

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

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

**RECEIVED**

☒ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT AS-DRILLED PLAT**

|                                          |                                                           |                                                 |
|------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|
| <sup>1</sup> API Number<br>30-015- 44892 | <sup>2</sup> Pool Code<br>98220                           | <sup>3</sup> Pool Name<br>Purple Sage; Wolfcamp |
| <sup>4</sup> Property Code<br>325593     | <sup>5</sup> Property Name<br>POKER LAKE UNIT 18 BD       |                                                 |
| <sup>7</sup> OGRID No.<br>373075         | <sup>8</sup> Operator Name<br>XTO PERMIAN OPERATING, LLC. |                                                 |
|                                          |                                                           | <sup>6</sup> Well Number<br>104H                |
|                                          |                                                           | <sup>9</sup> Elevation<br>3,169'                |

**<sup>10</sup> Surface Location**

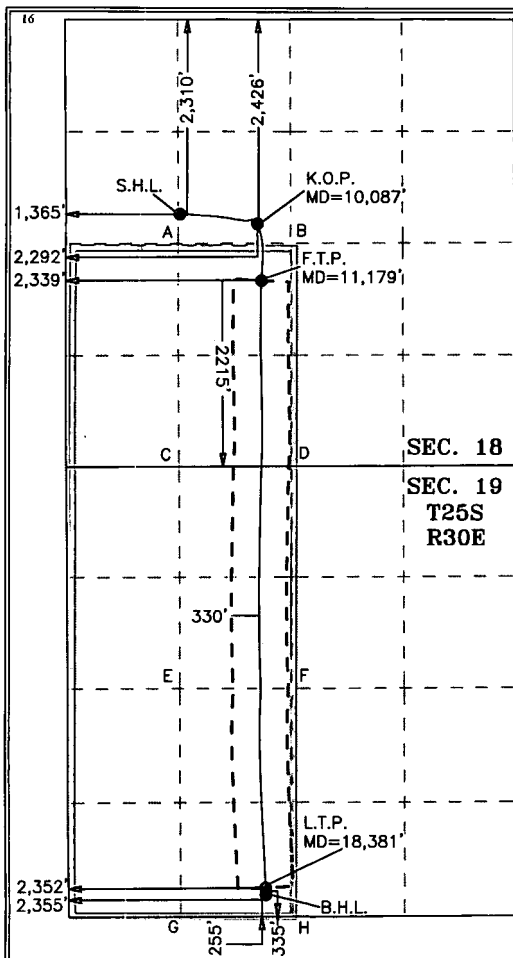
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| F             | 18      | 25 S     | 30 E  |         | 2,310         | NORTH            | 1,365         | WEST           | EDDY   |

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

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 19      | 25 S     | 30 E  |         | 255           | SOUTH            | 2,355         | WEST           | EDDY   |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>482.62 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.  
NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY



|                                                                                                                                           |                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GEODETIC COORDINATES</b><br>NAD 83 NME<br>SURFACE LOCATION<br>Y= 411,667.9<br>X= 667,736.8<br>LAT.= 32.131095°N<br>LONG.= 103.924997°W | <b>GEODETIC COORDINATES</b><br>NAD 27 NME<br>SURFACE LOCATION<br>Y= 411,609.6<br>X= 626,552.2<br>LAT.= 32.130971°N<br>LONG.= 103.924513°W |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                              |                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>K.O.P.</b><br>NAD 83 NME<br>Y= 411,555.5<br>X= 668,663.8<br>LAT.= 32.130777°N<br>LONG.= 103.922004°W<br><b>FIRST TAKE POINT</b><br>NAD 83 NME<br>Y= 410,879.7<br>X= 668,715.1<br>LAT.= 32.128918°N<br>LONG.= 103.921847°W | <b>K.O.P.</b><br>NAD 27 NME<br>Y= 411,497.2<br>X= 627,479.2<br>LAT.= 32.130653°N<br>LONG.= 103.921520°W<br><b>FIRST TAKE POINT</b><br>NAD 27 NME<br>Y= 410,821.4<br>X= 627,530.4<br>LAT.= 32.128794°N<br>LONG.= 103.921362°W |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**CORNER COORDINATES TABLE**  
NAD 27 NME

|                                    |                                    |
|------------------------------------|------------------------------------|
| A - Y= 411,260.5 N, X= 626,533.3 E | B - Y= 411,266.7 N, X= 627,877.5 E |
| C - Y= 408,601.2 N, X= 626,548.3 E | D - Y= 408,608.3 N, X= 627,892.5 E |
| E - Y= 405,943.0 N, X= 626,563.0 E | F - Y= 405,951.0 N, X= 627,904.5 E |
| G - Y= 403,285.0 N, X= 626,577.4 E | H - Y= 403,292.6 N, X= 627,916.6 E |

**CORNER COORDINATES TABLE**  
NAD 83 NME

|                                    |                                    |
|------------------------------------|------------------------------------|
| A - Y= 411,318.8 N, X= 667,717.9 E | B - Y= 411,325.0 N, X= 669,062.2 E |
| C - Y= 408,659.4 N, X= 667,733.0 E | D - Y= 408,666.5 N, X= 669,077.2 E |
| E - Y= 406,001.2 N, X= 667,747.8 E | F - Y= 406,009.2 N, X= 669,089.3 E |
| G - Y= 403,343.1 N, X= 667,762.3 E | H - Y= 403,350.7 N, X= 669,101.5 E |

|                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LAST TAKE POINT</b><br>NAD 83 NME<br>Y= 403,683.7<br>X= 668,772.8<br>LAT.= 32.109137°N<br>LONG.= 103.921749°W<br><b>BOTTOM HOLE LOCATION</b><br>NAD 83 NME<br>Y= 403,603.8<br>X= 668,776.4<br>LAT.= 32.108917°N<br>LONG.= 103.921739°W | <b>LAST TAKE POINT</b><br>NAD 27 NME<br>Y= 403,625.6<br>X= 627,587.9<br>LAT.= 32.109013°N<br>LONG.= 103.921266°W<br><b>BOTTOM HOLE LOCATION</b><br>NAD 27 NME<br>Y= 403,545.7<br>X= 627,591.5<br>LAT.= 32.108793°N<br>LONG.= 103.921255°W |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**<sup>17</sup> OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

9/6/19

Signature: Cheryl Rowell Date

Printed Name  
Cheryl Rowell

Printed Name  
cheryl\_rowell@xtoenergy.com

E-mail Address

**<sup>18</sup> SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

9-6-2019

Date of Survey

Signature and Seal of  
Professional Surveyor:

MARK DILLON HARP 23786  
Certificate Number



RR 2017050630

1/AB

Intent ☐ As Drilled ☒ XX

SEP 12 2019

API #  
30-015-44892

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|                           |                       |             |
|---------------------------|-----------------------|-------------|
| Operator Name:            | Property Name:        | Well Number |
| XTO Permian Operating LLC | Poker Lake Unit 18 BD | 104H        |

Kick Off Point (KOP)

|                       |               |                 |              |     |                         |                   |              |                  |                |
|-----------------------|---------------|-----------------|--------------|-----|-------------------------|-------------------|--------------|------------------|----------------|
| UL<br>F               | Section<br>18 | Township<br>25S | Range<br>30E | Lot | Feet<br>2426            | From N/S<br>North | Feet<br>1365 | From E/W<br>West | County<br>Eddy |
| Latitude<br>32.130777 |               |                 |              |     | Longitude<br>103.922004 |                   |              | NAD<br>83        |                |

First Take Point (FTP)

|                       |               |                 |              |     |                         |                   |              |                  |                |
|-----------------------|---------------|-----------------|--------------|-----|-------------------------|-------------------|--------------|------------------|----------------|
| UL<br>K               | Section<br>18 | Township<br>25S | Range<br>30E | Lot | Feet<br>2215            | From N/S<br>South | Feet<br>2339 | From E/W<br>West | County<br>Eddy |
| Latitude<br>32.128918 |               |                 |              |     | Longitude<br>103.921847 |                   |              | NAD<br>83        |                |

Last Take Point (LTP)

|                       |               |                 |              |     |                         |                   |              |                  |                |
|-----------------------|---------------|-----------------|--------------|-----|-------------------------|-------------------|--------------|------------------|----------------|
| UL<br>N               | Section<br>19 | Township<br>25S | Range<br>30E | Lot | Feet<br>335             | From N/S<br>South | Feet<br>2352 | From E/W<br>West | County<br>Eddy |
| Latitude<br>32.109137 |               |                 |              |     | Longitude<br>103.921749 |                   |              | NAD<br>83        |                |

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

Is this well an infill well? ☒ X

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

API #  
30-015-44891

|                           |                       |             |
|---------------------------|-----------------------|-------------|
| Operator Name:            | Property Name:        | Well Number |
| XTO PERMIAN OPERATING LLC | Poker Lake Unit 18 BD | 103H        |

KZ 06/29/2018

SEP 12 2019



# Survey Report

RECEIVED

**Service Company:** Wellbenders Directional Services

**Location:** Eddy County

**Well:** Poker Lake Unit 18 Brushy Draw  
#104H

**Rig:** Frontier 17

**API or UWI:** 30-015-44892-00

**Job Number:** NMDG 2018-1256

**State:** New Mexico

**Operating Company:** XTO Energy

**County:** Eddy

**Magnetic Declination:** 6.75

**Country:** United States

**Proposed Azimuth:** 179.65

**Comment**

**North Reference:** GRID

**Latitude:** 32.130972

**Longitude:** -103.924514

## Tie-In Data

| MD   | Inclination | Azimuth | TVD  | NS   | EW   |
|------|-------------|---------|------|------|------|
| 0.00 | 0.00        | 0.00    | 0.00 | 0.00 | 0.00 |

## Survey Data

| MD      | Inclination | Azimuth | TVD     | NS    | EW    | CA     | CD    | VS     | DLS  |
|---------|-------------|---------|---------|-------|-------|--------|-------|--------|------|
| 145.00  | 0.35        | 143.50  | 145.00  | -0.36 | 0.26  | 143.50 | 0.44  | 0.36   | 0.24 |
| 269.00  | 0.22        | 177.69  | 269.00  | -0.90 | 0.50  | 150.98 | 1.03  | 0.90   | 0.17 |
| 359.00  | 0.44        | 85.23   | 359.00  | -1.04 | 0.85  | 140.81 | 1.34  | 1.05   | 0.56 |
| 454.00  | 1.41        | 43.04   | 453.98  | -0.16 | 2.01  | 94.47  | 2.02  | 0.17   | 1.18 |
| 551.00  | 1.54        | 61.06   | 550.95  | 1.35  | 3.97  | 71.25  | 4.19  | -1.32  | 0.49 |
| 646.00  | 2.15        | 61.58   | 645.90  | 2.81  | 6.65  | 67.08  | 7.22  | -2.77  | 0.64 |
| 741.00  | 2.20        | 65.89   | 740.83  | 4.40  | 9.88  | 65.98  | 10.82 | -4.34  | 0.18 |
| 810.00  | 3.21        | 81.36   | 809.76  | 5.24  | 13.00 | 68.06  | 14.02 | -5.16  | 1.79 |
| 929.00  | 3.30        | 77.58   | 928.57  | 6.47  | 19.64 | 71.76  | 20.68 | -6.35  | 0.20 |
| 1023.00 | 3.52        | 78.55   | 1022.40 | 7.63  | 25.11 | 73.10  | 26.24 | -7.47  | 0.24 |
| 1118.00 | 3.34        | 89.88   | 1117.23 | 8.21  | 30.74 | 75.04  | 31.81 | -8.02  | 0.74 |
| 1212.00 | 3.65        | 85.67   | 1211.05 | 8.44  | 36.46 | 76.96  | 37.42 | -8.22  | 0.43 |
| 1307.00 | 4.04        | 83.03   | 1305.84 | 9.08  | 42.79 | 78.02  | 43.75 | -8.82  | 0.45 |
| 1401.00 | 3.56        | 71.78   | 1399.64 | 10.39 | 48.85 | 77.99  | 49.95 | -10.09 | 0.94 |
| 1495.00 | 3.25        | 65.54   | 1493.47 | 12.41 | 54.05 | 77.07  | 55.46 | -12.08 | 0.51 |
| 1591.00 | 2.42        | 64.40   | 1589.35 | 14.41 | 58.36 | 76.13  | 60.11 | -14.05 | 0.87 |

| MD      | Inclination | Azimuth | TVD     | NS    | EW     | CA    | CD     | VS     | DLS  |
|---------|-------------|---------|---------|-------|--------|-------|--------|--------|------|
| 1684.00 | 2.51        | 50.86   | 1682.27 | 16.54 | 61.71  | 74.99 | 63.89  | -16.17 | 0.63 |
| 1779.00 | 2.86        | 42.60   | 1777.16 | 19.60 | 64.92  | 73.20 | 67.82  | -19.21 | 0.55 |
| 1874.00 | 2.15        | 40.05   | 1872.07 | 22.71 | 67.68  | 71.45 | 71.39  | -22.30 | 0.75 |
| 1968.00 | 0.26        | 71.95   | 1966.05 | 24.13 | 69.02  | 70.73 | 73.12  | -23.71 | 2.06 |
| 2063.00 | 0.88        | 194.21  | 2061.04 | 23.49 | 69.05  | 71.21 | 72.94  | -23.07 | 1.10 |
| 2158.00 | 0.79        | 180.85  | 2156.03 | 22.13 | 68.86  | 72.18 | 72.33  | -21.71 | 0.22 |
| 2253.00 | 0.88        | 184.19  | 2251.02 | 20.75 | 68.80  | 73.22 | 71.86  | -20.33 | 0.11 |
| 2347.00 | 0.88        | 193.51  | 2345.01 | 19.33 | 68.58  | 74.26 | 71.25  | -18.91 | 0.15 |
| 2443.00 | 1.05        | 182.87  | 2441.00 | 17.73 | 68.36  | 75.46 | 70.62  | -17.31 | 0.26 |
| 2538.00 | 0.84        | 181.29  | 2535.98 | 16.16 | 68.30  | 76.69 | 70.19  | -15.74 | 0.23 |
| 2634.00 | 0.75        | 187.18  | 2631.98 | 14.83 | 68.21  | 77.73 | 69.80  | -14.42 | 0.13 |
| 2729.00 | 0.84        | 173.82  | 2726.97 | 13.52 | 68.20  | 78.78 | 69.53  | -13.11 | 0.22 |
| 2823.00 | 1.58        | 151.85  | 2820.95 | 11.70 | 68.89  | 80.36 | 69.87  | -11.28 | 0.92 |
| 2918.00 | 2.37        | 138.66  | 2915.89 | 9.07  | 70.80  | 82.70 | 71.38  | -8.63  | 0.95 |
| 3013.00 | 2.73        | 129.61  | 3010.79 | 6.15  | 73.84  | 85.24 | 74.10  | -5.70  | 0.57 |
| 3107.00 | 2.86        | 134.45  | 3104.68 | 3.08  | 77.24  | 87.72 | 77.30  | -2.61  | 0.29 |
| 3200.00 | 2.02        | 135.76  | 3197.60 | 0.28  | 80.04  | 89.80 | 80.04  | 0.21   | 0.91 |
| 3297.00 | 2.33        | 132.51  | 3294.53 | -2.28 | 82.69  | 91.58 | 82.72  | 2.78   | 0.34 |
| 3347.00 | 2.42        | 129.35  | 3344.48 | -3.63 | 84.25  | 92.47 | 84.33  | 4.15   | 0.32 |
| 3437.00 | 2.07        | 129.96  | 3434.42 | -5.88 | 86.97  | 93.87 | 87.16  | 6.41   | 0.39 |
| 3530.00 | 2.07        | 130.93  | 3527.35 | -8.06 | 89.52  | 95.14 | 89.88  | 8.60   | 0.04 |
| 3626.00 | 0.48        | 37.59   | 3623.33 | -8.87 | 91.08  | 95.57 | 91.51  | 9.43   | 2.24 |
| 3721.00 | 1.27        | 339.85  | 3718.32 | -7.57 | 90.96  | 94.76 | 91.27  | 8.13   | 1.15 |
| 3816.00 | 1.36        | 336.15  | 3813.30 | -5.55 | 90.14  | 93.52 | 90.31  | 6.10   | 0.13 |
| 3910.00 | 1.05        | 326.66  | 3907.28 | -3.81 | 89.22  | 92.45 | 89.30  | 4.36   | 0.39 |
| 4003.00 | 0.92        | 348.55  | 4000.26 | -2.37 | 88.60  | 91.53 | 88.63  | 2.91   | 0.42 |
| 4098.00 | 1.01        | 350.22  | 4095.25 | -0.79 | 88.30  | 90.51 | 88.31  | 1.33   | 0.10 |
| 4193.00 | 1.32        | 79.51   | 4190.24 | 0.23  | 89.24  | 89.85 | 89.24  | 0.31   | 1.74 |
| 4287.00 | 2.73        | 92.52   | 4284.18 | 0.33  | 92.53  | 89.79 | 92.53  | 0.23   | 1.56 |
| 4382.00 | 4.04        | 89.80   | 4379.01 | 0.24  | 98.14  | 89.86 | 98.14  | 0.35   | 1.40 |
| 4476.00 | 4.22        | 85.93   | 4472.76 | 0.50  | 104.90 | 89.73 | 104.91 | 0.14   | 0.35 |
| 4571.00 | 6.33        | 91.64   | 4567.36 | 0.60  | 113.63 | 89.70 | 113.63 | 0.09   | 2.29 |
| 4665.00 | 9.45        | 96.65   | 4660.46 | -0.44 | 126.47 | 90.20 | 126.48 | 1.22   | 3.40 |
| 4761.00 | 10.59       | 97.27   | 4754.99 | -2.47 | 143.06 | 90.99 | 143.08 | 3.35   | 1.20 |
| 4855.00 | 10.46       | 96.56   | 4847.41 | -4.54 | 160.11 | 91.62 | 160.17 | 5.52   | 0.20 |
| 4949.00 | 9.98        | 95.16   | 4939.92 | -6.25 | 176.70 | 92.03 | 176.81 | 7.33   | 0.58 |
| 5044.00 | 10.29       | 97.18   | 5033.43 | -8.05 | 193.31 | 92.38 | 193.48 | 9.23   | 0.50 |

| MD      | Inclination | Azimuth | TVD     | NS     | EW     | CA    | CD     | VS    | DLS  |
|---------|-------------|---------|---------|--------|--------|-------|--------|-------|------|
| 5138.00 | 9.85        | 95.86   | 5125.99 | -9.92  | 209.64 | 92.71 | 209.88 | 11.20 | 0.53 |
| 5233.00 | 11.43       | 94.37   | 5219.35 | -11.47 | 227.11 | 92.89 | 227.40 | 12.85 | 1.69 |
| 5327.00 | 12.44       | 95.07   | 5311.32 | -13.07 | 246.48 | 93.04 | 246.83 | 14.58 | 1.09 |
| 5421.00 | 14.46       | 95.42   | 5402.73 | -15.08 | 268.25 | 93.22 | 268.68 | 16.71 | 2.15 |
| 5515.00 | 17.01       | 95.51   | 5493.20 | -17.50 | 293.63 | 93.41 | 294.15 | 19.30 | 2.71 |
| 5609.00 | 17.32       | 94.81   | 5583.02 | -20.00 | 321.26 | 93.56 | 321.88 | 21.96 | 0.40 |
| 5703.00 | 17.01       | 93.75   | 5672.83 | -22.07 | 348.92 | 93.62 | 349.62 | 24.20 | 0.47 |
| 5798.00 | 16.26       | 92.96   | 5763.85 | -23.67 | 376.07 | 93.60 | 376.81 | 25.96 | 0.82 |
| 5893.00 | 14.73       | 92.87   | 5855.40 | -24.96 | 401.41 | 93.56 | 402.19 | 27.41 | 1.62 |
| 5989.00 | 14.51       | 93.58   | 5948.29 | -26.32 | 425.60 | 93.54 | 426.41 | 28.92 | 0.29 |
| 6085.00 | 13.49       | 92.43   | 6041.44 | -27.55 | 448.79 | 93.51 | 449.64 | 30.29 | 1.10 |
| 6180.00 | 14.07       | 95.07   | 6133.70 | -29.04 | 471.37 | 93.53 | 472.26 | 31.92 | 0.90 |
| 6276.00 | 13.93       | 95.77   | 6226.85 | -31.23 | 494.49 | 93.61 | 495.48 | 34.25 | 0.23 |
| 6369.00 | 13.23       | 94.81   | 6317.25 | -33.25 | 516.24 | 93.69 | 517.31 | 36.40 | 0.80 |
| 6464.00 | 14.51       | 99.03   | 6409.48 | -36.03 | 538.83 | 93.83 | 540.03 | 39.32 | 1.72 |
| 6560.00 | 14.99       | 100.78  | 6502.32 | -40.24 | 562.90 | 94.09 | 564.34 | 43.68 | 0.68 |
| 6655.00 | 14.68       | 100.61  | 6594.15 | -44.75 | 586.80 | 94.36 | 588.51 | 48.34 | 0.33 |
| 6751.00 | 14.33       | 100.87  | 6687.09 | -49.23 | 610.43 | 94.61 | 612.41 | 52.96 | 0.37 |
| 6847.00 | 13.89       | 100.70  | 6780.19 | -53.61 | 633.42 | 94.84 | 635.68 | 57.48 | 0.46 |
| 6941.00 | 14.90       | 98.50   | 6871.24 | -57.50 | 656.45 | 95.01 | 658.97 | 61.50 | 1.22 |
| 7037.00 | 15.08       | 97.97   | 6963.98 | -61.05 | 681.03 | 95.12 | 683.76 | 65.21 | 0.24 |
| 7132.00 | 14.86       | 97.97   | 7055.75 | -64.45 | 705.33 | 95.22 | 708.27 | 68.76 | 0.23 |
| 7228.00 | 13.93       | 97.88   | 7148.74 | -67.75 | 728.97 | 95.31 | 732.11 | 72.20 | 0.97 |
| 7323.00 | 13.19       | 98.50   | 7241.09 | -70.91 | 751.01 | 95.39 | 754.35 | 75.50 | 0.80 |
| 7417.00 | 12.09       | 96.30   | 7332.81 | -73.58 | 771.40 | 95.45 | 774.90 | 78.29 | 1.28 |
| 7511.00 | 10.37       | 91.38   | 7425.01 | -74.86 | 789.65 | 95.42 | 793.19 | 79.68 | 2.09 |
| 7605.00 | 8.40        | 85.05   | 7517.75 | -74.47 | 804.95 | 95.29 | 808.38 | 79.39 | 2.37 |
| 7699.00 | 6.64        | 76.35   | 7610.94 | -72.60 | 817.07 | 95.08 | 820.29 | 77.59 | 2.22 |
| 7793.00 | 5.32        | 71.34   | 7704.43 | -69.92 | 826.48 | 94.84 | 829.43 | 74.97 | 1.51 |
| 7888.00 | 4.53        | 65.19   | 7799.08 | -66.94 | 834.05 | 94.59 | 836.74 | 72.03 | 1.00 |
| 7982.00 | 4.53        | 69.49   | 7892.78 | -64.08 | 840.90 | 94.36 | 843.34 | 69.22 | 0.36 |
| 8076.00 | 5.41        | 84.35   | 7986.43 | -62.34 | 848.79 | 94.20 | 851.07 | 67.53 | 1.65 |
| 8171.00 | 6.55        | 98.76   | 8080.92 | -62.73 | 858.60 | 94.18 | 860.89 | 67.97 | 1.98 |
| 8267.00 | 5.67        | 87.25   | 8176.38 | -63.33 | 868.75 | 94.17 | 871.06 | 68.64 | 1.57 |
| 8362.00 | 3.87        | 95.51   | 8271.04 | -63.42 | 876.63 | 94.14 | 878.92 | 68.77 | 2.03 |
| 8456.00 | 4.79        | 110.89  | 8364.78 | -65.12 | 883.45 | 94.22 | 885.85 | 70.52 | 1.57 |
| 8551.00 | 5.14        | 117.48  | 8459.42 | -68.50 | 890.93 | 94.40 | 893.56 | 73.94 | 0.70 |

| MD       | Inclination | Azimuth | TVD      | NS      | EW     | CA     | CD      | VS     | DLS   |
|----------|-------------|---------|----------|---------|--------|--------|---------|--------|-------|
| 8646.00  | 4.35        | 116.52  | 8554.10  | -72.07  | 897.93 | 94.59  | 900.82  | 77.55  | 0.84  |
| 8742.00  | 3.65        | 114.93  | 8649.86  | -74.98  | 903.96 | 94.74  | 907.06  | 80.51  | 0.74  |
| 8837.00  | 2.99        | 109.57  | 8744.70  | -77.09  | 909.04 | 94.85  | 912.30  | 82.64  | 0.77  |
| 8933.00  | 2.46        | 117.57  | 8840.59  | -78.88  | 913.22 | 94.94  | 916.62  | 84.46  | 0.68  |
| 9028.00  | 2.07        | 134.53  | 8935.52  | -81.03  | 916.25 | 95.05  | 919.83  | 86.62  | 0.81  |
| 9124.00  | 1.98        | 134.53  | 9031.46  | -83.41  | 918.67 | 95.19  | 922.45  | 89.02  | 0.10  |
| 9219.00  | 2.42        | 144.55  | 9126.39  | -86.19  | 921.00 | 95.35  | 925.02  | 91.81  | 0.61  |
| 9313.00  | 2.20        | 151.23  | 9220.31  | -89.38  | 923.02 | 95.53  | 927.34  | 95.02  | 0.37  |
| 9407.00  | 2.24        | 152.99  | 9314.24  | -92.60  | 924.72 | 95.72  | 929.34  | 98.25  | 0.09  |
| 9502.00  | 2.29        | 163.71  | 9409.17  | -96.08  | 926.09 | 95.92  | 931.07  | 101.73 | 0.45  |
| 9597.00  | 2.33        | 156.07  | 9504.09  | -99.66  | 927.41 | 96.13  | 932.75  | 105.33 | 0.33  |
| 9692.00  | 1.67        | 172.68  | 9599.04  | -102.80 | 928.37 | 96.32  | 934.04  | 108.47 | 0.92  |
| 9786.00  | 1.23        | 195.35  | 9693.01  | -105.13 | 928.28 | 96.46  | 934.21  | 110.80 | 0.76  |
| 9881.00  | 1.23        | 203.35  | 9787.98  | -107.05 | 927.60 | 96.58  | 933.76  | 112.72 | 0.18  |
| 9988.00  | 0.88        | 208.10  | 9894.97  | -108.83 | 926.76 | 96.70  | 933.13  | 114.49 | 0.34  |
| 10036.00 | 0.92        | 223.30  | 9942.96  | -109.44 | 926.32 | 96.74  | 932.77  | 115.09 | 0.50  |
| 10083.00 | 1.14        | 208.01  | 9989.95  | -110.12 | 925.84 | 96.78  | 932.37  | 115.78 | 0.75  |
| 10130.00 | 5.14        | 162.48  | 10036.88 | -112.55 | 926.26 | 96.93  | 933.07  | 118.20 | 9.40  |
| 10177.00 | 7.12        | 161.52  | 10083.61 | -117.32 | 927.82 | 97.21  | 935.20  | 122.98 | 4.22  |
| 10225.00 | 8.84        | 161.78  | 10131.14 | -123.64 | 929.91 | 97.57  | 938.10  | 129.32 | 3.58  |
| 10272.00 | 10.99       | 160.02  | 10177.43 | -131.28 | 932.57 | 98.01  | 941.77  | 136.98 | 4.62  |
| 10320.00 | 14.90       | 162.83  | 10224.21 | -141.48 | 935.96 | 98.60  | 946.59  | 147.20 | 8.25  |
| 10367.00 | 17.80       | 166.61  | 10269.30 | -154.25 | 939.41 | 99.32  | 951.99  | 159.98 | 6.57  |
| 10462.00 | 28.09       | 161.43  | 10356.68 | -189.67 | 949.92 | 101.29 | 968.67  | 195.47 | 11.03 |
| 10555.00 | 38.29       | 162.31  | 10434.40 | -238.01 | 965.69 | 103.85 | 994.59  | 243.90 | 10.98 |
| 10651.00 | 46.95       | 168.37  | 10505.01 | -300.85 | 981.84 | 107.04 | 1026.90 | 306.84 | 9.97  |
| 10698.00 | 50.64       | 174.79  | 10535.98 | -335.80 | 986.96 | 108.79 | 1042.52 | 341.82 | 12.93 |
| 10745.00 | 53.45       | 177.51  | 10564.89 | -372.76 | 989.43 | 110.64 | 1057.32 | 378.80 | 7.52  |
| 10841.00 | 65.98       | 181.03  | 10613.22 | -455.47 | 990.32 | 114.70 | 1090.04 | 461.51 | 13.43 |
| 10889.00 | 72.26       | 182.17  | 10630.32 | -500.28 | 989.06 | 116.83 | 1108.38 | 506.31 | 13.27 |
| 10936.00 | 76.44       | 183.14  | 10642.99 | -545.48 | 986.96 | 118.93 | 1127.66 | 551.49 | 9.11  |
| 10984.00 | 80.04       | 182.78  | 10652.77 | -592.40 | 984.53 | 121.04 | 1149.02 | 598.40 | 7.54  |
| 11014.00 | 83.38       | 182.26  | 10657.10 | -622.05 | 983.23 | 122.32 | 1163.48 | 628.05 | 11.26 |
| 11066.00 | 88.66       | 182.78  | 10660.71 | -673.86 | 980.94 | 124.49 | 1190.10 | 679.84 | 10.20 |
| 11129.00 | 87.69       | 182.17  | 10662.71 | -736.77 | 978.22 | 126.99 | 1224.64 | 742.73 | 1.82  |
| 11223.00 | 91.74       | 183.58  | 10663.18 | -830.62 | 973.51 | 130.47 | 1279.71 | 836.56 | 4.55  |
| 11318.00 | 89.41       | 182.08  | 10662.23 | -925.49 | 968.82 | 133.69 | 1339.84 | 931.40 | 2.91  |

| MD       | Inclination | Azimuth | TVD      | NS       | EW     | CA     | CD      | VS      | DLS  |
|----------|-------------|---------|----------|----------|--------|--------|---------|---------|------|
| 11412.00 | 91.65       | 181.03  | 10661.37 | -1019.45 | 966.27 | 136.53 | 1404.62 | 1025.33 | 2.64 |
| 11506.00 | 87.56       | 178.92  | 10662.02 | -1113.42 | 966.32 | 139.05 | 1474.27 | 1119.30 | 4.89 |
| 11600.00 | 89.36       | 179.62  | 10664.54 | -1207.38 | 967.52 | 141.29 | 1547.21 | 1213.26 | 2.05 |
| 11695.00 | 93.27       | 181.29  | 10662.36 | -1302.33 | 966.76 | 143.41 | 1621.94 | 1308.21 | 4.48 |
| 11789.00 | 92.35       | 180.24  | 10657.76 | -1396.20 | 965.51 | 145.34 | 1697.53 | 1402.07 | 1.48 |
| 11883.00 | 91.96       | 179.36  | 10654.22 | -1490.13 | 965.84 | 147.05 | 1775.77 | 1496.01 | 1.02 |
| 11977.00 | 90.68       | 179.18  | 10652.06 | -1584.10 | 967.04 | 148.60 | 1855.94 | 1589.98 | 1.38 |
| 12071.00 | 91.16       | 179.18  | 10650.55 | -1678.08 | 968.38 | 150.01 | 1937.45 | 1683.96 | 0.51 |
| 12166.00 | 88.35       | 178.21  | 10650.95 | -1773.04 | 970.55 | 151.30 | 2021.29 | 1778.94 | 3.13 |
| 12261.00 | 86.99       | 177.07  | 10654.82 | -1867.88 | 974.45 | 152.45 | 2106.78 | 1873.80 | 1.87 |
| 12355.00 | 88.79       | 179.01  | 10658.28 | -1961.75 | 977.67 | 153.51 | 2191.87 | 1967.69 | 2.81 |
| 12449.00 | 90.07       | 179.27  | 10659.21 | -2055.73 | 979.08 | 154.53 | 2276.98 | 2061.68 | 1.38 |
| 12543.00 | 91.16       | 179.53  | 10658.20 | -2149.72 | 980.06 | 155.49 | 2362.59 | 2155.67 | 1.20 |
| 12637.00 | 90.86       | 179.53  | 10656.55 | -2243.70 | 980.83 | 156.39 | 2448.72 | 2249.65 | 0.33 |
| 12731.00 | 88.48       | 178.48  | 10657.09 | -2337.68 | 982.46 | 157.20 | 2535.74 | 2343.64 | 2.76 |
| 12825.00 | 88.92       | 179.18  | 10659.22 | -2431.64 | 984.38 | 157.96 | 2623.33 | 2437.60 | 0.88 |
| 12919.00 | 87.38       | 179.88  | 10662.25 | -2525.58 | 985.15 | 158.69 | 2710.92 | 2531.55 | 1.80 |
| 13013.00 | 88.75       | 179.88  | 10665.42 | -2619.52 | 985.35 | 159.39 | 2798.72 | 2625.49 | 1.46 |
| 13107.00 | 88.66       | 179.88  | 10667.55 | -2713.50 | 985.54 | 160.04 | 2886.93 | 2719.47 | 0.10 |
| 13201.00 | 91.87       | 182.61  | 10667.11 | -2807.46 | 983.50 | 160.69 | 2974.74 | 2813.41 | 4.48 |
| 13294.00 | 90.73       | 182.26  | 10665.00 | -2900.35 | 979.55 | 161.34 | 3061.30 | 2906.28 | 1.28 |
| 13388.00 | 88.00       | 181.55  | 10666.05 | -2994.28 | 976.42 | 161.94 | 3149.46 | 3000.19 | 3.00 |
| 13482.00 | 91.47       | 182.26  | 10666.48 | -3088.21 | 973.30 | 162.51 | 3237.95 | 3094.10 | 3.77 |
| 13576.00 | 92.44       | 181.73  | 10663.27 | -3182.10 | 970.03 | 163.05 | 3326.66 | 3187.96 | 1.17 |
| 13670.00 | 91.60       | 181.64  | 10659.95 | -3276.00 | 967.26 | 163.55 | 3415.81 | 3281.84 | 0.89 |
| 13765.00 | 91.25       | 180.50  | 10657.59 | -3370.95 | 965.49 | 164.02 | 3506.49 | 3376.78 | 1.26 |
| 13858.00 | 90.81       | 180.59  | 10655.91 | -3463.93 | 964.60 | 164.44 | 3595.73 | 3469.76 | 0.48 |
| 13953.00 | 92.13       | 181.20  | 10653.47 | -3558.88 | 963.12 | 164.86 | 3686.90 | 3564.70 | 1.53 |
| 14047.00 | 91.38       | 180.94  | 10650.59 | -3652.82 | 961.36 | 165.26 | 3777.21 | 3658.63 | 0.85 |
| 14141.00 | 89.01       | 181.38  | 10650.27 | -3746.80 | 959.46 | 165.64 | 3867.69 | 3752.59 | 2.56 |
| 14235.00 | 86.95       | 181.20  | 10653.58 | -3840.71 | 957.35 | 166.00 | 3958.23 | 3846.49 | 2.20 |
| 14330.00 | 90.55       | 180.85  | 10655.65 | -3935.66 | 955.65 | 166.35 | 4050.02 | 3941.42 | 3.81 |
| 14424.00 | 89.80       | 180.59  | 10655.37 | -4029.65 | 954.47 | 166.67 | 4141.14 | 4035.40 | 0.84 |
| 14518.00 | 89.89       | 180.32  | 10655.62 | -4123.64 | 953.72 | 166.98 | 4232.50 | 4129.39 | 0.30 |
| 14612.00 | 91.08       | 181.03  | 10654.82 | -4217.63 | 952.61 | 167.27 | 4323.87 | 4223.37 | 1.47 |
| 14706.00 | 85.93       | 180.50  | 10657.28 | -4311.56 | 951.36 | 167.56 | 4415.27 | 4317.29 | 5.51 |
| 14801.00 | 87.69       | 180.76  | 10662.56 | -4406.40 | 950.31 | 167.83 | 4507.71 | 4412.12 | 1.88 |

| MD       | Inclination | Azimuth | TVD      | NS       | EW      | CA     | CD      | VS      | DLS  |
|----------|-------------|---------|----------|----------|---------|--------|---------|---------|------|
| 14895.00 | 93.67       | 179.80  | 10661.44 | -4500.35 | 949.85  | 168.08 | 4599.50 | 4506.07 | 6.44 |
| 14989.00 | 88.75       | 178.65  | 10659.46 | -4594.29 | 951.12  | 168.30 | 4691.71 | 4600.01 | 5.38 |
| 15083.00 | 89.93       | 179.27  | 10660.55 | -4688.27 | 952.83  | 168.51 | 4784.11 | 4694.00 | 1.42 |
| 15177.00 | 91.43       | 179.88  | 10659.43 | -4782.25 | 953.52  | 168.72 | 4876.39 | 4787.99 | 1.72 |
| 15271.00 | 91.21       | 179.62  | 10657.27 | -4876.23 | 953.92  | 168.93 | 4968.66 | 4881.96 | 0.37 |
| 15365.00 | 91.43       | 179.71  | 10655.10 | -4970.20 | 954.47  | 169.13 | 5061.02 | 4975.94 | 0.25 |
| 15459.00 | 89.98       | 179.18  | 10653.95 | -5064.19 | 955.38  | 169.32 | 5153.52 | 5069.93 | 1.64 |
| 15553.00 | 91.38       | 179.18  | 10652.83 | -5158.17 | 956.73  | 169.49 | 5246.14 | 5163.92 | 1.50 |
| 15647.00 | 90.99       | 178.57  | 10650.89 | -5252.13 | 958.57  | 169.66 | 5338.89 | 5257.89 | 0.77 |
| 15741.00 | 88.84       | 177.78  | 10651.02 | -5346.08 | 961.56  | 169.80 | 5431.86 | 5351.85 | 2.44 |
| 15835.00 | 87.96       | 177.51  | 10653.65 | -5439.96 | 965.42  | 169.94 | 5524.96 | 5445.75 | 0.98 |
| 15928.00 | 92.97       | 177.51  | 10652.89 | -5532.84 | 969.46  | 170.06 | 5617.13 | 5538.66 | 5.39 |
| 16023.00 | 92.44       | 178.65  | 10648.41 | -5627.68 | 972.64  | 170.19 | 5711.11 | 5633.51 | 1.32 |
| 16117.00 | 88.79       | 181.47  | 10647.40 | -5721.65 | 972.55  | 170.35 | 5803.71 | 5727.48 | 4.90 |
| 16211.00 | 89.80       | 182.52  | 10648.55 | -5815.58 | 969.28  | 170.54 | 5895.80 | 5821.39 | 1.55 |
| 16306.00 | 92.13       | 182.96  | 10646.95 | -5910.45 | 964.73  | 170.73 | 5988.67 | 5916.23 | 2.50 |
| 16399.00 | 86.95       | 180.85  | 10647.70 | -6003.36 | 961.64  | 170.90 | 6079.89 | 6009.12 | 6.02 |
| 16493.00 | 86.20       | 180.68  | 10653.32 | -6097.18 | 960.39  | 171.05 | 6172.36 | 6102.94 | 0.82 |
| 16587.00 | 91.74       | 179.62  | 10655.02 | -6191.13 | 960.15  | 171.18 | 6265.14 | 6196.88 | 6.00 |
| 16681.00 | 91.65       | 179.27  | 10652.24 | -6285.08 | 961.06  | 171.31 | 6358.14 | 6290.84 | 0.38 |
| 16775.00 | 86.64       | 178.92  | 10653.64 | -6379.03 | 962.54  | 171.42 | 6451.24 | 6384.79 | 5.34 |
| 16869.00 | 86.20       | 178.21  | 10659.51 | -6472.82 | 964.89  | 171.52 | 6544.34 | 6478.59 | 0.89 |
| 16963.00 | 85.98       | 177.86  | 10665.92 | -6566.54 | 968.11  | 171.61 | 6637.52 | 6572.33 | 0.44 |
| 17057.00 | 86.07       | 177.69  | 10672.44 | -6660.25 | 971.75  | 171.70 | 6730.76 | 6666.06 | 0.20 |
| 17151.00 | 91.16       | 178.21  | 10674.71 | -6754.13 | 975.11  | 171.78 | 6824.15 | 6759.96 | 5.44 |
| 17245.00 | 90.59       | 178.21  | 10673.27 | -6848.07 | 978.04  | 171.87 | 6917.56 | 6853.92 | 0.60 |
| 17340.00 | 89.14       | 178.13  | 10673.49 | -6943.02 | 981.07  | 171.96 | 7011.99 | 6948.88 | 1.53 |
| 17434.00 | 91.16       | 178.04  | 10673.24 | -7036.96 | 984.22  | 172.04 | 7105.46 | 7042.84 | 2.15 |
| 17528.00 | 90.73       | 177.51  | 10671.68 | -7130.88 | 987.87  | 172.11 | 7198.98 | 7136.78 | 0.73 |
| 17623.00 | 88.66       | 176.81  | 10672.19 | -7225.75 | 992.57  | 172.18 | 7293.61 | 7231.68 | 2.30 |
| 17717.00 | 90.95       | 177.07  | 10672.51 | -7319.61 | 997.59  | 172.24 | 7387.28 | 7325.57 | 2.45 |
| 17811.00 | 90.59       | 177.16  | 10671.24 | -7413.48 | 1002.32 | 172.30 | 7480.94 | 7419.47 | 0.39 |
| 17906.00 | 90.95       | 177.25  | 10669.97 | -7508.36 | 1006.95 | 172.36 | 7575.58 | 7514.37 | 0.39 |
| 18000.00 | 89.76       | 176.72  | 10669.38 | -7602.23 | 1011.90 | 172.42 | 7669.28 | 7608.27 | 1.39 |
| 18094.00 | 88.62       | 176.46  | 10670.71 | -7696.05 | 1017.49 | 172.47 | 7763.02 | 7702.12 | 1.24 |
| 18188.00 | 87.16       | 176.98  | 10674.17 | -7789.83 | 1022.86 | 172.52 | 7856.70 | 7795.93 | 1.65 |
| 18282.00 | 87.87       | 176.81  | 10678.25 | -7883.60 | 1027.95 | 172.57 | 7950.34 | 7889.74 | 0.78 |

| MD       | Inclination | Azimuth | TVD      | NS       | EW      | CA     | CD      | VS      | DLS  |
|----------|-------------|---------|----------|----------|---------|--------|---------|---------|------|
| 18376.00 | 93.19       | 178.13  | 10677.38 | -7977.47 | 1032.10 | 172.63 | 8043.96 | 7983.63 | 5.83 |
| 18461.00 | 88.09       | 176.72  | 10676.43 | -8062.35 | 1035.92 | 172.68 | 8128.63 | 8068.53 | 6.22 |
| 18517.00 | 88.09       | 176.72  | 10678.30 | -8118.23 | 1039.12 | 172.71 | 8184.46 | 8124.42 | 0.00 |