

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

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

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

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

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

Form C-101  
August 1, 2011  
Permit 272634

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|                                                                                                |                                                |                               |
|------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------|
| 1. Operator Name and Address<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 |                                                | 2. OGRID Number<br>5380       |
|                                                                                                |                                                | 3. API Number<br>30-015-46334 |
| 4. Property Code<br>325754                                                                     | 5. Property Name<br>LOS MEDANOS 36 23 30 STATE | 6. Well No.<br>708H           |

**7. Surface Location**

|               |               |                 |              |         |                  |               |                   |               |                |
|---------------|---------------|-----------------|--------------|---------|------------------|---------------|-------------------|---------------|----------------|
| UL - Lot<br>O | Section<br>36 | Township<br>23S | Range<br>30E | Lot Idn | Feet From<br>348 | N/S Line<br>S | Feet From<br>1931 | E/W Line<br>E | County<br>Eddy |
|---------------|---------------|-----------------|--------------|---------|------------------|---------------|-------------------|---------------|----------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                 |               |                  |               |                |
|---------------|---------------|-----------------|--------------|--------------|-----------------|---------------|------------------|---------------|----------------|
| UL - Lot<br>A | Section<br>36 | Township<br>23S | Range<br>30E | Lot Idn<br>A | Feet From<br>50 | N/S Line<br>N | Feet From<br>330 | E/W Line<br>E | County<br>Eddy |
|---------------|---------------|-----------------|--------------|--------------|-----------------|---------------|------------------|---------------|----------------|

**9. Pool Information**

|                      |       |
|----------------------|-------|
| WILDCAT; BONE SPRING | 97944 |
|----------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3401 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>15135 | 18. Formation<br>2nd Bone Spring Sand  | 19. Contractor          | 20. Spud Date<br>11/15/2019        |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 20        | 16          | 64               | 550           | 545             | 0             |
| Int1 | 14.75     | 11.75       | 42               | 3900          | 1484            | 0             |
| Int2 | 10.875    | 8.625       | 32               | 9540          | 1511            | 0             |
| Prod | 7.875     | 5.5         | 17               | 15135         | 703             | 9040          |

**Casing/Cement Program: Additional Comments**

|                                                            |
|------------------------------------------------------------|
| DV tool may be set in 2nd intermediate between 3950-4300'. |
|------------------------------------------------------------|

**22. Proposed Blowout Prevention Program**

|            |                  |               |              |
|------------|------------------|---------------|--------------|
| Type       | Working Pressure | Test Pressure | Manufacturer |
| Double Ram | 5000             | 5000          | Cameron      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.<br><br>Signature:<br>Printed Name: Electronically filed by Deeann Kemp<br>Title: Regulatory<br>Email Address: DeeAnn_Kemp@xtoenergy.com<br>Date: 9/24/2019 | <b>OIL CONSERVATION DIVISION</b><br><br>Approved By: Raymond Podany<br>Title: Geologist<br>Approved Date: 10/4/2019<br>Expiration Date: 10/4/2021<br>Conditions of Approval Attached |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                    |  |                                                          |  |                        |                                  |
|------------------------------------|--|----------------------------------------------------------|--|------------------------|----------------------------------|
| <sup>1</sup> API Number<br>30-015- |  | <sup>2</sup> Pool Code                                   |  | <sup>3</sup> Pool Name |                                  |
| <sup>4</sup> Property Code         |  | <sup>5</sup> Property Name<br>LOS MEDANOS 36 23 30 STATE |  |                        | <sup>6</sup> Well Number<br>708H |
| <sup>7</sup> OGRID No.             |  | <sup>8</sup> Operator Name                               |  |                        | <sup>9</sup> Elevation<br>3,401' |

<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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| O             | 36      | 23 S     | 30 E  |         | 348           | SOUTH            | 1,931         | EAST           | 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 36      | 23 S     | 30 E  |         | 50            | NORTH            | 330           | EAST           | EDDY   |

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

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><sup>16</sup></p> <p><b>CORNER COORDINATES TABLE</b><br/>NAD 27 NME<br/>A - Y= 456,522.0 N, X= 657,097.8 E<br/>B - Y= 456,511.6 N, X= 655,761.5 E<br/>C - Y= 459,163.7 N, X= 657,084.7 E<br/>D - Y= 459,153.7 N, X= 655,746.9 E<br/>E - Y= 461,804.3 N, X= 657,073.0 E<br/>F - Y= 461,794.7 N, X= 655,732.9 E</p> <p><b>CORNER COORDINATES TABLE</b><br/>NAD 83 NME<br/>A - Y= 456,581.1 N, X= 698,281.2 E<br/>B - Y= 456,570.7 N, X= 696,944.9 E<br/>C - Y= 459,222.9 N, X= 698,268.0 E<br/>D - Y= 459,212.9 N, X= 696,930.2 E<br/>E - Y= 461,863.6 N, X= 698,256.2 E<br/>F - Y= 461,854.0 N, X= 696,916.1 E</p> <p><b>GEODETIC COORDINATES</b><br/>SURFACE LOCATION<br/>NAD 83 NME<br/>Y= 456,914.1<br/>X= 696,348.6<br/>LAT.= 32.255137°N<br/>LONG.= 103.831887°W</p> <p><b>LAST TAKE POINT</b><br/>NAD 83 NME<br/>Y= 461,761.2<br/>X= 697,926.7<br/>LAT.= 32.268440°N<br/>LONG.= 103.826709°W</p> <p><b>GEODETIC COORDINATES</b><br/>SURFACE LOCATION<br/>NAD 27 NME<br/>Y= 456,854.9<br/>X= 655,165.2<br/>LAT.= 32.255014°N<br/>LONG.= 103.831400°W</p> <p><b>LAST TAKE POINT</b><br/>NAD 27 NME<br/>Y= 461,701.9<br/>X= 656,743.5<br/>LAT.= 32.268317°N<br/>LONG.= 103.826221°W</p> <p><b>FIRST TAKE POINT</b><br/>NAD 83 NME<br/>Y= 456,678.5<br/>X= 697,950.7<br/>LAT.= 32.254469°N<br/>LONG.= 103.826709°W</p> <p><b>BOTTOM HOLE LOCATION</b><br/>NAD 83 NME<br/>Y= 461,811.2<br/>X= 697,926.5<br/>LAT.= 32.268578°N<br/>LONG.= 103.826709°W</p> <p><b>FIRST TAKE POINT</b><br/>NAD 27 NME<br/>Y= 456,619.4<br/>X= 656,767.3<br/>LAT.= 32.254346°N<br/>LONG.= 103.826222°W</p> <p><b>BOTTOM HOLE LOCATION</b><br/>NAD 27 NME<br/>Y= 461,751.9<br/>X= 656,743.3<br/>LAT.= 32.268455°N<br/>LONG.= 103.826221°W</p> |  |  |  | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b><br/>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.</p> <p><i>Stephanie Rabadue</i><br/>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> |  |
| <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b><br/>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.</p> <p>09-13-2019<br/>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>MARK DILLON HARP 23786<br/>Certificate Number _____</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  | <p><b>MARK DILLON HARP</b><br/>NEW MEXICO<br/>23786<br/>PROFESSIONAL SURVEYOR</p> <p>AW 2018020802</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |

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 |

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

## GAS CAPTURE PLAN

Date: 10/4/2019

☒ Original

Operator & OGRID No.: [5380] XTO ENERGY, INC

☐ Amended - Reason for  
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

**Well(s)/Production Facility – Name of facility**

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                        | API          | Well Location (ULSTR) | Footages       | Expected MCF/D | Flared or Vented | Comments                                                                        |
|----------------------------------|--------------|-----------------------|----------------|----------------|------------------|---------------------------------------------------------------------------------|
| LOS MEDANOS 36 23 30 STATE #708H | 30-015-46334 | O-36-23S-30E          | 0348S<br>1931E | 1              | Flared           | Keystone Plant located in Sec. 5, BLK B2, PSL Survey, Winkler, TX. GCP attached |

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC Texas Pipeline, Ltd. and will be connected to ETC Texas Pipeline, Ltd. Low Pressure gathering system located in Eddy County, New Mexico. It will require 1306' of pipeline to connect the facility to Low Pressure gathering system. XTO ENERGY, INC provides (periodically) to ETC Texas Pipeline, Ltd. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO ENERGY, INC and ETC Texas Pipeline, Ltd. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC Texas Pipeline, Ltd. Processing Plant located in Sec. 05, Twn. 01N, Rng. 01W, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC Texas Pipeline, Ltd. system at that time. Based on current information, it is XTO ENERGY, INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Form APD Comments

Permit 272634

**PERMIT COMMENTS**

|                                                                                                     |                                                                                                                                                                   |                                           |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Operator Name and Address:<br>XTO ENERGY, INC [5380]<br>6401 Holiday Hill Road<br>Midland, TX 79707 |                                                                                                                                                                   | API Number:<br>30-015-46334               |
|                                                                                                     |                                                                                                                                                                   | Well:<br>LOS MEDANOS 36 23 30 STATE #708H |
| Created By                                                                                          | Comment                                                                                                                                                           | Comment Date                              |
| kkardos                                                                                             | This well is located on an approved drill island and will comply with the stipulations outlined in the 2012 SOPA. XTO requests the option to batch drill the pad. | 9/24/2019                                 |

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions  
  
Permit 272634

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                     |                                                                                     |                                           |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|
| Operator Name and Address:<br>XTO ENERGY, INC [5380]<br>6401 Holiday Hill Road<br>Midland, TX 79707 |                                                                                     | API Number:<br>30-015-46334               |
|                                                                                                     |                                                                                     | Well:<br>LOS MEDANOS 36 23 30 STATE #708H |
| OCD Reviewer                                                                                        | Condition                                                                           |                                           |
| rpodany                                                                                             | Will require a directional survey with the C-104                                    |                                           |
| rpodany                                                                                             | Cement is required to circulate on both surface and intermediate1 strings of casing |                                           |

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

Submit Original  
to Appropriate  
District Office

---

**GAS CAPTURE PLAN**

Date: 09/24/19

☒ Original Operator & OGRID No.: XTO ENERGY, INC. [005380]  
☐ Amended - Reason for Amendment: \_\_\_\_\_

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

**Well(s)/Production Facility – Los Medanos CTB**

The well(s) that will be located at the production facility are shown in the table below.

| Well Name                       | API | Well Location | Footages           | Expected MCF/D | Flared or Vented | Comments |
|---------------------------------|-----|---------------|--------------------|----------------|------------------|----------|
| Los Medanos 36-23-30 State 707H |     | O-36-23S-30E  | 378'FSL & 1931'FEL | 0.7 MMCFD      | Flared/Sold      |          |
| Los Medanos 36-23-30 State 708H |     | O-36-23S-30E  | 348'FSL & 1931'FEL | 0.7 MMCFD      | Flared/Sold      |          |

**Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC and will be connected to ETC low/high pressure gathering system located in Lea County, New Mexico. It will require 1306' of pipeline to connect the facility to low/high pressure gathering system. XTO provides (periodically) to ETC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO and ETC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Keystone Plant located in Sec. 5, BLK B2, PSL Survey, Winkler, TX. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

**Flowback Strategy**

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC's system at that time. Based on current information, it is XTO's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

**Alternatives to Reduce Flaring**

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
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- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

# XTO Energy

Project: Eddy County, NM (NAD27) NMEZ Grid  
Site: Los Medanos 36-23-30 State  
Well: LM 36 23 30 State 708H  
Wellbore: 708H Lateral  
Design: Plan #3



3401+18 @ 3419.00usft (Prec525)  
NAD 1927 (NADCON CONUS)

To convert a Magnetic Direction to a True Direction, Add 6.83° East  
To convert a Magnetic Direction to a Grid Direction, Add 6.57°  
Magnetic North is 6.83° East of True North (Magnetic Declination)  
Magnetic North is 6.57° East of Grid North (Magnetic Convergence)

## SECTION DETAILS

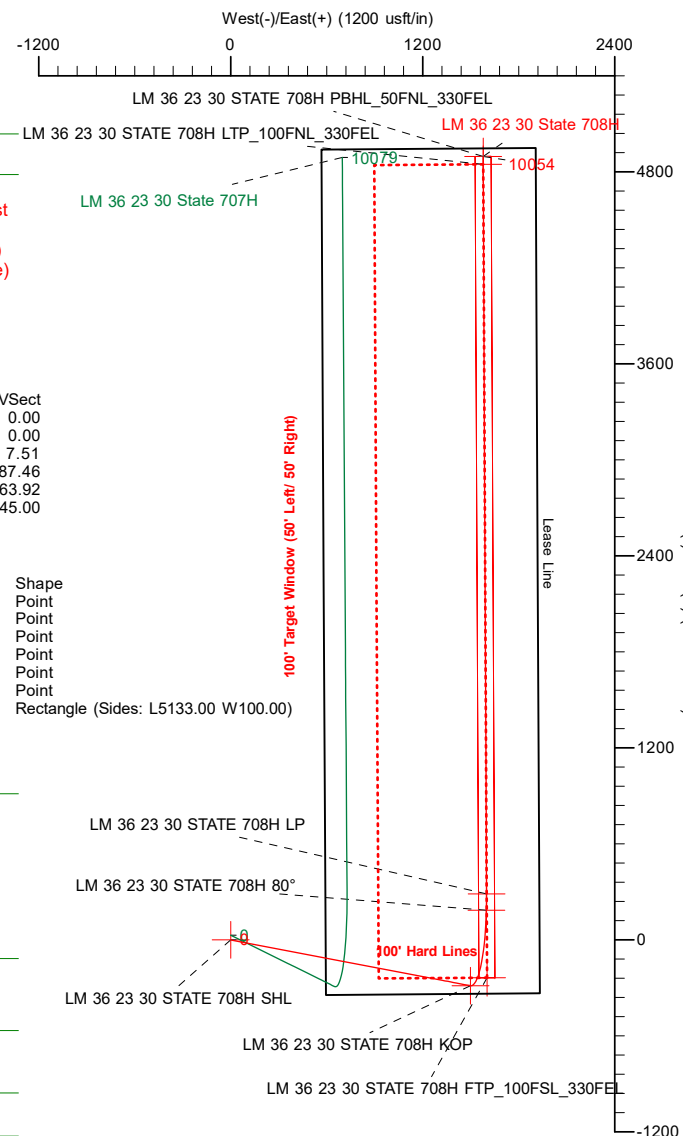
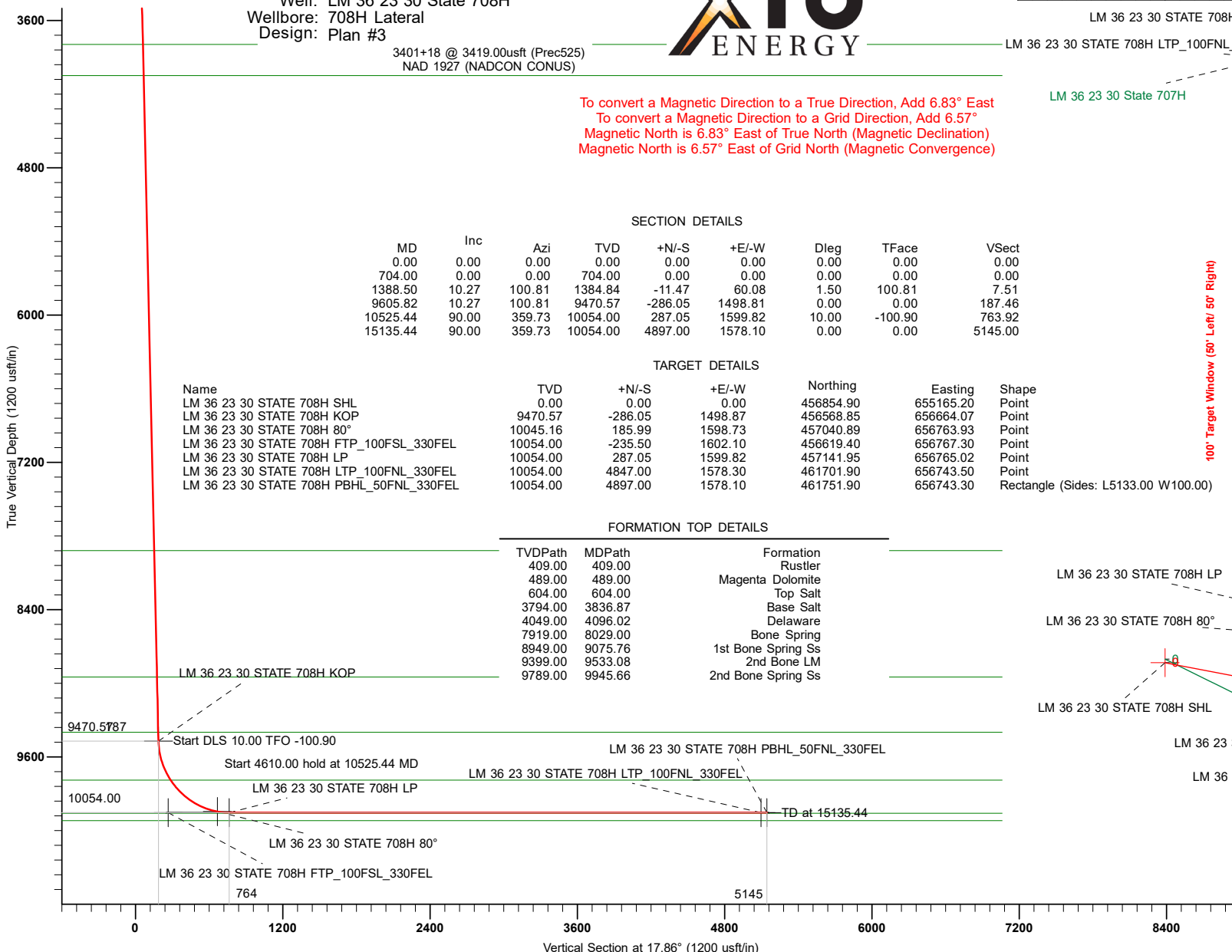
| MD       | Inc   | Azi    | TVD      | +N/-S   | +E/-W   | Dleg  | TFace   | VSec    |
|----------|-------|--------|----------|---------|---------|-------|---------|---------|
| 0.00     | 0.00  | 0.00   | 0.00     | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    |
| 704.00   | 0.00  | 0.00   | 704.00   | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    |
| 1388.50  | 10.27 | 100.81 | 1384.84  | -11.47  | 60.08   | 1.50  | 100.81  | 7.51    |
| 9605.82  | 10.27 | 100.81 | 9470.57  | -286.05 | 1498.87 | 0.00  | 0.00    | 187.46  |
| 10525.44 | 90.00 | 359.73 | 10054.00 | 287.05  | 1599.82 | 10.00 | -100.90 | 763.92  |
| 15135.44 | 90.00 | 359.73 | 10054.00 | 4897.00 | 1578.10 | 0.00  | 0.00    | 5145.00 |

## TARGET DETAILS

| Name                                     | TVD      | +N/-S   | +E/-W   | Northing  | Easting   | Shape                               |
|------------------------------------------|----------|---------|---------|-----------|-----------|-------------------------------------|
| LM 36 23 30 STATE 708H SHL               | 0.00     | 0.00    | 0.00    | 456854.90 | 655165.20 | Point                               |
| LM 36 23 30 STATE 708H KOP               | 9470.57  | -286.05 | 1498.87 | 456568.85 | 656664.07 | Point                               |
| LM 36 23 30 STATE 708H 80°               | 10045.16 | 185.99  | 1598.73 | 457040.89 | 656763.93 | Point                               |
| LM 36 23 30 STATE 708H FTP_100FSL_330FEL | 10054.00 | -235.50 | 1602.10 | 456619.40 | 656767.30 | Point                               |
| LM 36 23 30 STATE 708H LP                | 10054.00 | 287.05  | 1599.82 | 457141.95 | 656765.02 | Point                               |
| LM 36 23 30 STATE 708H LTP_100FNL_330FEL | 10054.00 | 4847.00 | 1578.30 | 461701.90 | 656743.50 | Point                               |
| LM 36 23 30 STATE 708H PBHL_50FNL_330FEL | 10054.00 | 4897.00 | 1578.10 | 461751.90 | 656743.30 | Rectangle (Sides: L5133.00 W100.00) |

## FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation          |
|---------|---------|--------------------|
| 409.00  | 409.00  | Rustler            |
| 489.00  | 489.00  | Magenta Dolomite   |
| 604.00  | 604.00  | Top Salt           |
| 3794.00 | 3836.87 | Base Salt          |
| 4049.00 | 4096.02 | Delaware           |
| 7919.00 | 8029.00 | Bone Spring        |
| 8949.00 | 9075.76 | 1st Bone Spring Ss |
| 9399.00 | 9533.08 | 2nd Bone LM        |
| 9789.00 | 9945.66 | 2nd Bone Spring Ss |



Azimuths to Grid North  
True North: -0.27°  
Magnetic North: 6.57°

Magnetic Field  
Strength: 47698.8nT  
Dip Angle: 60.02°  
Date: 09/14/2019  
Model: IGRF2015

## Planning Report

|                  |                                   |                                     |                                                               |
|------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Database:</b> | STRYKER_EDM                       | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Company:</b>  | XTO Energy                        | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Project:</b>  | Eddy County, NM (NAD27) NMEZ Grid | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site:</b>     | Los Medanos 36-23-30 State        | <b>North Reference:</b>             | Grid                                                          |
| <b>Well:</b>     | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Wellbore:</b> | 708H Lateral                      |                                     |                                                               |
| <b>Design:</b>   | Plan #3                           |                                     |                                                               |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAD27) NMEZ Grid    |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                            |                          |                        |
|------------------------------|----------------------------|--------------------------|------------------------|
| <b>Site</b>                  | Los Medanos 36-23-30 State |                          |                        |
| <b>Site Position:</b>        |                            | <b>Northing:</b>         | 456,871.90 usft        |
| <b>From:</b>                 | Map                        | <b>Easting:</b>          | 652,961.40 usft        |
| <b>Position Uncertainty:</b> | 0.00 usft                  | <b>Slot Radius:</b>      | 13.20 in               |
|                              |                            | <b>Latitude:</b>         | 32° 15' 18.31965009 N  |
|                              |                            | <b>Longitude:</b>        | 103° 50' 18.70409051 W |
|                              |                            | <b>Grid Convergence:</b> | 0.26 °                 |

|                             |                                                          |               |                            |
|-----------------------------|----------------------------------------------------------|---------------|----------------------------|
| <b>Well</b>                 | LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |               |                            |
| <b>Well Position</b>        | <b>+N/-S</b>                                             | -17.00 usft   | <b>Northing:</b>           |
|                             | <b>+E/-W</b>                                             | 2,203.80 usft | <b>Easting:</b>            |
| <b>Position Uncertainty</b> | 0.00 usft                                                |               | <b>Wellhead Elevation:</b> |
|                             |                                                          |               | <b>Latitude:</b>           |
|                             |                                                          |               | <b>Longitude:</b>          |
|                             |                                                          |               | <b>Ground Level:</b>       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | 708H Lateral      |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 09/14/19           | 6.83                   | 60.02                | 47,698.81176429            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #3                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <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                 | 17.86                |

|                                 |                        |                          |                        |                            |
|---------------------------------|------------------------|--------------------------|------------------------|----------------------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 09/18/19                 |                        |                            |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>       | <b>Remarks</b>             |
| 1                               | 0.00                   | 15,135.44                | Plan #3 (708H Lateral) | MWD+IFR1+MS                |
|                                 |                        |                          |                        | OWSG MWD + IFR1 + Multi-SI |

|                              |                        |                    |                              |                     |                     |                              |                             |                            |                |                     |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|------------------------------|-----------------------------|----------------------------|----------------|---------------------|
| <b>Plan Sections</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>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>       |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 704.00                       | 0.00                   | 0.00               | 704.00                       | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 1,388.50                     | 10.27                  | 100.81             | 1,384.84                     | -11.47              | 60.08               | 1.50                         | 1.50                        | 0.00                       | 100.81         |                     |
| 9,605.82                     | 10.27                  | 100.81             | 9,470.57                     | -286.05             | 1,498.81            | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 10,525.44                    | 90.00                  | 359.73             | 10,054.00                    | 287.05              | 1,599.82            | 10.00                        | 8.67                        | -10.99                     | -100.90        |                     |
| 15,135.44                    | 90.00                  | 359.73             | 10,054.00                    | 4,897.00            | 1,578.10            | 0.00                         | 0.00                        | 0.00                       | 0.00           | LM 36 23 30 STATE 7 |

# Planning Report

|                  |                                   |                                     |                                                               |
|------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Database:</b> | STRYKER_EDM                       | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Company:</b>  | XTO Energy                        | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Project:</b>  | Eddy County, NM (NAD27) NMEZ Grid | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site:</b>     | Los Medanos 36-23-30 State        | <b>North Reference:</b>             | Grid                                                          |
| <b>Well:</b>     | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Wellbore:</b> | 708H Lateral                      |                                     |                                                               |
| <b>Design:</b>   | Plan #3                           |                                     |                                                               |

| Planned Survey             |                 |             |                       |              |              |                         |                       |                      |                     |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                       | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| LM 36 23 30 STATE 708H SHL |                 |             |                       |              |              |                         |                       |                      |                     |
| 100.00                     | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 200.00                     | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 300.00                     | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 400.00                     | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 409.00                     | 0.00            | 0.00        | 409.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| Rustler                    |                 |             |                       |              |              |                         |                       |                      |                     |
| 489.00                     | 0.00            | 0.00        | 489.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| Magenta Dolomite           |                 |             |                       |              |              |                         |                       |                      |                     |
| 500.00                     | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 600.00                     | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 604.00                     | 0.00            | 0.00        | 604.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| Top Salt                   |                 |             |                       |              |              |                         |                       |                      |                     |
| 704.00                     | 0.00            | 0.00        | 704.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 800.00                     | 1.44            | 100.81      | 799.99                | -0.23        | 1.18         | 0.15                    | 1.50                  | 1.50                 | 0.00                |
| 900.00                     | 2.94            | 100.81      | 899.91                | -0.94        | 4.94         | 0.62                    | 1.50                  | 1.50                 | 0.00                |
| 1,000.00                   | 4.44            | 100.81      | 999.70                | -2.15        | 11.26        | 1.41                    | 1.50                  | 1.50                 | 0.00                |
| 1,100.00                   | 5.94            | 100.81      | 1,099.29              | -3.84        | 20.15        | 2.52                    | 1.50                  | 1.50                 | 0.00                |
| 1,200.00                   | 7.44            | 100.81      | 1,198.61              | -6.03        | 31.59        | 3.95                    | 1.50                  | 1.50                 | 0.00                |
| 1,300.00                   | 8.94            | 100.81      | 1,297.58              | -8.70        | 45.58        | 5.70                    | 1.50                  | 1.50                 | 0.00                |
| 1,388.50                   | 10.27           | 100.81      | 1,384.84              | -11.47       | 60.08        | 7.51                    | 1.50                  | 1.50                 | 0.00                |
| 1,400.00                   | 10.27           | 100.81      | 1,396.16              | -11.85       | 62.10        | 7.77                    | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                   | 10.27           | 100.81      | 1,494.56              | -15.19       | 79.61        | 9.96                    | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                   | 10.27           | 100.81      | 1,592.96              | -18.53       | 97.11        | 12.15                   | 0.00                  | 0.00                 | 0.00                |
| 1,700.00                   | 10.27           | 100.81      | 1,691.35              | -21.88       | 114.62       | 14.34                   | 0.00                  | 0.00                 | 0.00                |
| 1,800.00                   | 10.27           | 100.81      | 1,789.75              | -25.22       | 132.13       | 16.53                   | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                   | 10.27           | 100.81      | 1,888.15              | -28.56       | 149.64       | 18.72                   | 0.00                  | 0.00                 | 0.00                |
| 2,000.00                   | 10.27           | 100.81      | 1,986.55              | -31.90       | 167.15       | 20.91                   | 0.00                  | 0.00                 | 0.00                |
| 2,100.00                   | 10.27           | 100.81      | 2,084.95              | -35.24       | 184.66       | 23.10                   | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                   | 10.27           | 100.81      | 2,183.35              | -38.58       | 202.16       | 25.28                   | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                   | 10.27           | 100.81      | 2,281.75              | -41.93       | 219.67       | 27.47                   | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                   | 10.27           | 100.81      | 2,380.14              | -45.27       | 237.18       | 29.66                   | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                   | 10.27           | 100.81      | 2,478.54              | -48.61       | 254.69       | 31.85                   | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                   | 10.27           | 100.81      | 2,576.94              | -51.95       | 272.20       | 34.04                   | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                   | 10.27           | 100.81      | 2,675.34              | -55.29       | 289.71       | 36.23                   | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                   | 10.27           | 100.81      | 2,773.74              | -58.63       | 307.21       | 38.42                   | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                   | 10.27           | 100.81      | 2,872.14              | -61.97       | 324.72       | 40.61                   | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                   | 10.27           | 100.81      | 2,970.54              | -65.32       | 342.23       | 42.80                   | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                   | 10.27           | 100.81      | 3,068.93              | -68.66       | 359.74       | 44.99                   | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                   | 10.27           | 100.81      | 3,167.33              | -72.00       | 377.25       | 47.18                   | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                   | 10.27           | 100.81      | 3,265.73              | -75.34       | 394.76       | 49.37                   | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                   | 10.27           | 100.81      | 3,364.13              | -78.68       | 412.27       | 51.56                   | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                   | 10.27           | 100.81      | 3,462.53              | -82.02       | 429.77       | 53.75                   | 0.00                  | 0.00                 | 0.00                |
| 3,600.00                   | 10.27           | 100.81      | 3,560.93              | -85.37       | 447.28       | 55.94                   | 0.00                  | 0.00                 | 0.00                |
| 3,700.00                   | 10.27           | 100.81      | 3,659.33              | -88.71       | 464.79       | 58.13                   | 0.00                  | 0.00                 | 0.00                |
| 3,800.00                   | 10.27           | 100.81      | 3,757.73              | -92.05       | 482.30       | 60.32                   | 0.00                  | 0.00                 | 0.00                |
| 3,836.87                   | 10.27           | 100.81      | 3,794.00              | -93.28       | 488.75       | 61.13                   | 0.00                  | 0.00                 | 0.00                |
| Base Salt                  |                 |             |                       |              |              |                         |                       |                      |                     |
| 3,900.00                   | 10.27           | 100.81      | 3,856.12              | -95.39       | 499.81       | 62.51                   | 0.00                  | 0.00                 | 0.00                |
| 4,000.00                   | 10.27           | 100.81      | 3,954.52              | -98.73       | 517.32       | 64.70                   | 0.00                  | 0.00                 | 0.00                |
| 4,096.02                   | 10.27           | 100.81      | 4,049.00              | -101.94      | 534.13       | 66.80                   | 0.00                  | 0.00                 | 0.00                |

# Planning Report

|                  |                                   |                                     |                                                               |
|------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Database:</b> | STRYKER_EDM                       | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Company:</b>  | XTO Energy                        | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Project:</b>  | Eddy County, NM (NAD27) NMEZ Grid | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site:</b>     | Los Medanos 36-23-30 State        | <b>North Reference:</b>             | Grid                                                          |
| <b>Well:</b>     | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Wellbore:</b> | 708H Lateral                      |                                     |                                                               |
| <b>Design:</b>   | Plan #3                           |                                     |                                                               |

| Planned Survey        |                 |             |                       |              |              |                         |                       |                      |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| <b>Delaware</b>       |                 |             |                       |              |              |                         |                       |                      |                     |
| 4,100.00              | 10.27           | 100.81      | 4,052.92              | -102.07      | 534.82       | 66.89                   | 0.00                  | 0.00                 | 0.00                |
| 4,200.00              | 10.27           | 100.81      | 4,151.32              | -105.41      | 552.33       | 69.08                   | 0.00                  | 0.00                 | 0.00                |
| 4,300.00              | 10.27           | 100.81      | 4,249.72              | -108.76      | 569.84       | 71.27                   | 0.00                  | 0.00                 | 0.00                |
| 4,400.00              | 10.27           | 100.81      | 4,348.12              | -112.10      | 587.35       | 73.46                   | 0.00                  | 0.00                 | 0.00                |
| 4,500.00              | 10.27           | 100.81      | 4,446.52              | -115.44      | 604.86       | 75.65                   | 0.00                  | 0.00                 | 0.00                |
| 4,600.00              | 10.27           | 100.81      | 4,544.91              | -118.78      | 622.37       | 77.84                   | 0.00                  | 0.00                 | 0.00                |
| 4,700.00              | 10.27           | 100.81      | 4,643.31              | -122.12      | 639.87       | 80.03                   | 0.00                  | 0.00                 | 0.00                |
| 4,800.00              | 10.27           | 100.81      | 4,741.71              | -125.46      | 657.38       | 82.22                   | 0.00                  | 0.00                 | 0.00                |
| 4,900.00              | 10.27           | 100.81      | 4,840.11              | -128.81      | 674.89       | 84.41                   | 0.00                  | 0.00                 | 0.00                |
| 5,000.00              | 10.27           | 100.81      | 4,938.51              | -132.15      | 692.40       | 86.60                   | 0.00                  | 0.00                 | 0.00                |
| 5,100.00              | 10.27           | 100.81      | 5,036.91              | -135.49      | 709.91       | 88.79                   | 0.00                  | 0.00                 | 0.00                |
| 5,200.00              | 10.27           | 100.81      | 5,135.31              | -138.83      | 727.42       | 90.98                   | 0.00                  | 0.00                 | 0.00                |
| 5,300.00              | 10.27           | 100.81      | 5,233.70              | -142.17      | 744.93       | 93.17                   | 0.00                  | 0.00                 | 0.00                |
| 5,400.00              | 10.27           | 100.81      | 5,332.10              | -145.51      | 762.43       | 95.36                   | 0.00                  | 0.00                 | 0.00                |
| 5,500.00              | 10.27           | 100.81      | 5,430.50              | -148.85      | 779.94       | 97.55                   | 0.00                  | 0.00                 | 0.00                |
| 5,600.00              | 10.27           | 100.81      | 5,528.90              | -152.20      | 797.45       | 99.74                   | 0.00                  | 0.00                 | 0.00                |
| 5,700.00              | 10.27           | 100.81      | 5,627.30              | -155.54      | 814.96       | 101.93                  | 0.00                  | 0.00                 | 0.00                |
| 5,800.00              | 10.27           | 100.81      | 5,725.70              | -158.88      | 832.47       | 104.12                  | 0.00                  | 0.00                 | 0.00                |
| 5,900.00              | 10.27           | 100.81      | 5,824.10              | -162.22      | 849.98       | 106.31                  | 0.00                  | 0.00                 | 0.00                |
| 6,000.00              | 10.27           | 100.81      | 5,922.49              | -165.56      | 867.48       | 108.50                  | 0.00                  | 0.00                 | 0.00                |
| 6,100.00              | 10.27           | 100.81      | 6,020.89              | -168.90      | 884.99       | 110.69                  | 0.00                  | 0.00                 | 0.00                |
| 6,200.00              | 10.27           | 100.81      | 6,119.29              | -172.25      | 902.50       | 112.88                  | 0.00                  | 0.00                 | 0.00                |
| 6,300.00              | 10.27           | 100.81      | 6,217.69              | -175.59      | 920.01       | 115.07                  | 0.00                  | 0.00                 | 0.00                |
| 6,400.00              | 10.27           | 100.81      | 6,316.09              | -178.93      | 937.52       | 117.26                  | 0.00                  | 0.00                 | 0.00                |
| 6,500.00              | 10.27           | 100.81      | 6,414.49              | -182.27      | 955.03       | 119.45                  | 0.00                  | 0.00                 | 0.00                |
| 6,600.00              | 10.27           | 100.81      | 6,512.89              | -185.61      | 972.53       | 121.64                  | 0.00                  | 0.00                 | 0.00                |
| 6,700.00              | 10.27           | 100.81      | 6,611.29              | -188.95      | 990.04       | 123.83                  | 0.00                  | 0.00                 | 0.00                |
| 6,800.00              | 10.27           | 100.81      | 6,709.68              | -192.29      | 1,007.55     | 126.02                  | 0.00                  | 0.00                 | 0.00                |
| 6,900.00              | 10.27           | 100.81      | 6,808.08              | -195.64      | 1,025.06     | 128.21                  | 0.00                  | 0.00                 | 0.00                |
| 7,000.00              | 10.27           | 100.81      | 6,906.48              | -198.98      | 1,042.57     | 130.40                  | 0.00                  | 0.00                 | 0.00                |
| 7,100.00              | 10.27           | 100.81      | 7,004.88              | -202.32      | 1,060.08     | 132.59                  | 0.00                  | 0.00                 | 0.00                |
| 7,200.00              | 10.27           | 100.81      | 7,103.28              | -205.66      | 1,077.59     | 134.78                  | 0.00                  | 0.00                 | 0.00                |
| 7,300.00              | 10.27           | 100.81      | 7,201.68              | -209.00      | 1,095.09     | 136.96                  | 0.00                  | 0.00                 | 0.00                |
| 7,400.00              | 10.27           | 100.81      | 7,300.08              | -212.34      | 1,112.60     | 139.15                  | 0.00                  | 0.00                 | 0.00                |
| 7,500.00              | 10.27           | 100.81      | 7,398.47              | -215.69      | 1,130.11     | 141.34                  | 0.00                  | 0.00                 | 0.00                |
| 7,600.00              | 10.27           | 100.81      | 7,496.87              | -219.03      | 1,147.62     | 143.53                  | 0.00                  | 0.00                 | 0.00                |
| 7,700.00              | 10.27           | 100.81      | 7,595.27              | -222.37      | 1,165.13     | 145.72                  | 0.00                  | 0.00                 | 0.00                |
| 7,800.00              | 10.27           | 100.81      | 7,693.67              | -225.71      | 1,182.64     | 147.91                  | 0.00                  | 0.00                 | 0.00                |
| 7,900.00              | 10.27           | 100.81      | 7,792.07              | -229.05      | 1,200.14     | 150.10                  | 0.00                  | 0.00                 | 0.00                |
| 8,000.00              | 10.27           | 100.81      | 7,890.47              | -232.39      | 1,217.65     | 152.29                  | 0.00                  | 0.00                 | 0.00                |
| 8,029.00              | 10.27           | 100.81      | 7,919.00              | -233.36      | 1,222.73     | 152.93                  | 0.00                  | 0.00                 | 0.00                |
| <b>Bone Spring</b>    |                 |             |                       |              |              |                         |                       |                      |                     |
| 8,100.00              | 10.27           | 100.81      | 7,988.87              | -235.73      | 1,235.16     | 154.48                  | 0.00                  | 0.00                 | 0.00                |
| 8,200.00              | 10.27           | 100.81      | 8,087.26              | -239.08      | 1,252.67     | 156.67                  | 0.00                  | 0.00                 | 0.00                |
| 8,300.00              | 10.27           | 100.81      | 8,185.66              | -242.42      | 1,270.18     | 158.86                  | 0.00                  | 0.00                 | 0.00                |
| 8,400.00              | 10.27           | 100.81      | 8,284.06              | -245.76      | 1,287.69     | 161.05                  | 0.00                  | 0.00                 | 0.00                |
| 8,500.00              | 10.27           | 100.81      | 8,382.46              | -249.10      | 1,305.20     | 163.24                  | 0.00                  | 0.00                 | 0.00                |
| 8,600.00              | 10.27           | 100.81      | 8,480.86              | -252.44      | 1,322.70     | 165.43                  | 0.00                  | 0.00                 | 0.00                |
| 8,700.00              | 10.27           | 100.81      | 8,579.26              | -255.78      | 1,340.21     | 167.62                  | 0.00                  | 0.00                 | 0.00                |
| 8,800.00              | 10.27           | 100.81      | 8,677.66              | -259.13      | 1,357.72     | 169.81                  | 0.00                  | 0.00                 | 0.00                |
| 8,900.00              | 10.27           | 100.81      | 8,776.06              | -262.47      | 1,375.23     | 172.00                  | 0.00                  | 0.00                 | 0.00                |
| 9,000.00              | 10.27           | 100.81      | 8,874.45              | -265.81      | 1,392.74     | 174.19                  | 0.00                  | 0.00                 | 0.00                |

# Planning Report

|                  |                                   |                                     |                                                               |
|------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Database:</b> | STRYKER_EDM                       | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Company:</b>  | XTO Energy                        | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Project:</b>  | Eddy County, NM (NAD27) NMEZ Grid | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site:</b>     | Los Medanos 36-23-30 State        | <b>North Reference:</b>             | Grid                                                          |
| <b>Well:</b>     | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Wellbore:</b> | 708H Lateral                      |                                     |                                                               |
| <b>Design:</b>   | Plan #3                           |                                     |                                                               |

| Planned Survey                           |                 |             |                       |              |              |                         |                       |                      |                     |  |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft)                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 9,075.76                                 | 10.27           | 100.81      | 8,949.00              | -268.34      | 1,406.00     | 175.85                  | 0.00                  | 0.00                 | 0.00                |  |
| 1st Bone Spring Ss                       |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 9,100.00                                 | 10.27           | 100.81      | 8,972.85              | -269.15      | 1,410.25     | 176.38                  | 0.00                  | 0.00                 | 0.00                |  |
| 9,200.00                                 | 10.27           | 100.81      | 9,071.25              | -272.49      | 1,427.75     | 178.57                  | 0.00                  | 0.00                 | 0.00                |  |
| 9,300.00                                 | 10.27           | 100.81      | 9,169.65              | -275.83      | 1,445.26     | 180.76                  | 0.00                  | 0.00                 | 0.00                |  |
| 9,400.00                                 | 10.27           | 100.81      | 9,268.05              | -279.17      | 1,462.77     | 182.95                  | 0.00                  | 0.00                 | 0.00                |  |
| 9,500.00                                 | 10.27           | 100.81      | 9,366.45              | -282.52      | 1,480.28     | 185.14                  | 0.00                  | 0.00                 | 0.00                |  |
| 9,533.08                                 | 10.27           | 100.81      | 9,399.00              | -283.62      | 1,486.07     | 185.87                  | 0.00                  | 0.00                 | 0.00                |  |
| 2nd Bone LM                              |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 9,605.82                                 | 10.27           | 100.81      | 9,470.57              | -286.05      | 1,498.81     | 187.46                  | 0.00                  | 0.00                 | 0.00                |  |
| 9,605.83                                 | 10.27           | 100.81      | 9,470.58              | -286.05      | 1,498.81     | 187.46                  | 0.00                  | 0.00                 | 0.00                |  |
| LM 36 23 30 STATE 708H KOP               |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 9,650.00                                 | 10.37           | 75.96       | 9,514.06              | -285.83      | 1,506.54     | 190.04                  | 10.00                 | 0.24                 | -56.24              |  |
| 9,700.00                                 | 12.51           | 52.94       | 9,563.09              | -281.47      | 1,515.23     | 196.86                  | 10.00                 | 4.29                 | -46.03              |  |
| 9,750.00                                 | 15.97           | 38.12       | 9,611.56              | -272.78      | 1,523.81     | 207.75                  | 10.00                 | 6.92                 | -29.64              |  |
| 9,800.00                                 | 20.08           | 28.83       | 9,659.10              | -259.84      | 1,532.20     | 222.64                  | 10.00                 | 8.21                 | -18.58              |  |
| 9,850.00                                 | 24.51           | 22.68       | 9,705.36              | -242.75      | 1,540.34     | 241.42                  | 10.00                 | 8.86                 | -12.30              |  |
| 9,900.00                                 | 29.11           | 18.35       | 9,749.98              | -221.62      | 1,548.17     | 263.93                  | 10.00                 | 9.21                 | -8.67               |  |
| 9,945.66                                 | 33.41           | 15.37       | 9,789.00              | -198.95      | 1,555.00     | 287.60                  | 10.00                 | 9.41                 | -6.53               |  |
| 2nd Bone Spring Ss                       |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 9,950.00                                 | 33.82           | 15.12       | 9,792.62              | -196.63      | 1,555.64     | 290.00                  | 10.00                 | 9.49                 | -5.71               |  |
| 10,000.00                                | 38.60           | 12.60       | 9,832.95              | -167.95      | 1,562.67     | 319.45                  | 10.00                 | 9.55                 | -5.04               |  |
| 10,050.00                                | 43.41           | 10.56       | 9,870.68              | -135.82      | 1,569.23     | 352.04                  | 10.00                 | 9.64                 | -4.08               |  |
| 10,100.00                                | 48.26           | 8.86        | 9,905.50              | -100.48      | 1,575.25     | 387.53                  | 10.00                 | 9.70                 | -3.41               |  |
| LM 36 23 30 STATE 708H FTP_100FSL_330FEL |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 10,150.00                                | 53.13           | 7.39        | 9,937.16              | -62.19       | 1,580.70     | 425.65                  | 10.00                 | 9.74                 | -2.93               |  |
| 10,200.00                                | 58.02           | 6.10        | 9,965.42              | -21.24       | 1,585.53     | 466.10                  | 10.00                 | 9.77                 | -2.58               |  |
| 10,250.00                                | 62.92           | 4.95        | 9,990.06              | 22.05        | 1,589.71     | 508.59                  | 10.00                 | 9.80                 | -2.31               |  |
| 10,300.00                                | 67.82           | 3.89        | 10,010.89             | 67.35        | 1,593.20     | 552.78                  | 10.00                 | 9.81                 | -2.12               |  |
| 10,350.00                                | 72.74           | 2.90        | 10,027.76             | 114.32       | 1,595.97     | 598.33                  | 10.00                 | 9.83                 | -1.98               |  |
| 10,400.00                                | 77.65           | 1.96        | 10,040.53             | 162.60       | 1,598.02     | 644.91                  | 10.00                 | 9.83                 | -1.87               |  |
| 10,423.85                                | 80.00           | 1.53        | 10,045.16             | 185.99       | 1,598.73     | 667.40                  | 10.00                 | 9.84                 | -1.82               |  |
| LM 36 23 30 STATE 708H 80°               |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 10,450.00                                | 82.57           | 1.06        | 10,049.12             | 211.83       | 1,599.31     | 692.16                  | 10.00                 | 9.84                 | -1.79               |  |
| 10,500.00                                | 87.50           | 0.18        | 10,053.44             | 261.62       | 1,599.85     | 739.72                  | 10.00                 | 9.84                 | -1.76               |  |
| 10,525.44                                | 90.00           | 359.73      | 10,054.00             | 287.05       | 1,599.82     | 763.92                  | 10.00                 | 9.85                 | -1.75               |  |
| LM 36 23 30 STATE 708H LP                |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 10,600.00                                | 90.00           | 359.73      | 10,054.00             | 361.61       | 1,599.47     | 834.78                  | 0.00                  | 0.00                 | 0.00                |  |
| 10,700.00                                | 90.00           | 359.73      | 10,054.00             | 461.61       | 1,599.00     | 929.81                  | 0.00                  | 0.00                 | 0.00                |  |
| 10,800.00                                | 90.00           | 359.73      | 10,054.00             | 561.61       | 1,598.53     | 1,024.85                | 0.00                  | 0.00                 | 0.00                |  |
| 10,900.00                                | 90.00           | 359.73      | 10,054.00             | 661.61       | 1,598.06     | 1,119.88                | 0.00                  | 0.00                 | 0.00                |  |
| 11,000.00                                | 90.00           | 359.73      | 10,054.00             | 761.61       | 1,597.59     | 1,214.91                | 0.00                  | 0.00                 | 0.00                |  |
| 11,100.00                                | 90.00           | 359.73      | 10,054.00             | 861.60       | 1,597.12     | 1,309.95                | 0.00                  | 0.00                 | 0.00                |  |
| 11,200.00                                | 90.00           | 359.73      | 10,054.00             | 961.60       | 1,596.65     | 1,404.98                | 0.00                  | 0.00                 | 0.00                |  |
| 11,300.00                                | 90.00           | 359.73      | 10,054.00             | 1,061.60     | 1,596.17     | 1,500.02                | 0.00                  | 0.00                 | 0.00                |  |
| 11,400.00                                | 90.00           | 359.73      | 10,054.00             | 1,161.60     | 1,595.70     | 1,595.05                | 0.00                  | 0.00                 | 0.00                |  |
| 11,500.00                                | 90.00           | 359.73      | 10,054.00             | 1,261.60     | 1,595.23     | 1,690.09                | 0.00                  | 0.00                 | 0.00                |  |
| 11,600.00                                | 90.00           | 359.73      | 10,054.00             | 1,361.60     | 1,594.76     | 1,785.12                | 0.00                  | 0.00                 | 0.00                |  |
| 11,700.00                                | 90.00           | 359.73      | 10,054.00             | 1,461.60     | 1,594.29     | 1,880.15                | 0.00                  | 0.00                 | 0.00                |  |
| 11,800.00                                | 90.00           | 359.73      | 10,054.00             | 1,561.60     | 1,593.82     | 1,975.19                | 0.00                  | 0.00                 | 0.00                |  |
| 11,900.00                                | 90.00           | 359.73      | 10,054.00             | 1,661.60     | 1,593.35     | 2,070.22                | 0.00                  | 0.00                 | 0.00                |  |
| 12,000.00                                | 90.00           | 359.73      | 10,054.00             | 1,761.59     | 1,592.88     | 2,165.26                | 0.00                  | 0.00                 | 0.00                |  |

# Planning Report

|                  |                                   |                                     |                                                               |
|------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Database:</b> | STRYKER_EDM                       | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Company:</b>  | XTO Energy                        | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Project:</b>  | Eddy County, NM (NAD27) NMEZ Grid | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site:</b>     | Los Medanos 36-23-30 State        | <b>North Reference:</b>             | Grid                                                          |
| <b>Well:</b>     | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Wellbore:</b> | 708H Lateral                      |                                     |                                                               |
| <b>Design:</b>   | Plan #3                           |                                     |                                                               |

| Planned Survey                           |                 |             |                       |              |              |                         |                       |                      |                     |  |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft)                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 12,100.00                                | 90.00           | 359.73      | 10,054.00             | 1,861.59     | 1,592.40     | 2,260.29                | 0.00                  | 0.00                 | 0.00                |  |
| 12,200.00                                | 90.00           | 359.73      | 10,054.00             | 1,961.59     | 1,591.93     | 2,355.33                | 0.00                  | 0.00                 | 0.00                |  |
| 12,300.00                                | 90.00           | 359.73      | 10,054.00             | 2,061.59     | 1,591.46     | 2,450.36                | 0.00                  | 0.00                 | 0.00                |  |
| 12,400.00                                | 90.00           | 359.73      | 10,054.00             | 2,161.59     | 1,590.99     | 2,545.39                | 0.00                  | 0.00                 | 0.00                |  |
| 12,500.00                                | 90.00           | 359.73      | 10,054.00             | 2,261.59     | 1,590.52     | 2,640.43                | 0.00                  | 0.00                 | 0.00                |  |
| 12,600.00                                | 90.00           | 359.73      | 10,054.00             | 2,361.59     | 1,590.05     | 2,735.46                | 0.00                  | 0.00                 | 0.00                |  |
| 12,700.00                                | 90.00           | 359.73      | 10,054.00             | 2,461.59     | 1,589.58     | 2,830.50                | 0.00                  | 0.00                 | 0.00                |  |
| 12,800.00                                | 90.00           | 359.73      | 10,054.00             | 2,561.59     | 1,589.11     | 2,925.53                | 0.00                  | 0.00                 | 0.00                |  |
| 12,900.00                                | 90.00           | 359.73      | 10,054.00             | 2,661.58     | 1,588.63     | 3,020.56                | 0.00                  | 0.00                 | 0.00                |  |
| 13,000.00                                | 90.00           | 359.73      | 10,054.00             | 2,761.58     | 1,588.16     | 3,115.60                | 0.00                  | 0.00                 | 0.00                |  |
| 13,100.00                                | 90.00           | 359.73      | 10,054.00             | 2,861.58     | 1,587.69     | 3,210.63                | 0.00                  | 0.00                 | 0.00                |  |
| 13,200.00                                | 90.00           | 359.73      | 10,054.00             | 2,961.58     | 1,587.22     | 3,305.67                | 0.00                  | 0.00                 | 0.00                |  |
| 13,300.00                                | 90.00           | 359.73      | 10,054.00             | 3,061.58     | 1,586.75     | 3,400.70                | 0.00                  | 0.00                 | 0.00                |  |
| 13,400.00                                | 90.00           | 359.73      | 10,054.00             | 3,161.58     | 1,586.28     | 3,495.74                | 0.00                  | 0.00                 | 0.00                |  |
| 13,500.00                                | 90.00           | 359.73      | 10,054.00             | 3,261.58     | 1,585.81     | 3,590.77                | 0.00                  | 0.00                 | 0.00                |  |
| 13,600.00                                | 90.00           | 359.73      | 10,054.00             | 3,361.58     | 1,585.34     | 3,685.80                | 0.00                  | 0.00                 | 0.00                |  |
| 13,700.00                                | 90.00           | 359.73      | 10,054.00             | 3,461.58     | 1,584.86     | 3,780.84                | 0.00                  | 0.00                 | 0.00                |  |
| 13,800.00                                | 90.00           | 359.73      | 10,054.00             | 3,561.57     | 1,584.39     | 3,875.87                | 0.00                  | 0.00                 | 0.00                |  |
| 13,900.00                                | 90.00           | 359.73      | 10,054.00             | 3,661.57     | 1,583.92     | 3,970.91                | 0.00                  | 0.00                 | 0.00                |  |
| 14,000.00                                | 90.00           | 359.73      | 10,054.00             | 3,761.57     | 1,583.45     | 4,065.94                | 0.00                  | 0.00                 | 0.00                |  |
| 14,100.00                                | 90.00           | 359.73      | 10,054.00             | 3,861.57     | 1,582.98     | 4,160.98                | 0.00                  | 0.00                 | 0.00                |  |
| 14,200.00                                | 90.00           | 359.73      | 10,054.00             | 3,961.57     | 1,582.51     | 4,256.01                | 0.00                  | 0.00                 | 0.00                |  |
| 14,300.00                                | 90.00           | 359.73      | 10,054.00             | 4,061.57     | 1,582.04     | 4,351.04                | 0.00                  | 0.00                 | 0.00                |  |
| 14,400.00                                | 90.00           | 359.73      | 10,054.00             | 4,161.57     | 1,581.57     | 4,446.08                | 0.00                  | 0.00                 | 0.00                |  |
| 14,500.00                                | 90.00           | 359.73      | 10,054.00             | 4,261.57     | 1,581.09     | 4,541.11                | 0.00                  | 0.00                 | 0.00                |  |
| 14,600.00                                | 90.00           | 359.73      | 10,054.00             | 4,361.57     | 1,580.62     | 4,636.15                | 0.00                  | 0.00                 | 0.00                |  |
| 14,700.00                                | 90.00           | 359.73      | 10,054.00             | 4,461.56     | 1,580.15     | 4,731.18                | 0.00                  | 0.00                 | 0.00                |  |
| 14,800.00                                | 90.00           | 359.73      | 10,054.00             | 4,561.56     | 1,579.68     | 4,826.22                | 0.00                  | 0.00                 | 0.00                |  |
| 14,900.00                                | 90.00           | 359.73      | 10,054.00             | 4,661.56     | 1,579.21     | 4,921.25                | 0.00                  | 0.00                 | 0.00                |  |
| 15,000.00                                | 90.00           | 359.73      | 10,054.00             | 4,761.56     | 1,578.74     | 5,016.28                | 0.00                  | 0.00                 | 0.00                |  |
| 15,085.44                                | 90.00           | 359.73      | 10,054.00             | 4,847.00     | 1,578.34     | 5,097.48                | 0.00                  | 0.00                 | 0.00                |  |
| LM 36 23 30 STATE 708H LTP_100FNL_330FEL |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 15,100.00                                | 90.00           | 359.73      | 10,054.00             | 4,861.56     | 1,578.27     | 5,111.32                | 0.00                  | 0.00                 | 0.00                |  |
| 15,135.44                                | 90.00           | 359.73      | 10,054.00             | 4,897.00     | 1,578.10     | 5,145.00                | 0.00                  | 0.00                 | 0.00                |  |
| LM 36 23 30 STATE 708H PBHL_50FNL_330FEL |                 |             |                       |              |              |                         |                       |                      |                     |  |

## Planning Report

|                  |                                   |                                     |                                                               |
|------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Database:</b> | STRYKER_EDM                       | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Company:</b>  | XTO Energy                        | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Project:</b>  | Eddy County, NM (NAD27) NMEZ Grid | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site:</b>     | Los Medanos 36-23-30 State        | <b>North Reference:</b>             | Grid                                                          |
| <b>Well:</b>     | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Wellbore:</b> | 708H Lateral                      |                                     |                                                               |
| <b>Design:</b>   | Plan #3                           |                                     |                                                               |

| Design Targets                                                                                                                       |                  |                 |               |                 |                 |                    |                   |                                           |           |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------|-----------|
| Target Name<br>- hit/miss target<br>- Shape                                                                                          | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude                                  | Longitude |
| LM 36 23 30 STATE 708<br>- plan hits target center<br>- Point                                                                        | 0.00             | 0.00            | 0.00          | 0.00            | 0.00            | 456,854.90         | 655,165.20        | 2° 15' 18.05017754 N 3° 49' 53.04173457 W |           |
| LM 36 23 30 STATE 708<br>- plan misses target center by 0.06usft at 9605.83usft MD (9470.58 TVD, -286.05 N, 1498.81 E)<br>- Point    | 0.00             | 0.01            | 9,470.57      | -286.05         | 1,498.87        | 456,568.85         | 656,664.07        | 2° 15' 15.14975760 N 3° 49' 35.60312640 W |           |
| LM 36 23 30 STATE 708<br>- plan hits target center<br>- Point                                                                        | 0.00             | 0.01            | 10,045.16     | 185.99          | 1,598.73        | 457,040.89         | 656,763.93        | 2° 15' 19.81637344 N 3° 49' 34.41430289 W |           |
| LM 36 23 30 STATE 708<br>- plan hits target center<br>- Point                                                                        | 0.00             | 0.01            | 10,054.00     | 287.05          | 1,599.82        | 457,141.95         | 656,765.02        | 2° 15' 20.81640661 N 3° 49' 34.39605063 W |           |
| LM 36 23 30 STATE 708<br>- plan misses target center by 202.49usft at 10100.00usft MD (9905.50 TVD, -100.48 N, 1575.25 E)<br>- Point | 0.00             | 0.00            | 10,054.00     | -235.50         | 1,602.10        | 456,619.40         | 656,767.30        | 2° 15' 15.64517388 N 3° 49' 34.39824411 W |           |
| LM 36 23 30 STATE 708<br>- plan hits target center<br>- Rectangle (sides W100.00 H5,133.00 D0.00)                                    | 0.00             | 0.00            | 10,054.00     | 4,897.00        | 1,578.10        | 461,751.90         | 656,743.30        | 32° 16' 6.43718303 N 3° 49' 34.39534924 W |           |
| LM 36 23 30 STATE 708<br>- plan misses target center by 0.04usft at 15085.44usft MD (10054.00 TVD, 4847.00 N, 1578.34 E)<br>- Point  | 0.00             | 0.00            | 10,054.00     | 4,847.00        | 1,578.30        | 461,701.90         | 656,743.50        | 32° 16' 5.94237747 N 3° 49' 34.39577169 W |           |

| Formations               |                          |                    |           |            |                      |  |
|--------------------------|--------------------------|--------------------|-----------|------------|----------------------|--|
| Measured Depth<br>(usft) | Vertical Depth<br>(usft) | Name               | Lithology | Dip<br>(°) | Dip Direction<br>(°) |  |
| 409.00                   | 409.00                   | Rustler            |           |            |                      |  |
| 489.00                   | 489.00                   | Magenta Dolomite   |           |            |                      |  |
| 604.00                   | 604.00                   | Top Salt           |           |            |                      |  |
| 3,836.87                 | 3,794.00                 | Base Salt          |           |            |                      |  |
| 4,096.02                 | 4,049.00                 | Delaware           |           |            |                      |  |
| 8,029.00                 | 7,919.00                 | Bone Spring        |           |            |                      |  |
| 9,075.76                 | 8,949.00                 | 1st Bone Spring Ss |           |            |                      |  |
| 9,533.08                 | 9,399.00                 | 2nd Bone LM        |           |            |                      |  |
| 9,945.66                 | 9,789.00                 | 2nd Bone Spring Ss |           |            |                      |  |

# Anticollision Report

|                           |                                   |                                     |                                                               |
|---------------------------|-----------------------------------|-------------------------------------|---------------------------------------------------------------|
| <b>Company:</b>           | XTO Energy                        | <b>Local Co-ordinate Reference:</b> | Well LM 36 23 30 State 708H - Slot LM 36 23 30 STATE 708H SHL |
| <b>Project:</b>           | Eddy County, NM (NAD27) NMEZ Grid | <b>TVD Reference:</b>               | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Reference Site:</b>    | Los Medanos 36-23-30 State        | <b>MD Reference:</b>                | 3401+18 @ 3419.00usft (Prec525)                               |
| <b>Site Error:</b>        | 0.00 usft                         | <b>North Reference:</b>             | Grid                                                          |
| <b>Reference Well:</b>    | LM 36 23 30 State 708H            | <b>Survey Calculation Method:</b>   | Minimum Curvature                                             |
| <b>Well Error:</b>        | 0.00 usft                         | <b>Output errors are at</b>         | 2.00 sigma                                                    |
| <b>Reference Wellbore</b> | 708H Lateral                      | <b>Database:</b>                    | STRYKER_EDM                                                   |
| <b>Reference Design:</b>  | Plan #3                           | <b>Offset TVD Reference:</b>        | Offset Datum                                                  |

|                                     |                                                                     |                       |                      |
|-------------------------------------|---------------------------------------------------------------------|-----------------------|----------------------|
| <b>Reference</b>                    | Plan #3                                                             |                       |                      |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                       |                      |
| <b>Interpolation Method:</b>        | MD Interval 50.00usft                                               | <b>Error Model:</b>   | ISCWSA               |
| <b>Depth Range:</b>                 | Unlimited                                                           | <b>Scan Method:</b>   | Closest Approach 3D  |
| <b>Results Limited by:</b>          | Maximum separation factor of 4.00                                   | <b>Error Surface:</b> | Ellipsoid Separation |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          | <b>Casing Method:</b> | Not applied          |

|                            |                  |                          |                  |                                            |
|----------------------------|------------------|--------------------------|------------------|--------------------------------------------|
| <b>Survey Tool Program</b> | <b>Date</b>      | 09/18/19                 |                  |                                            |
| <b>From (usft)</b>         | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b>                         |
| 0.00                       | 15,135.44        | Plan #3 (708H Lateral)   | MWD+IFR1+MS      | OWSG MWD + IFR1 + Multi-Station Correction |

|                                                     |                                        |                                     |                                        |                                         |                          |                |
|-----------------------------------------------------|----------------------------------------|-------------------------------------|----------------------------------------|-----------------------------------------|--------------------------|----------------|
| <b>Summary</b>                                      |                                        |                                     |                                        |                                         |                          |                |
| <b>Site Name</b>                                    | <b>Reference Measured Depth (usft)</b> | <b>Offset Measured Depth (usft)</b> | <b>Distance Between Centres (usft)</b> | <b>Distance Between Ellipses (usft)</b> | <b>Separation Factor</b> | <b>Warning</b> |
| <b>Offset Well - Wellbore - Design</b>              |                                        |                                     |                                        |                                         |                          |                |
| Los Medanos 36-23-30 State                          |                                        |                                     |                                        |                                         |                          |                |
| 23SR30ES36 Offset - 1SH OFFSET - 1SH OFFSET         |                                        |                                     |                                        |                                         |                          | Out of range   |
| LM 36 23 30 State 707H - 707H Lateral - Plan #2     |                                        |                                     |                                        |                                         |                          | Out of range   |
| LOS MEDANOS 36-23-30 702H - 702H - 702H AsDrilled   |                                        |                                     |                                        |                                         |                          | Out of range   |
| LOS MEDANOS 36-23-30 703H - 703H - 703H (AsDrilled  |                                        |                                     |                                        |                                         |                          | Out of range   |
| Los Medanos 36-23-30 State 401H - 401H L1 - 401H L1 |                                        |                                     |                                        |                                         |                          | Out of range   |
| Los Medanos 36-23-30 State 401H - 401H L2_ST - 401H |                                        |                                     |                                        |                                         |                          | Out of range   |
| Los Medanos 36-23-30 State 701H - 701H L1 - 701H L1 |                                        |                                     |                                        |                                         |                          | Out of range   |
| Los Medanos 36-23-30 State 801H - 801H L1 - 801H L1 |                                        |                                     |                                        |                                         |                          | Out of range   |