Form 3160-3 (June 2015)

UNITED STATES

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

DEPARTMENT OF THE II BUREAU OF LAND MANA	-			5. Lease Serial No. NMNM015302		
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or	r Tribe N	Name
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ O	EENTER ther ngle Zone	Multiple Zone		7. If Unit or CA Agree 8. Lease Name and W CORRAL CANYON	/ell No.	
Name of Operator XTO ENERGY INCORPORATED				9. API Well No. 3001547154		
3a. Address 22777 Springwoods Village Parkway, Spring, TX 77389	3b. Phone 1 (432) 620-	No. (include area cod 6700	e)	10. Field and Pool, or WELCH/null	Explora	atory
4. Location of Well (Report location clearly and in accordance v At surface NENW / 205 FNL / 2130 FWL / LAT 32.151: At proposed prod. zone LOT 3 / 200 FNL / 1590 FWL / L	349 / LONG	G -103.991157	29353	11. Sec., T. R. M. or E SEC 9/T25S/R29E/N		Survey or Area
14. Distance in miles and direction from nearest town or post offi 8 miles	ice*			12. County or Parish EDDY		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	icres in lease	17. Spaci	ng Unit dedicated to thi	s well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 0 feet	19. Proposi	ed Depth / 15130 feet		/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2947 feet	04/01/202		start*	23. Estimated duration 90 days	n	
	24. Atta					
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oi	l and Gas Order No. 1	l, and the I	Hydraulic Fracturing rul	e per 43	CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office 	,	Item 20 above). 5. Operator certific	cation.	ns unless covered by an or an armation and/or plans as n		`
25. Signature (Electronic Submission)		e (<i>Printed/Typed)</i> nanie Rabadue / Pł	n: (432) 62		Date 01/07/2	020
Title Regulatory Coordinator	·					
Approved by (Signature) (Electronic Submission)		e (Printed/Typed) stopher Walls / Ph: (575) 234-		Date 05/22/2	020
Title Petroleum Engineer	Offic Carls	e sbad Field Office				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal	or equitable title to the	nose rights	in the subject lease whi	ch woul	ld entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements of					y depart	tment or agency

APPROVED WITH CONDITIONS **Approval Date: 05/22/2020**

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

320 - 319.64

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

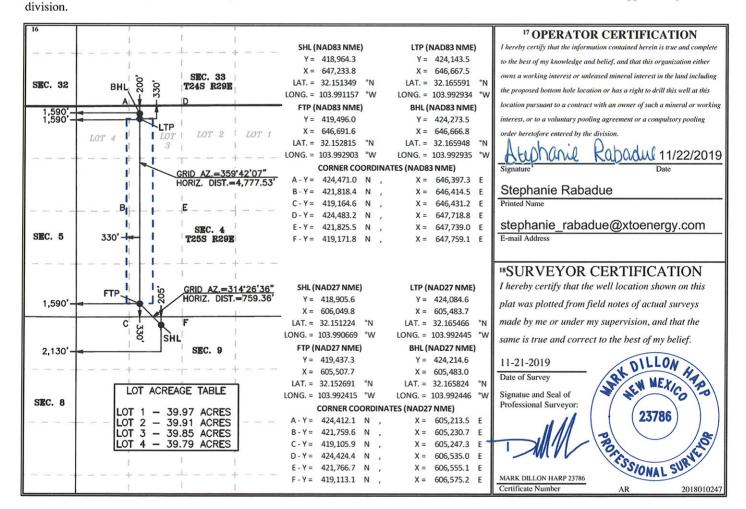
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numb			² Pool Code		³ Pool Name	
30-015-4	47154	98220		Purple Sage; Wolfcamp		
⁴ Property Code			⁵ Pr	operty Name		⁶ Well Number
328260			CORRAL CA	ANYON 4 FEDERAL		103H
7 OGRID No.			8 O _I	perator Name		⁹ Elevation
005380			XTO I	ENERGY, INC.		2,947'
	· · · · · · · · · · · · · · · · · · ·		10 Sur	face 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 205 **NORTH** 2,130 WEST **EDDY** ¹¹ Bottom Hole Location If Different From Surface UL or lot no. North/South line Section Township Range Lot Idn Feet from the Feet from the East/West line County 25 S 29 E 200 **NORTH** 1,590 WEST **EDDY** 12 Dedicated Acres ³ Joint or Infill ⁴ Consolidation Code ¹⁵ Order No.

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



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy, Inc. LEASE NO.: NMNM-015302

WELL NAME & NO.: | Corral Canyon 4 Federal 103H

SURFACE HOLE FOOTAGE: 0205' FNL & 2130 FWL

BOTTOM HOLE FOOTAGE | 0200' FNL & 1590' FWL Sec. 04, T. 25 S., R. 29 E.

LOCATION: Section 09, T. 25 S., R. 29 E., NMPM

COUNTY: | **Eddy County, New Mexico**

COA

H2S	O Yes	• No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	O Low	• Medium	O High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	☐ 4 String Area	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	□ СОМ	☐ 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.

Page 3 of 7

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 CountyCall 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 intergrity 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 05182020

Page 7 of 7

Inten	t	As Dril	led											
API#														
-	rator Nai	me: IIAN OPI	ERATIN	G, LL	С	-	erty N al Ca			eder	al			Well Number 103H
Kick C	Off Point	(KOP)												
UL C	Section 9	Township 25S	Range 29E	Lot	Feet 205'		From N	/S	Feet 213		From	n E/W L	County	
Latitu 32.	ide 151349)			Longitu		157		ı		1		NAD 83	
					_1								1	
First 1	Take Poir	nt (FTP)	Range	Lot	Feet		From N	/c	Feet		Eron	n E/W	County	
N Latitu	4	25S	29E	LOT	330		FSL	/3	159		FWI		EDDY	
	152815	5			-103		903						83	
Last T	ake Poin	t (LTP)												
UL	Section 4	Township 25S	Range 29E	Lot 3	Feet 330	From	n N/S	Feet		From FWL		Count		
Latitu 32 .				<u> </u>	Longitu -103	ıde		100	<u> </u>		•	NAD 83	<u>. </u>	
					1							I		
Is this	: well the	defining v	vell for th	e Hori:	zontal Sr	nacing	· Unit?	Ī,	Yes	7				
15 (1115	wen the	demmig v	ven for th	C 110112	zontai 5	pacing	, Ome:	L	. 00	_				
Is this	well an	infill well?		NO										
	l is yes p ng Unit.	lease prov	ide API if	availab	ole, Opei	rator N	Name a	and v	vell n	umbe	r for l	Definir	ng well fo	r Horizontal
API#														
	rator Nai	me: IIAN OPI	ERATIN	G, LL	С	Prop	erty N	ame	:					Well Number



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

05/27/2020

APD ID: 10400052826

Submission Date: 01/07/2020

Highlighted data reflects the most

recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Type: CONVENTIONAL GAS WELL

Well Number: 103H

Show Final Text

Well Name: CORRAL CANYON 4 FEDERAL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
620366	PERMIAN	2947	0	0	OTHER : Quaternary	NONE	N
620367	RUSTLER	2298	649	649	SILTSTONE	USEABLE WATER	N
620364	TOP SALT	2235	712	712	SALT	NONE	N
620361	BASE OF SALT	170	2777	2777	SALT	NONE	N
620368	DELAWARE	-19	2966	2966	SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
620369	BONE SPRING	-3790	6737	6737	SANDSTONE	NATURAL GAS, OIL, OTHER: Produced Water	N
620365	BONE SPRING 1ST	-4641	7588	7588	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620362	BONE SPRING 2ND	-4987	7934	7934	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620371	BONE SPRING 3RD	-5786	8733	8733	SANDSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER: produced water	N
620372	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.

Well Name: CORRAL CANYON 4 FEDERAL Well Number: 103H

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 nippling up on the 13-5/8 5M bradenhead and flange, the BOP test will be limited to 000 psi. When nippling 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	23.3 7	DRY	23.3 7
	INTERMED IATE	12.2 5	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
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	15130	0	9986		-7039	15130	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: 103H
Casing Attachments	
Casing ID: 1 String Type: SURFACE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
CC_4_Fed_103H_Csg_20191227082456.pdf	
Casing ID: 2 String Type: INTERMEDIATE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
CC_4_Fed_103H_Csg_20191227082508.pdf	
Casing ID: 3 String Type: PRODUCTION	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
CC_4_Fed_103H_Csg_20191227082526.pdf	

Section 4 - Cement

Well Name: CORRAL CANYON 4 FEDERAL Well Number: 103H

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	1513 0	2780	1.61	13.2	4475. 8	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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
6710	9955	OIL-BASED MUD	10.7	11							A Pason or Totco will be used to detect changes in loss or

Well Name: CORRAL CANYON 4 FEDERAL Well Number: 103H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	РН	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.

Well Name: CORRAL CANYON 4 FEDERAL Well Number: 103H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5538 Anticipated Surface Pressure: 3338

Anticipated Bottom Hole Temperature(F): 150

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

CC_4_Fed_H2S_Plan_20191227073621.pdf CC_4_Fed_H2S_D_P2_20191227082720.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CC_4_Fed_103H_DD_20191227082736.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

Casin	g Design									
	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
	17-1/2"	0' – 530'	13-3/8"	54.5	STC	J-55	New	1.36	4.66	23.37
	12-1/4"	0' – 6710'	9-5/8"	40	LTC	J-55	New	1.11	1.26	2.71
	8-3/4"	0' – 15130'	5-1/2"	17	BTC	P-110	New	1.01	1.30	2.71
-	9-5/8" Collapse 5-1/2" tension	calculated using v	0% evacuat ertical hangi	ion based o ng weight p	n regional experient lus the lateral weigh	ce. nt multiplied by a frictio 00 psi, whichver is les		.35		
WELLHE	EAD:									
	Per	manent Wellhe	ad – GE R	SH Multi	bowl System					
A	A. Starting Head	: 13-5/8" 5M top 1	flange x 13-3	/8" SOW bo	ottom					
E	3. Tubing Head:	13-5/8" 5M botton	_		· -					
					rer's representative					
						opriate temperature of	f seal.			
					BLM Onshore Orde					
		- Wellhead Manu	facturer rep	resentative	will not be present	for BOP test plug insta	illation			

Casin	g Design											
	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension		
	17-1/2"	0' – 530'	13-3/8"	54.5	STC	J-55	New	1.36	4.66	23.37		
	12-1/4"	0' – 6710'	9-5/8"	40	LTC	J-55	New	1.11	1.26	2.71		
	8-3/4"	0' – 15130'	5-1/2"	17	BTC	P-110	New	1.01	1.30	2.71		
-	9-5/8" Collapse 5-1/2" tension	calculated using v	0% evacuat ertical hangi	ion based o ng weight p	n regional experient lus the lateral weigh	ce. nt multiplied by a frictio 00 psi, whichver is les		.35				
WELLHE	EAD:											
	Per	manent Wellhe	ad – GE R	SH Multi	bowl System							
A	A. Starting Head	: 13-5/8" 5M top 1	flange x 13-3	/8" SOW bo	ottom							
E	3. Tubing Head:	13-5/8" 5M botton	_		· -							
		· Wellhead will b										
		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 Manu	facturer rep	resentative	will not be present	for BOP test plug insta	illation					

Casin	g Design											
	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension		
	17-1/2"	0' – 530'	13-3/8"	54.5	STC	J-55	New	1.36	4.66	23.37		
	12-1/4"	0' – 6710'	9-5/8"	40	LTC	J-55	New	1.11	1.26	2.71		
	8-3/4"	0' – 15130'	5-1/2"	17	BTC	P-110	New	1.01	1.30	2.71		
-	9-5/8" Collapse 5-1/2" tension	calculated using v	0% evacuat ertical hangi	ion based o ng weight p	n regional experient lus the lateral weigh	ce. nt multiplied by a frictio 00 psi, whichver is les		.35				
WELLHE	EAD:											
	Per	manent Wellhe	ad – GE R	SH Multi	bowl System							
A	A. Starting Head	: 13-5/8" 5M top 1	flange x 13-3	/8" SOW bo	ottom							
E	3. Tubing Head:	13-5/8" 5M botton	_		· -							
		· Wellhead will b										
		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 Manu	facturer rep	resentative	will not be present	for BOP test plug insta	illation					



HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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 H₂S, 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 (SO₂). 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 H₂S and SO₂

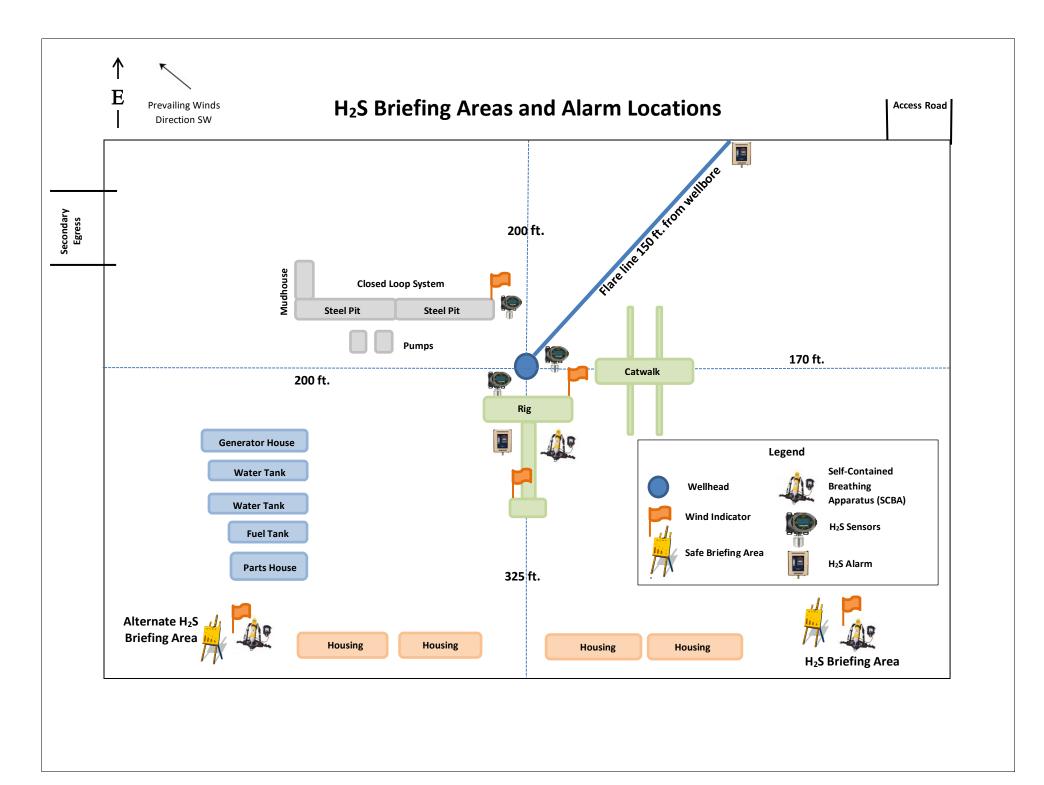
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

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).

<u>CARLSBAD OFFICE – EDDY & LEA COUNTIES</u>

3104 E. Greene St., Carlsbad, NM 88220 Carlsbad, NM	575-887-7329
XTO PERSONNEL: Kendall Decker, Drilling Manager Milton Turman, Drilling Superintendent Jeff Raines, Construction Foreman Toady Sanders, EH & S Manager Wes McSpadden, Production Foreman	903-521-6477 817-524-5107 432-557-3159 903-520-1601 575-441-1147
SHERIFF DEPARTMENTS:	
Eddy County Lea County	575-887-7551 575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS: Carlsbad Eunice Hobbs Jal Lovington	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
HOSPITALS: Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	911 575-885-2111 575-394-2112 575-397-9308 575-395-2221 575-396-2359
AGENT NOTIFICATIONS: For Lea County: Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612 575-393-6161
For Eddy County: Bureau of Land Management - Carlsbad New Mexico Oil Conservation Division - Artesia	575-234-5972 575-748-1283





XTO Energy

Eddy County, NM (NAD-27) Corral Canyon 4 Fed #103H

OH

Plan: PERMIT

Standard Planning Report

20 November, 2019



MD 0.00 3690.00 3940.08 9443.13 10352.54

1400

2100

2800

4200

True Vertical Depth (1400 usft/in)

99

90

00

00

7000

7700

Base of Salt

Cherry Canyon

Brushy Canyon

Basal Brushy Bone Spring Bone Spring Lime Upper Avalon

Lower Avalon Sh 1st Bone Springs Lime 1st Bone Springs Sand

2nd Bone Springs Lime

2nd Bone Springs Sand 3rd Bone Springs Lime

-700

Project: Eddy County, NM (NAD-27) Site: Corral Canyon 4 Fed Well: #103H 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: #103H

Rig Name: RKB = 25' @ 2972.00usft Ground Level: 2947.00 Easting 606049.80 32

+N/-S 0.00 Longitude -103.9906686 Latittude 32.1512244

DESIGN TARGET DETAILS

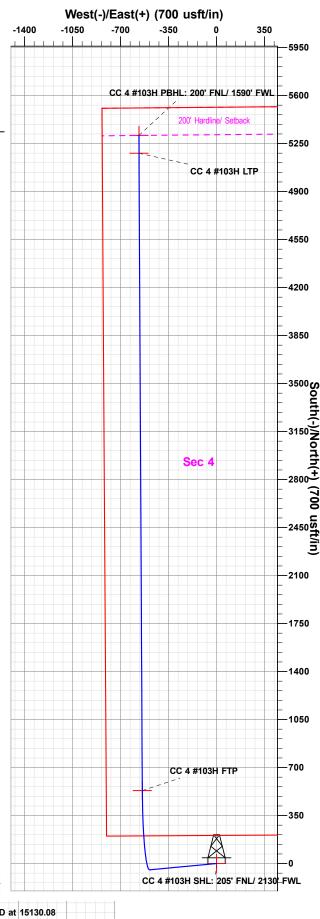
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
CC 4 #103H SHL: 205' FNL/ 2130' FWL	0.00	0.00	0.00	418905.60	606049.8Ŏ	32.1512244	-103.9906686
CC 4 #103H PBHL: 200' FNL/ 1590' FWL	9955.31	5309.00	-566.80	424214.60	605483.00	32.1658236	-103.9924457
CC 4 #103H LTP	9956.44	5179.00	-566.10	424084.60	605483.70	32.1654662	-103.9924448
CC 4 #103H FTP	9997.00	531.70	-542.10	419437.30	605507.70	32.1526907	-103.9924148

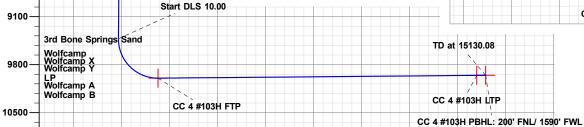
SECTION DETAILS TVD 0.00 3690.00 3939.76 9421.86 9997.00 9956.44 9955.31 +N/-S 0.00 0.00 -1.02 -45.95 531.70 5179.00 5309.00 TFace 0.00 0.00 264.63 0.00 95.01 0.00 0.00 VSect 0.00 0.00 -0.96 -43.39 534.53 5181.89 5311.89 Azi 0.00 0.00 264.63 264.63 359.70 359.70 359.70 +E/-W 0.00 0.00 -10.86 -488.53 -542.10 -566.13 -566.80 Dleg 0.00 0.00 2.00 0.00 10.00 0.00 0.00 1nc 0.00 0.00 5.00 5.00 90.50 90.50 90.50

FORMATION TOP DETAILS

TVDPath 246.00 661.00 2726.00 Formation Rustler Top of Salt Base of Salt lop of Salt
Base of Salt
Delaware
Cherry Canyon
Brushy Canyon
Basal Brushy
Bone Spring
Bone Spring Lime
Upper Avalon
Lower Avalon Shale
1st Bone Springs Lime
1st Bone Springs Lime
2nd Bone Springs Lime
2nd Bone Springs Lime
3rd Bone Springs Lime
3rd Bone Springs Sand
Wolfcamp
Wolfcamp
Wolfcamp X
Wolfcamp Y
LP 2726.00 2915.00 3796.00 5428.00 6446.00 6686.00 6708.00 6854.00 CC 4 #103H SHL: 205' FNL/ 2130' FWL 7284.00 7537.00 7616.00 8386.00 0 -Rustle 8682.00 9505.00 Top of Salt 700 9876 00 9890.00 9967.00 9997.00

Start Build 2.00





2800

3500

4200

4900

5600

6300

Vertical Section at 359.70° (1400 usft/in)

2100

1400

700

Plan: PERMIT (#103H/OH) Created By: Matthew May Date: 12:30, November 20 2019

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 <u>District IV</u>

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

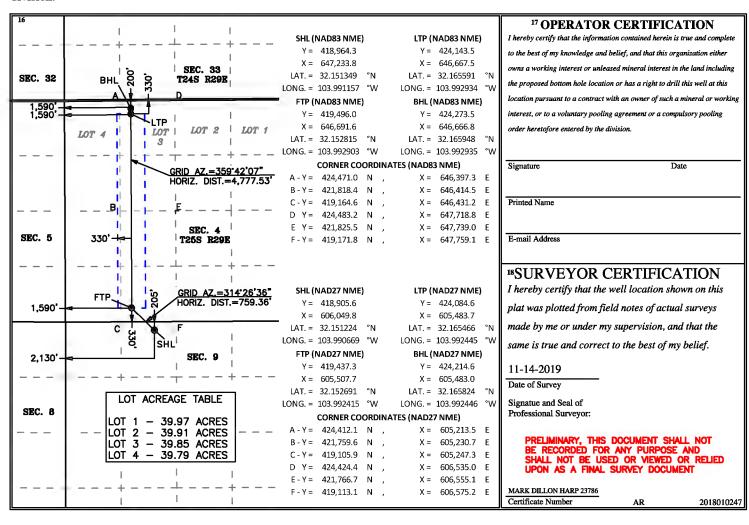
WELL LOCATION AND ACREAGE DEDICATION PLAT

1	1 API Number 2 Pool Code 30-015-					³ Pool Na	ame				
⁴ Property	Code				⁵ Propert	y Name			6	Well Number	
		CORRAL CANYON 4 FEDERAL							103H		
7 OGRID	⁷ OGRID No.						⁹ Elevation				
00538	0				XTO ENE	RGY, INC.	2,947'				
					10 Surface	Location					
UL or lot no.	Section	Township Range Lot Idn Feet from the North/South line Feet from the E					Eas	st/West line Count			
С	9	25 S	29 E		205	NORTH	2,130	WE	EST	EDDY	

11 D a	++	Hala	. T .	antion	If Different	Enom	Curfoso

			11 BO	nom Ho	ie Location II	Different From	n Surrace		
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	1,590	WEST	EDDY
12 Dedicated Acres	13 Joint o	r Infill 14	Consolidation	Code 15 Or	rder 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.





EDM 5000.1.13 Single User Db Database:

Company: XTO Energy

Project: Eddy County, NM (NAD-27) Corral Canyon 4 Fed Site:

Well: #103H ОН Wellbore: **PERMIT** Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #103H

RKB = 25' @ 2972.00usft RKB = 25' @ 2972.00usft

Minimum Curvature

Project Eddy County, NM (NAD-27)

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001 Mean Sea Level

Corral Canyon 4 Fed Site

Site Position: Northing: 418,905.60 usft Latitude: 32.1512244 -103.9906686 From: Мар Easting: 606,049.80 usft Longitude: 0.18°

System Datum:

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:**

Well #103H

Well Position +N/-S 0.00 usft Latitude: Northing: 418,905.60 usft 32.1512244 +E/-W 0.00 usft Easting: 606,049.80 usft Longitude: -103.9906686

Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft **Ground Level:** 2,947.00 usft

ОН Wellbore

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

Design **PERMIT**

Audit Notes:

Version: Phase: **PLAN** Tie On Depth: 0.00

Depth From (TVD) **Vertical Section:** +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 359.70

Plan Section	s									
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	
3,690.00	0.00	0.00	3,690.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,940.08	5.00	264.63	3,939.76	-1.02	-10.86	2.00	2.00	0.00	264.63	
9,443.14	5.00	264.63	9,421.86	-45.95	-488.53	0.00	0.00	0.00	0.00	
10,352.54	90.50	359.70	9,997.00	531.70	-542.10	10.00	9.40	10.45	95.01	CC 4 #103H FTP
15,000.08	90.50	359.70	9,956.44	5,179.00	-566.13	0.00	0.00	0.00	0.00	CC 4 #103H LTP
15,130.08	90.50	359.70	9,955.31	5,309.00	-566.80	0.00	0.00	0.00	0.00	CC 4 #103H PBHL:

11/20/19 11:36:24AM Page 2 COMPASS 5000.1 Build 74



Database: EDM 5000.1.13 Single User Db

XTO Energy

Company: Eddy County, NM (NAD-27) Project: Corral Canyon 4 Fed Site:

#103H Well: Wellbore: ОН **PERMIT** Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #103H

RKB = 25' @ 2972.00usft RKB = 25' @ 2972.00usft

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
Rustler 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
Top of Salt 700.00	t 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
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
Delaware 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
3,690.00	0.00	0.00	3,690.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.20	264.63	3,700.00	0.00	-0.02	0.00	2.00	2.00	0.00
3,796.02	2.12	264.63	3,796.00	-0.18	-1.95	-0.17	2.00	2.00	0.00
3,800.00	2.20	264.63	3,799.97	-0.20	-2.10	-0.19	2.00	2.00	0.00
3,900.00	4.20	264.63	3,899.81	-0.72	-7.66	-0.68	2.00	2.00	0.00
3,940.08	5.00	264.63	3,939.76	-1.02	-10.86	-0.96	2.00	2.00	0.00
4,000.00	5.00	264.63	3,999.45	-1.51	-16.06	-1.43	0.00	0.00	0.00
4,100.00	5.00	264.63	4,099.07	-2.33	-24.74	-2.20	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db Company:

XTO Energy

Eddy County, NM (NAD-27) Project: Corral Canyon 4 Fed Site:

#103H Well: ОН Wellbore: **PERMIT** Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #103H

RKB = 25' @ 2972.00usft RKB = 25' @ 2972.00usft

anned 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)
4,200.00	5.00	264.63	4,198.69	-3.14	-33.42	-2.97	0.00	0.00	0.00
4,300.00	5.00	264.63	4,298.31	-3.96	-42.10	-3.74	0.00	0.00	0.00
4,400.00	5.00	264.63	4,397.93	-4.78	-50.78	-4.51	0.00	0.00	0.00
4,500.00	5.00	264.63	4,497.55	-5.59	-59.46	-5.28	0.00	0.00	0.00
4,600.00	5.00	264.63	4,597.17	-6.41	-68.14	-6.05	0.00	0.00	0.00
4,700.00	5.00	264.63	4,696.79	-7.23	-76.82	-6.82	0.00	0.00	0.00
4,800.00	5.00	264.63	4,796.41	-8.04	-85.50	-7.59	0.00	0.00	0.00
4,900.00	5.00	264.63	4,896.03	-8.86	-94.18	-8.37	0.00	0.00	0.00
5,000.00	5.00	264.63	4,995.65	-9.68	-102.86	-9.14	0.00	0.00	0.00
5,100.00	5.00	264.63	5,095.27	-10.49	-111.54	-9.91	0.00	0.00	0.00
5,200.00	5.00	264.63	5,194.89	-11.31	-120.22	-10.68	0.00	0.00	0.00
5,300.00	5.00	264.63	5,294.50	-12.12	-128.90	-11.45	0.00	0.00	0.00
5,400.00	5.00	264.63	5,394.12	-12.94	-137.58	-12.22	0.00	0.00	0.00
5,434.01	5.00	264.63	5,428.00	-13.22	-140.54	-12.48	0.00	0.00	0.00
Brushy Ca									
5,500.00	5.00	264.63	5,493.74	-13.76	-146.26	-12.99	0.00	0.00	0.00
5,600.00	5.00	264.63	5,593.36	-14.57	-154.94	-13.76	0.00	0.00	0.00
5,700.00	5.00	264.63	5,692.98	-15.39	-163.62	-14.53	0.00	0.00	0.00
5,800.00	5.00	264.63	5,792.60	-16.21	-172.30	-15.30	0.00	0.00	0.00
5,900.00	5.00	264.63	5,892.22	-17.02	-180.98	-16.08	0.00	0.00	0.00
6,000.00	5.00	264.63	5,991.84	-17.84	-189.66	-16.85	0.00	0.00	0.00
6,100.00	5.00	264.63	6,091.46	-18.66	-198.34	-17.62	0.00	0.00	0.00
6,200.00	5.00	264.63	6,191.08	-19.47	-207.02	-18.39	0.00	0.00	0.00
6,300.00	5.00	264.63	6,290.70	-20.29	-215.70	-19.16	0.00	0.00	0.00
6,400.00	5.00	264.63	6,390.32	-21.11	-224.38	-19.93	0.00	0.00	0.00
6,455.90	5.00	264.63	6,446.00	-21.56	-229.24	-20.36	0.00	0.00	0.00
Basal Brus 6,500.00	shy 5.00	264.63	6,489.93	-21.92	-233.06	-20.70	0.00	0.00	0.00
6,600.00	5.00	264.63	6,589.55	-22.74	-241.74	-21.47	0.00	0.00	0.00
6,696.81	5.00	264.63	6,686.00	-23.53	-250.15	-22.22	0.00	0.00	0.00
Bone Spri		204.00	0,000.00	20.00	200.10	<i></i>	0.00	0.00	0.00
6,700.00	5.00	264.63	6,689.17	-23.56	-250.42	-22.24	0.00	0.00	0.00
6,718.90	5.00	264.63	6,708.00	-23.71	-252.07	-22.39	0.00	0.00	0.00
Bone Spri		004.00	0.700.70	04.07	050.41	00.04	2.22	2.22	0.00
6,800.00	5.00	264.63	6,788.79	-24.37	-259.11	-23.01	0.00	0.00	0.00
6,865.46	5.00	264.63	6,854.00	-24.91	-264.79	-23.52		0.00	0.00
Upper Ava	lon								
6,900.00	5.00	264.63	6,888.41	-25.19	-267.79	-23.79	0.00	0.00	0.00
7,000.00	5.00	264.63	6,988.03	-26.00	-276.47	-24.56	0.00	0.00	0.00
7,100.00	5.00	264.63	7,087.65	-26.82	-285.15	-25.33	0.00	0.00	0.00
7,200.00	5.00	264.63	7,187.27	-27.64	-293.83	-26.10	0.00	0.00	0.00
7,297.10 Lower Ava	5.00	264.63	7,284.00	-28.43	-302.25	-26.85	0.00	0.00	0.00
7,300.00	5.00	264.63	7,286.89	-28.45	-302.51	-26.87	0.00	0.00	0.00
7,400.00	5.00	264.63	7,386.51	-29.27	-311.19	-27.64	0.00	0.00	0.00
7,500.00	5.00	264.63	7,486.13	-30.09	-319.87	-28.41	0.00	0.00	0.00
7,551.07	5.00	264.63	7,537.00	-30.50	-324.30	-28.81	0.00	0.00	0.00
1st Bone S	Springs Lime								
7,600.00	5.00	264.63	7,585.75	-30.90	-328.55	-29.18	0.00	0.00	0.00
7,630.37	5.00	264.63	7,616.00	-31.15	-331.18	-29.42	0.00	0.00	0.00
1st Bone \$ 7,700.00 7,800.00	Springs Sand 5.00 5.00	264.63 264.63	7,685.37 7,784.98	-31.72 -32.54	-337.23 -345.91	-29.95 -30.73	0.00 0.00	0.00 0.00	0.00 0.00



Database: EDM 5000.1.13 Single User Db Company:

XTO Energy

Eddy County, NM (NAD-27) Project: Corral Canyon 4 Fed Site:

#103H Well: Wellbore: ОН **PERMIT** Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #103H

RKB = 25' @ 2972.00usft RKB = 25' @ 2972.00usft

ed 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)
7,898.39	5.00	264.63	7,883.00	-33.34	-354.45	-31.48	0.00	0.00	0.00
2nd Bone	Springs Lime								
7,900.00 8,000.00 8,100.00 8,200.00 8,300.00	5.00 5.00 5.00 5.00	264.63 264.63 264.63 264.63	7,884.60 7,984.22 8,083.84 8,183.46 8,283.08	-33.35 -34.17 -34.99 -35.80 -36.62	-354.59 -363.27 -371.95 -380.63 -389.31	-31.50 -32.27 -33.04 -33.81 -34.58	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
8,400.00 8,403.31	5.00 5.00	264.63 264.63	8,382.70 8,386.00	-37.44 -37.46	-397.99 -398.27	-35.35 -35.38	0.00 0.00	0.00 0.00	0.00 0.00
	Springs Sand								
8,500.00 8,600.00 8,700.00	5.00	264.63 264.63 264.63	8,482.32 8,581.94 8,681.56	-38.25 -39.07 -39.88	-406.67 -415.35 -424.03	-36.12 -36.89 -37.66	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,700.44		264.63	8,682.00	-39.89	-424.07	-37.67	0.00	0.00	0.00
3rd Bone 8,800.00 8,900.00 9,000.00 9,100.00	5.00 5.00	264.63 264.63 264.63 264.63	8,781.18 8,880.80 8,980.42 9,080.03	-40.70 -41.52 -42.33 -43.15	-432.71 -441.39 -450.07 -458.75	-38.44 -39.21 -39.98 -40.75	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
9,200.00 9,300.00 9,400.00 9,443.14 9,450.00	5.00 5.00 5.00	264.63 264.63 264.63 264.63 272.52	9,179.65 9,279.27 9,378.89 9,421.86 9,428.70	-43.97 -44.78 -45.60 -45.95 -45.97	-467.43 -476.11 -484.79 -488.53 -489.13	-41.52 -42.29 -43.06 -43.39 -43.41	0.00 0.00 0.00 0.00 10.00	0.00 0.00 0.00 0.00 -0.19	0.00 0.00 0.00 0.00 114.92
9,500.00 9,526.84	7.23 9.36	316.26 327.72	9,478.44 9,505.00	-43.60 -40.53	-493.48 -495.81	-41.01 -37.93	10.00 10.00	4.49 7.92	87.50 42.70
	Springs Sand	321.12	9,505.00	-40.55	-493.01	-37.83	10.00	7.92	42.70
9,550.00 9,600.00 9,650.00	11.38 16.02	334.00 341.99 346.41	9,527.78 9,576.35 9,623.77	-36.88 -25.88 -10.67	-497.82 -502.12 -506.34	-34.28 -23.25 -8.02	10.00 10.00 10.00	8.74 9.28 9.61	27.11 15.97 8.85
9,700.00 9,750.00 9,800.00 9,850.00 9,900.00	30.62 35.55 40.50	349.23 351.19 352.65 353.80 354.74	9,669.70 9,713.76 9,755.65 9,795.02 9,831.59	8.64 31.89 58.90 89.48 123.39	-510.46 -514.44 -518.25 -521.87 -525.26	11.31 34.58 61.62 92.21 126.14	10.00 10.00 10.00 10.00 10.00	9.75 9.83 9.87 9.90 9.92	5.63 3.93 2.93 2.30 1.87
9,950.00 9,967.49	50.43 52.17	355.53 355.78	9,865.07 9,876.00	160.37 173.98	-528.40 -529.43	163.14 176.75	10.00 10.00	9.93 9.94	1.58 1.43
Wolfcamp		555.70	3,070.00	170.00	-020.40	170.73	10.00	3.34	1.40
9,990.93		356.09	9,890.00	192.73	-530.76	195.51	10.00	9.94	1.35
Wolfcamp 10,000.00 10,050.00	55.40	356.21 356.82	9,895.21 9,921.78	200.14 242.40	-531.26 -533.83	202.92 245.19	10.00 10.00	9.94 9.95	1.30 1.21
10,100.00 10,150.00 10,160.86	70.33 71.41	357.37 357.87 357.98	9,944.58 9,963.44 9,967.00	286.82 333.07 343.33	-536.08 -538.00 -538.37	289.62 335.89 346.14	10.00 10.00 10.00	9.95 9.96 9.96	1.10 1.01 0.97
Wolfcamp 10,200.00 10,250.00	75.31	358.35 358.81	9,978.21 9,988.77	380.80 429.64	-539.57 -540.78	383.62 432.47	10.00 10.00	9.96 9.96	0.95 0.91
10,300.00 10,342.50	85.27	359.25 359.62	9,995.06 9,997.00	479.22 521.66	-541.62 -542.04	482.05 524.49	10.00 10.00	9.96 9.96	0.88 0.87
LP 10,352.54 10,400.00		359.70 359.70	9,997.00 9,996.59	531.70 579.16	-542.10 -542.35	534.53 581.99	10.00 0.00	9.96 0.00	0.87 0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: Corral Canyon 4 Fed

Well: #103H Wellbore: OH Design: PERMIT **Local Co-ordinate Reference:**

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #103H

RKB = 25' @ 2972.00usft RKB = 25' @ 2972.00usft

Grid

Design:	PERIVITI								
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)
10,500.00	90.50	359.70	9,995.71	679.16	-542.86	681.99	0.00	0.00	0.00
10,600.00	90.50	359.70	9,994.84	779.15	-543.38	781.98	0.00	0.00	0.00
10,700.00	90.50	359.70	9,993.97	879.15	-543.90	881.98	0.00	0.00	0.00
10,800.00	90.50	359.70	9,993.10	979.14	-544.41	981.98	0.00	0.00	0.00
10,900.00	90.50	359.70	9,992.22	1,079.14	-544.93	1,081.97	0.00	0.00	0.00
11,000.00	90.50	359.70	9,991.35	1,179.13	-545.45	1,181.97	0.00	0.00	0.00
11,100.00	90.50	359.70	9,990.48	1,279.12	-545.96	1,281.97	0.00	0.00	0.00
11,200.00	90.50	359.70	9,989.60	1,379.12	-546.48	1,381.96	0.00	0.00	0.00
11,300.00	90.50	359.70	9,988.73	1,479.11	-547.00	1,481.96	0.00	0.00	0.00
11,400.00	90.50	359.70	9,987.86	1,579.11	-547.52	1,581.95	0.00	0.00	0.00
11,500.00	90.50	359.70	9,986.99	1,679.10	-548.03	1,681.95	0.00	0.00	0.00
11,600.00	90.50	359.70	9,986.11	1,779.10	-548.55	1,781.95	0.00	0.00	0.00
11,700.00	90.50	359.70	9,985.24	1,879.09	-549.07	1,881.94	0.00	0.00	0.00
11,800.00	90.50	359.70	9,984.37	1,979.09	-549.58	1,981.94	0.00	0.00	0.00
11,900.00	90.50	359.70	9,983.50	2,079.08	-550.10	2,081.94	0.00	0.00	0.00
12,000.00	90.50	359.70	9,982.62	2,179.08	-550.62	2,181.93	0.00	0.00	0.00
12,100.00	90.50	359.70	9,981.75	2,279.07	-551.13	2,281.93	0.00	0.00	0.00
12,200.00	90.50	359.70	9,980.88	2,379.07	-551.65	2,381.92	0.00	0.00	0.00
12,300.00	90.50	359.70	9,980.01	2,479.06	-552.17	2,481.92	0.00	0.00	0.00
12,400.00	90.50	359.70	9,979.13	2,579.06	-552.69	2,581.92	0.00	0.00	0.00
12,500.00	90.50	359.70	9,978.26	2,679.05	-553.20	2,681.91	0.00	0.00	0.00
12,600.00	90.50	359.70	9,977.39	2,779.05	-553.72	2,781.91	0.00	0.00	0.00
12,700.00	90.50	359.70	9,976.52	2,879.04	-554.24	2,881.90	0.00	0.00	0.00
12,800.00	90.50	359.70	9,975.64	2,979.04	-554.75	2,981.90	0.00	0.00	0.00
12,900.00	90.50	359.70	9,974.77	3,079.03	-555.27	3,081.90	0.00	0.00	0.00
13,000.00	90.50	359.70	9,973.90	3,179.03	-555.79	3,181.89	0.00	0.00	0.00
13,100.00	90.50	359.70	9,973.02	3,279.02	-556.30	3,281.89	0.00	0.00	0.00
13,200.00	90.50	359.70	9,972.15	3,379.02	-556.82	3,381.89	0.00	0.00	0.00
13,300.00	90.50	359.70	9,971.28	3,479.01	-557.34	3,481.88	0.00	0.00	0.00
13,400.00	90.50	359.70	9,970.41	3,579.01	-557.86	3,581.88	0.00	0.00	0.00
13,500.00	90.50	359.70	9,969.53	3,679.00	-558.37	3,681.87	0.00	0.00	0.00
13,600.00	90.50	359.70	9,968.66	3,779.00	-558.89	3,781.87	0.00	0.00	0.00
13,700.00	90.50	359.70	9,967.79	3,878.99	-559.41	3,881.87	0.00	0.00	0.00
13,800.00	90.50	359.70	9,966.92	3,978.99	-559.92	3,981.86	0.00	0.00	0.00
13,900.00	90.50	359.70	9,966.04	4,078.98	-560.44	4,081.86	0.00	0.00	0.00
14,000.00	90.50	359.70	9,965.17	4,178.98	-560.96	4,181.86	0.00	0.00	0.00
14,100.00	90.50	359.70	9,964.30	4,278.97	-561.47	4,281.85	0.00	0.00	0.00
14,200.00	90.50	359.70	9,963.43	4,378.97	-561.99	4,381.85	0.00	0.00	0.00
14,300.00	90.50	359.70	9,962.55	4,478.96	-562.51	4,481.84	0.00	0.00	0.00
14,400.00	90.50	359.70	9,961.68	4,578.96	-563.03	4,581.84	0.00	0.00	0.00
14,500.00	90.50	359.70	9,960.81	4,678.95	-563.54	4,681.84	0.00	0.00	0.00
14,600.00	90.50	359.70	9,959.93	4,778.94	-564.06	4,781.83	0.00	0.00	0.00
14,700.00	90.50	359.70	9,959.06	4,878.94	-564.58	4,881.83	0.00	0.00	0.00
14,800.00	90.50	359.70	9,958.19	4,978.93	-565.09	4,981.83	0.00	0.00	0.00
14,900.00	90.50	359.70	9,957.32	5,078.93	-565.61	5,081.82	0.00	0.00	0.00
15,000.08	90.50	359.70	9,956.44	5,179.00	-566.13	5,181.89	0.00	0.00	0.00
15,100.00	90.50	359.70	9,955.57	5,278.92	-566.64	5,281.81	0.00	0.00	0.00
15,130.08	90.50	359.70	9,955.31	5,309.00	-566.80	5,311.90	0.00	0.00	0.00



Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27)
Site: Corral Canyon 4 Fed

Well: #103H Wellbore: OH Design: PERMIT **Local Co-ordinate Reference:**

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #103H

RKB = 25' @ 2972.00usft RKB = 25' @ 2972.00usft

Grid

Design Targets									
Target Name - hit/miss target Dip - Shape	o Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CC 4 #103H SHL: 205 - plan hits target cente - Point	0.00 er	0.00	0.00	0.00	0.00	418,905.60	606,049.80	32.1512244	-103.9906686
CC 4 #103H PBHL: 20 - plan hits target center- - Point	0.00 er	0.00	9,955.31	5,309.00	-566.80	424,214.60	605,483.00	32.1658236	-103.9924457
CC 4 #103H LTP - plan misses target c - Point	0.00 enter by	0.00 0.03usft at	9,956.44 15000.08us	5,179.00 sft MD (9956	-566.10 6.44 TVD, 51	424,084.60 79.00 N, -566.13	605,483.70 E)	32.1654663	-103.9924448
CC 4 #103H FTP - plan hits target cente - Point	0.00 er	0.00	9,997.00	531.70	-542.10	419,437.30	605,507.70	32.1526907	-103.9924148

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			
	3,796.02	3,796.00	Cherry Canyon			
	5,434.01	5,428.00	Brushy Canyon			
	6,455.90	6,446.00	Basal Brushy			
	6,696.81	6,686.00	Bone Spring			
	6,718.90	6,708.00	Bone Spring Lime			
	6,865.46	6,854.00	Upper Avalon			
	7,297.10	7,284.00	Lower Avalon Shale			
	7,551.07	7,537.00	1st Bone Springs Lime			
	7,630.37	7,616.00	1st Bone Springs Sand			
	7,898.39	7,883.00	2nd Bone Springs Lime			
	8,403.31	8,386.00	2nd Bone Springs Sand			
	8,700.44	8,682.00	3rd Bone Springs Lime			
	9,526.84	9,505.00	3rd Bone Springs Sand			
	9,967.49	9,876.00	Wolfcamp			
	9,990.93	9,890.00	Wolfcamp X			
	10,160.86	9,967.00	Wolfcamp Y			
	10,342.50	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, 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: 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 <a href="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
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines