Form 3160-3 (June 2015)

DEC 0 5 2019 **UNITED STATES**

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

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGESTATION ANTESIAO.C.D. APPLICATION FOR PERMIT TO DRILL OR REENTER				5. Lease Serial No. NMNM099147 6. If Indian, Allotee or Tribe Name		
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	EENTER			7. If Unit or CA Ag	reement,	Name and No.
1b. Type of Well: Oil Well Gas Well Other				8. Lease Name and Well No.		
1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone				CORRAL CANYON 8-32 FEDERAL		
				165H 326	50g	
Name of Operator XTO ENERGY INCORPORATED				9. API Well No.		6490
3a. Address 3b. Phone No. (include area code) 2277 Springwoods Village Parkway Spring TX 77389 (432)620-6700			'e)	10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP GAS		
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NWSE / 2512 FSL / 2183 FEL / LAT 32.144308 / LONG -104.005108				11. Sec., T. R. M. or Blk. and Survey or Area SEC 8 / T25S / R29E / NMP		
At proposed prod. zone NWSE / 2440 FSL / 2310 FEL / I			05546			
14. Distance in miles and direction from nearest town or post offi 8 miles	ce*			12. County or Paris	h	13. State NM
15. Distance from proposed* 2183 feet	16. No of ac	cres in lease	17. Spacir	ng Unit dedicated to t	his well	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	960		640			
18. Distance from proposed location*	19. Proposed Depth 20. BLM		20. BLM/	/BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft.	10758 feet / 21125 feet FED: UT		ГВ000138			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*		23. Estimated duration			
2962 feet	10/01/2019			90 days		
	24. Attac	hments				
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No. 1	l, and the H	lydraulic Fracturing r	ule per 43	3 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover th Item 20 above).	e operation	s unless covered by a	n existing	bond on file (see
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office		5. Operator certific 6. Such other site sp BLM.		mation and/or plans as	may be r	equested by the
25. Signature		(Printed/Typed)			Date	
(Electronic Submission)	Stepha	Stephanie Rabadue / Ph: (432)620-6714		-6714	08/20/2019	
Title Regulatory Coordinator						•
Approved by (Signature)	I	Name (Printed/Typed)			Date	
(Electronic Submission)	Cody Layton / Ph: (575)234-5959 11/15/2019			2019		
Title Assistant Field Manager Lands & Minerals		Office CARLSBAD				
Application approval does not warrant or certify that the applican	t holds legal o	or equitable title to th	ose rights	n the subject lease w	hich wou	ld entitle the

applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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



*(Instructions on page 2)

(Continued on page 2)

Rw 12-13-19

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: NWSE / 2512 FSL / 2183 FEL / TWSP: 25S / RANGE: 29E / SECTION: 8 / LAT: 32.144308 / LONG: -104.005108 (TVD: 0 feet, MD: 0 feet)

PPP: SWNE / 2310 FNL / 2310 FEL / TWSP: 25S / RANGE: 29E / SECTION: 8 / LAT: 32.145615 / LONG: -104.005515 (TVD: 10758 feet, MD: 11100 feet)

PPP: SWSE / 330 FSL / 2310 FEL / TWSP: 25S / RANGE: 29E / SECTION: 5 / LAT: 32.15242 / LONG: -104.0129 (TVD: 10758 feet, MD: 13800 feet)

BHL: NWSE / 2440 FSL / 2310 FEL / TWSP: 24S / RANGE: 29E / SECTION: 32 / LAT: 32.173196 / LONG: -104.005546 (TVD: 10758 feet, MD: 21125 feet)

BLM Point of Contact

Name: Title:

Phone:

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Email:

(Form 3160-3, page 3)

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Energy, Inc.

LEASE NO.: NMNM-099147

WELL NAME & NO.: | Corral Canyon 8-32 Federal 165H

SURFACE HOLE FOOTAGE: 2512' FSL & 2183' FEL

BOTTOM HOLE FOOTAGE | 2440' FSL & 2310' FEL Sec. 32, T. 24 S., R. 29 E.

LOCATION: | Section 08, T. 25 S., R. 29 E., NMPM

COUNTY: | Eddy County, New Mexico

H2S	Yes	No	
Potash	None	Secretary	R-111-P
Cave/Karst Potential	Low	Medium	High
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	Other
Wellhead	Conventional	Multibowl	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.

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 16 inch surface casing shall be set at approximately 609 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.
- 2. The minimum required fill of cement behind the 11-3/4 inch intermediate casing, which shall be set at approximately 2700 feet, is:
 - 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.

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

3. The minimum required fill of cement behind the 8-5/8 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.

- ❖ 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.
- 4. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 11-3/4 inch intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 11-3/4 inch intermediate casing casing shoe shall be 10,000 (10M) psi._

 Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 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.

D. SPECIAL REQUIREMENT (S)

Operator to add "COM" to the well name.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

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

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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 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

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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).

- a. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer.
- b. 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.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. 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.
- e. 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.
- f. 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 110419

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated LEASE NO.: NMNM1
LOCATION: Section 8, T.25 S., R.29 E., NMPM COUNTY: Eddy County, New Mexico

Well Pad 1

Corral Canyon 8-32 Federal 161H

Surface Hole Location: 2548' FSL & 1008' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 330' FWL, Section 32, T. 24 S, R 29 E.

Corral Canyon 8-32 Federal 121H

Surface Hole Location: 2548' FSL & 1038' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 330' FWL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 102H

Surface Hole Location: 2548' FSL & 1068' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 330' FWL, Section 32, T. 24 S, R 29 E.

Corral Canyon 8-32 Federal 122H

Surface Hole Location: 2548' FSL & 1098' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 1170' FWL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 162H

Surface Hole Location: 2548' FSL & 1128' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 990' FWL, Section 32, T. 24 S, R 29 E

Well Pad 2

Corral Canyon 8-32 Federal 163H

Surface Hole Location: 2437' FSL & 1816' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 1650' FWL, Section 32, T. 24 S, R 29 E

Corral Canvon 8-32 Federal 103H

Surface Hole Location: 2457' FSL & 1846' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 1590' FWL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 124H

Surface Hole Location: 2437' FSL & 1876' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 2010' FWL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 104H

Surface Hole Location: 2437' FSL & 1906' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 2430' FWL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 164H

Surface Hole Location: 2437' FSL & 1936' FWL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 1650' FWL, Section 32, T. 24 S. R 29 E

Well Pad 3

Corral Canyon 8-32 Federal 165H

Surface Hole Location: 2512' FSL & 2183' FEL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 2310' FEL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 125H

Surface Hole Location: 2513' FSL & 2153' FEL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 2430' FEL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 105H

Surface Hole Location: 2513' FSL & 2123' FEL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 2010' FEL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 126H

Surface Hole Location: 2514' FSL & 2093' FEL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 1590' FEL, Section 32, T. 24 S, R 29 E

Corral Canyon 8-32 Federal 166H

Surface Hole Location: 2514' FSL & 2063' FEL, Section 8, T. 25 S., R. 29 E. Bottom Hole Location: 2440' FSL & 2310' FEL, Section 32, T. 24 S, R 29 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.

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Noxious Weeds	
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☐ Construction	
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Electric Lines	
☐ Interim Reclamation	
🔲 Final Abandonment & F	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.

III. NOXIOUS WEEDS

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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)

Visual Resource Management:

For Corral Canyon 8-32 Federal Pad 1, all above ground structures including but not limited to pumpjacks, storage tanks, production equipment, etc. must be shorter than 8 feet.

Hydrology:

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. 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 berm shall be maintained through the life of the well and 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.

Tank Battery:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Buried/Surface Line(s):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

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Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Electric Line(s):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

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.

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- 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 ½ 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.

Buried Pipeline/Cable Construction:

• Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

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

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- 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.

Surface Flowlines Installation:

• Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

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:

• 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:

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- 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 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.

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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

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.

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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

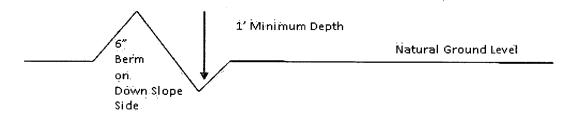
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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 %);

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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: $\frac{400'}{4\%}$ + 100' = 200' lead-off ditch interval

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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Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

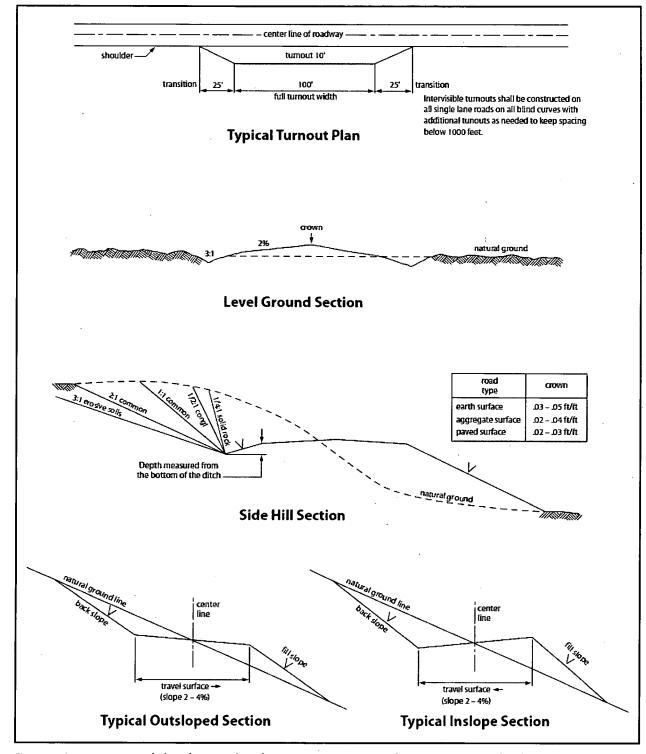


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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. Use a maximum netting mesh size of 1 ½ inches.

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.

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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.

All permanent above ground facilities, including the well-drive control system, treatment, storage, power (except specifically approved electrical transmission lines and poles), or other structures and appurtenances will be low profile (less than 8 feet in height). Any exception to the low profile facilities must be approved in writing by the BLM Authorized Officer prior to implementation.

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, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. SURFACE PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 et seq. (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (see 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. Holder agrees to indemnify the United States against any liability arising from the

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release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

- 4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.
- 6. All construction and maintenance activity shall be confined to the authorized right-of-way width of 30 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of

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the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

- 7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.
- 8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.
- 9. The pipeline shall be buried with a minimum of ______6 ___ inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

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- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder 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 will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
- 16. 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, powerline 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.
- 17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.
- 18. Special Stipulations:

C. BURIED PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the

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reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:
 - Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>30</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)
 - Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while

leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)

The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be

segregated from other spoil piles from trench construction. The topsoil will be evenly

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When

necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

distributed over the bladed area for the preparation of seeding.

- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	(x) seed mixture 3
() seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

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- 13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2.
- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder 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 will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.
- 17. 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 associated roads, 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.
- 18. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall

Page 20 of 25

- inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.
- 19. Special Stipulations:

D. OVERHEAD ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in

Page 21 of 25

writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder 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 will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and

Page 22 of 25

any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

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.

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

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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).

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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 no 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	lb/acre
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 x percent purity x percent germination = pounds pure live seed



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



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Stephanie Rabadue	•	Signed on: 05/17/2018
Title: Regulatory Coordinator		
Street Address:		
City:	State:	Zip:
Phone: (432)620-6714		
Email address: stephanie_rabadue	e@xtoenergy.com	
Field Representative		
Representative Name:		
Street Address:		
City: S	tate:	Zip:
Phone:		
Email address:		



APD ID: 10400046047

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

Application Data Report

Submission Date: 08/20/2019

Highlighted data reflects the most

recent changes

Well Number: 165H

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400046047

Tie to previous NOS? N

Submission Date: 08/20/2019

BLM Office: CARLSBAD

User: Stephanie Rabadue

Title: Regulatory Coordinator

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM099147

Lease Acres: 960

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: XTO ENERGY INCORPORATED

Operator letter of designation:

Operator Info

Operator Organization Name: XTO ENERGY INCORPORATED

Operator Address: 2277 Springwoods Village Parkway

Zip: 77389

Operator PO Box:

Operator City: Spring

State: TX

Operator Phone: (432)620-6700

Operator Internet Address: Richard redus@xtoenergy.com

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Number: 165H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE

Pool Name:

WOLFCAMP GAS

Is the proposed well in an area containing other mineral resources? USEABLE WATER, OTHER, NATURAL GAS, OIL

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

Is the proposed well in an area containing other mineral resources? USEABLE WATER, OTHER, NATURAL GAS, OIL

Describe other minerals: Produced Water

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: CC 8- Number: 3

32 Fed

Number of Legs: 1

Well Class: HORIZONTAL

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: DELINEATION

Describe sub-type:

Distance to town: 8 Miles

Distance to nearest well: 0 FT

Distance to lease line: 2183 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat:

CC_8_32_165H_C102_20190917062450.pdf

Well work start Date: 10/01/2019

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
SHL	251	FSL	218	FEL	25S	29E	8	Aliquot	32.14430	-	EDD	1	' ' - ' '	F	NMNM	296	0	0	N
Leg	2		3		}			NWSE	8	104.0051	Υ	1	MEXI		099147	2			
#1										08		СО	СО			L _			
KOP	251	FSL	218	FEL	25S	29E	8	Aliquot	32.14430	-	EDD	NEW	NEW	F	NMNM	-	852	852	N
Leg	2		3					NWSE	8	104.0051	Υ	MEXI	MEXI		099147	555	0	0	
#1								:		08		CO	СО	i		8			
PPP	330	FSL.	231	FEL	25S	29E	5	Aliquot	32.15242	-	EDD	NEW	NEW	F.	NMNM	-	138	107	Υ
Leg			0					SWSE		104.0129	Υ	MEXI	MEXI		015302	779	00	58	
#1-1	•											co	co			6			

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
PPP	231	FNL	231	FEL	25S	29E	8	Aliquot	32.14561	_	EDD	NEW	NEW	F	NMNM	-	111	107	Υ
Leg	0		0					SWNE	5	104.0055	Υ	MEXI	MEXI		055929	779	00	58	
#1-2										15		co	co			6			
EXIT	231	FSL	231	FEL	248	29E	32	Aliquot	32.17283	-	EDD	NEW	NEW	s	STATE	-	210	107	Y
Leg	0		0					NWSE	9	104.0055	Υ	1	MEXI			779	00	58	
#1									•	45		со	co			6			
BHL	244	FSL	231	FEL	248	29E	32	Aliquot	32.17319	-	EDD	NEW	NEW	s	STATE	-	211	107	Y
Leg	0		0					NWSE	6	104.0055			MEXI			779	25	58	
#1										46		co	co			6			



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

Drilling Plan Data Report

11/21/2019

APD ID: 10400046047

Submission Date: 08/20/2019

Highlighted data reflects the most

recent changes

Well Name: CORRAL CANYON 8-32 FEDERAL

Operator Name: XTO ENERGY INCORPORATED

Well Number: 165H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical		l idla al a si a a	Min and Dansey	Producing
1		_	Depth	Depth	Lithologies	Mineral Resources	Formation
1	PERMIAN	2962	0	0	OTHER : Quaternary	NONE	N
2	RUSTLER	2640	322	322	SILTSTONE	USEABLE WATER	N
3	TOP SALT	2275	687	687	SALT	NONE	N
4	BASE OF SALT	362	2600	2600	SALT	NONE	N
5	DELAWARE	159	2803	2803	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
6	BONE SPRING	-3594	6556	6556	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
7	BONE SPRING 1ST	-4542	7504	7504	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
8	BONE SPRING 2ND	-4758	7720	7720	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
9	BONE SPRING 3RD	-5600	8562	8562	SANDSTONE	USEABLE WATER,OTHER,NATUR AL GAS,OIL: produced	N
10	WOLFCAMP	-6760	9722	9722	SHALE	USEABLE WATER,OTHER,NATUR AL GAS,OIL : produced	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 10758

Equipment: Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8 minimum 5M Hydril and a 13-5/8 minimum 10M 3-Ram BOP. MASP should not exceed 5176 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 psi.

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. When nippling up on the 11-3/4", 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When nippling up on the 8-5/8", the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip,

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

pipe rams will be functioned tested each day.

Choke Diagram Attachment:

CC_8_32_10MCM_20190819060822.pdf

BOP Diagram Attachment:

CC_8_32_10M5MB 20190819060837.pdf

Pressure Rating (PSI): 2M

Rating Depth: 530

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8 minimum 2M Hydril and a 13-5/8 minimum 2M 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 manufacturers 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. When nippling up, the BOP test will be limited to 3,000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 2M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

CC_8_32_2MCM 20190819060728.pdf

BOP Diagram Attachment:

CC_8_32_2MBOP_20190819060744.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	18.5	16.0	NEW	API	N	0	663	0	663	2962	2299	663	J-55	75	ST&C	3.4	3.2	DRY	14.2 8	DRY	14.2 8
2	INTERMED IATE	14.7 5	11.75	NEW	API	N	0	2651	0	2651		311	2651	J-55	54	ST&C	2.48	1.19	DRY	3.97	DRY	3.97
3	INTERMED IATE	10.6 25	8.625	NEW	API	N	0	10000	0	10000		-7038	10000	HCL -80	32	витт	1.67	1.1	DRY	2.29	DRY	2.29
4	PRODUCTI ON	7.87 5	5.5	NEW	API	N	0	21125	0	10758	2969	-7796	21125	P- 110	20	BUTT	1.47	1.33	DRY	2.28	DRY	2.28

Operator Name: XTO ENERGY INCORPORATED Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H **Casing Attachments** Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): CC_8_32_165H_Csg_20190820054834.pdf Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): CC_8_32_165H_Csg_20190820054856.pdf Casing ID: 3 String Type: INTERMEDIATE **Inspection Document:** Spec Document: **Tapered String Spec:**

Casing Design Assumptions and Worksheet(s):

CC_8_32_165H_Csg_20190820054906.pdf

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_8_32_165H_Csg_20190820054813.pdf

Section 4 - Cement

	1		1	,	T					, 	
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	663	180	1.87	12.9	336.6	100	Econocem- HLTRRC	None
SURFACE	Tail				200	1.35	14.8	270	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	630	0	2651	980	1.87	12.9	1832. 6	100	EconoCem- HLTRRC	None
INTERMEDIATE	Tail				340	1.35	14.8	459	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	2701	0	2701	490	1.88	12.9	921.2	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				150	1.33	14.8	199.5	100	Halcem-C	2%CaCl
INTERMEDIATE	Lead	2701	2701	1000 0	1400	1.88	12.9	2632	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				310	1.33	14.8	412.3	100	Halcem-C	2% CaCl
PRODUCTION	Lead	,	0	2112 5	810	2.69	10.5	2178. 9	30	NeoCem	None
PRODUCTION	Tail				1580	1.61	13.2	2543. 8	30	VersaCem	None .

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

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)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	633	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.
633	2651	OTHER: Brine/Gel Sweeps	9.8	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.
1000	1075 8	POLYMER	13.2	13.5				•			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

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Number: 165H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											loop system.
2651	1000	OTHER : FW / Cut Bring	8.7	10							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/10000' 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.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5985

Anticipated Surface Pressure: 3620

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_8_32_H2S_P1_3_20190807085702.pdf

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

CC_8_32_H2S_Plan_20190807085653.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CC_8_32_165H_DD_20190820055009.pdf

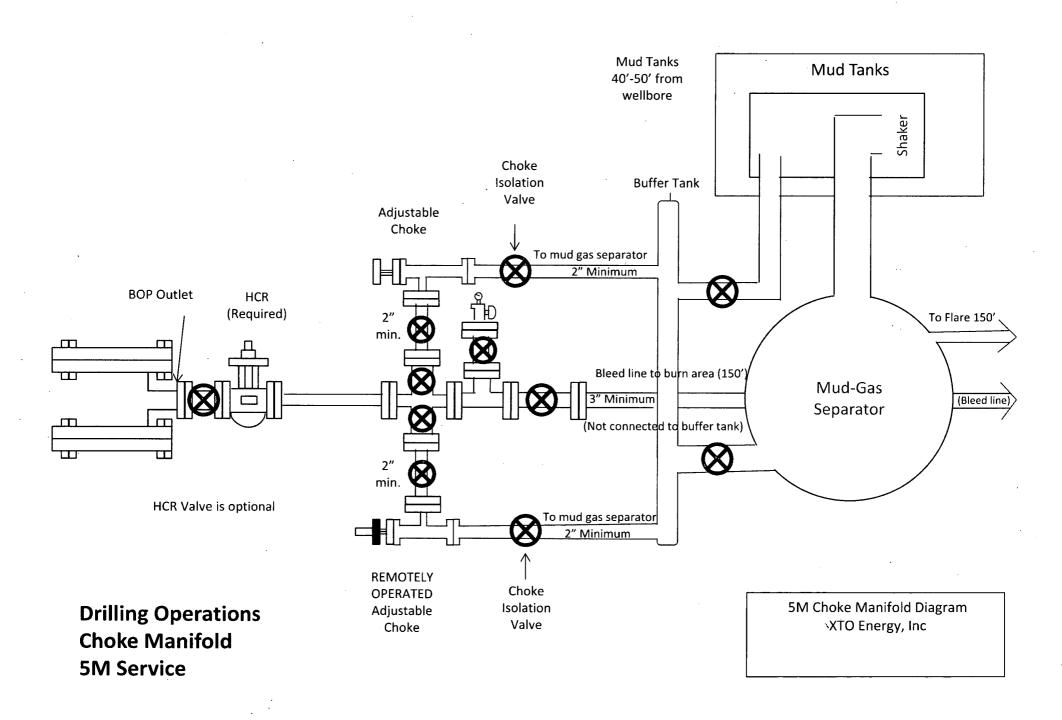
Other proposed operations facets description:

Other proposed operations facets attachment:

CC_8_32_165H_GCP_20190820055017.pdf

Other Variance attachment:

CC_8_32_5.5MBS_20190809122833.pdf CC_8_32_FH_20190807085927.pdf

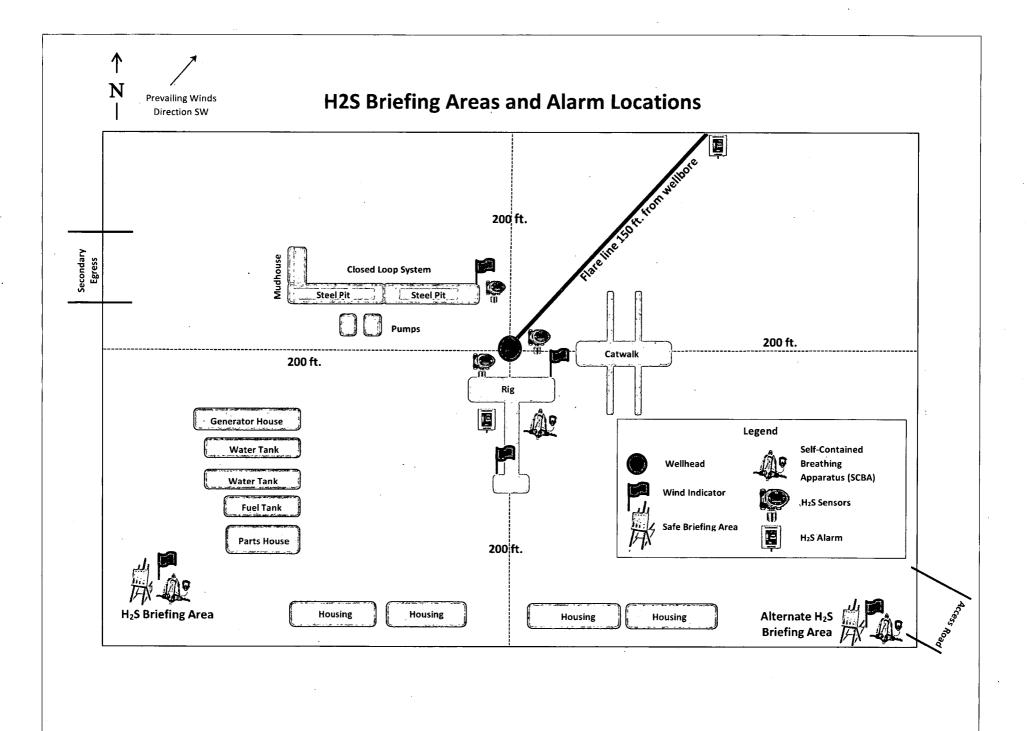


Casin	Design	 										
	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collanse	SF Tension	-	,
	18-1 <i>1</i> 2°°	0' - 663'	16"	75	STC	J-55	New	3.20	3.40	14.28	***************************************	
	14-3/4"	0' - 2651'	11-3/4"	54	STC	J-55	New	1.19	2.48	3.97		
	10-5/8"	0' - 10000'	8-5/8"	32	втс	HCL-80	New	1.10	1.67	2.29		
	7-7/8"	0' - 21125'	5-1 <i>[</i> 2"	20	втс	P-110	New	1.33	1.47	2.28	performance of the second seco	
	- 11-3/4" Collap - 8-5/8" Collaps - 5-1/2" Tension	e analyzed using calculated usin	ig 50% evac 33% evaci g vertical ha	cuation bas lation base nging weig	ed on regional expe d on regional expe int plus the lateral	erience. weight multiplied by a	friction fact	or of 0.	35			
Wellhea	- Test on 2M Ar d:	inular & Casing v	vill be limited	to 70% bu	irst of the casing o	or 1500 psi, whichver	is less					
	Temporary W	- 16" SOW bott										
	Permanent W A. Starting Head	d: 13-5/8° 10M to	p flange x 1	1-3/4° SOV	V bottom							
	B. Tubing Head	- Wellhead will	be installed	by manufac	cturer's representa						and the state of t	
<u> </u>		- Operator will t	test the 8-5/	8" casing p	er BLM Onshore C							
	<u> </u>	- Wellhead Man	ufacturer re	presentativ	e will not be prese	ent for BOP test plug in	rstallation					

18-1/2" 14-3/4"	0' - 663'	16°					DUISE	Collapse	161151011	
14-3/4"		I '*	75	STC	J-55	New	3.20	3.40	14.28	
	0' - 2651'	11-3/4"	54	STC	J-55	New	1.19	2.48	3.97	
10-5/8"	0' - 10000'	8-5/8°	32	втс	HCL-80	New	1.10	1.67	2.29	
7-7/8"	0' - 21125'	5-1/2°	20	втс	P-110	New	1.33	1.47	2.28	
- 5-1/2" Tens - Test on 2M Wellhead: Temporary Permanent	ion calculated usin Annular & Casing	ig vertical ha will be timited tom × 16-3/4* RSH Multib	anging weig d to 70% bu 214 top fla Dowl Syste	urst of the casing of lines.	weight multiplied by a r 1500 psi, whichver	a friction fact r is less	or of O.	35		
	ad: 13-5/8° 10M bo - Wellhead will	ttom flange : be installed	x 7-1/16° 15 by manufac	SM top flange cturer's representa	itives. opropriate temperatu	re of seal				
	- Operator will	test the 8-5/	/8" casing p	er BLM Onshore O	order 2 ent for BOP test plug					

Casin	g Design		+	+	1	 	_	 	+	 	+	
	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF	SF	SF		
	- 18-1 <i>/2</i> **	0' - 663'	16°	75	STC	J-55	New	Burst 3.20		14.28		
	- 14-3/4"	0' - 2651'	11-3/4"	54	STC	J-55	New	1.19	2.48	3.97		
-	10-5/8*	0' - 10000'	8-5/8*	32	втс	HCL-80	New	1.10	1.67	2.29		
	7-7/8**	0' - 21125'	5-1/2°	20	ВТС	P-110	New	1.33	1.47	2.28		
	- 11-3/4" Collapse - 8-5/8" Collapse - 5-1/2" Tension - Test on 2M An	e analyzed using n calculated using	ing 50% evac g 33% evacu ig vertical ha	cuation bas uation base inging weig	sed on regional exp ed on regional expo ght plus the lateral			tor of 0	.35			
Wellhea	ad: Temporary We		-									
	Permanent W	- 16" SOW botto										
	A. Starting Head: B. Tubing Head:	d: 13-5/8" 10M to : 13-5/8" 10M bot	op flange x 1 ottom flange x	11-3/4" SOV x 7-1/16" 15	W bottom 5M top flange							
		- Manufacturer	r will monitor	welding pro	cturer's represente rocess to ensure a per BLM Onshore C	appropriate temperat	ture of seal.	ļ				•
						order 2 sent for BOP test plu	g installation					

	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collanse	SF Tension	
	18-1/2*	0' 663'	16"	75	STC	J-55	New	3.20	3.40	14.28	
	14-3/4"	0° – 2651°	11-3/4"	54	STC	J-55	New	1.19	2.48	3.97	
	10-5/8"	0' - 10000'	8-5/8"	~ 32	BTC	HCL-80	New	1.10	1.67	2.29	
	7-7/8"	0' - 21125'	5-1 <i>1</i> 2°	20	втс	P-110	New	1.33	1.47	2.28	NO COLUMN TO SERVICE AND ADDRESS OF THE PARTY OF THE PART
	- XTO requests to not utilize centralizers in the curve and lateral - 11-3/4* Collapse analyzed using 50% evacuation based on regional experience. - 8-5/6* Collapse analyzed using 33% evacuation based on regional experience. - 5-1/2* Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35 - Test on 2M Annular & Casing will be limited to 70% burst of the casing or 1500 psi, whicher is less										
Wellhead	i: Temporary W	! 'ellhead]- 16" SOW botte	nm x 16-3/4*	2M top fla	nge						
		'ellhead – GE F	RSH Multib	owi Syste	m						
		d: 13-5/8* 10M to : 13-5/8* 10M bot - Wellhead will	tom flange x	c 7-1/16° 1		atives.					
		- Operator will t	est the 8-5/	8" casing p	er BLM Onshore (
						ent for BOP test plu I	g installation				





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	H₂S	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 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 8 32 Fed #165H

ОН

Plan: PERMIT

Standard Planning Report

15 May, 2019

Project: Eddy County, NM (NAD-27) Site: Corral Canyon 8 32 Fed Well: #165H 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 1868
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #165H

Rig Name:
Ref GL @ 2962.00usft
Ground Level: 2962.00
Easting Latittude
601739.90 32.1441840 +N/-S +E/-W 0.00 0.00 Longitude -104.0046198

DESIGN TARGET DETAILS

Name	. TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude Shape
#165H: SHL (2512' FSL/ 2183' FEL)	0.00	0.00	0.00	416331.10	601739.90	32.1441840	-104.0046198 Point
#165H: FTP	10758.00	474.90	-127.60	416806.00	601612.30	32.1454906	-104.0050274 Point
#165H: LTP	10758.00	10378.20	-166.70	426709.30	601573.20	32.1727149	-104.0050562 Point
#165H: PBHL (2440' FSL/ 2310' FEL)	10758.00	10508.20	-167.20	426839.30	601572.70	32.1730723	-104.0050565 Point
						02.1.00.20	10.1000000 1 0.11

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Vertical Section at 359.77° (1800 usft/in)

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented.

Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the user.

Plan: PERMIT (#165H/OH)

Created By: Matthew May Date: 17:48, May 15 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 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	API Number 30-015-	r		² Pool Code	2		³ Pool Nan	ne	•
⁴ Property (Code				⁵ Property N	lame			⁶ Well Number
				(CORRAL CANYO	ON 8-32 FED			165H
⁷ OGRID	No.				8 Operator 1	Name			⁹ Elevation
00538)				XTO ENERG	Y, INC.			2,962'
					¹⁰ Surface I	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County
J	8	25 S	29 E		2,512	SOUTH	2,183	EAST	EDDY
			11 Bo	ttom Hol	le Location If	Different Fron	1 Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne County
J	32	24 S	29 E		2,440	SOUTH	2,310	EAST	EDDY
12 Dedicated Acres	13 Joint o	r Infill	¹⁴ Consolidation	Code 15 Or	der No.			-	1

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.

GEODETIC COORDINATES GEODETIC COORDINATES	T24S R29E	17 OPERATOR CERTIFICATION
NAD 27 NME NAD 83 NME SURFACE LOCATION SURFACE LOCATION	+	I hereby certify that the information contained herein is true and complete
SURFACE LOCATION SURFACE LOCATION Y= 416,331.1 Y= 416,389.5		to the best of my knowledge and belief, and that this organization either
X= 601,739.9 X= 642,924.1 LAT.= 32.144184*N LAT.= 32.144308*N	I I B.H.L.	owns a working interest or unleased mineral interest in the land including
LONG.= 104.004620'W LONG.= 104.005108'W		the proposed bottom hole location or has a right to drill this well at this
FIRST TAKE POINT FIRST TAKE POINT	2310'	location pursuant to a contract with an owner of such a mineral or working
NAD 27 NME NAD 83 NME	L.T.P.1	interest, or to a voluntary pooling agreement or a compulsory pooling
Y= 416,806.0 Y= 416,864.5 X= 601,612.3 X= 642,796.5	+ <u>G</u> <u>+</u> -+++	order heretofore entered by the division.
LAT.= 32.145491'N LAT.= 32.145615'N		order neverajore entered by the division.
	SEC. 32 G H SEC. 33	
CORNER COORDINATES TABLE NAD 27 NME	SEC. 32 G, H SEC. 33	Signature Date
A - Y= 416,472.0 N, X= 601,266.3 E B - Y= 416,460.0 N, X= 602,594.5 E	LOT 4 LOT 3 LOT 2 LOT 1 39.44 AC 39.53 AC 39.62 AC 39.71 AC	(
C - Y= 419,118.7 N, X= 601,292.9 E	39.44 AC. 39.53 AC. 39.62 AC. 39.77 AC.	Printed Name
D - Y= 419,108.8 N, X= 602,591.0 E E - Y= 421,765.3 N, X= 601,264.1 E	++ GRID AZ.=359*46'20" HORIZ. DIST.=10.033.59	Finicu Name
F - Y= 421,758.9 N, X= 602,585.1 E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
G - Y= 424,399.3 N, X= 601,265.3 E H - Y= 424,399.7 N, X= 602,578.5 E	5. 4. 5	E-mail Address
- Y= 427,059.0 N, X= 601,249.6 E J - Y= 427,056.8 N, X= 602,565.7 E		
CORNER COORDINATES TABLE	330'	18SURVEYOR CERTIFICATION
NAD 83 NME A - Y= 416.530.4 N. X= 642.450.5 E		I hereby certify that the well location shown on this
B - Y= 416,518.5 N, X= 643,778.7 E		, ,,,
C - Y= 419,177.2 N, X= 642,447.0 E D - Y= 419,167.3 N, X= 643,775.1 E		plat was plotted from field notes of actual surveys
E - Y= 421,823.8 N, X= 642,448.1 E	SEC. 5	made by me or under my supervision, and that the
F - Y= 421,817.5 N, X= 643,769.1 E G - Y= 424,457.9 N, X= 642,449.2 E	CI AI ID	same is true and correct to the best of my belief.
H - Y= 424,458.3 N, X= 643,762.5 E I - Y= 427,117.7 N, X= 642,433.5 E		
J - Y= 427,117.7 N, X= 643,749.6 E	0	4-22-2019
LAST_TAKE_POINT LAST_TAKE_POINT	GRID AZ.=344'57'44" HORIZ. DIST.=491.82'	Date of Survey
NAD 27 NME NAD 83 NME Y= 426,709.3 Y= 426,768.0	F.T.P. HORIZ. DIST.=491.82	Signatue and Seal of
X= 601,573.2 X= 642,757.1		Professional Surveyor:
LAT.= 32.172715'N LAT.= 32.172839'N LONG.= 104.005056'W LONG.= 104.005545'W	A B	PRELIMINARY, THIS DOCUMENT SHALL NOT
BOTTOM HOLE LOCATION BOTTOM HOLE LOCATION	S.H.L. 2183'	BE RECORDED FOR ANY PURPOSE AND
NAD 27 NME NAD 83 NME	T25S R29E	SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT
Y= 426,839.3 Y= 426,898.0 X= 601,572.7 X= 642,756.6	23.	· · · · · · · · · · · · · · · · · · ·
LAT.= 32.173072'N LAT.= 32.173196'N	122	MARK DILLON HARP 23786
LONG.= 104.005056'W LONG.= 104.005546'W	SEC. 8	Certificate Number AI 2017091566



Database: Company: Project:

EDM 5000.1.13 Single User Db

XTO Energy

Eddy County, NM (NAD-27)

Well: Wellbore: Design:

Site:

Corral Canyon 8 32 Fed

#165H ОН **PERMIT** Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #165H

Ref GL @ 2962.00usft Ref GL @ 2962.00usft

Grid

Minimum Curvature

Project

Eddy County, NM (NAD-27)

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

New Mexico East 3001

NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

Map Zone:

Site

From:

Corral Canyon 8 32 Fed

Site Position:

Northing: Easting:

416,385.50 usft 599,673.60 usft

Latitude:

32.1443508

Position Uncertainty:

0.00 usft Slot Radius:

13-3/16 "

Longitude:

-104.0112953

Grid Convergence:

0.17°

Well **Well Position** #165H

Мар

+N/-S -54.40 usft +E/-W 2,066.30 usft

Northing: Easting:

416,331.10 usft 601,739.90 usft Latitude: Longitude:

32.1441841 -104.0046198

Position Uncertainty

0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

2,962.00 usft

Wellbore ОН

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/15/19	6.94	59.90	47,652

Design PERMIT					,
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	359.77	

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	
8,520.00	0.00	0.00	8,520.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,769.84	5.00	222.66	8,769.53	-8.01	-7.38	2.00	2.00	0.00	222.66	
10,155.13	5.00	222.66	10,149.55	-96.74	-89.14	0.00	0.00	0.00	0.00	
11,091.72	90.00	359.77	10,758.00	474.90	-127.60	10.00	9.08	14.64	137.01	#165H: FTP
20,995.10	90.00	359.77	10,758.00	10,378.20	-166.69	0.00	0.00	0.00	0.00	#165H: LTP
21,125.10	90.00	359.77	10,758.00	10,508.20	-167.20	0.00	0.00	0.00	0.00	#165H: PBHL (2



Database: Company: Project:

Site:

EDM 5000.1.13 Single User Db

XTO Energy

Eddy County, NM (NAD-27) Corral Canyon 8 32 Fed

Well: Wellbore: Design: #165H OH PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #165H

Ref GL @ 2962.00usft Ref GL @ 2962.00usft

Grid

anned	Survey				manatana manangiapanampainam and					
	easured 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
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	351.00	0.00	0.00	351.00	0.00	0.00	0.00	0.00	0.00	0.00
	RUSTLER			the service of the constraint service of	الدارات الدارة الموسسية. الدارجة الدارية في الدارية	ر در دور ساید بیشند.				
	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
	699.00	0.00	0.00	699.00	0.00	0.00	0.00	0.00	0.00	0.00
	SALADO									
	700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
	800.00	0.00	0.00	800.00	0.00	0.00	. 0.00	0.00	0.00	0.00
	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,400.00	0.00	0.00	1,400.00	0.00	0.00	. 0.00	0.00	0.00	0.00
	1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,615.00	0.00	0.00	2,615.00	0.00	0.00	0.00	0.00	0.00	0.00
;	BASE SAL			2,010.00			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
	2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	2,815.00	0.00	0.00	2,815.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00
	DELAWAR		and the same of th		en er					reported to their more integer to an approximation
	2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,713.00	0.00	0.00	3,713.00	0.00	0.00	0.00	0.00	0.00	0.00
	CHERRY C	ANYON					in the second		* * *	
	3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0:00	0.00	0.00
	4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db XTO Energy

Project: Site:

Eddy County, NM (NAD-27) Corral Canyon 8 32 Fed

#165H Well: Wellbore: ОН Design: PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well #165H

Ref GL @ 2962.00usft Ref GL @ 2962.00usft

lann	ned Survey	<u> </u>								
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
ı	5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,307.00	0.00	0.00	5,307.00	0.00	0.00	0.00	0.00	0.00	0.00
-	BRUSHY C	ANYON								
	5.400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	
	6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
	6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	-									•
	6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,500.00 6,568.00	0.00 0.00	0.00 0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
; -	BONE SPR			6,568.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,600.00	0.00	0.00	6.600.00	0.00	0.00		0.00		
	6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	•			•						
	6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
,- ·-	7,507.00	0.00	0.00	7,507.00	0.00	0.00	0.00	0.00	0.00	0.00
٠.		SPRING SAN		7.600.00	0.00			7.00		
	7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,728.00	0.00	0.00	7,728.00	0.00	0.00	0.00	0.00	0.00	0.00
		SPRING CAR							and the second	
	7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,326.00	0.00	0.00	8,326.00	0.00	0.00	0.00	0.00	0.00	0.00
٠.		SPRING SAN								
٠	8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
				•						
	8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	8,520.00	0.00	0.00	8,520.00	0.00	0.00	0.00	0.00	0.00	0.00



EDM 5000.1.13 Single User Db XTO Energy Database:

Company:

Eddy County, NM (NAD-27) Project: Site: Corral Canyon 8 32 Fed

Well: #165H Wellbore: ОН Design: PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well #165H

Ref GL @ 2962.00usft Ref GL @ 2962.00usft

Grid

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)
8,567.00	0.94	222.66	8,567.00	-0.28	-0.26	-0.28	2.00	2.00	0.00
	SPRING CAR								
8,600.00 8,700.00	1.60 3.60	222.66 222.66	8,599.99 8,699.88	-0.82 -4.16	-0.76 -3.83	-0.82 -4.14	2.00 2.00	2.00 2.00	0.00 0.00
8,769,84	5.00	222.66	8,769.53	-8.01	-7.38	-7.98	2.00	2.00	0.00
8,800.00	5.00	222.66	8,799.57	-9.94	-9.16	-9.90	0.00	0.00	0.00
8,900.00	5.00	222.66	8,899.19	-16.34	-15.06	-16.28	0.00	0.00	0.00
9,000.00	5.00	222.66	8,998.81	-22.75	-20.96	-22.67	0.00	0.00	0.00
9,100.00	5.00	222.66	9,098.43	-29.16	-26.86	-29.05	0.00	0.00	0.00
9,200.00	5.00	222.66	9,198.05	-35.56					
9,300.00	5.00	222.66	9,196.05	-35.56 -41.97	-32.77 -38.67	-35.43 -41.81	0.00	0.00	0.00
9,400.00	5.00	222.66	9,397.29	-41.97 -48.37	-36.67 -44.57	-41.81 -48.19	0.00	0.00	0.00
9,402.72	5.00	222.66	9,400.00	-46.57 -48.55	-44.57 -44.73	-48.19 -48.37	0.00 0.00	0.00	0.00
	SPRING SAN		3,400.00	-40.00	~+4./3	-40.3/		0.00	0.00
9,500.00	5.00	222.66	9,496.91	-54.78	-50.47	-54.57	0.00	0.00	0.00
9,600.00	5.00	222.66	9,596.53	-61.18	-56.38	-60.96	0.00	0.00	0.00
9,700.00	5.00	222.66	9,696.15	-67.59	-62.28	-67.34	0.00	0.00	0.00
9,776.14	5.00	222.66	9,772.00	-72,47	-66.77	-72.20	0.00	0.00	0.00
WOLFCAN									
9,800.00	5.00	222.66	9,795.77	-73.99	-68.18	-73.72	0.00	0.00	0.00
9,900.00	5.00	222.66	9,895.39	-80.40	-74.08	-80.10	0.00	0.00	0.00
9,912.66	5.00	222.66	9,908.00	-81.21	-74.83	-80.91	0.00	0.00	0.00
WOLFCAN									
10,000.00	5.00	222.66	9,995.01	-86.81	-79.98	-86.48	0.00	0.00	0.00
10,100.00	5.00	222.66	10,094.63	-93.21	-85.89	-92.87	0.00	0.00	0.00
10,155.13	5.00	222.66	10,149.55	-96.74	-89.14	-96.38	0.00	0.00	0.00
10,200.00	3.50	283.44	10,194.31	-97.86	-91.80	-97.49	10.00	-3.33	135.47
10,226.75	4.88	315.64	10,221.00	-96.86	-93.39	-96.48	10.00	5.16	120.34
WOLFCAN	IP B							پونو بورد در دیند در اماد است در ا	
10,250.00	6.75	329.58	10,244.13	-94.97	-94.77	-94.59	10.00	8.01	59.96
10,300.00	11.34	342.52	10,293.50	-87.74	-97.74	-87.35	10.00	9.20	25.89
10,350.00	16.18	347.94	10,342.05	-76.23	-100.68	-75.83	10.00	9.67	10.84
10,400.00	21.09	350.90	10,389.41	-60.53	-103.56	-60.11	10.00	9.82	5.92
10,450.00	26.04	352.78	10.435.23	-40.74	-106.36	-40.32	10.00	9.89	3.76
10,500.00	31.00	354.09	10,479.15	-17.04	-100.30	-16.60	10.00	9.92	2.62
10,550.00	35.97	355.07	10,520.84	10.42	-111.66	10.86	10.00	9.94	1.96
10,600.00	40.94	355.84	10,559.98	41.40	-114.11	41.86	10.00	9.95	1.54
10,650.00	45.93		10,596.28	75.69	-116.40	76.16	10.00	9.96	1.26
10,697.70	50.68	356.98	10,628.00	111.24	-118.43	111.71	10.00	9.97	1.07
WOLFCAN						''	10.00	3.31	1.07
10,700.00	50.91	357.00	10,629,45	113.02	-118.52	113.50	10.00	9.97	0.99
10,750.00	55.90	357.46	10,659.25	153.10	-110.32	153:59	10.00	9.97	0.99
10,800.00	60.88	357.87	10,685.45	195.64	-120.43	196.13	10.00	9.98	0.92
10,850.00	65.87	358.25	10,707.85	240.30	-123.69	240.79	10.00	9.98	0.02
,									
10,900.00	70.86	358.59	10,726.28	286.74	-124.97	287.24	10.00	9.98	0.69
10,950.00	75.85	358.91	10,740.59	334.62 .	-126.01	335.12	10.00	9.98	0.65
11,000.00	80.84	359.22	10,750.69	383.57	-126.80	384.07	10.00	9.98	0.62
11,050.00	85.83	359.53	10,756.48	433.21	-127.35	433.72	10.00	9.98	0.60
11,091.72	90.00	359.77	10,758.00	474.90	-127.60	475.41	10.00	9.98	0.60
LP	* .								
11,100.00	90.00	359.77	10,758.00	483.18	-127.63	483.68	0.00	0.00	0.00
11,200.00	90.00	359.77	10,758.00	583.17	-128.03	583.68	0.00	0.00	0.00
11,300.00	90.00	359.77	10,758.00	683.17	-128.42	683.68	0.00	0.00	0.00



Database: Company: Project:

EDM 5000.1.13 Single User Db XTO Energy Eddy County, NM (NAD-27) Site: Corral Canyon 8 32 Fed

Well: Wellbore: Design:

#165H он 🕟 PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #165H

Ref GL @ 2962.00usft Ref GL @ 2962.00usft

Grid

	,	Charles and the second				Marian de Carrier de C		and the second s	
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)
11,400.0 11,500.0		359.77 359.77	10,758.00 10,758.00	783.17 883.17	-128.82 -129.21	783.68 883.68	0.00 0.00	0.00 0.00	0.00 0.00
. 11,600.0		359.77	10,758.00	983.17	-129.61	983.68	0.00	0.00	0.00
11,700.0 11,800.0		359.77 359.77	10,758.00 10,758.00	1,083.17	-130.00	1,083.68	0.00	0.00	0.00
11,900.0		359.77	10,758.00	1,183.17 1,283.17	-130.40 -130.79	1,183.68 1,283.68	0.00 0.00	0.00 0.00	0.00 0.00
12,000.0		359.77	10,758.00	1,383.17	-131.18	1,383.68	0.00	0.00	0.00
12,100.0		359.77	10,758.00	1,483.17	-131.58	1,483.68	0.00	0.00	0.00
12,200.0		359.77	10,758.00	1,583.17	-131.97	1,583.68	0.00	0.00	0.00
12,300.0 12,400.0		359.77 359.77	10,758.00 10,758.00	1,683.17 1,783.17	-132.37	1,683.68	0.00	0.00	0.00
12,500.0		359.77	10,758.00	1,763.17	-132.76 -133.16	1,783.68 1,883.68	0.00 0.00	0.00 0.00	0.00 0.00
12,600.0		359.77	10,758.00	1,983.16	-133.55	1,983.68	0.00	0.00	0.00
12,700.0		359.77	10,758.00	2,083.16	-133.95	2,083.68	0.00	0.00	0.00
12,800.00 12,900.00		359.77 359.77	10,758.00 10,758.00	2,183.16	-134.34	2,183.68 2,283.68	0.00	0.00	0.00
13,000.0		359.77	10,758.00	2,283.16 2,383.16	-134.74 -135.13	2,263.68	0.00 0.00	0.00 0.00	0.00 0.00
13,100.0		359.77	10,758.00	2,483.16	-135.53	2,483.68	0.00	0.00	0.00
13,200.0		359.77	10,758.00	2,583.16	-135.92	2,583.68	0.00	0.00	0.00
13,300.00 13,400.00		359.77 359.77	10,758.00 10,758.00	2,683.16 2,783.16	-136.32 -136.71	2,683.68 2,783.68	0.00 0.00	0.00 0.00	0.00
13,500.00		359.77	10,758.00	2,883.16	-137.11	2,883.68	0.00	0.00	0.00 0.00
13,600.00		359.77	10,758.00	2,983.16	-137.50	2,983.68	0.00	0.00	0.00
13,700.00		359.77	10,758.00	3,083.16	-137.89	3,083.68	0.00	0.00	0.00
13,800.00 13,900.00		359.77 359.77	10,758.00 10,758.00	3,183.15 3,283.15	-138.29 -138.68	3,183.68 3,283.68	0.00 0.00	0.00 0.00	0.00 0.00
14,000.00		359.77	10,758.00	3,383.15	-139.08	3,383.68	0.00	0.00	0.00
14,100.0		359.77	10,758.00	3,483.15	-139.47	3,483.68	0.00	0.00	0.00
14,200.00 14,300.00		359.77 359.77	10,758.00 10,758.00	3,583.15 3,683.15	-139.87 -140.26	3,583.68	0.00	0.00 0.00	0.00
14,400.0		359.77	10,758.00	3,783.15	-140.26	3,683.68 3,783.68	0.00 0.00	0.00	0.00 0.00
14,500.0		359.77	10,758.00	3,883.15	-141.05	3,883.68	0.00	0.00	0.00
14,600.00		359.77	10,758.00	3,983.15	-141.45	3,983.68	0.00	0.00	0.00
14,700.00 14,800.00		359.77 359.77	10,758.00 10,758.00	4,083.15 4,183.15	-141.84 -142.24	4,083.68 4,183.68	0.00 0.00	0.00 0.00	0.00 0.00
14,900.00		359.77	10,758.00	4,283.15	-142.24	4,183.68	0.00	0.00	0.00
15,000.00	90.00	359.77	10,758.00	4,383.14	-143.03	4,383.68	0.00	0.00	0.00
15,100.00		359.77	10,758.00	4,483.14	-143.42	4,483.68	0.00	0.00	0.00
15,200.00 15,300.00		359.77 359.77	10,758.00 10,758.00	4,583.14 4,683.14	-143.81 -144.21	4,583.68 4,683.68	0.00 0.00	0.00 0.00	0.00 0.00
15,300.00		359.77	10,758.00	4,683.14 4,783.14	-144.21 -144.60	4,683.68	0.00	0.00	0.00
15,500.00		359.77	10,758.00	4,883.14	-145.00	4,883.68	0.00	0.00	0.00
15,600.00		359.77	10,758.00	4,983.14	-145.39	4,983.68	0.00	0.00	0.00
15,700.00 15,800.00		359.77 359.77	10,758.00 10,758.00	5,083.14	-145.79	5,083.68	0.00	0.00	0.00
15,800.00		359.77 359.77	10,758.00	5,183.14 5,283.14	-146.18 -146.58	5,183.68 5,283.68	0.00 0.00	0.00 0.00	0.00
16,000.00		359.77	10,758.00	5,383.14	-146.97	5,383.68	0.00	0.00	0.00
16,100.00		359.77	10,758.00	5,483.14	-147.37	5,483.68	0.00	0.00	0.00
16,200.00		359.77	10,758.00	5,583.14	-147.76	5,583.68	0.00	0.00	0.00
16,300.00 16,400.00		359.77 359.77	10,758.00 10,758.00	5,683.13 5,783.13	-148.16 -148.55	5,683.68 5,783.68	0.00	0.00	0.00
16,500.00		359.77	10,758.00	5,763.13 5,883.13	-148.55 -148.95	5,783.68 5,883.68	0.00 0.00	0.00 0.00	0.00 0.00
16,600.00		359.77	10,758.00	5,983.13				0.00	
16,700.00		359.77 359.77	10,758.00	5,983.13 6,083.13	-149.34 -149.73	5,983.68 6,083.68	0.00 0.00	0.00	0.00 0.00



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Eddy County, NM (NAD-27)
Site: Corral Canyon 8 32 Fed

Well: Wellbore: Design: #165H OH

PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well #165H

Ref GL @ 2962.00usft Ref GL @ 2962.00usft

Grid

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)
16,800.00	90.00	359.77	10,758.00	6,183.13	-150.13	6,183.68	0.00	0.00	0.00
16,900.00	90.00	359.77	10,758.00	6,283.13	-150.52	6,283.68	0.00	0.00	0.00
17,000.00	90.00	359.77	10,758.00	6,383.13	-150.92	6,383.68	0.00	0.00	0.00
17,100.00	90.00	359.77	10,758.00	6,483.13	-151.31	6,483.68	0.00	0.00	0.00
17,200.00	90.00	359.77	10,758.00	6,583.13	-151.71	6,583.68	0.00	0.00	0.00
17,300.00	90.00	359.77	10,758.00	6,683.13	-152.10	6,683.68	0.00	0.00	0.00
17,400.00	90.00	359.77	10,758.00	6,783.13	-152.50	6,783.68	0.00	0.00	0.00
17,500.00	90.00	359.77	10,758.00	6,883.13	-152.89	6,883.68	0.00	0.00	0.00
17,600.00	90.00	359.77	10,758.00	6,983.12	-153.29	6,983.68	0.00	0.00	0.00
17,700.00	90.00	359.77	10,758.00	7,083.12	-153.68	7,083.68	0.00	0.00	0.00
17,800.00	90.00	359.77	10,758.00	7,183.12	-154.08	7,183.68	0.00	0.00	0.00
17,900.00	90.00	359.77	10,758.00	7,283.12	-154.47	7,283.68	0.00	0.00	0.00
18,000.00	90.00	359.77	10,758.00	7,383.12	-154.87	7,383.68	0.00	0.00	0.00
18,100.00	90.00	359.77	10,758.00	7,483.12	-155.26	7.483.68	0.00	0.00	0.00
18,200.00	90.00	359.77	10,758.00	7,583.12	-155.66	7,583.68	0.00	0.00	0.00
18,300.00	90.00	359.77	10,758.00	7,683.12	-156.05	7,683.68	0.00	0.00	0.00
18,400.00	90.00	359.77	10,758.00	7,783.12	-156.44	7,783.68	0.00	0.00	0.00
18,500.00	90.00	359.77	10,758.00	7,883.12	-156.84	7,883.68	0.00	0.00	0.00
18,600.00	90.00	359.77	10,758.00	7,983.12	-157.23	7,983.68	0.00	0.00	0.00
18,700.00	90.00	359.77	10,758.00	8,083.12	-157.63	8,083.68	0.00	0.00	0.00
18,800.00	90.00	359.77	10,758.00	8,183.12	-158.02	8,183.68	0.00	0.00	0.00
18,900.00	90.00	359.77	10,758.00	8,283.11	-158.42	8,283.68	0.00	0.00	0.00
19,000.00	90.00	359.77	10,758.00	8,383.11	-158.81	8,383.68	0.00	0.00	0.00
19,100.00	90.00	359.77	10,758.00	8,483.11	-159.21	8,483.68	0.00	0.00	0.00
19,200.00	90.00	359.77	10,758.00	8,583.11	-159.60	8,583.68	0.00	0.00	0.00
19,300.00	90.00	359.77	10,758.00	8,683.11	-160.00	8,683.68	0.00	0.00	0.00
19,400.00	90.00	359.77	10,758.00	8,783.11	-160.39	8,783.68	0.00	0.00	0.00
19,500.00	90.00	359.77	10,758.00	8,883.11	-160.79	8,883.68	0.00	0.00	0.00
19,600.00	90.00	359.77	10,758.00	8,983.11	-161.18	8,983.68	0.00	0.00	0.00
19,700.00	90.00	359.77	10,758.00	9,083.11	-161.58	9,083.68	0.00	0.00	. 0.00
19,800.00	90.00	359.77	10,758.00	9,183.11	-161.97	9,183.68	0.00	0.00	0.00
19,900.00	90.00	359.77	10,758.00	9,283.11	-162.36	9,283.68	0.00	0.00	0.00
20,000.00	90.00	359.77	10,758.00	9,383.11	-162.76	9,383.68	0.00	0.00	0.00
20,100.00	90.00	359.77	10,758.00	9,483.11	-163.15	9,483.68	0.00	0.00	0.00
20,200.00	90.00	359.77	10,758.00	9,583.10	-163.55	9,583.68	0.00	0.00	0.00
20,300.00	90.00	359.77	10,758.00	9,683.10	-163.94	9,683.68	0.00	0.00	. 0.00
20,400.00	90.00	359.77	10,758.00	9,783.10	-164.34	9,783.68	0.00	0.00	0.00
20,500.00	90.00	359.77	10,758.00	9,883.10	-164.73	9,883.68	0.00	0.00	0.00
20,600.00	90.00	359.77	10,758.00	9,983.10	-165.13	9,983.68	0.00	0.00	0.00
20,700.00	90.00	359.77	10,758.00	10,083.10	-165.52	10,083.68	0.00	0.00	0.00
20,800.00	90.00	359.77	10,758.00	10,183.10	-165.92	10,183.68	0.00	0.00	0.00
20,900.00	90.00	359.77	10,758.00	10,283.10	-166.31	10,283.68	0.00	0.00	0.00
20,995.10	90.00	359.77	10,758.00	10,378.20	-166.69	10,378.79	0.00	0.00	0.00
21,000.00	. 90.00	359.77	10,758.00	10,383.10	-166.71	10,383.68	0.00	0.00	0.00
21,100.00	90.00	359.77	10,758.00	10,483.10	-167.10	10,483.68	0.00	0.00	0.00
21,125.10	90.00	359.77	10,758.00	10,508.20	-167.20	10,508.79	0.00	0.00	0.00



EDM 5000.1.13 Single User Db XTO Energy Database: Company:

Project: Site: Eddy County, NM (NAD-27) Corral Canyon 8 32 Fed

Well: #165H Wellbore: ОН Design: PERMIT Local Co-ordinate Reference: Well #165H

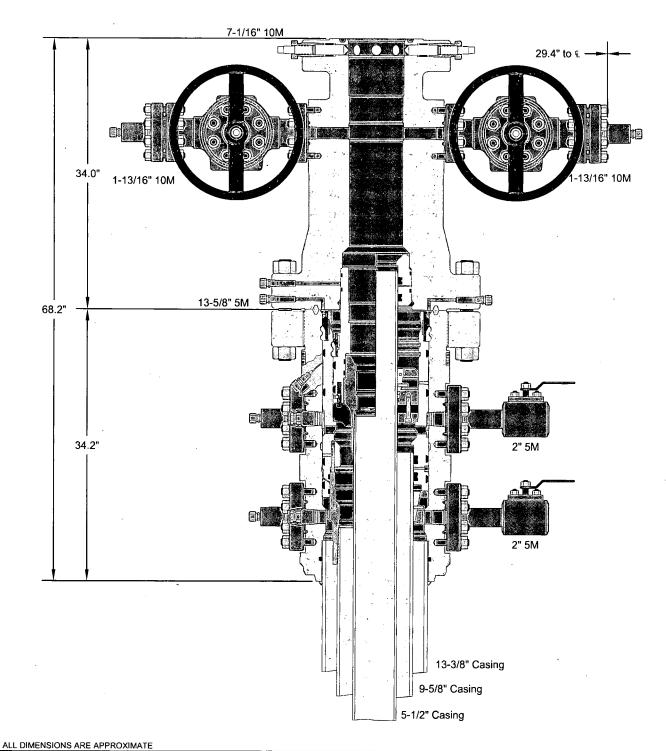
Ref GL @ 2962.00usft TVD Reference: MD Reference: Ref GL @ 2962.00usft North Reference:

Grid **Survey Calculation Method:**

Design Targets									
Target Name		r		***					
	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
#165H: SHL (2512' F\$ - plan hits target ce - Point	0.00 enter	0.00	0.00	0.00	0.00	416,331.10	601,739.90	32.1441841	-104.0046198
#165H: LTP - plan misses targe - Point	0.00 t center by		10,758.00 20995.10u	,	-166.70 8.00 TVD, 1	426,709.30 0378.20 N, -166.	601,573.20 69 E)	32.1727149 ·	-104.0050562
#165H: FTP - plan hits target ce - Point	0.00 inter	0.00	10,758.00	474.90	-127.60	416,806.00	601,612.30	32.1454906	-104.0050274
#165H: PBHL (2440' F - plan hits target ce - Point	0.00 enter	0.00	10,758.00	10,508.20	-167.20	426,839.30	601,572.70	32.1730723	-104.0050565

Formations			errore della control del control de la prophysica del control del				
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	351.00	351.00	RUSTLER				
	699.00	699.00	SALADO	•			
	2,615.00	2,615.00	BASE SALT				
	2,815.00	2,815.00	DELAWARE				
	3,713.00	3,713.00	CHERRY CANYON				
	5,307.00	5,307.00	BRUSHY CANYON				
	6,568.00	6,568.00	BONE SPRING				
	7,507.00	7,507.00	1ST BONE SPRING SAND				
	7,728.00	7,728.00	2ND BONE SPRING CARBONATE				Ĺ
	8,326.00	8,326.00	2ND BONE SPRING SAND				
	8,567.00	8,567.00	3RD BONE SPRING CARBONATE				
	9,402.72	9,400.00	3RD BONE SPRING SAND				
	9,776.14	9,772.00	WOLFCAMP				
	9,912.66	9,908.00	WOLFCAMP A				
	10,226.75	10,221.00	WOLFCAMP B				
	10,697.70	10,628.00	WOLFCAMP D	,			
	11,091.72	10,758.00	LP				





This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP. 13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead Assembly, With T-EBS-F Tubing Head Assembly, With T-EBS-F Tubing Head DRAWN VJK 16FEB17 APRV KN 16FEB17 FOR REFERENCE ONLY DRAWING NO. 10012842



GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX:

361-887-0812

EMAIL: crpe&s@gates.com

WEB:

www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer: Customer Ref. : Invoice No. :

AUSTIN DISTRIBUTING PENDING 201709

Test Date: Hose Serial No.:

Created By:

6/8/2014 D-060814-1 NORMA

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Filting 1:

Gates Part No. :

Werking Pressure:

4 1/16 in.5K FLG 4774-6001 5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:

Date:

Signature:

QUALITY

6/8/2014

Technical Supervisor:

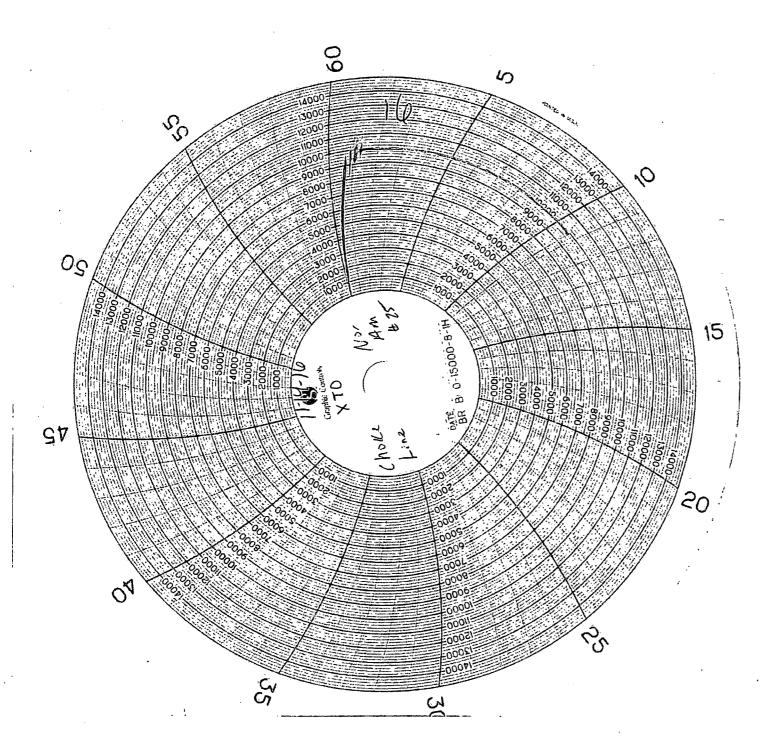
Date:

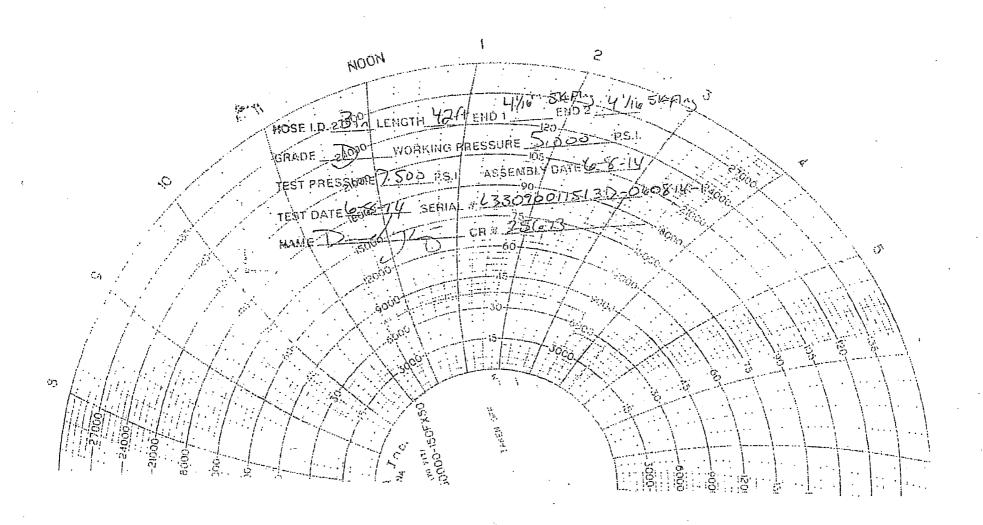
Signature:

PRODUCTION

5/8/2014

Form PTC - 01 Rev.0-2







U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

APD ID: 10400046047 Submission Date: 08/20/2019

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Type: CONVENTIONAL GAS WELL

Highlighted data reflects the most recent changes

Show Final Text

Well Number: 165H Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CC 8 32 165H Road 20190819060322.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

CC_8_32_Road_20190807053901.pdf

New road type: LOCAL, RESOURCE

Length: 3463

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route

New road access plan or profile prepared? N

New road access plan attachment:

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

Access road engineering design? N

Access road engineering design attachment:

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Native Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM

Access other construction information: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.

Access miscellaneous information: A. The Corral Canyon 8-32 Federal & Corral Canyon 5-32 Federal development area is accessed from the intersection of highway 285 (Pecos Hwy) and Whitehorn Road. Go Northeast on Whitehorn Road approximately 2.4 miles. Turn slight left (Northeast) onto Longhorn Road and go approximately 1.8 miles. Turn left (Northeast) onto Pipeline Road Number 1 and go approximately 1.8 miles. Turn left (north) on lease road and go approximately 3.5 miles to a Y intersection. Keep left (east/Southeast) on lease road and go approximately .25 miles. Turn left (Southeast) on lease road and go approximately .5 miles, arriving at the proposed road. Location is to the West.

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) description: No DCS were identified at onsite. DCS will be applied for asneeded and be in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

CC_8_32_1_Mile_20190807053835.pdf

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production Facilities. Two pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The Northern most facility is the Corral Canyon 8-32 Fed CTBN, is 400x450 located in Section 8-26S-29E NMPM, Eddy County, New Mexico. The Southernmost facility is the Corral Canyon 8-32 Fed CTBS, is 500x450, and is located in Section 8-26S-29E, NMPM, Eddy County, New Mexico. Centerpoint: 1650x1821FEL, 8-25S-29E. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. Flowlines. In the event the wells are found productive, 20-8 or less composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the CC 8-32 CTB1 & CC 5-32 CTB1 where the oil, gas, and water will be metered and separated. If XTO Energy, Inc. decides to run surface lines, 20-4 or less flexpipe or steel flowlines with a max, safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed CTBs. An additional 20-10 or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 4135.66 or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. Gas & Oil Pipeline. A gas purchaser has been identified and will be building separately to the Corral Canyon 8-32 & Corral Canyon 5-32 CTBs in this application. Disposal Facilities. Produced water will be piped from location to a disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. Flare. There will be 2 flares associated with the Corral Canyon 8-32 & 5-32 Federal project. The second flare stack will be associated with the Corral Canyon 8-32 CTBN, be 40x40, connected via a 133.17 buried steel flare line with a maximum safety pressure rating of 125psi (operating pressure: 25psi. A 30 ROW is requested for the flare line. The second flare stack will be associated with the Corral Canyon 8-32 CTBS, be 40x40, connected via a 130.03 buried steel flare line with a maximum safety pressure rating of 125psi (operating pressure: 25psi. A 30 ROW is requested for the flare line. Plat of the flare pad and line are attached. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as shale green that reduce the visual impacts of the built environment. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 times the capacity of the largest tank and away from cut or fill areas. Electrical. All lines will be primary 12,740 volt to properly run expected production equipment. 5942.76 of electrical will be run from the anticipated tie-in point with a request for 30 ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Production Facilities map:

CC_8_32_CTBN_20190807053954.pdf CC_8_32_CTBS_20190807054002.pdf CC_8_32_FL_20190807054011.pdf CC_8_32_OHE_20190807054020.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Number: 165H

Water source type: OTHER

Describe type: Fresh Water 27-25S-30E

Water source use type:

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

Source latitude:

Source longitude:

Source datum:

Water source permit type:

PRIVATE CONTRACT

Water source transport method:

PIPELINE

TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: STATE

Water source volume (barrels): 200000

Source volume (acre-feet): 25.77861927

Source volume (gal): 8400000

Water source type: OTHER

Describe type: Fresh Water, Section 6-25S-29E

Water source use type:

SURFACE CASING

INTERMEDIATE/PRODUCTION

CASING

Source latitude:

Source longitude:

Source datum:

Water source permit type:

PRIVATE CONTRACT

Water source transport method:

PIPELINE

TRUCKING

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 200000

Source volume (acre-feet): 25.77861927

Source volume (gal): 8400000

Well Name: CORRAL CANYON 8-32 FEDERAL Well Number: 165H Water source type: null Water source use type: Source latitude: Source longitude: Source datum: Water source permit type: null Water source transport method: null Source land ownership: Source transportation land ownership: Water source volume (barrels): Source volume (acre-feet): Source volume (gal): Water source and transportation map: CC_8_32_165H_Wtr_20190819060452.pdf Water source comments: New water well? N **New Water Well Info** Well latitude: Well datum: Well Longitude: Well target aquifer: Est. depth to top of aquifer(ft): Est thickness of aquifer: Aquifer comments: Aquifer documentation: Well casing type: Well depth (ft): Well casing outside diameter (in.): Well casing inside diameter (in.): New water well casing? Used casing source: **Drilling method:** Drill material: Grout material: Grout depth: Casing length (ft.): Casing top depth (ft.): Well Production type: **Completion Method:** Water well additional information: State appropriation permit:

Operator Name: XTO ENERGY INCORPORATED

Additional information attachment:

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Number: 165H

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Pit 1: Federal Caliche Pit, Section 17-T25S-R30E Pit 2: Federal Caliche Pit, Section

34-T25S-R29E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100

pounds

Waste disposal frequency: One Time Only

Safe containment description: The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off

style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions, 4507 W Carlsbad HWY, Hobbs, NM 88240, 575-393-1079

Waste type: DRILLING

Waste content description: Fluids

Amount of waste: 500

barrels

Waste disposal frequency: One Time Only

Safe containment description: Steel mud pits

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL

Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: R360 Environmental Solutions, 4507 W Carlsbad HWY, Hobbs, NM 88240, 575-393-1079

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency: Weekly

Safe containment description: Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Number: 165H

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose human waste

Waste type: GARBAGE

Waste content description: Garbage, junk and non-flammable waste materials

Amount of waste: 250

pounds

Waste disposal frequency: Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location. Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and safely dispose garbage, junk and non-flammable waste materials.

Reserve Pit

Reserve Pit being used? N

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)