name of Operator<br>MANZANO, LLC                                                                                                                                                                            |  | 6. State Oil & Gas Lease No.<br>BO 2229-0001 & BO 2148-0003                                         |
| 3. Address of Operator<br>P.O. BOX 1737 – ROSWELL, NM 88202                                                                                                                                                    |  | 7. Lease Name or Unit Agreement Name<br>DANJER 22 10 STATE COM                                      |
| 4. Well Location<br>Unit Letter <u>L</u> : <u>2000</u> feet from the <u>SOUTH</u> line and <u>660</u> feet from the <u>WEST</u> line<br>Section <u>22</u> Township <u>17S</u> Range <u>33E</u> NMPM LEA County |  | 8. Well Number <u>4H</u>                                                                            |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>4160' GR                                                                                                                                                 |  | 9. OGRID Number <u>231429</u>                                                                       |
|                                                                                                                                                                                                                |  | 10. Pool name or Wildcat<br>SANMAL;PENN                                                             |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐  
 OTHER: CASING & CEMENT ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

7/9/23 Spud in drilling 12.25" hole @ 9:30pm (Notify Laura @ NMOCED of spud & surface job @ 4:30pm on 7/6/23)  
 7/10/23 TD 12.25" Surface Hole @ 2:30pm @ 1495'. Run 9.625" 40#/ft J55 BTC casing to 1495' & cement w/1050sx Cement. Plug down @ 6:00am on 7/11/23. Circulated 620sx to surface. NU BOPE & test to 250# Lo/5000# Hi  
 7/12/23 Drill out @ 6:00am in 8.75" hole & drill ahead to 11425'  
 7/18/23 TD 8.75" hole @ 1:00am @ 11425'. Ran 7.625" 29.7#/ft HCP110 BTC casing to 11290'. Cement w/1900sx. Circulated cement to surface with braidenhead squeeze @ 9:30pm on 7/19/23. NU BOP & test to 5000#  
 7/20/23 Drill out 40' of cement with 6.75" bit & spot 110sk Class H cement plug f/10952-11452'. Drill out new formation in 6.75" hole @ 2:0am on 7/22/23. Drill to KOP @ 11455'. Build 6.75" curve f/11455'-12275' & drill lateral to 21795'MD/11865'TVD  
 8/26/23 TD well @ 21795'MD/11865'TVD. Run 5.5" HCP110 20#/ft GBCD casing to 21795' & cement w/500sx lead (12.5#/2.06 cf/sk) + 1200sx (13.2#/gl/1.93). Plug Down @ 11:00pm on 8/30/23  
 8/31/23. Pressure test casing to 5350# for 30" then Burst plugw/6500#. Circulate 602sx to surface. Release Rig @ 6:00a on 9/1/23

Spud Date: 7/9/23

Rig Release Date: 9/1/23

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Hanagan TITLE MANAGER DATE 11/27/23

Type or print name Mike Hanagan E-mail address: mike@manzanoenergy.com PHONE: 575-623-1996 ext 310

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any): \_\_\_\_\_



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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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 289132

ACKNOWLEDGMENTS

|                                                                |                                                    |
|----------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>MANZANO LLC<br>P.O. Box 1737<br>Roswell, NM 88202 | OGRID:<br>231429                                   |
|                                                                | Action Number:<br>289132                           |
|                                                                | 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**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
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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 289132

CONDITIONS

|                                                                |                                                    |
|----------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>MANZANO LLC<br>P.O. Box 1737<br>Roswell, NM 88202 | OGRID:<br>231429                                   |
|                                                                | Action Number:<br>289132                           |
|                                                                | Action Type:<br>[C-104] Completion Packet (C-104C) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| plmartinez | None      | 6/26/2024      |