

Form 3160-3  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>NMNM015302</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator <b>XTO ENERGY INCORPORATED</b>		8. Lease Name and Well No. <b>CORRAL CANYON 4 FEDERAL 104H</b>
3a. Address <b>22777 Springwoods Village Parkway, Spring, TX 77389</b>	3b. Phone No. (include area code) <b>(432) 620-6700</b>	9. API Well No. <b>3001547202</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NENW / 175 FNL / 2130 FWL / LAT 32.151431 / LONG -103.991157</b> At proposed prod. zone <b>LOT 3 / 200 FNL / 2430 FWL / LAT 32.165962 / LONG -103.99022</b>		10. Field and Pool, or Exploratory <b>PURPLE SAGE WOLFCAMP</b>
14. Distance in miles and direction from nearest town or post office* <b>8 miles</b>		11. Sec., T. R. M. or Blk. and Survey or Area <b>SEC 9/T25S/R29E/NMP</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>175 feet</b>		12. County or Parish <b>EDDY</b>
16. No of acres in lease <b>1917.02</b>		13. State <b>NM</b>
17. Spacing Unit dedicated to this well <b>320.0</b>		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>0 feet</b>		20. BLM/BIA Bond No. in file <b>FED: UTB000138</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>2947 feet</b>	22. Approximate date work will start* <b>04/01/2020</b>	23. Estimated duration <b>90 days</b>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification.</li> <li>6. Such other site specific information and/or plans as may be requested by the BLM.</li> </ul> |
|---|---|

25. Signature (Electronic Submission)	Name (Printed/Typed) <b>STEPHANIE RABADUE / Ph: (432) 620-6700</b>	Date <b>01/08/2020</b>
Title <b>Regulatory Coordinator</b>		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) <b>Cody Layton / Ph: (575) 234-5959</b>	Date <b>06/17/2020</b>
Title <b>Assistant Field Manager Lands &amp; Minerals</b>		
Office <b>Carlsbad Field Office</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



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

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

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

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015- 47202	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name Purple Sage; Wolfcamp
<sup>4</sup> Property Code 328260	<sup>5</sup> Property Name CORRAL CANYON 4 FEDERAL	
<sup>7</sup> OGRID No. 005380	<sup>8</sup> Operator Name XTO ENERGY, INC.	<sup>6</sup> Well Number 104H <sup>9</sup> Elevation 2,947'

<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
C	9	25 S	29 E		175	NORTH	2,130	WEST	EDDY

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	4	25 S	29 E		200	NORTH	2,430	WEST	EDDY

<sup>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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.

<sup>16</sup>

LOT 1	-	39.97	ACRES
LOT 2	-	39.91	ACRES
LOT 3	-	39.85	ACRES
LOT 4	-	39.79	ACRES

**SHL (NAD83 NME)**  
Y = 418,994.3  
X = 647,233.5  
LAT. = 32.151431 °N  
LONG. = 103.991157 °W

**LTP (NAD83 NME)**  
Y = 424,151.2  
X = 647,507.4  
LAT. = 32.165605 °N  
LONG. = 103.990219 °W

**FTP (NAD83 NME)**  
Y = 419,500.6  
X = 647,531.6  
LAT. = 32.152820 °N  
LONG. = 103.990189 °W

**BHL (NAD83 NME)**  
Y = 424,281.2  
X = 647,506.7  
LAT. = 32.165962 °N  
LONG. = 103.990220 °W

**CORNER COORDINATES (NAD83 NME)**  
A - Y = 424,471.0 N , X = 646,397.3 E  
B - Y = 421,818.4 N , X = 646,414.5 E  
C - Y = 419,164.6 N , X = 646,431.2 E  
D - Y = 424,483.2 N , X = 647,718.8 E  
E - Y = 421,825.5 N , X = 647,739.0 E  
F - Y = 419,171.8 N , X = 647,759.1 E

**SHL (NAD27 NME)**  
Y = 418,935.6  
X = 606,049.6  
LAT. = 32.151307 °N  
LONG. = 103.990669 °W

**LTP (NAD27 NME)**  
Y = 424,092.4  
X = 606,323.6  
LAT. = 32.165480 °N  
LONG. = 103.989730 °W

**FTP (NAD27 NME)**  
Y = 419,441.8  
X = 606,347.7  
LAT. = 32.152696 °N  
LONG. = 103.989701 °W

**BHL (NAD27 NME)**  
Y = 424,222.4  
X = 606,322.9  
LAT. = 32.165838 °N  
LONG. = 103.989731 °W

**CORNER COORDINATES (NAD27 NME)**  
A - Y = 424,412.1 N , X = 605,213.5 E  
B - Y = 421,759.6 N , X = 605,230.7 E  
C - Y = 419,105.9 N , X = 605,247.3 E  
D - Y = 424,424.4 N , X = 606,535.0 E  
E - Y = 421,766.7 N , X = 606,555.1 E  
F - Y = 419,113.1 N , X = 606,575.2 E

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

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

Stephanie Rabadue 11/22/2019  
Signature Date

Stephanie Rabadue  
Printed Name

stephanie\_rabadue@xtoenergy.com  
E-mail Address

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

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

11-21-2019  
Date of Survey

Signature and Seal of Professional Surveyor:  
  
MARK DILLON HARP 23786  
Certificate Number AR 2018010248

Intent  As Drilled

API #

Operator Name: XTO ENERGY INC	Property Name: Corral Canyon 4 Federal	Well Number 104H
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Kick Off Point (KOP)

UL C	Section 9	Township 25S	Range 29E	Lot	Feet 175'	From N/S NORTH	Feet 2130	From E/W WEST	County EDDY
Latitude 32.151431					Longitude -103.991157				NAD 83

First Take Point (FTP)

UL N	Section 4	Township 25S	Range 29E	Lot	Feet 330	From N/S SOUTH	Feet 2430	From E/W WEST	County EDDY
Latitude 32.152820					Longitude -103.990189				NAD 83

Last Take Point (LTP)

UL	Section 4	Township 25S	Range 29E	Lot 3	Feet 330	From N/S NORTH	Feet 2430	From E/W WEST	County EDDY
Latitude 32.165605					Longitude -103.990219				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?  NO

Is this well an infill well?  YES

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

API #  
30-015-47163

Operator Name: XTO ENERGY INC	Property Name: CORRAL CANYON 4 FEDERAL	Well Number 125H
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## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>XTO Energy, Inc.</b>
<b>LEASE NO.:</b>	<b>NMNM-015302</b>
<b>WELL NAME &amp; NO.:</b>	<b>Corral Canyon 4 Federal 104H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>0175' FNL &amp; 2130' FWL</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>0200' FNL &amp; 2430' FWL Sec. 04, T. 25 S., R. 29 E.</b>
<b>LOCATION:</b>	<b>Section 09, T. 25 S., R. 29 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

**Operator will use a 5M multibowl after setting surface casing. The 12-1/4" intermediate hole section surpasses a 2M rating and a 2M BOP system is NOT approved.**

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

### Medium Cave/Karst

**Possibility of water flows in the Salado and Castile.**

**Possibility of lost circulation in the Rustler, Red Beds, and Delaware.**

## B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **530** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**9-5/8” Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.**

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. DV tool must be 50 feet below previous shoe and minimum of 200 feet above current shoe. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool:
    - Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
  - b. Second stage above DV tool:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

### **C. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
4. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
5. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
6. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. A variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer.
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
  - g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**JAM 06152020**

APD ID: 10400052827

Submission Date: 01/08/2020

Highlighted data reflects the most recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 4 FEDERAL

Well Number: 104H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
620380	PERMIAN	2947	0	0	OTHER : Quaternary	NONE	N
620381	RUSTLER	2298	649	649	SILTSTONE	USEABLE WATER	N
620378	TOP SALT	2235	712	712	SALT	NONE	N
620375	BASE OF SALT	170	2777	2777	SALT	NONE	N
620382	DELAWARE	-19	2966	2966	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620383	BONE SPRING	-3790	6737	6737	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620379	BONE SPRING 1ST	-4641	7588	7588	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620376	BONE SPRING 2ND	-4987	7934	7934	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620385	BONE SPRING 3RD	-5786	8733	8733	SANDSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : produced water	N
620386	WOLFCAMP	-7114	10061	10061	SHALE	NATURAL GAS, OIL, OTHER, USEABLE WATER : produced water	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 530

**Equipment:** The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4 minimum 2M Hydril.

**Requesting Variance?** YES

**Variance request:** A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

**Testing Procedure:** All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure or 1500psi, whichever is greater. All BOP tests will include a low pressure test as per BLM regulations. The 2M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** CORRAL CANYON 4 FEDERAL

**Well Number:** 104H

**Choke Diagram Attachment:**

CC\_4\_Fed\_2MCM\_20191227082404.pdf

**BOP Diagram Attachment:**

CC\_4\_Fed\_2MBOP\_20191227082412.pdf

**Pressure Rating (PSI):** 5M

**Rating Depth:** 9997

**Equipment:** The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP.

**Requesting Variance?** YES

**Variance request:** A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint. Permanent Wellhead – GE RSH Multibowl System A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange Wellhead will be installed by manufacturer's representatives. Manufacturer will monitor welding process to ensure appropriate temperature of seal. Operator will test the 9-5/8" casing per BLM Onshore Order 2 Wellhead Manufacturer representative will not be present for BOP test plug installation

**Testing Procedure:** All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8 5M bradenhead and flange, the BOP test will be limited to 000 psi. When nipping up on the 9-5/8, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

**Choke Diagram Attachment:**

CC\_4\_Fed\_5MCM\_20191227082429.pdf

**BOP Diagram Attachment:**

CC\_4\_Fed\_5MBOP\_20191227082435.pdf

**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	530	0	530	2947	2417	530	J-55	54.5	ST&C	4.66	1.36	DRY	23.37	DRY	23.37
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	6710	0	6710		-3763	6710	J-55	40	LT&C	1.26	1.11	DRY	2.71	DRY	2.71
3	PRODUCTION	8.75	5.5	NEW	API	N	0	15123	0	9997		-7050	15123	P-110	17	BUTT	1.3	1.01	DRY	2.71	DRY	2.71

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** CORRAL CANYON 4 FEDERAL

**Well Number:** 104H

### Casing Attachments

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**Casing ID:** 1            **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

CC\_4\_Fed\_104H\_Csg\_20191227083758.pdf

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**Casing ID:** 2            **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

CC\_4\_Fed\_104H\_Csg\_20191227083808.pdf

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**Casing ID:** 3            **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

CC\_4\_Fed\_104H\_Csg\_20191227083822.pdf

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## Section 4 - Cement

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** CORRAL CANYON 4 FEDERAL

**Well Number:** 104H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	530	540	1.35	14.8	729	100	Halcem-C	2% CaCl

INTERMEDIATE	Lead	630	0	630	130	1.35	12.9	175.5	100	Halcem-C	2% CaCl
--------------	------	-----	---	-----	-----	------	------	-------	-----	----------	---------

INTERMEDIATE	Lead	630	630	6710	1900	1.88	12.9	3572	100	HalCem-C	2% CaCl
INTERMEDIATE	Tail				470	14.8	1.33	625.1	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	1512 3	2770	1.61	13.2	4459. 7	30	NeoCem	None

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

**Description of the equipment for the circulating system in accordance with Onshore Order #2:**

**Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

**Describe what will be on location to control well or mitigate other conditions:** The necessary mud products for weight addition a fluid loss control will be on location at all times.

**Describe the mud monitoring system utilized:** A Pason or Totco will be used to detect changes in loss or gain of mud volume.

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
6710	9997	OIL-BASED MUD	10.7	11							A Pason or Totco will be used to detect changes in loss or

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** CORRAL CANYON 4 FEDERAL

**Well Number:** 104H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											gain of mud volume. A mud test will be performed every 24 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
0	530	OTHER : FW/Native	8.4	8.8							A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
530	6710	OTHER : Brine/Gel Sweeps	9.5	10.2							A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hrs to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.

### Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Mud logging Unit (2 man) on below intermediate casing. Catch 20' samples fr/6710' to TD

**List of open and cased hole logs run in the well:**

CEMENT BOND LOG,COMPENSATED NEUTRON LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MUD LOG/GEOLOGIC LITHOLOGY LOG,

**Coring operation description for the well:**

No coring will take place on this well.

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** CORRAL CANYON 4 FEDERAL

**Well Number:** 104H

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5562

**Anticipated Surface Pressure:** 3362

**Anticipated Bottom Hole Temperature(F):** 150

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

CC\_4\_Fed\_H2S\_D\_P2\_20191227082720.pdf

CC\_4\_Fed\_H2S\_Plan\_20191227073621.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

CC\_4\_Fed\_104H\_DD\_20191227084007.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

CC\_4\_Fed\_GCP\_20191227073642.pdf

**Other Variance attachment:**

CC\_4\_Fed\_13.38x5.5MBS\_20191227073703.pdf

CC\_4\_Fed\_FH\_20191227073654.pdf

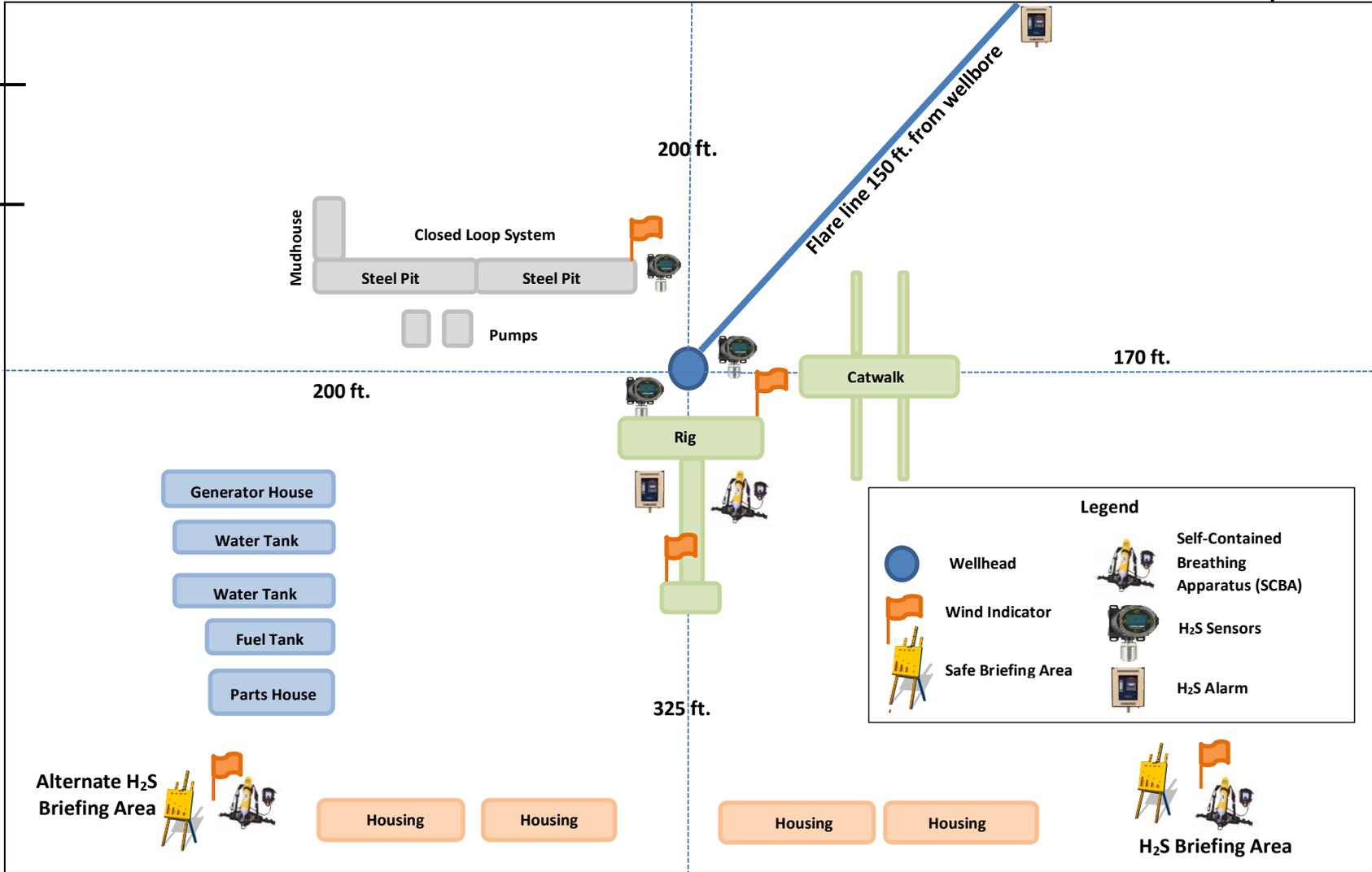


Prevailing Winds  
Direction SW

# H<sub>2</sub>S Briefing Areas and Alarm Locations

Access Road

Secondary  
Egress





## **HYDROGEN SULFIDE (H<sub>2</sub>S) CONTINGENCY PLAN**

### **Assumed 100 ppm ROE = 3000'**

100 ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

#### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - o Detection of H<sub>2</sub>S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

#### **Ignition of Gas source**

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

#### **Characteristics of H<sub>2</sub>S and SO<sub>2</sub>**

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

#### **Contacting Authorities**

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

## CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220  
Carlsbad, NM

575-887-7329

### **XTO PERSONNEL:**

Kendall Decker, Drilling Manager	903-521-6477
Milton Turman, Drilling Superintendent	817-524-5107
Jeff Raines, Construction Foreman	432-557-3159
Toady Sanders, EH & S Manager	903-520-1601
Wes McSpadden, Production Foreman	575-441-1147

### **SHERIFF DEPARTMENTS:**

Eddy County	575-887-7551
Lea County	575-396-3611

### **NEW MEXICO STATE POLICE:**

575-392-5588

### **FIRE DEPARTMENTS:**

Carlsbad	911
Eunice	575-885-2111
Hobbs	575-394-2111
Jal	575-397-9308
Lovington	575-395-2221
	575-396-2359

### **HOSPITALS:**

Carlsbad Medical Emergency	911
Eunice Medical Emergency	575-885-2111
Hobbs Medical Emergency	575-394-2112
Jal Medical Emergency	575-397-9308
Lovington Medical Emergency	575-395-2221
	575-396-2359

### **AGENT NOTIFICATIONS:**

#### **For Lea County:**

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

#### **For Eddy County:**

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283



## **XTO Energy**

**Eddy County, NM (NAD-27)**

**Corral Canyon 4 Fed**

**#104H**

**OH**

**Plan: PERMIT**

# **Standard Planning Report**

**20 November, 2019**



Project: Eddy County, NM (NAD-27)  
 Site: Corral Canyon 4 Fed  
 Well: #104H  
 Wellbore: OH  
 Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)  
 Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: New Mexico East 3001  
 System Datum: Mean Sea Level

WELL DETAILS: #104H

Rig Name:		RKB = 25' @ 2972.00usft		Ground Level: 2947.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	418935.60	606049.60	32.1513068	-103.9906690

DESIGN TARGET DETAILS

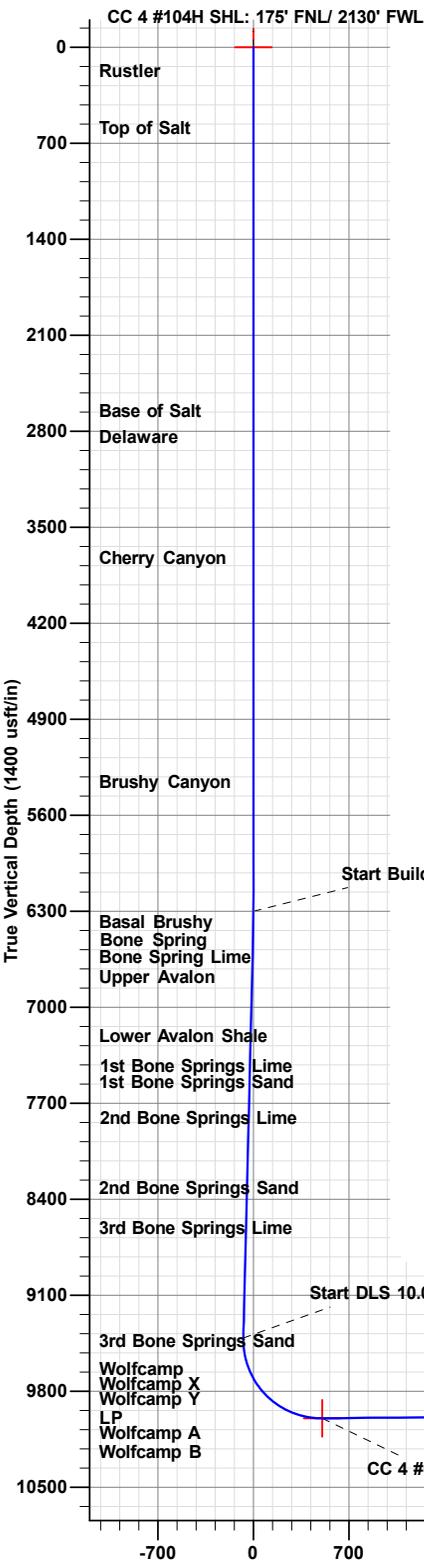
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CC 4 #104H SHL: 175' FNL/ 2130' FWL	0.00	0.00	0.00	418935.60	606049.60	32.1513068	-103.9906690
CC 4 #104H PBHL: 200' FNL/ 2430' FWL	9955.28	5286.80	273.30	424222.40	606322.90	32.1658377	-103.9897314
CC 4 #104H LTP	9956.41	5156.80	274.00	424092.40	606323.60	32.1654803	-103.9897305
CC 4 #104H FTP	9997.00	506.20	298.10	419441.80	606347.70	32.1526958	-103.9897006

SECTION DETAILS

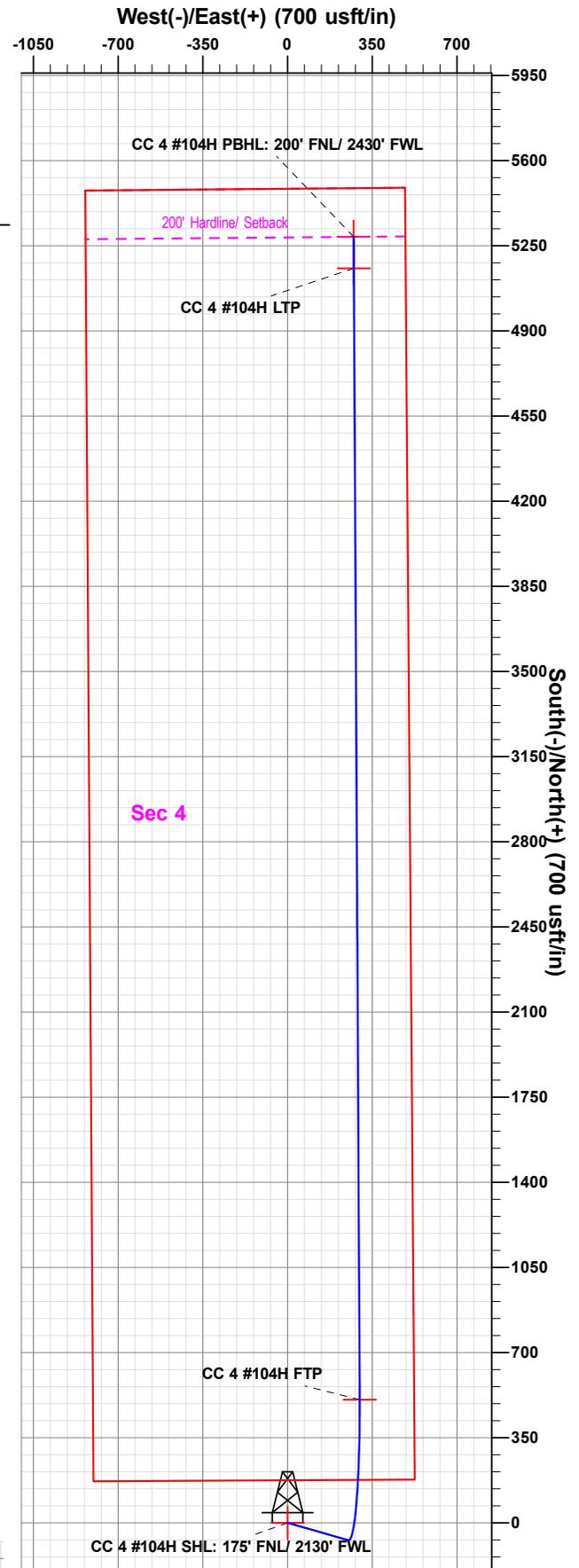
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00
3	6550.21	5.00	105.94	6549.89	-3.00	10.50	2.00	105.94	-3.05
4	9423.46	5.00	105.94	9412.19	-71.82	251.50	0.00	0.00	-73.13
5	10342.42	90.50	359.70	9997.00	506.20	298.10	10.00	-106.13	504.63
6	14993.26	90.50	359.70	9956.41	5156.80	273.97	0.00	0.00	5155.29
7	15123.26	90.50	359.70	9955.28	5286.80	273.30	0.00	0.00	5285.30

FORMATION TOP DETAILS

TVDPATH	FORMATION
246.00	Rustler
661.00	Top of Salt
2726.00	Base of Salt
2915.00	Delaware
3796.00	Cherry Canyon
5428.00	Brushy Canyon
6446.00	Basal Brushy
6686.00	Bone Spring
6708.00	Bone Spring Lime
6854.00	Upper Avalon
7284.00	Lower Avalon Shale
7537.00	1st Bone Springs Lime
7616.00	1st Bone Springs Sand
7883.00	2nd Bone Springs Lime
8386.00	2nd Bone Springs Sand
8682.00	3rd Bone Springs Lime
9505.00	3rd Bone Springs Sand
9876.00	Wolfcamp
9890.00	Wolfcamp X
9967.00	Wolfcamp Y
9997.00	LP



Vertical Section at 359.70° (1400 usft/in)



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the user.

Plan: PERMIT (#104H/OH)

Created By: Matthew May Date: 12:33, November 20 2019



## Planning Report

<b>Database:</b>	EDM 5000.1.13 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #104H
<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Project:</b>	Eddy County, NM (NAD-27)	<b>MD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Site:</b>	Corral Canyon 4 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#104H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

<b>Project</b> Eddy County, NM (NAD-27)			
<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> Corral Canyon 4 Fed			
<b>Site Position:</b>		<b>Northing:</b>	418,905.60 usft
<b>From:</b>	Map	<b>Easting:</b>	606,049.80 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32.1512244
		<b>Longitude:</b>	-103.9906686
		<b>Grid Convergence:</b>	0.18 °

<b>Well</b> #104H			
<b>Well Position</b>	<b>+N/-S</b>	30.00 usft	<b>Northing:</b> 418,935.60 usft
	<b>+E/-W</b>	-0.20 usft	<b>Easting:</b> 606,049.60 usft
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b> 0.00 usft
			<b>Latitude:</b> 32.1513069
			<b>Longitude:</b> -103.9906690
			<b>Ground Level:</b> 2,947.00 usft

<b>Wellbore</b> OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/20/19	6.88	59.90	47,605

<b>Design</b> PERMIT				
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.70

<b>Plan Sections</b>											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00		
6,550.21	5.00	105.94	6,549.89	-3.00	10.50	2.00	2.00	0.00	105.94		
9,423.46	5.00	105.94	9,412.19	-71.82	251.50	0.00	0.00	0.00	0.00		
10,342.42	90.50	359.70	9,997.00	506.20	298.10	10.00	9.30	-11.56	-106.13	CC 4 #104H FTP	
14,993.26	90.50	359.70	9,956.41	5,156.80	273.97	0.00	0.00	0.00	0.00	CC 4 #104H LTP	
15,123.26	90.50	359.70	9,955.28	5,286.80	273.30	0.00	0.00	0.00	0.00	CC 4 #104H PBHL:	



Planning Report

<b>Database:</b>	EDM 5000.1.13 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #104H
<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Project:</b>	Eddy County, NM (NAD-27)	<b>MD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Site:</b>	Corral Canyon 4 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#104H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
246.00	0.00	0.00	246.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Rustler</b>									
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
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
661.00	0.00	0.00	661.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Top of Salt</b>									
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,726.00	0.00	0.00	2,726.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Base of Salt</b>									
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,915.00	0.00	0.00	2,915.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Delaware</b>									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,796.00	0.00	0.00	3,796.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Cherry Canyon</b>									
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.1.13 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #104H
<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Project:</b>	Eddy County, NM (NAD-27)	<b>MD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Site:</b>	Corral Canyon 4 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#104H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,428.00	0.00	0.00	5,428.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Brushy Canyon</b>									
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	2.00	105.94	6,399.98	-0.48	1.68	-0.49	2.00	2.00	0.00
6,446.06	2.92	105.94	6,446.00	-1.02	3.58	-1.04	2.00	2.00	0.00
<b>Basal Brushy</b>									
6,500.00	4.00	105.94	6,499.84	-1.92	6.71	-1.95	2.00	2.00	0.00
6,550.21	5.00	105.94	6,549.89	-3.00	10.50	-3.05	2.00	2.00	0.00
6,600.00	5.00	105.94	6,599.49	-4.19	14.68	-4.27	0.00	0.00	0.00
6,686.84	5.00	105.94	6,686.00	-6.27	21.96	-6.39	0.00	0.00	0.00
<b>Bone Spring</b>									
6,700.00	5.00	105.94	6,699.11	-6.59	23.06	-6.71	0.00	0.00	0.00
6,708.92	5.00	105.94	6,708.00	-6.80	23.81	-6.92	0.00	0.00	0.00
<b>Bone Spring Lime</b>									
6,800.00	5.00	105.94	6,798.73	-8.98	31.45	-9.15	0.00	0.00	0.00
6,855.48	5.00	105.94	6,854.00	-10.31	36.11	-10.50	0.00	0.00	0.00
<b>Upper Avalon</b>									
6,900.00	5.00	105.94	6,898.35	-11.38	39.84	-11.59	0.00	0.00	0.00
7,000.00	5.00	105.94	6,997.97	-13.77	48.23	-14.02	0.00	0.00	0.00
7,100.00	5.00	105.94	7,097.59	-16.17	56.61	-16.46	0.00	0.00	0.00
7,200.00	5.00	105.94	7,197.21	-18.56	65.00	-18.90	0.00	0.00	0.00
7,287.13	5.00	105.94	7,284.00	-20.65	72.31	-21.03	0.00	0.00	0.00
<b>Lower Avalon Shale</b>									
7,300.00	5.00	105.94	7,296.82	-20.96	73.39	-21.34	0.00	0.00	0.00
7,400.00	5.00	105.94	7,396.44	-23.35	81.78	-23.78	0.00	0.00	0.00
7,500.00	5.00	105.94	7,496.06	-25.75	90.16	-26.22	0.00	0.00	0.00
7,541.10	5.00	105.94	7,537.00	-26.73	93.61	-27.22	0.00	0.00	0.00
<b>1st Bone Springs Lime</b>									
7,600.00	5.00	105.94	7,595.68	-28.14	98.55	-28.66	0.00	0.00	0.00
7,620.40	5.00	105.94	7,616.00	-28.63	100.26	-29.16	0.00	0.00	0.00
<b>1st Bone Springs Sand</b>									
7,700.00	5.00	105.94	7,695.30	-30.54	106.94	-31.10	0.00	0.00	0.00
7,800.00	5.00	105.94	7,794.92	-32.93	115.33	-33.54	0.00	0.00	0.00
7,888.42	5.00	105.94	7,883.00	-35.05	122.74	-35.69	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.1.13 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #104H
<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Project:</b>	Eddy County, NM (NAD-27)	<b>MD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Site:</b>	Corral Canyon 4 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#104H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>2nd Bone Springs Lime</b>									
7,900.00	5.00	105.94	7,894.54	-35.33	123.72	-35.98	0.00	0.00	0.00
8,000.00	5.00	105.94	7,994.16	-37.72	132.10	-38.42	0.00	0.00	0.00
8,100.00	5.00	105.94	8,093.77	-40.12	140.49	-40.85	0.00	0.00	0.00
8,200.00	5.00	105.94	8,193.39	-42.51	148.88	-43.29	0.00	0.00	0.00
8,300.00	5.00	105.94	8,293.01	-44.91	157.27	-45.73	0.00	0.00	0.00
8,393.34	5.00	105.94	8,386.00	-47.15	165.10	-48.01	0.00	0.00	0.00
<b>2nd Bone Springs Sand</b>									
8,400.00	5.00	105.94	8,392.63	-47.30	165.65	-48.17	0.00	0.00	0.00
8,500.00	5.00	105.94	8,492.25	-49.70	174.04	-50.61	0.00	0.00	0.00
8,600.00	5.00	105.94	8,591.87	-52.10	182.43	-53.05	0.00	0.00	0.00
8,690.48	5.00	105.94	8,682.00	-54.26	190.02	-55.26	0.00	0.00	0.00
<b>3rd Bone Springs Lime</b>									
8,700.00	5.00	105.94	8,691.49	-54.49	190.82	-55.49	0.00	0.00	0.00
8,800.00	5.00	105.94	8,791.11	-56.89	199.20	-57.93	0.00	0.00	0.00
8,900.00	5.00	105.94	8,890.73	-59.28	207.59	-60.37	0.00	0.00	0.00
9,000.00	5.00	105.94	8,990.34	-61.68	215.98	-62.81	0.00	0.00	0.00
9,100.00	5.00	105.94	9,089.96	-64.07	224.37	-65.25	0.00	0.00	0.00
9,200.00	5.00	105.94	9,189.58	-66.47	232.75	-67.68	0.00	0.00	0.00
9,300.00	5.00	105.94	9,289.20	-68.86	241.14	-70.12	0.00	0.00	0.00
9,400.00	5.00	105.94	9,388.82	-71.26	249.53	-72.56	0.00	0.00	0.00
9,423.46	5.00	105.94	9,412.19	-71.82	251.50	-73.13	0.00	0.00	0.00
9,450.00	4.97	75.04	9,438.63	-71.84	253.72	-73.17	10.00	-0.13	-116.43
9,500.00	7.89	37.12	9,488.34	-68.54	257.89	-69.89	10.00	5.84	-75.83
9,516.85	9.28	30.72	9,505.00	-66.45	259.28	-67.81	10.00	8.26	-37.95
<b>3rd Bone Springs Sand</b>									
9,550.00	12.23	22.57	9,537.56	-60.91	261.99	-62.28	10.00	8.91	-24.60
9,600.00	16.94	15.77	9,585.94	-49.01	266.01	-50.40	10.00	9.41	-13.59
9,650.00	21.77	11.90	9,633.10	-32.91	269.90	-34.33	10.00	9.67	-7.75
9,700.00	26.67	9.38	9,678.69	-12.76	273.64	-14.19	10.00	9.79	-5.03
9,750.00	31.59	7.60	9,722.35	11.31	277.21	9.86	10.00	9.85	-3.56
9,800.00	36.53	6.26	9,763.76	39.10	280.57	37.63	10.00	9.89	-2.68
9,850.00	41.49	5.20	9,802.60	70.41	283.69	68.92	10.00	9.91	-2.12
9,900.00	46.45	4.33	9,838.58	104.99	286.57	103.49	10.00	9.93	-1.74
9,950.00	51.42	3.59	9,871.41	142.59	289.16	141.07	10.00	9.94	-1.48
9,957.42	52.16	3.49	9,876.00	148.41	289.52	146.89	10.00	9.94	-1.36
<b>Wolfcamp</b>									
9,980.86	54.49	3.18	9,890.00	167.18	290.61	165.65	10.00	9.95	-1.30
<b>Wolfcamp X</b>									
10,000.00	56.39	2.95	9,900.86	182.91	291.46	181.39	10.00	9.95	-1.24
10,050.00	61.37	2.38	9,926.69	225.66	293.44	224.12	10.00	9.95	-1.14
10,100.00	66.35	1.86	9,948.71	270.50	295.09	268.95	10.00	9.96	-1.04
10,150.00	71.33	1.37	9,966.75	317.10	296.40	315.54	10.00	9.96	-0.96
10,150.77	71.41	1.37	9,967.00	317.83	296.42	316.27	10.00	9.96	-0.93
<b>Wolfcamp Y</b>									
10,200.00	76.31	0.92	9,980.68	365.09	297.36	363.53	10.00	9.96	-0.91
10,250.00	81.29	0.48	9,990.39	414.12	297.95	412.55	10.00	9.96	-0.87
10,300.00	86.27	0.06	9,995.81	463.81	298.19	462.24	10.00	9.96	-0.85
10,342.42	90.50	359.70	9,997.00	506.20	298.10	504.63	10.00	9.96	-0.84
<b>LP</b>									
10,400.00	90.50	359.70	9,996.50	563.78	297.80	562.21	0.00	0.00	0.00
10,500.00	90.50	359.70	9,995.63	663.77	297.28	662.21	0.00	0.00	0.00
10,600.00	90.50	359.70	9,994.75	763.77	296.76	762.21	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.1.13 Single User Db	<b>Local Co-ordinate Reference:</b>	Well #104H
<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Project:</b>	Eddy County, NM (NAD-27)	<b>MD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Site:</b>	Corral Canyon 4 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#104H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	90.50	359.70	9,993.88	863.76	296.25	862.20	0.00	0.00	0.00
10,800.00	90.50	359.70	9,993.01	963.76	295.73	962.20	0.00	0.00	0.00
10,900.00	90.50	359.70	9,992.13	1,063.75	295.21	1,062.19	0.00	0.00	0.00
11,000.00	90.50	359.70	9,991.26	1,163.75	294.69	1,162.19	0.00	0.00	0.00
11,100.00	90.50	359.70	9,990.39	1,263.74	294.17	1,262.19	0.00	0.00	0.00
11,200.00	90.50	359.70	9,989.52	1,363.74	293.65	1,362.18	0.00	0.00	0.00
11,300.00	90.50	359.70	9,988.64	1,463.73	293.13	1,462.18	0.00	0.00	0.00
11,400.00	90.50	359.70	9,987.77	1,563.73	292.61	1,562.17	0.00	0.00	0.00
11,500.00	90.50	359.70	9,986.90	1,663.72	292.10	1,662.17	0.00	0.00	0.00
11,600.00	90.50	359.70	9,986.03	1,763.72	291.58	1,762.17	0.00	0.00	0.00
11,700.00	90.50	359.70	9,985.15	1,863.71	291.06	1,862.16	0.00	0.00	0.00
11,800.00	90.50	359.70	9,984.28	1,963.71	290.54	1,962.16	0.00	0.00	0.00
11,900.00	90.50	359.70	9,983.41	2,063.70	290.02	2,062.16	0.00	0.00	0.00
12,000.00	90.50	359.70	9,982.54	2,163.70	289.50	2,162.15	0.00	0.00	0.00
12,100.00	90.50	359.70	9,981.66	2,263.69	288.98	2,262.15	0.00	0.00	0.00
12,200.00	90.50	359.70	9,980.79	2,363.69	288.46	2,362.14	0.00	0.00	0.00
12,300.00	90.50	359.70	9,979.92	2,463.68	287.95	2,462.14	0.00	0.00	0.00
12,400.00	90.50	359.70	9,979.04	2,563.68	287.43	2,562.14	0.00	0.00	0.00
12,500.00	90.50	359.70	9,978.17	2,663.67	286.91	2,662.13	0.00	0.00	0.00
12,600.00	90.50	359.70	9,977.30	2,763.67	286.39	2,762.13	0.00	0.00	0.00
12,700.00	90.50	359.70	9,976.43	2,863.66	285.87	2,862.13	0.00	0.00	0.00
12,800.00	90.50	359.70	9,975.55	2,963.66	285.35	2,962.12	0.00	0.00	0.00
12,900.00	90.50	359.70	9,974.68	3,063.65	284.83	3,062.12	0.00	0.00	0.00
13,000.00	90.50	359.70	9,973.81	3,163.65	284.31	3,162.11	0.00	0.00	0.00
13,100.00	90.50	359.70	9,972.94	3,263.64	283.80	3,262.11	0.00	0.00	0.00
13,200.00	90.50	359.70	9,972.06	3,363.64	283.28	3,362.11	0.00	0.00	0.00
13,300.00	90.50	359.70	9,971.19	3,463.63	282.76	3,462.10	0.00	0.00	0.00
13,400.00	90.50	359.70	9,970.32	3,563.63	282.24	3,562.10	0.00	0.00	0.00
13,500.00	90.50	359.70	9,969.45	3,663.62	281.72	3,662.09	0.00	0.00	0.00
13,600.00	90.50	359.70	9,968.57	3,763.61	281.20	3,762.09	0.00	0.00	0.00
13,700.00	90.50	359.70	9,967.70	3,863.61	280.68	3,862.09	0.00	0.00	0.00
13,800.00	90.50	359.70	9,966.83	3,963.60	280.16	3,962.08	0.00	0.00	0.00
13,900.00	90.50	359.70	9,965.95	4,063.60	279.65	4,062.08	0.00	0.00	0.00
14,000.00	90.50	359.70	9,965.08	4,163.59	279.13	4,162.08	0.00	0.00	0.00
14,100.00	90.50	359.70	9,964.21	4,263.59	278.61	4,262.07	0.00	0.00	0.00
14,200.00	90.50	359.70	9,963.34	4,363.58	278.09	4,362.07	0.00	0.00	0.00
14,300.00	90.50	359.70	9,962.46	4,463.58	277.57	4,462.06	0.00	0.00	0.00
14,400.00	90.50	359.70	9,961.59	4,563.57	277.05	4,562.06	0.00	0.00	0.00
14,500.00	90.50	359.70	9,960.72	4,663.57	276.53	4,662.06	0.00	0.00	0.00
14,600.00	90.50	359.70	9,959.85	4,763.56	276.01	4,762.05	0.00	0.00	0.00
14,700.00	90.50	359.70	9,958.97	4,863.56	275.50	4,862.05	0.00	0.00	0.00
14,800.00	90.50	359.70	9,958.10	4,963.55	274.98	4,962.05	0.00	0.00	0.00
14,900.00	90.50	359.70	9,957.23	5,063.55	274.46	5,062.04	0.00	0.00	0.00
14,993.26	90.50	359.70	9,956.41	5,156.80	273.97	5,155.29	0.00	0.00	0.00
15,000.00	90.50	359.70	9,956.36	5,163.54	273.94	5,162.04	0.00	0.00	0.00
15,100.00	90.50	359.70	9,955.48	5,263.54	273.42	5,262.03	0.00	0.00	0.00
15,123.26	90.50	359.70	9,955.28	5,286.80	273.30	5,285.30	0.00	0.00	0.00



Planning Report

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<b>Company:</b>	XTO Energy	<b>TVD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Project:</b>	Eddy County, NM (NAD-27)	<b>MD Reference:</b>	RKB = 25' @ 2972.00usft
<b>Site:</b>	Corral Canyon 4 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#104H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PERMIT		

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CC 4 #104H SHL: 17ft - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	418,935.60	606,049.60	32.1513069	-103.9906690
CC 4 #104H PBHL: 2ft - plan hits target center - Point	0.00	0.00	9,955.28	5,286.80	273.30	424,222.40	606,322.90	32.1658377	-103.9897314
CC 4 #104H LTP - plan misses target center by 0.03usft at 14993.26usft MD (9956.41 TVD, 5156.80 N, 273.97 E) - Point	0.00	0.00	9,956.41	5,156.80	274.00	424,092.40	606,323.60	32.1654804	-103.9897305
CC 4 #104H FTP - plan hits target center - Point	0.00	0.00	9,997.00	506.20	298.10	419,441.80	606,347.70	32.1526958	-103.9897005

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
246.00	246.00	Rustler			
661.00	661.00	Top of Salt			
2,726.00	2,726.00	Base of Salt			
2,915.00	2,915.00	Delaware			
3,796.00	3,796.00	Cherry Canyon			
5,428.00	5,428.00	Brushy Canyon			
6,446.06	6,446.00	Basal Brushy			
6,686.84	6,686.00	Bone Spring			
6,708.92	6,708.00	Bone Spring Lime			
6,855.48	6,854.00	Upper Avalon			
7,287.13	7,284.00	Lower Avalon Shale			
7,541.10	7,537.00	1st Bone Springs Lime			
7,620.40	7,616.00	1st Bone Springs Sand			
7,888.42	7,883.00	2nd Bone Springs Lime			
8,393.34	8,386.00	2nd Bone Springs Sand			
8,690.48	8,682.00	3rd Bone Springs Lime			
9,516.85	9,505.00	3rd Bone Springs Sand			
9,957.42	9,876.00	Wolfcamp			
9,980.86	9,890.00	Wolfcamp X			
10,150.77	9,967.00	Wolfcamp Y			
10,342.42	9,997.00	LP			

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Original  
to Appropriate  
District Office

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

**GAS CAPTURE PLAN**

Date: 11/22/2019

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 – Name of facility: Corral Canyon Org CTB**

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
Corral Canyon 9-4 Fed 102H		L-9-25S-29E	2112'FSL & 362'FWL	4500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 9-4 Fed 121H		L-9-25S-29E	2081'FSL & 363'FWL	6500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 9-4 Fed 122H		L-9-25S-29E	2051'FSL & 364'FWL	6500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 9-4 Fed 161H		L-9-25S-29E	2021'FS: & 365'FWL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 9-4 Fed 162H		L-9-25S-29E	1991'FSL & 366'FWL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 124H		C-9-25S-29E	145'FNL & 2130'FWL	6500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 104H		C-9-25S-29E	175'FNL & 2130'FWL	4500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 103H		C-9-25S-29E	205'FNL & 2130'FWL	4500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 164H		C-9-25S-29E	235'FNL & 2130'FWL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 163H		C-9-25S-29E	265'FNL & 2130'FWL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 125H		O-4-25S-29E	170'FSL & 2060'FEL	6500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 105H		O-4-25S-29E	170'FSL & 2030'FEL	4500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 126H		O-4-25S-29E	170'FSL & 1980'FEL	6500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 165H		O-4-25S-29E	70'FSL & 2030'FEL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 166H		O-4-25S-29E	70'FSL & 1980'FEL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 108H		P-4-25S-29E	230'FSL & 460'FEL	4500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 127H		P-4-25S-29E	200'FSL & 460'FEL	6500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 107H		P-4-25S-29E	170'FSL & 460'FEL	4500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 168H		P-4-25S-29E	140'FSL & 460'FEL	8500MCF/D	Flared/Sold	CTB Connected to PL
Corral Canyon 4 Federal 167H		P-4-25S-29E	110'FSL & 460'FEL	8500MCF/D	Flared/Sold	CTB Connected to PL

### **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 Enlink and will be connected to Enlink low/high pressure gathering system located in Loving County, Texas. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. XTO Energy, Inc. provides (periodically) to Enlink 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 Enlink have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enlink Processing Plant located in Block 27, Section 4, Loving County, Texas. 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 Enlink 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