Rec'd 05/26/2020 - NMOCD

FORM APPROVED

*(Instructions on page 2)

Form	3160-3
(June	2015)

(June 2015)	Expires: January 31, 2018				
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN	5. Lease Serial No. NMNM136870				
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tri	ibe Name			
1a. Type of work:	REENTER		7. If Unit or CA Agreeme	nt, Name and No.	
1b. Type of Well: Oil Well Gas Well 1c. Type of Completion: Hydraulic Fracturing	8. Lease Name and Well No. CORRAL CANYON 9-4 FEDERAL				
			121H		
2. Name of Operator XTO ENERGY INCORPORATED			9. API Well No. 30 015 47113		
Ja. Address 22777 Springwoods Village Parkway, Spring, TX 77389	3b. Phone No. <i>(include area co</i> (432) 620-6700	de)	10. Field and Pool, or Exploratory WELCH/null		
 4. Location of Well (Report location clearly and in accordance At surface NWSW / 2081 FSL / 363 FWL / LAT 32.14 At proposed prod. zone LOT 4 / 200 FNL / 750 FWL / L 	13042 / LONG -103.996884	7007	11. Sec., T. R. M. or Blk. SEC 9/T25S/R29E/NMF	2	
14. Distance in miles and direction from nearest town or post of 8 miles	ffice*		12. County or Parish EDDY	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. 363 feet	16. No of acres in lease	17. Spaci 480.0	ng Unit dedicated to this we	ell	
(Also to nearest drig. unit line, if any)					
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 10015 feet / 18010 feet		20. BLM/BIA Bond No. in file FED: UTB000138		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3304 feet	22. Approximate date work will 04/01/2020	ll start*	23. Estimated duration 90 days		
	24. Attachments				
The following, completed in accordance with the requirements (as applicable)	of Onshore Oil and Gas Order No.	1, and the I	Hydraulic Fracturing rule pe	er 43 CFR 3162.3-3	

1. Well plat certified by a registered surveyor.	4. Bond to cover the operations unless covered by an existing bond on file (see				
2. A Drilling Plan.	Item 20 above).				
3. A Surface Use Plan (if the location is on National Forest System Lan SUPO must be filed with the appropriate Forest Service Office).	 b. Operator certification. c. Such other site specific information and/or plans as may be requested by the BLM. 				
25. Signature	Name	(Printed/Typed)	Date		
(Electronic Submission)					
Title			I		
Regulatory Coordinator					
Approved by (Signature)	Name	(Printed/Typed)	Date		
(Electronic Submission)	Cody	Layton / Ph: (575) 234-5959	05/18/2020		
Title	Office	;	I		
Assistant Field Manager Lands & Minerals	Carlst	bad Field Office			
Application approval does not warrant or certify that the applicant hold applicant to conduct operations thereon.	s legal o	or equitable title to those rights in the subject le	ase which would entitle the		

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

1	r 7112		² Pool Code ³ Pool Name								
	30-015-47113 98220 Purple Sage; Wolfcamp										
⁴ Property (Code				⁵ Property	Name			6	Well Number	
328244					CORRAL CAN	YON 9-4 FED			121H		
⁷ OGRID	No.				⁸ Operator	Name				⁹ Elevation	
005380	0				XTO ENER	GY, INC.				3,004'	
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	' Feet from the	East	/West line	County	
L	9	25 S	29 E		2,081	SOUTH	363	WE	ST	EDDY	
			¹¹ Bo	ttom Hol	e Location I	f Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
L4	4	25 S	29 E 200 NORTH 330 WI				WE	ST	EDDY		
¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.											
480											

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.

16	1		
SEC. 32	SEC. 33	GEODETIC COORDINATES NAD 27 NME GEODETIC COORDINATES NAD 83 NME	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete
G	T24S R29E	SURFACE LOCATION SURFACE LOCATION	
330'	B.H.L.	X= 604,286.5 X= 645,470.7	to the best of my knowledge and belief, and that this organization either
330	LT.P. LOT 3 LOT	LAT.= 32.142918'N LAT.= 32.143042'N LONG.= 103.996397'W LONG.= 103.996884'W	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
	LOT 1 2	FIRST TAKE POINT FIRST TAKE POINT	the proposed bottom note tocation or has a right to articlinis well at this location pursuant to a contract with an owner of such a mineral or working
++	+ + 4 +	NAD 27 NME NAD 83 NME Y= 416,790.6 Y= 416,849.1	interest, or to a voluntary pooling agreement or a compulsory pooling
i I		X= 604,252.3 X= 645,436.5	order heretofore entered by the division.
SEC. 5		LAT.= 32.145426'N LAT.= 32.145550'N LONG.= 103.996498'W LONG.= 103.996986'W	
SEC. 5	T25S R29E		Auphanie Rabadul 11/22/2019
+	+	CORNER COORDINATES TABLE	Signature Date
	NI	NAD 27 NME A - Y= 416,448.1 N, X= 603,922.8 E	Stephanie Rabadue
LOT ACREAGE TABLE	GRID AZ.=359'46'14"	B - Y= 416,453.5 N, X= 605,250.9 E C - Y= 419,098.9 N, X= 603,919.2 E	Printed Name
LOT 2 - 39.92 ACRES	HORIZ. DIST.=7,412.73	D - Y= 419,106.1 N, X= 605,247.1 E E - Y= 421,752.6 N, X= 603,906.0 E	stanhania rahadua @utaanaray aam
LOT 3 – 39.85 ACRES LOT 4 – 39.79 ACRES	1 1	F - Y= 421,759.8 N, X= 605,230.4 E	stephanie_rabadue@xtoenergy.com
LOT 4 - 39.79 ACKES		G - Y= 424,400.2 N, X= 603,891.7 E H - Y= 424,412.4 N, X= 605,213.3 E	
	1		SUDVEYOD CEDTIEICATION
С	D	CORNER COORDINATES TABLE	¹⁸ SURVEYOR CERTIFICATION
		NAD 83 NME A - Y= 416,506.6 N, X= 645,107.0 E	I hereby certify that the well location shown on this
	2,3	B - Y= 416,512.0 N, X= 646,435.1 E C - Y= 419,157.4 N, X= 645,103.3 E	plat was plotted from field notes of actual surveys
	- + + -	D - Y= 419,164.6 N, X= 646,431.2 E E - Y= 421,811.2 N, X= 645,090.1 E	made by me or under my supervision, and that the
F.T.P.		F - Y= 421,818.4 N, X= 646,414.5 E G - Y= 424,458.8 N, X= 645,075.7 E	same is true and correct to the best of my belief.
SEC. 8	SEC. 9	H - Y= 424,471.0 N, X= 646,397.3 E	11 01 0010
330'			11-21-2019 Date of Survey Signatue and Seal of
A	В	LAST TAKE POINT LAST TAKE POINT NAD 27 NME NAD 83 NME	Date of Survey Signatue and Seal of
363'	GRID AZ.=357*51'12"	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Signatue and Seal of Professional Surveyor:
	HORIZ. DIST.=913.03'	LAT.= 32.165446'N LAT.= 32.165569'N	
S.H.L.	20 - + + -	LONG.= 103.996517'W LONG.= 103.997006'W	
	081	BOTTOM HOLE LOCATION NAD 27 NME NAD 83 NME	THE REAL STREET
	ľ.	Y= 424,203.2 Y= 424,261.8 X= 604,222.8 X= 645,406,8	The survey
		LAT.= 32.165803*N LAT.= 32.165927*N	MARK DILLON HARP 23786
		LONG.= 103.996518'W LONG.= 103.997007'W	Certificate Number AW 2018010259

Intent X As Drilled		
API #		
Operator Name: XTO ENERGY INC	Property Name: CORRAL CANYON 9-4 FEDERAL	Well Number 121H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	9	25S	29E		2081	SOUTH	363	WEST	EDDY
	Latitude 32.143042			Longitude -103.996	884			NAD 83	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
E	9	25S	29E		2310	NORTH	330	WEST	EDDY
	Latitude 32.145550			Longitude -103.996	986			NAD 83	

Last Take Point (LTP)

UL	Section 4	Township 25S	Range 29E	Lot 4	Feet 330	From N/S NORTH	Feet 330	From E/W WEST	County EDDY
Latitude					Longitud	le		NAD	
32.165569				-103.9	997006		83		

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

Is this well an infill well?

Y

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

API #		
Operator Name: XTO ENERGY INC	Property Name: CORRAL CANYON 9-4 FEDERAL	Well Number 162H
		KZ OC /20 /2010

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated LEASE NO.: NMNM136870 LOCATION: Section 9, T.25 S., R.29 E., NMPM COUNTY: Eddy County, New Mexico

Corral Canyon 9-4 Fed 102H

Surface Hole Location: 2112' FSL & 362' FWL, Section 9, T. 25 S., R. 29 E. Bottom Hole Location: 200' FNL & 750' FWL, Section 4, T. 25 S, R 30 E.

Corral Canyon 9-4 Fed 121H

Surface Hole Location: 2081' FSL & 363' FWL, Section 9, T. 25 S., R. 29 E. Bottom Hole Location: 200' FNL & 750' FWL, Section 4, T. 25 S, R 30 E.

Corral Canyon 9-4 Fed 122H

Surface Hole Location: 2051' FSL & 364' FWL, Section 9, T. 25 S., R. 29 E. Bottom Hole Location: 200' FNL & 750' FWL, Section 4, T. 25 S, R 30 E.

Corral Canyon 9-4 Fed 161H

Surface Hole Location: 2021' FSL & 365' FWL, Section 9, T. 25 S., R. 29 E. Bottom Hole Location: 200' FNL & 330' FWL, Section 4, T. 25 S, R 30 E.

Corral Canyon 9-4 Fed 162H

Surface Hole Location: 1991' FSL & 366' FWL, Section 9, T. 25 S., R. 29 E. Bottom Hole Location: 200' FNL & 990' FWL, Section 4, T. 25 S, R 30 E.

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- General Provisions
- **Permit Expiration**
- Archaeology, Paleontology, and Historical Sites

Noxious Weeds

Special Requirements

Wildlife: Texas Hornshell Boundary Cave/Karst Hydrology Construction Notification

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Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment & Reclamation

GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

I. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

II. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

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III. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

IV. SPECIAL REQUIREMENT(S)

Wildlife:

Oil and Gas Zone D - CCA Boundary requirements.

- Implement erosion control measures in accordance with the Reasonable and Prudent Practices for Stabilization ("RAPPS")
- Comply with SPCC requirements in accordance with 40 CFR Part 112;
- Comply with the United States Army Corp of Engineers (USACE) Nationwide 12 General Permit, where applicable;
- Utilize technologies (like underground borings for pipelines), where feasible;
- Educate personnel, agents, contractors, and subcontractors about the requirements of conservation measures, COAs, Stips and provide direction in accordance with the Permit.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility. The berm would be maintained through the life of the wells and after interim reclamation has been completed.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production:

Construction:

General Construction:

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will vacuumed off of the pad and hauled offsite and disposed at a proper disposal facility.

Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.

• Tank battery berms must be large enough to contain 1 ¹/₂ times the content of the largest tank.

Road Construction:

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

Powerline Construction:

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

Leak Detection System:

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.
- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

Automatic Shut-off Systems:

• Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and groundwater concerns:

Closed Loop System:

- A closed loop system using steel tanks will be utilized during drilling no pits
- All fluids and cuttings will be hauled off-site and disposed of properly at an authorized site

Rotary Drilling with Fresh Water:

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• Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

• The kick off point for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

- ALL lost circulation zones between surface and the base of the cave occurrence zone will be logged and reported in the drilling report.
- If a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cave-bearing zone, regardless of the type of drilling machinery used, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

- Additional plugging conditions of approval may be required upon well abandonment in high and medium karst potential occurrence zones.
- The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

- The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice.
- If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

V. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be

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redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

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Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

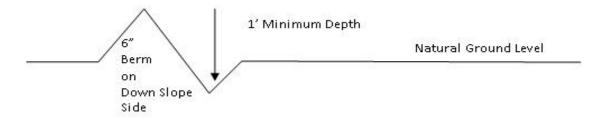
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\underline{400'} + 100' = 200'$ lead-off ditch interval 4%

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





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VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. <u>Use a maximum netting mesh size of 1 ½ inches.</u>

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

VIII. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

Page 12 of 14

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Page 13 of 14

Seed Mixture 3, for Shallow Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/acre</u>
Plains Bristlegrass (Setaria macrostachya)	1.0
Green Sprangletop (Leptochloa dubia)	2.0
Sideoats Grama (Bouteloua curtipendula)	5.0

*Pounds of pure live seed:

Pounds of seed \mathbf{x} percent purity \mathbf{x} percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
	Corral Canyon 9-4 Federal 121H
LOCATION:	Sec 9-25S-29E-NMP
COUNTY:	Eddy County, New Mexico

COA

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

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.

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.
 - 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 $\underline{\mathbf{8}}$ <u>hours</u> 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

Page 1 of 7

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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

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. 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 or potash.
- In <u>Medium Cave/Karst Areas</u> 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.

Page 2 of 7

- 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.

D. SPECIAL REQUIREMENT (S)

<u>Unit Wells</u>

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

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 Fiel

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

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

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.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.

- 4. 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.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

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. If 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.

- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
- 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. In potash areas, 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. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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.

WAFMSS

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

APD ID: 10400052822

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 9-4 FEDERAL

Well Type: CONVENTIONAL GAS WELL

Submission Date: 01/06/2020

Well Number: 121H

Well Work Type: Drill

Number: 121H

Highlighted data reflects the most recent changes

05/19/2020

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
620316	PERMIAN	3004	0	0	OTHER : Quaternary	NONE	N
620317	RUSTLER	2355	649	649	SILTSTONE	USEABLE WATER	N
620314	TOP SALT	2292	712	712	SALT	NONE	N
620311	BASE OF SALT	227	2777	2777	SALT	NONE	N
620318	DELAWARE	38	2966	2966	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620319	BONE SPRING	-3733	6737	6737	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620315	BONE SPRING 1ST	-4584	7588	7588	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620312	BONE SPRING 2ND	-4930	7934	7934	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	N
620321	BONE SPRING 3RD	-5729	8733	8733	SANDSTONE	NATURAL GAS, OIL, OTHER, USEABLE WATER : produced water	N
620322	WOLFCAMP	-7057	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 9-4 FEDERAL

Well Number: 121H

Choke Diagram Attachment:

CC_4_Fed_2MCM_20191227074041.pdf

BOP Diagram Attachment:

CC_4_Fed_2MBOP_20191227074049.pdf

Pressure Rating (PSI): 5M

Rating Depth: 10015

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_20191227074110.pdf

BOP Diagram Attachment:

CC_4_Fed_5MBOP_20191227074118.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	3304	2774	530	J-55	54.5	ST&C	4.66	1.36	DRY	23.3 7	DRY	23.3 7
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	6710	0	6710		-3406	6710	J-55	40	LT&C	1.26	1.11	DRY	2.71	DRY	2.71
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	18010	0	9986		-6682	18010	P- 110	17	BUTT	1.3	1.01	DRY	2.5	DRY	2.5

Well Name: CORRAL CANYON 9-4 FEDERAL

Well Number: 121H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_4_Fed_121H_Csg_20191227074146.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_4_Fed_121H_Csg_20191227074202.pdf

Casing ID:3String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_4_Fed_121H_Csg_20191227074215.pdf

Section 4 - Cement

Well Name: CORRAL CANYON 9-4 FEDERAL

Well Number: 121H

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	1801 0	3360	1.61	13.2	5409. 6	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 (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
6710	1011 5	OIL-BASED MUD	10.7	11							A Pason or Totco will be used to detect changes in loss or

Well Name: CORRAL CANYON 9-4 FEDERAL

Well Number: 121H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	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 9-4 FEDERAL

Well Number: 121H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5627

Anticipated Surface Pressure: 3373

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_D_P1_20191227073610.pdf CC_4_Fed_H2S_Plan_20191227073621.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CC_4_Fed_121H_DD_20191227074411.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



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 H_2S , 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).

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
ti es mespudden, i roddenon i oreman	575 111 1117
SHERIFF DEPARTMENTS:	
Eddy County	575-887-7551
Lea County	575-396-3611
NEW MEXICO STATE POLICE:	575-392-5588
FIRE DEPARTMENTS:	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS:	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS:	
For Lea County:	575 202 2612
Bureau of Land Management – Hobbs New Mexico Oil Conservation Division – Hobbs	575-393-3612
New Mexico OII 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
	515 170-1205



XTO Energy

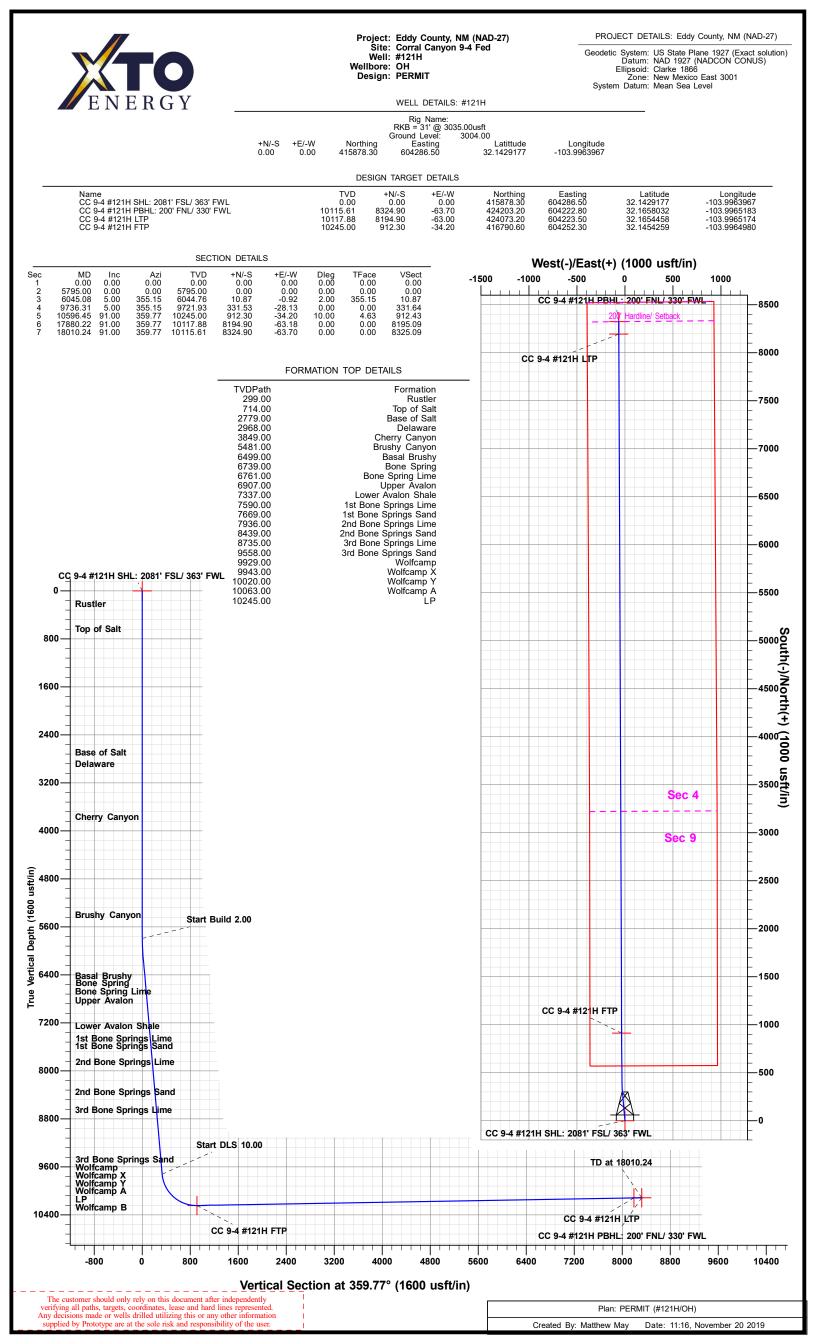
Eddy County, NM (NAD-27) Corral Canyon 9-4 Fed #121H

OH

Plan: PERMIT

Standard Planning Report

20 November, 2019





Database: Company: Project: Site: Well: Wellbore: Design:	XTO Eddy		(NAD-27)		Local Co-ordinate Reference:Well #121HTVD Reference:RKB = 31' @ 3035.00usftMD Reference:RKB = 31' @ 3035.00usftNorth Reference:GridSurvey Calculation Method:Minimum Curvature									
Project	Eddy	Eddy County, NM (NAD-27)												
Map System: Geo Datum: Map Zone:	NAD 19	S State Plane 1927 (Exact solution) System Datum: Mean Sea Level AD 1927 (NADCON CONUS) ew Mexico East 3001												
Site	Corral	Canyon 9-4	Fed											
Site Position: From: Position Unco	Ма	•	North Easti) usft Slot I	-	-	908.30 usft 285.20 usft 13-3/16 "	Latitude: Longitude: Grid Conve	ergence:		32.1430002 -103.9964006 0.18 °				
Well	#121H													
Well Position	+N/-S +E/-W			orthing: asting:		415,878.30 604,286.50		titude: ngitude:		32.1429177 -103.9963967				
Position Unco	ertainty	0.0	00 usft W	ellhead Elev	ation:	0.00	usft Gr	ound Level:		3,004.00 usft				
Wellbore	ОН													
Magnetics	Мо	del Name	Sampl	e Date	Declina (°)		-	Angle °)	Field Sti (nT	-				
		IGRF2015		11/20/19		6.88		59.89		47,599				
Design	PERM	1IT												
Audit Notes:														
Version:			Phas	se: F	PLAN	Ti	e On Depth:		0.00					
Vertical Secti	ion:	De	epth From (T (usft)	VD)	+N/-S (usft)	(u	E/-W Isft)		ection (°)					
			0.00		0.00	0	.00	35	59.77					
Plan Sections	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 5,795.00 6,045.08 9,736.31 10,596.45 17,880.22 18,010.24	5.00 91.00	0.00 0.00 355.15 355.15 359.77 359.77 359.77	0.00 5,795.00 6,044.76 9,721.93 10,245.00 10,117.88 10,115.61	0.00 0.00 10.87 331.53 912.30 8,194.90 8,324.90	0.00 0.00 -0.92 -28.13 -34.20 -63.18 -63.70	0.00 0.00 2.00 0.00 10.00 0.00 0.00	0.00 2.00 0.00 10.00 0.00	0.00 0.00 0.54 0.00	0.00 C	C 9-4 #121H FTP C 9-4 #121H LTP C 9-4 #121H PBH				



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #121H
Company:	XTO Energy	TVD Reference:	RKB = 31' @ 3035.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 31' @ 3035.00usft
Site:	Corral Canyon 9-4 Fed	North Reference:	Grid
Well:	#121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

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)
0.00 100.00 200.00 299.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 100.00 200.00 299.00	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 0.00 0.00	0.00 0.00 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
400.00 500.00 600.00 700.00 714.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	400.00 500.00 600.00 700.00 714.00	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 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 0.00
Top of Salt									
800.00 900.00 1,000.00 1,100.00 1,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	800.00 900.00 1,000.00 1,100.00 1,200.00	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 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 0.00
1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	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 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 0.00
1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	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 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 0.00
2,300.00 2,400.00 2,500.00 2,600.00 2,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2,300.00 2,400.00 2,500.00 2,600.00 2,700.00	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 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 0.00
2,779.00	0.00	0.00	2,779.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt 2,800.00 2,900.00 2,968.00	0.00 0.00 0.00	0.00 0.00 0.00	2,800.00 2,900.00 2,968.00	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 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 3,200.00 3,300.00 3,400.00 3,500.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	3,100.00 3,200.00 3,300.00 3,400.00 3,500.00	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 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 0.00 0.00 0.00 0.00 0.00
3,600.00 3,700.00 3,800.00 3,849.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	3,600.00 3,700.00 3,800.00 3,849.00	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 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Cherry Cany 3.900.00	yon 0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00 4,100.00 4,200.00 4,300.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4,000.00 4,100.00 4,200.00 4,300.00	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 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 0.00



Database: Company:	EDM 5000.1.13 Single User Db XTO Energy	Local Co-ordinate Reference: TVD Reference:	Well#121H RKB = 31' @ 3035.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 31' @ 3035.00usft
Site: Well:	Corral Canyon 9-4 Fed #121H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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 4,600.00 4,700.00 4,800.00 4,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	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 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 0.00
5,000.00 5,100.00 5,200.00 5,300.00 5,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,000.00 5,100.00 5,200.00 5,300.00 5,400.00	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 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 0.00
5,481.00	0.00	0.00	5,481.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Car 5,500.00 5,600.00 5,700.00	0.00 0.00 0.00	0.00 0.00 0.00	5,500.00 5,600.00 5,700.00	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 0.00	0.00 0.00 0.00
5,795.00 5,800.00 5,900.00 6,000.00 6,045.08 6,100.00	0.00 0.10 2.10 4.10 5.00 5.00	0.00 355.15 355.15 355.15 355.15 355.15 355.15	5,795.00 5,800.00 5,899.98 5,999.83 6,044.76 6,099.47	0.00 0.00 1.92 7.31 10.87 15.64	0.00 -0.16 -0.62 -0.92 -1.33	0.00 0.00 1.92 7.31 10.87 15.65	0.00 2.00 2.00 2.00 2.00 0.00	0.00 2.00 2.00 2.00 2.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
6,200.00 6,300.00 6,400.00 6,500.00 6,501.05	5.00 5.00 5.00 5.00 5.00 5.00	355.15 355.15 355.15 355.15 355.15 355.15	6,199.09 6,298.71 6,398.33 6,497.95 6,499.00	24.33 33.01 41.70 50.39 50.48	-2.06 -2.80 -3.54 -4.28 -4.28	24.34 33.03 41.72 50.41 50.50	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 0.00 0.00
Basal Brus	hy								
6,600.00 6,700.00 6,741.97	5.00 5.00 5.00	355.15 355.15 355.15	6,597.57 6,697.19 6,739.00	59.08 67.76 71.41	-5.01 -5.75 -6.06	59.10 67.79 71.43	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Bone Sprin	•	055.45	0 704 00	70.00	0.00	70.05	0.00	0.00	0.00
6,764.06 Bone Sprin	5.00	355.15	6,761.00	73.33	-6.22	73.35	0.00	0.00	0.00
6,800.00	5.00	355.15	6,796.81	76.45	-6.49	76.48	0.00	0.00	0.00
6,900.00 6,910.61	5.00 5.00	355.15 355.15	6,896.43 6,907.00	85.14 86.06	-7.22 -7.30	85.17 86.09	0.00 0.00	0.00 0.00	0.00 0.00
Upper Aval 7,000.00 7,100.00 7,200.00	5.00 5.00 5.00	355.15 355.15 355.15	6,996.05 7,095.67 7,195.29	93.82 102.51 111.20	-7.96 -8.70 -9.44	93.86 102.55 111.24	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
7,300.00 7,342.26	5.00 5.00	355.15 355.15	7,294.90 7,337.00	119.89 123.56	-10.17 -10.49	119.93 123.60	0.00 0.00	0.00 0.00	0.00 0.00
Lower Aval		055.45	7 00 1 70	100		100.05			
7,400.00 7,500.00 7,596.22	5.00 5.00 5.00	355.15 355.15 355.15	7,394.52 7,494.14 7,590.00	128.57 137.26 145.62	-10.91 -11.65 -12.36	128.62 137.31 145.67	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	prings Lime								
7,600.00 7,675.53	5.00 5.00	355.15 355.15	7,593.76 7,669.00	145.95 152.51	-12.39 -12.94	146.00 152.56	0.00 0.00	0.00 0.00	0.00 0.00
1st Bone S 7,700.00 7,800.00	prings Sand 5.00 5.00	355.15 355.15	7,693.38 7,793.00	154.63 163.32	-13.12 -13.86	154.69 163.38	0.00 0.00	0.00 0.00	0.00 0.00



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Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 31' @ 3035.00usft
Site:	Corral Canyon 9-4 Fed	North Reference:	Grid
Well:	#121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

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)
7,900.00	5.00	355.15	7,892.62	172.01	-14.60	172.07	0.00	0.00	0.00
7,943.55	5.00	355.15	7,936.00	175.79	-14.92	175.85	0.00	0.00	0.00
2nd Bone 8,000.00 8,100.00 8,200.00 8,300.00	Springs Lime 5.00 5.00 5.00 5.00 5.00	355.15 355.15 355.15 355.15 355.15	7,992.24 8,091.86 8,191.48 8,291.10	180.70 189.38 198.07 206.76	-15.33 -16.07 -16.81 -17.55	180.76 189.45 198.14 206.83	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 8,448.47	5.00 5.00	355.15 355.15	8,390.72 8,439.00	215.44 219.65	-18.28 -18.64	215.52 219.73	0.00 0.00	0.00 0.00	0.00 0.00
2nd Bone	Springs Sand								
8,500.00 8,600.00 8,700.00	5.00 5.00 5.00	355.15 355.15 355.15	8,490.34 8,589.95 8,689.57	224.13 232.82 241.51	-19.02 -19.76 -20.49	224.21 232.90 241.59	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,745.60	5.00	355.15	8,735.00	245.47	-20.83	245.55	0.00	0.00	0.00
	Springs Lime		0 700 40	050.40	04.00	050.00	0.00	0.00	0.00
8,800.00 8,900.00 9,000.00 9,100.00	5.00 5.00 5.00 5.00	355.15 355.15 355.15 355.15	8,789.19 8,888.81 8,988.43 9,088.05	250.19 258.88 267.57 276.25	-21.23 -21.97 -22.71 -23.44	250.28 258.97 267.66 276.35	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 9,500.00 9,571.75	5.00 5.00 5.00 5.00 5.00 5.00	355.15 355.15 355.15 355.15 355.15 355.15	9,187.67 9,287.29 9,386.91 9,486.53 9,558.00	284.94 293.63 302.31 311.00 317.23	-24.18 -24.92 -25.65 -26.39 -26.92	285.04 293.73 302.42 311.11 317.34	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
	Springs Sand		-,						
9,600.00 9,700.00 9,736.31 9,750.00 9,800.00	5.00 5.00 5.00 6.37 11.36	355.15 355.15 355.15 356.15 357.76	9,586.15 9,685.77 9,721.93 9,735.56 9,784.95	319.69 328.38 331.53 332.88 340.58	-27.13 -27.87 -28.13 -28.24 -28.61	319.80 328.49 331.64 332.99 340.69	0.00 0.00 0.00 10.00 10.00	0.00 0.00 0.00 9.97 9.99	0.00 0.00 0.00 7.28 3.22
9,850.00 9,900.00 9,950.00 9,952.81	16.36 21.36 26.36 26.64	358.39 358.73 358.95 358.96	9,833.48 9,880.78 9,926.49 9,929.00	352.54 368.69 388.91 390.16	-29.01 -29.40 -29.81 -29.83	352.66 368.81 389.02 390.28	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	1.27 0.69 0.43 0.35
Wolfcamp				<u> </u>			10.00	10.00	
9,968.58 Wolfcamp	28.22 ¥	359.01	9,943.00	397.42	-29.96	397.54	10.00	10.00	0.33
10,000.00 10,050.00 10,060.28	31.36 36.36 37.38	359.10 359.22 359.24	9,970.27 10,011.78 10,020.00	413.03 440.87 447.04	-30.22 -30.62 -30.71	413.15 440.99 447.16	10.00 10.00 10.00	10.00 10.00 10.00	0.29 0.23 0.20
Wolfcamp 10,100.00 10,116.60	41.36 43.02	359.31 359.33	10,050.70 10,063.00	472.23 483.38	-31.03 -31.16	472.35 483.50	10.00 10.00	10.00 10.00	0.18 0.16
Wolfcamp									
10,150.00 10,200.00 10,250.00 10,300.00 10,350.00	46.36 51.36 56.36 61.36 66.36	359.38 359.44 359.50 359.54 359.59	10,086.74 10,119.63 10,149.11 10,174.96 10,196.99	506.86 544.50 584.86 627.64 672.51	-31.42 -31.81 -32.18 -32.54 -32.88	506.98 544.62 584.98 627.76 672.63	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.14 0.12 0.11 0.10 0.09
10,400.00 10,450.00 10,500.00 10,550.00	71.36 76.36 81.36 86.35	359.63 359.67 359.70 359.74	10,215.02 10,228.92 10,238.58 10,243.93	719.12 767.14 816.18 865.87	-33.20 -33.49 -33.76 -34.00	719.25 767.26 816.31 866.00	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.08 0.08 0.07 0.07



Project:	EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27)	Local Co-ordinate Reference: TVD Reference: MD Reference:	Well #121H RKB = 31' @ 3035.00usft RKB = 31' @ 3035.00usft
Site:	Corral Canyon 9-4 Fed	North Reference:	Grid
Well:	#121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

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)
10,596.45 LP	91.00	359.77	10,245.00	912.30	-34.20	912.43	10.00	10.00	0.07
10,600.00 10,700.00 10,800.00 10,900.00 11,000.00	91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,244.94 10,243.19 10,241.45 10,239.70 10,237.96	915.85 1,015.83 1,115.82 1,215.80 1,315.78	-34.21 -34.61 -35.01 -35.41 -35.81	915.98 1,015.96 1,115.95 1,215.93 1,315.92	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
11,100.00 11,200.00 11,300.00 11,400.00 11,500.00	91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,236.21 10,234.47 10,232.72 10,230.98 10,229.23	1,415.77 1,515.75 1,615.73 1,715.72 1,815.70	-36.20 -36.60 -37.00 -37.40 -37.80	1,415.90 1,515.89 1,615.87 1,715.86 1,815.84	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
11,600.00 11,700.00 11,800.00 11,900.00 12,000.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,227.49 10,225.74 10,224.00 10,222.25 10,220.50	1,915.69 2,015.67 2,115.65 2,215.64 2,315.62	-38.19 -38.59 -38.99 -39.39 -39.78	1,915.82 2,015.81 2,115.79 2,215.78 2,315.76	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
12,100.00 12,200.00 12,300.00 12,400.00 12,500.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,218.76 10,217.01 10,215.27 10,213.52 10,211.78	2,415.61 2,515.59 2,615.57 2,715.56 2,815.54	-40.18 -40.58 -40.98 -41.38 -41.77	2,415.75 2,515.73 2,615.72 2,715.70 2,815.69	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
12,600.00 12,700.00 12,800.00 12,900.00 13,000.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,210.03 10,208.29 10,206.54 10,204.80 10,203.05	2,915.53 3,015.51 3,115.49 3,215.48 3,315.46	-42.17 -42.57 -42.97 -43.37 -43.76	2,915.67 3,015.66 3,115.64 3,215.63 3,315.61	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
13,100.00 13,200.00 13,300.00 13,400.00 13,500.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,201.31 10,199.56 10,197.82 10,196.07 10,194.33	3,415.45 3,515.43 3,615.41 3,715.40 3,815.38	-44.16 -44.56 -44.96 -45.36 -45.75	3,415.60 3,515.58 3,615.57 3,715.55 3,815.54	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
13,600.00 13,700.00 13,800.00 13,900.00 14,000.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,192.58 10,190.84 10,189.09 10,187.35 10,185.60	3,915.37 4,015.35 4,115.33 4,215.32 4,315.30	-46.15 -46.55 -46.95 -47.35 -47.74	3,915.52 4,015.50 4,115.49 4,215.47 4,315.46	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
14,100.00 14,200.00 14,300.00 14,400.00 14,500.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,183.85 10,182.11 10,180.36 10,178.62 10,176.87	4,415.29 4,515.27 4,615.25 4,715.24 4,815.22	-48.14 -48.54 -48.94 -49.33 -49.73	4,415.44 4,515.43 4,615.41 4,715.40 4,815.38	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
14,600.00 14,700.00 14,800.00 14,900.00 15,000.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,175.13 10,173.38 10,171.64 10,169.89 10,168.15	4,915.21 5,015.19 5,115.17 5,215.16 5,315.14	-50.13 -50.53 -50.93 -51.32 -51.72	4,915.37 5,015.35 5,115.34 5,215.32 5,315.31	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
15,100.00 15,200.00 15,300.00 15,400.00 15,500.00	91.00 91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,166.40 10,164.66 10,162.91 10,161.17 10,159.42	5,415.13 5,515.11 5,615.09 5,715.08 5,815.06	-52.12 -52.52 -52.92 -53.31 -53.71	5,415.29 5,515.28 5,615.26 5,715.25 5,815.23	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
15,600.00	91.00	359.77	10,157.68	5,915.05	-54.11	5,915.22	0.00	0.00	0.00



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #121H
Company:	XTO Energy	TVD Reference:	RKB = 31' @ 3035.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 31' @ 3035.00usft
Site:	Corral Canyon 9-4 Fed	North Reference:	Grid
Well:	#121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН	-	
Design:	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)
15,700.00 15,800.00 15,900.00 16,000.00	91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77	10,155.93 10,154.19 10,152.44 10,150.70	6,015.03 6,115.01 6,215.00 6,314.98	-54.51 -54.91 -55.30 -55.70	6,015.20 6,115.19 6,215.17 6,315.15	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,148.95 10,147.20 10,145.46 10,143.71 10,141.97	6,414.97 6,514.95 6,614.93 6,714.92 6,814.90	-56.10 -56.50 -56.89 -57.29 -57.69	6,415.14 6,515.12 6,615.11 6,715.09 6,815.08	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 0.00
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,140.22 10,138.48 10,136.73 10,134.99 10,133.24	6,914.89 7,014.87 7,114.85 7,214.84 7,314.82	-58.09 -58.49 -58.88 -59.28 -59.68	6,915.06 7,015.05 7,115.03 7,215.02 7,315.00	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 0.00
17,100.00 17,200.00 17,300.00 17,400.00 17,500.00	91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77 359.77	10,131.50 10,129.75 10,128.01 10,126.26 10,124.52	7,414.81 7,514.79 7,614.77 7,714.76 7,814.74	-60.08 -60.48 -60.87 -61.27 -61.67	7,414.99 7,514.97 7,614.96 7,714.94 7,814.93	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
17,600.00 17,700.00 17,800.00 17,880.22 17,900.00	91.00 91.00 91.00 91.00 91.00	359.77 359.77 359.77 359.77 359.77	10,122.77 10,121.03 10,119.28 10,117.88 10,117.54	7,914.73 8,014.71 8,114.69 8,194.90 8,214.68	-62.07 -62.47 -62.86 -63.18 -63.26	7,914.91 8,014.90 8,114.88 8,195.09 8,214.87	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 0.00
18,000.00 18,010.24	91.00 91.00	359.77 359.77	10,115.79 10,115.61	8,314.66 8,324.90	-63.66 -63.70	8,314.85 8,325.09	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CC 9-4 #121H SHL: 2 - plan hits target ce - Point	0.00 Inter	0.00	0.00	0.00	0.00	415,878.30	604,286.50	32.1429177	-103.9963967
CC 9-4 #121H PBHL: - plan hits target ce - Point	0.00 Inter	0.00	10,115.61	8,324.90	-63.70	424,203.20	604,222.80	32.1658032	-103.9965183
CC 9-4 #121H LTP - plan misses targe - Point	0.00 t center by		10,117.88 17880.22u	8,194.90 sft MD (1011	-63.00 7.88 TVD, 8 [,]	424,073.20 194.90 N, -63.18	604,223.50 E)	32.1654458	-103.9965174
CC 9-4 #121H FTP - plan hits target ce - Point	0.00 Inter	0.00	10,245.00	912.30	-34.20	416,790.60	604,252.30	32.1454259	-103.9964979



Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well#121H
Company:	XTO Energy	TVD Reference:	RKB = 31' @ 3035.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 31' @ 3035.00usft
Site:	Corral Canyon 9-4 Fed	North Reference:	Grid
Well:	#121H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	PERMIT		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
299.00	299.00	Rustler			
714.00	714.00	Top of Salt			
2,779.00	2,779.00	Base of Salt			
2,968.00	2,968.00	Delaware			
3,849.00	3,849.00	Cherry Canyon			
5,481.00	5,481.00	Brushy Canyon			
6,501.05	6,499.00	Basal Brushy			
6,741.97	6,739.00	Bone Spring			
6,764.06	6,761.00	Bone Spring Lime			
6,910.61	6,907.00	Upper Avalon			
7,342.26	7,337.00	Lower Avalon Shale			
7,596.22	7,590.00	1st Bone Springs Lime			
7,675.53	7,669.00	1st Bone Springs Sand			
7,943.55	7,936.00	2nd Bone Springs Lime			
8,448.47	8,439.00	2nd Bone Springs Sand			
8,745.60	8,735.00	3rd Bone Springs Lime			
9,571.75	9,558.00	3rd Bone Springs Sand			
9,952.81	9,929.00	Wolfcamp			
9,968.58	9,943.00	Wolfcamp X			
10,060.28	10,020.00	Wolfcamp Y			
10,116.60	10,063.00	Wolfcamp A			
10,596.45	10,245.00	LP			

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

GAS CAPTURE PLAN

Date: 11/22/2019

 \boxtimes 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 <u>Enlink</u> and will be connected to <u>Enlink</u> 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. <u>XTO Energy, Inc.</u> provides (periodically) to <u>Enlink</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>XTO Energy, Inc.</u> and <u>Enlink</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Enlink</u> 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 <u>Enlink</u> system at that time. Based on current information, it is <u>XTO</u> <u>Energy</u>, 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