Form 3160-3
(June 2015)

RECEIVED

DEC 05 2019

DISTRICT II-ARTESIA O.C.D.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM099147

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
CORRAL CANYON 8-32 FEDERAL 122H
326508

2. Name of Operator
XTO ENERGY INCORPORATED

9. API Well No.
30-015-46484

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory
2277 Springwoods Village Parkway Spring TX 77389	(432)620-6700	PURPLE SAGE WOLFCAMP GAS

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface NWSW / 2548 FSL / 1098 FWL / LAT 32.144474 / LONG -104.011687
At proposed prod. zone NWSW / 2440 FSL / 1170 FWL / LAT 32.173208 / LONG -104.01133

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 8 / T25S / R29E / NMP

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State
8 miles	EDDY	NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
1098 feet	960	640

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
0 feet	10068 feet / 20431 feet	FED: UTB000138

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
2967 feet	10/01/2019	90 days

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Stephanie Rabadue / Ph: (432)620-6714	08/09/2019

Title
Regulatory Coordinator

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	11/06/2019

Title	Office
Assistant Field Manager Lands & Minerals	CARLSBAD

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

APPROVED WITH CONDITIONS

Approval Date: 11/06/2019

RWP 12-11-19

(Continued on page 2)

*(Instructions on page 2)

Need signed C102.

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.

(Continued on page 3)

Additional Operator Remarks

Location of Well

1. SHL: NWSW / 2548 FSL / 1098 FWL / TWSP: 25S / RANGE: 29E / SECTION: 8 / LAT: 32.144474 / LONG: -104.011687 (TVD: 0 feet, MD: 0 feet)
   PPP: SWSW / 330 FSL / 1170 FWL / TWSP: 24S / RANGE: 29E / SECTION: 32 / LAT: 32.15227 / LONG: -104.00869 (TVD: 10068 feet, MD: 18900 feet)
   PPP: SWSW / 330 FSL / 1170 FWL / TWSP: 25S / RANGE: 29E / SECTION: 5 / LAT: 32.15242 / LONG: -104.0129 (TVD: 10068 feet, MD: 13200 feet)
   BHL: NWSW / 2440 FSL / 1170 FWL / TWSP: 24S / RANGE: 29E / SECTION: 32 / LAT: 32.173208 / LONG: -104.01133 (TVD: 10068 feet, MD: 20431 feet)

BLM Point of Contact

Name:

Title:

Phone:

Email:

Approval Date: 11/06/2019

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.

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**XTO Energy, Inc.**
LEASE NO.:	**NMNM-099147**
WELL NAME & NO.:	**Corral Canyon 8-32 Federal 122H**
SURFACE HOLE FOOTAGE:	**2548' FSL & 1098' FWL**
BOTTOM HOLE FOOTAGE	**2440' FSL & 1170' FWL 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 **13-3/8** inch surface casing shall be set at approximately **530** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**

a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

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

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

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

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 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 101819

AFMSS

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

Operator Certification Data Report

11/08/2019

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@xtoenergy.com

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

AFMSS

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

Application Data Report

11/08/2019

APD ID: 10400045663
Submission Date: 08/09/2019
Operator Name: XTO ENERGY INCORPORATED
Well Name: CORRAL CANYON 8-32 FEDERAL
Well Number: 122H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400045663
Tie to previous NOS? N
Submission Date: 08/09/2019
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: 122H
Well API Number:
Field/Pool or Exploratory? Field and Pool
Field Name: PURPLE SAGE WOLFCAMP GAS
Pool Name:
Is the proposed well in an area containing other mineral resources? USEABLE WATER,OTHER,NATURAL GAS,OIL

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

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 8-32 Fed **Number:** 1

Well Class: HORIZONTAL **Number of Legs:** 1

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:** 1098 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: CC_8_32_122H_C102_20190809055919.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 Leg #1	2548	FSL	1098	FWL	25S	29E	8	Aliquot NWSW	32.144474	-104.011687	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 099147	2967	0	0	N
KOP Leg #1	2548	FSL	1098	FWL	25S	29E	8	Aliquot NWSW	32.144474	-104.077687	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 099147	-4733	7700	7700	N
PPP Leg #1	330	FSL	1170	FWL	25S	29E	5	Aliquot SWSW	32.15242	-104.0129	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 015302	-7101	13200	10068	Y

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

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 Leg #1	330	FSL	1170	FWL	24S	29E	32	Aliquot SWSW	32.15227	-104.00869	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 111533	-7101	18900	10068	Y
EXIT Leg #1	2310	FSL	1170	FWL	24S	29E	32	Aliquot NWSW	32.1728499	-104.011327	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	-7101	20300	10068	Y
BHL Leg #1	2440	FSL	1170	FWL	24S	29E	32	Aliquot NWSW	32.173208	-104.01133	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	-7101	20431	10068	Y

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	[2] Pool Code	[3] Pool Name
30-015-	98220	Purple Sage; Wolfcamp

[4] Property Code	[5] Property Name	[6] Well Number
	CORRAL CANYON 8-32 FED	122H

[7] OGRID No.	[8] Operator Name	[9] Elevation
005380	XTO ENERGY, INC.	2,967'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	8	25 S	29 E		2,548	SOUTH	1,098	WEST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	24 S	29 E		2,440	SOUTH	1,170	WEST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
640			

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

[16]

GEODETIC COORDINATES NAD 27 NME
SURFACE LOCATION
Y= 416,385.3
X= 599,703.6
LAT.= 32.144350'N
LONG.= 104.011198'W

GEODETIC COORDINATES NAD 83 NME
SURFACE LOCATION
Y= 416,443.7
X= 640,887.7
LAT.= 32.144474'N
LONG.= 104.011687'W

FIRST TAKE POINT NAD 27 NME
Y= 416,819.7
X= 599,774.8
LAT.= 32.145543'N
LONG.= 104.010964'W

FIRST TAKE POINT NAD 83 NME
Y= 416,878.1
X= 640,958.9
LAT.= 32.145667'N
LONG.= 104.011453'W

CORNER COORDINATES TABLE NAD 27 NME
A - Y= 416,495.8 N, X= 598,604.7 E
B - Y= 416,483.9 N, X= 599,935.6 E
C - Y= 419,138.3 N, X= 598,605.3 E
D - Y= 419,128.5 N, X= 599,934.0 E
E - Y= 421,777.8 N, X= 598,621.3 E
F - Y= 421,771.5 N, X= 599,942.7 E
G - Y= 424,397.4 N, X= 598,637.2 E
H - Y= 424,398.4 N, X= 599,951.3 E
I - Y= 427,063.4 N, X= 598,610.8 E
J - Y= 427,061.2 N, X= 599,930.2 E

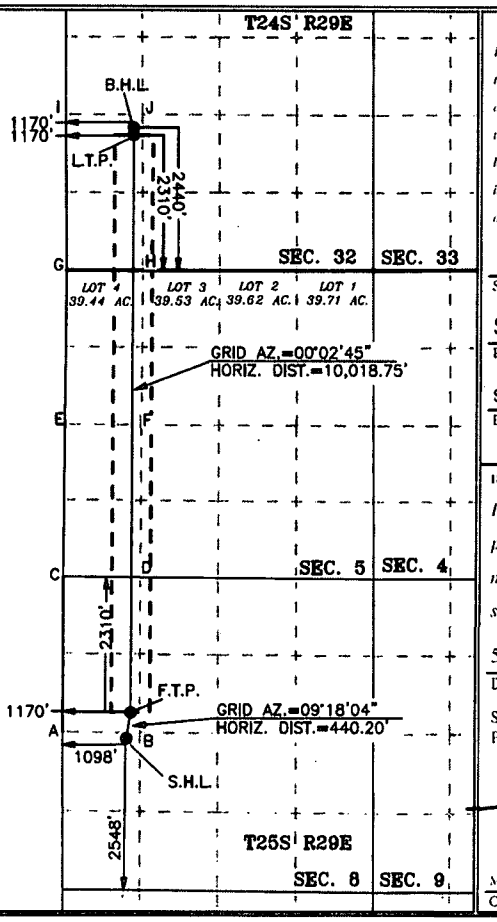
CORNER COORDINATES TABLE NAD 83 NME
A - Y= 416,554.2 N, X= 639,788.8 E
B - Y= 416,542.3 N, X= 641,119.7 E
C - Y= 419,196.8 N, X= 639,789.3 E
D - Y= 419,187.0 N, X= 641,118.1 E
E - Y= 421,836.3 N, X= 639,805.3 E
F - Y= 421,830.0 N, X= 641,126.7 E
G - Y= 424,456.0 N, X= 639,821.1 E
H - Y= 424,457.0 N, X= 641,135.2 E
I - Y= 427,122.0 N, X= 639,794.6 E
J - Y= 427,119.8 N, X= 641,114.0 E

LAST TAKE POINT NAD 27 NME
Y= 426,708.3
X= 599,784.3
LAT.= 32.172727'N
LONG.= 104.010838'W

LAST TAKE POINT NAD 83 NME
Y= 426,766.9
X= 640,968.2
LAT.= 32.172850'N
LONG.= 104.011327'W

BOTTOM HOLE LOCATION NAD 27 NME
Y= 426,838.3
X= 599,783.1
LAT.= 32.173084'N
LONG.= 104.010840'W

BOTTOM HOLE LOCATION NAD 83 NME
Y= 426,896.9
X= 640,966.9
LAT.= 32.173208'N
LONG.= 104.011330'W



[17] OPERATOR CERTIFICATION

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

Stephanie Rabadue 05/08/2019
Signature Date

Stephanie Rabadue
Printed Name

stephanie_rabadue@xtoenergy.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

5-7-2019
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number

AI 2017091557

Drilling Plan Data Report

11/08/2019

APD ID: 10400045663 **Submission Date:** 08/09/2019

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	PERMIAN	2967	0	0	OTHER : Quaternary	NONE	N
2	RUSTLER	2645	322	322	SILTSTONE	USEABLE WATER	N
3	TOP SALT	2280	687	687	SALT	NONE	N
4	BASE OF SALT	367	2600	2600	SALT	NONE	N
5	DELAWARE	164	2803	2803	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
6	BONE SPRING	-3589	6556	6556	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
7	BONE SPRING 1ST	-4537	7504	7504	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
8	BONE SPRING 2ND	-4753	7720	7720	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
9	BONE SPRING 3RD	-5595	8562	8562	SANDSTONE	USEABLE WATER,OTHER,NATURAL GAS,OIL : produced	N
10	WOLFCAMP	-6755	9722	9722	SHALE	USEABLE WATER,OTHER,NATURAL GAS,OIL : produced	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M **Rating Depth:** 10068

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

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

to 50% of the working pressure. When nippling up on the 13-5/8 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 9-5/8, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

CC_8_32_5MCM_20190807083141.pdf

BOP Diagram Attachment:

CC_8_32_5MBOP_20190807083149.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	530	0	530	2969	2439	530	J-55	54.5	ST&C	4.66	1.36	DRY	23.37	DRY	23.37
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	6710	0	6710		-3741	6710	J-55	40	LT&C	1.26	1.14	DRY	2.71	DRY	2.71
3	PRODUCTION	8.75	5.5	NEW	API	N	0	20421	0	10068		-7099	20421	P-110	17	BUTT	1.33	1.01	DRY	2.34	DRY	2.34

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_8_32_122H_Csg_20190809055529.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_8_32_122H_Csg_20190809055540.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CC_8_32_122H_Csg_20190809055555.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	530	540	1.35	14.8	729	100	Halcem-C	25 CaCL
INTERMEDIATE	Lead	630	0	630	540	1.35	14.8	729	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		630	6710	1900	1.88	12.9	3572	100	HalCem-C	2% CaCl

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail				470	1.33	14.8	625.1	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	20431	310	2.69	11.5	833.9	30	NeoCem	None
PRODUCTION	Tail		0		2330	1.61	13.2	3751.3	30	VersaCem	None

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
6710	10068	OIL-BASED MUD	9.4	9.7							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.
0	530	OTHER : FW/Native	8.4	8.8							A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hrs to determine: density,

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

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

Section 6 - Test, Logging, Coring

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

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

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

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

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5601 **Anticipated Surface Pressure:** 3385

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
CC_8_32_H2S_Plan_20190807085653.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CC_8_32_122H_DD_20190809055750.pdf

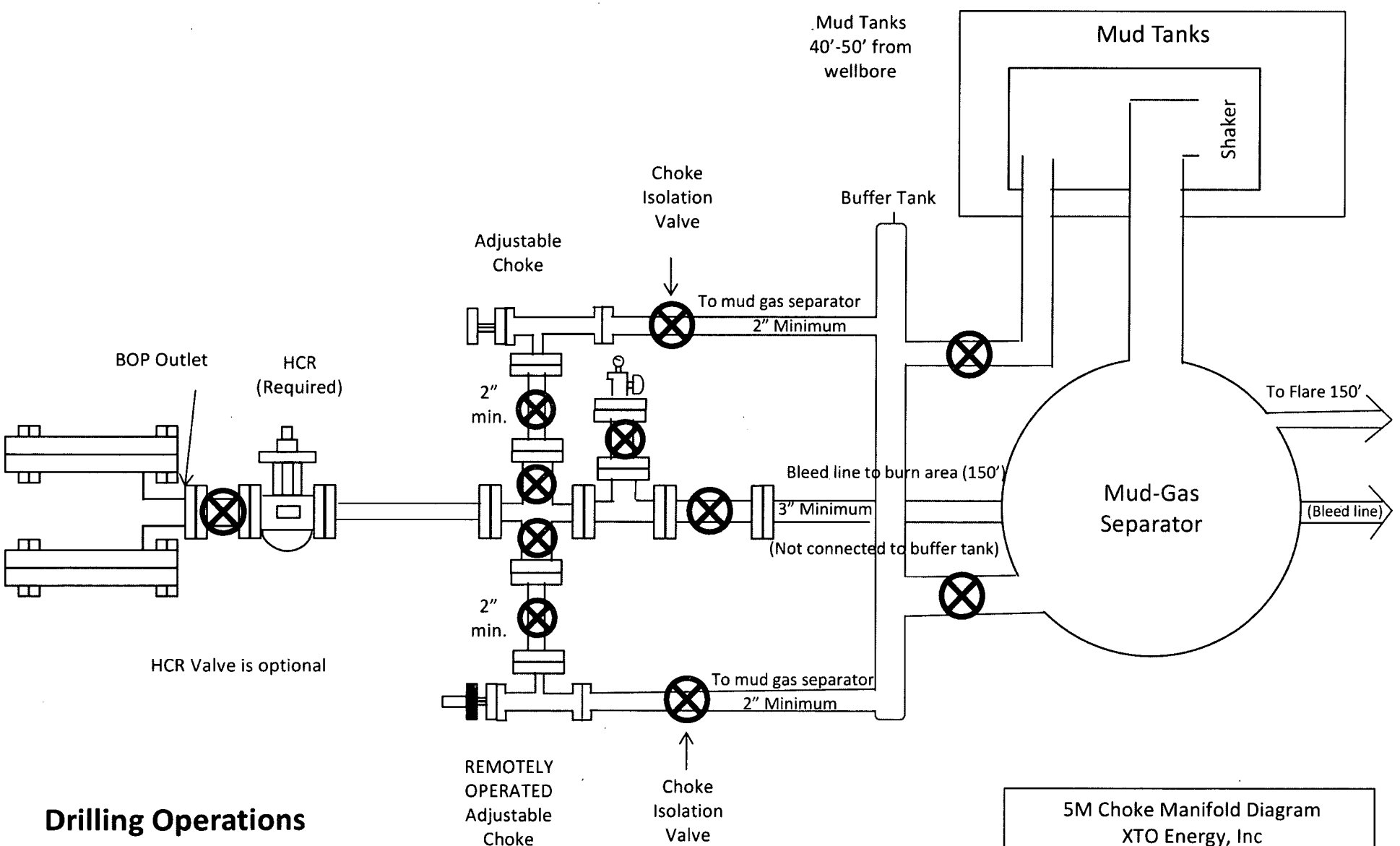
Other proposed operations facets description:

Other proposed operations facets attachment:

CC_8_32_122H_GCP_20190809055808.pdf

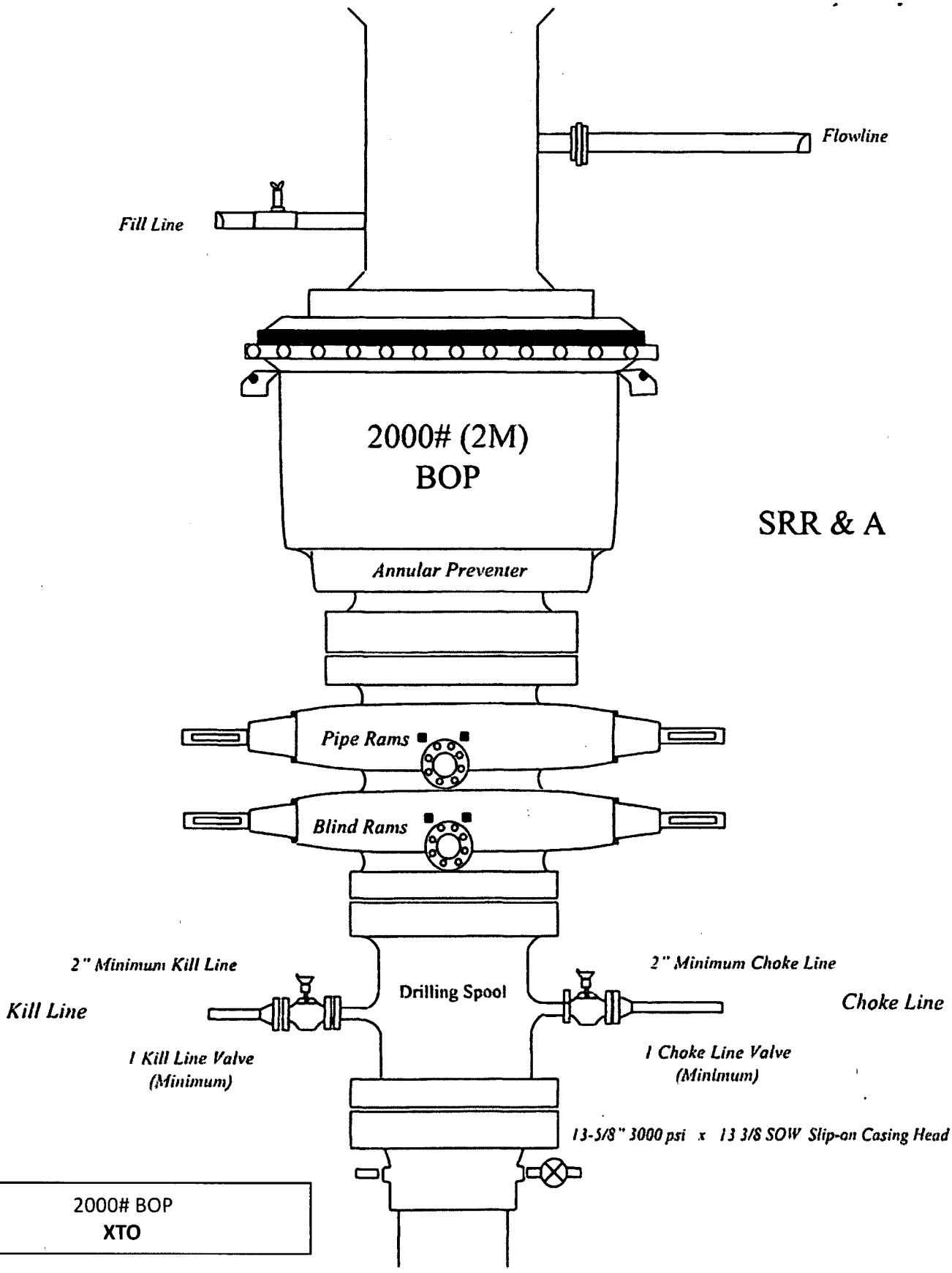
Other Variance attachment:

CC_8_32_5.5MBS_20190809054549.pdf
CC_8_32_FH_20190807085927.pdf

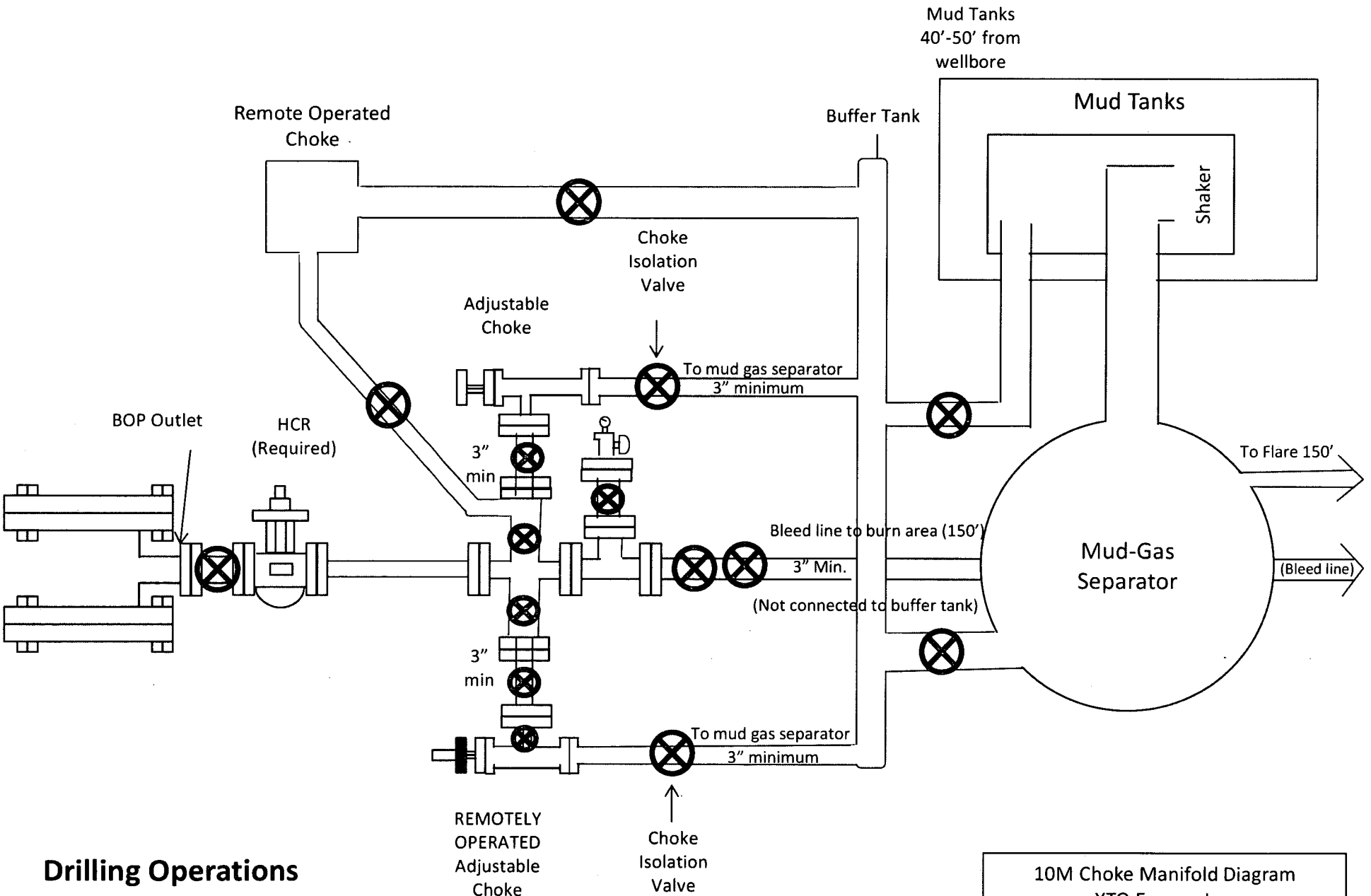


Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO Energy, Inc

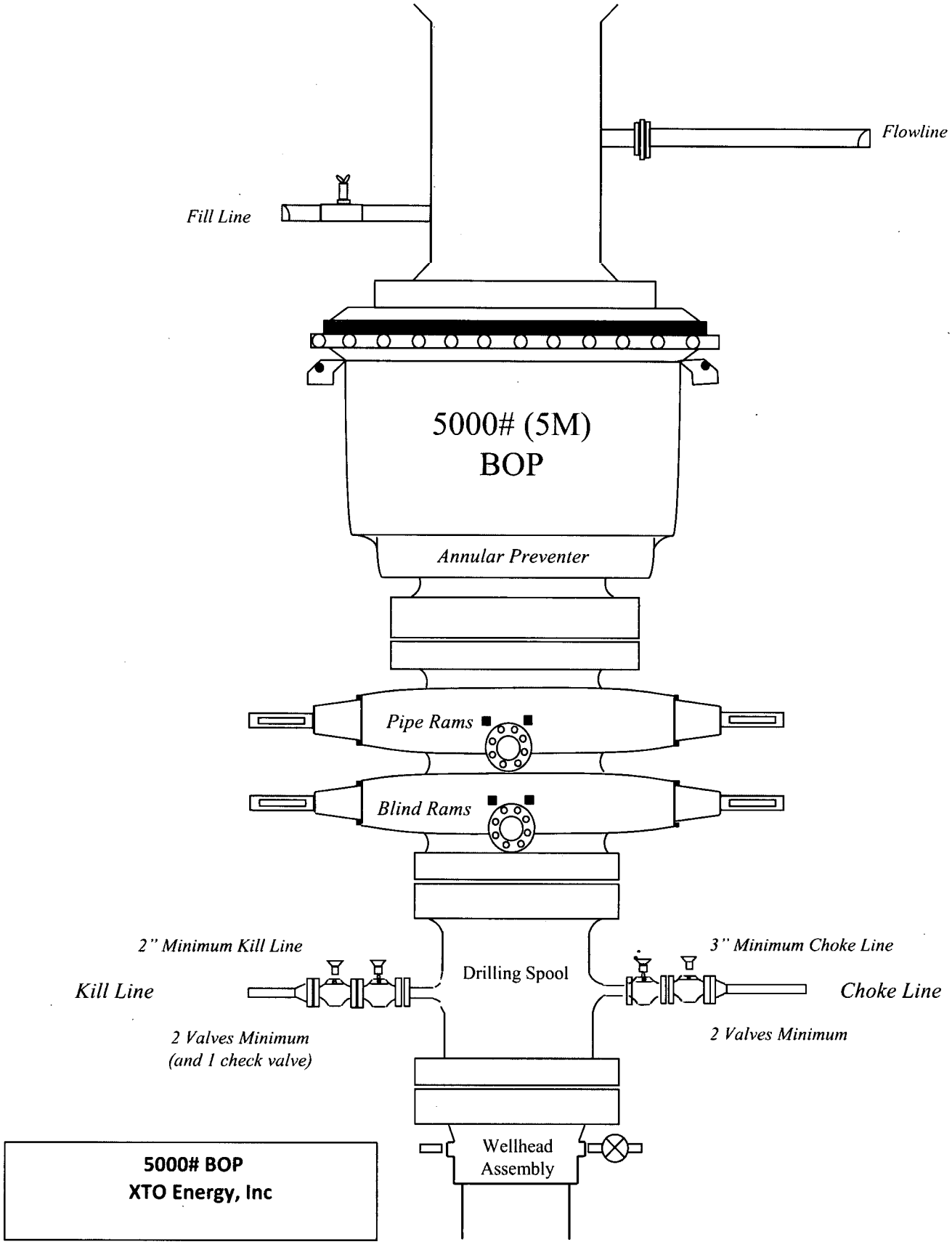

Flowline
Fill Line
2000# (2M)
BOP
SRR & A
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
Kill Line
Drilling Spool
2" Minimum Choke Line
Choke Line
1 Kill Line Valve
(Minimum)
1 Choke Line Valve
(Minimum)
13-5/8" 3000 psi x 13 3/8 SOW Slip-on Casing Head

2000# BOP
XTO

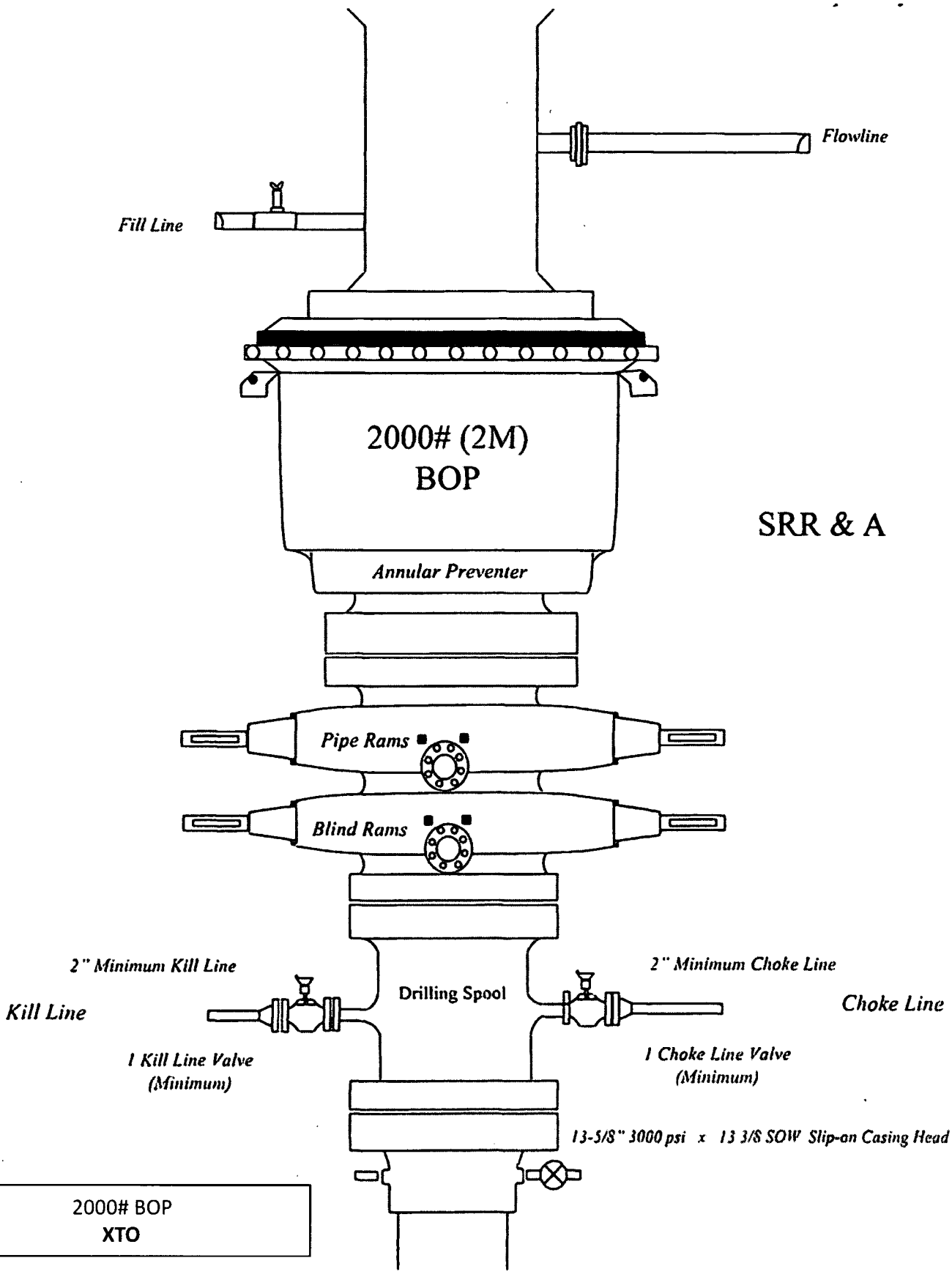


Drilling Operations
Choke Manifold
10M Service

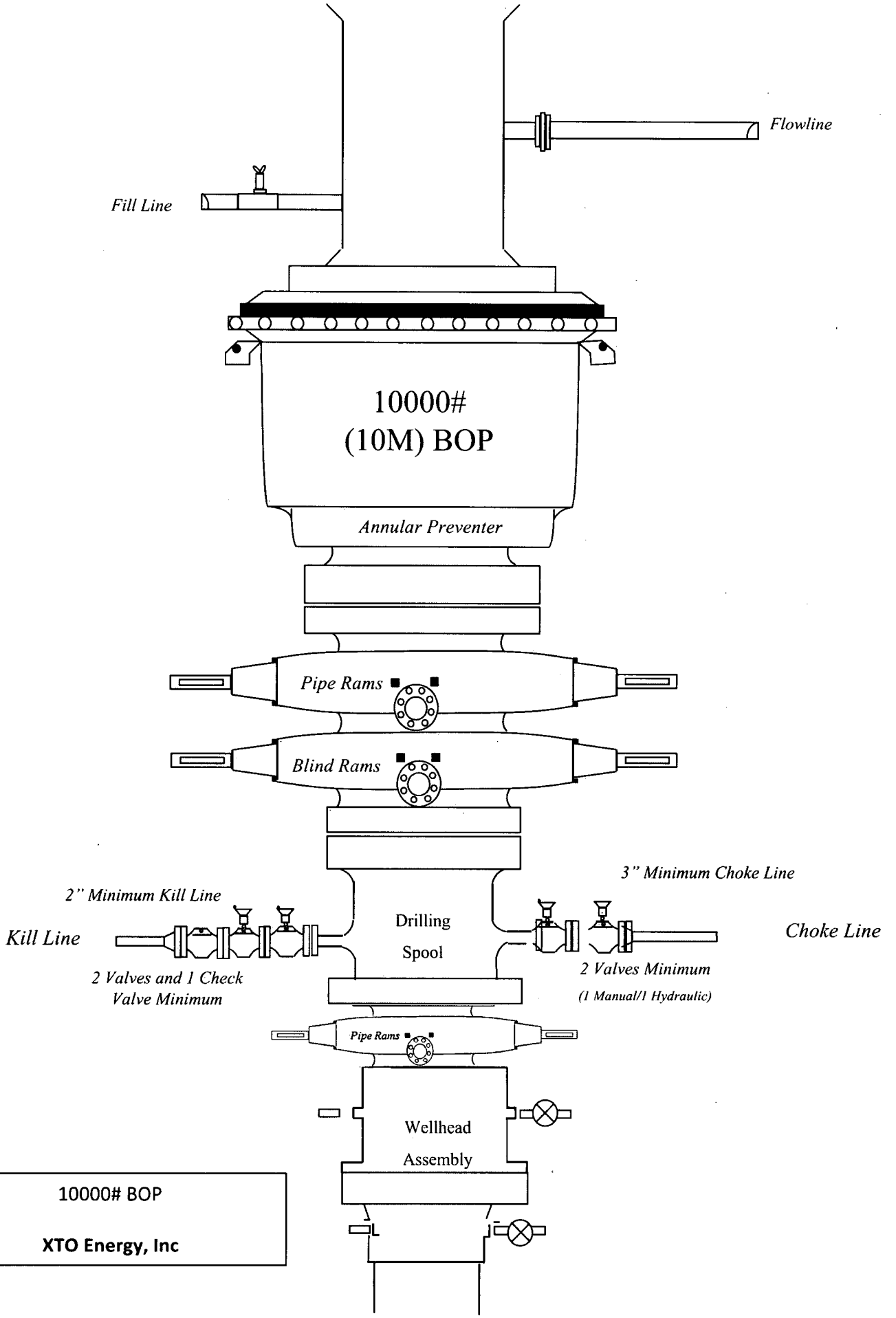
10M Choke Manifold Diagram
XTO Energy, Inc.



5000# BOP
XTO Energy, Inc


Flowline
Fill Line
2000# (2M)
BOP
SRR & A
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
Kill Line
Drilling Spool
2" Minimum Choke Line
Choke Line
1 Kill Line Valve
(Minimum)
1 Choke Line Valve
(Minimum)
13-5/8" 3000 psi x 13 3/8 SOW Slip-on Casing Head

2000# BOP
XTO



10000# BOP

XTO Energy, Inc

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 530'	13-3/8"	54.5	STC	J-55	New	1.36	4.66	23.37
12-1/4"	0' – 6707'	9-5/8"	40	LTC	J-55	New	1.11	1.26	2.71
8-3/4"	0' – 20431'	5-1/2"	17	BTC	P-110	New	1.01	1.30	2.31

- XTO requests to not utilize centralizers in the curve and lateral
- 9-5/8" Collapse analyzed using 50% 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, whichver is less

WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom

B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 530'	13-3/8"	54.5	STC	J-55	New	1.36	4.66	23.37
12-1/4"	0' – 6707'	9-5/8"	40	LTC	J-55	New	1.11	1.26	2.71
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12-1/4"	0' – 6707'	9-5/8"	40	LTC	J-55	New	1.11	1.26	2.71
8-3/4"	0' – 20431'	5-1/2"	17	BTC	P-110	New	1.01	1.30	2.31

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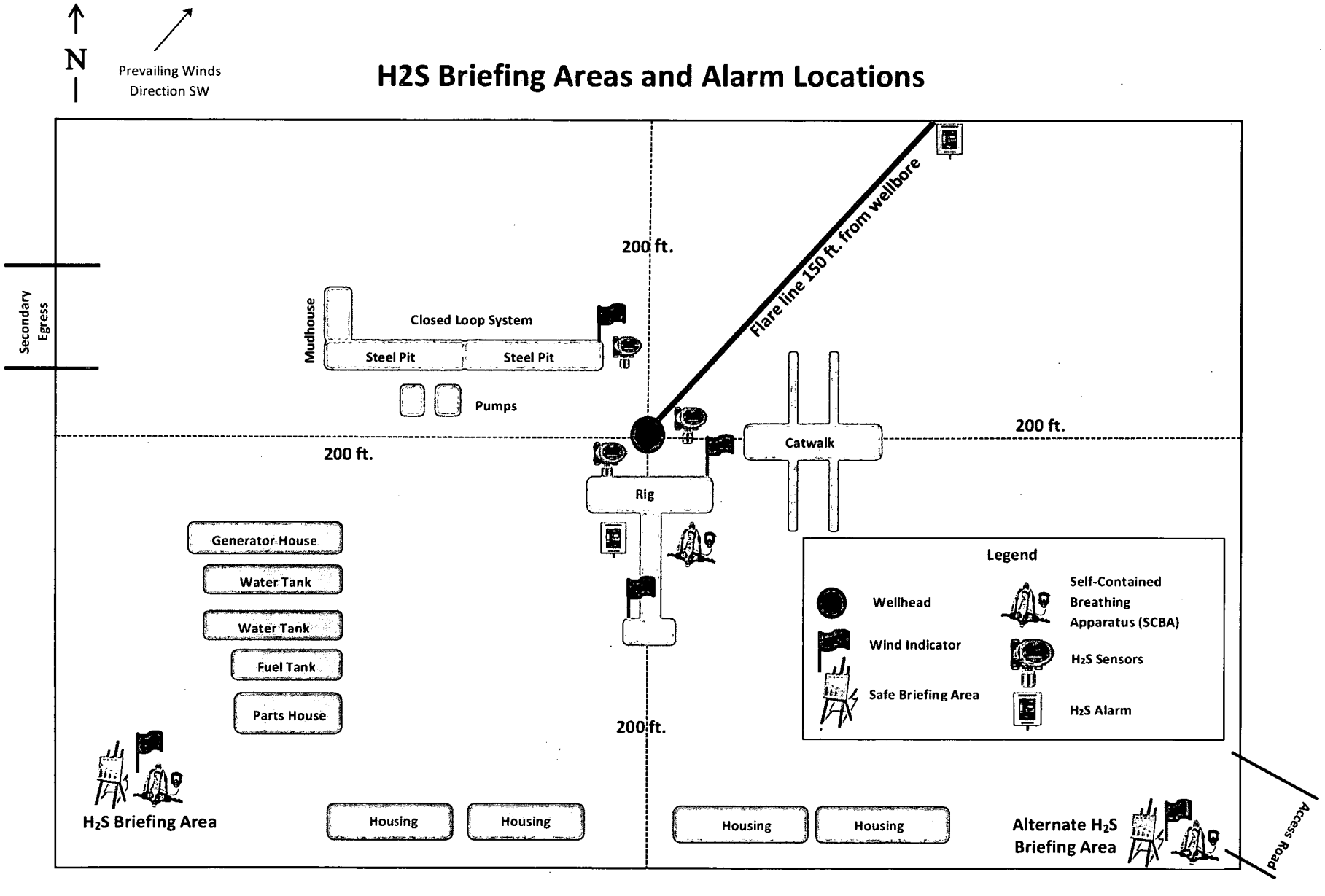
- Wellhead Manufacturer representative will not be present for BOP test plug installation

H2S Briefing Areas and Alarm Locations



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 H_2S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H_2S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - o Detection of H_2S, and
  - o Measures for protection against the gas,
  - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

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

XTO Energy

Eddy County, NM (NAD-27)
Corral Canyon 8 32 Fed
#122H

OH

Plan: PERMITv2

Standard Planning Report

13 May, 2019

XTO ENERGY

Project: Eddy County, NM (NAD-27)
Site: Corral Canyon 8 32 Fed
Well: #122H
Wellbore: OH
Design: PERMITv2

PROJECT DETAILS: Eddy County, NM (NAD-27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #122H

Rig Name:
Ref GL @ 2967.00usft
Ground Level: 2967.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	416385.30	599703.60	32.1443500	-104.0111984

DESIGN TARGET DETAILS

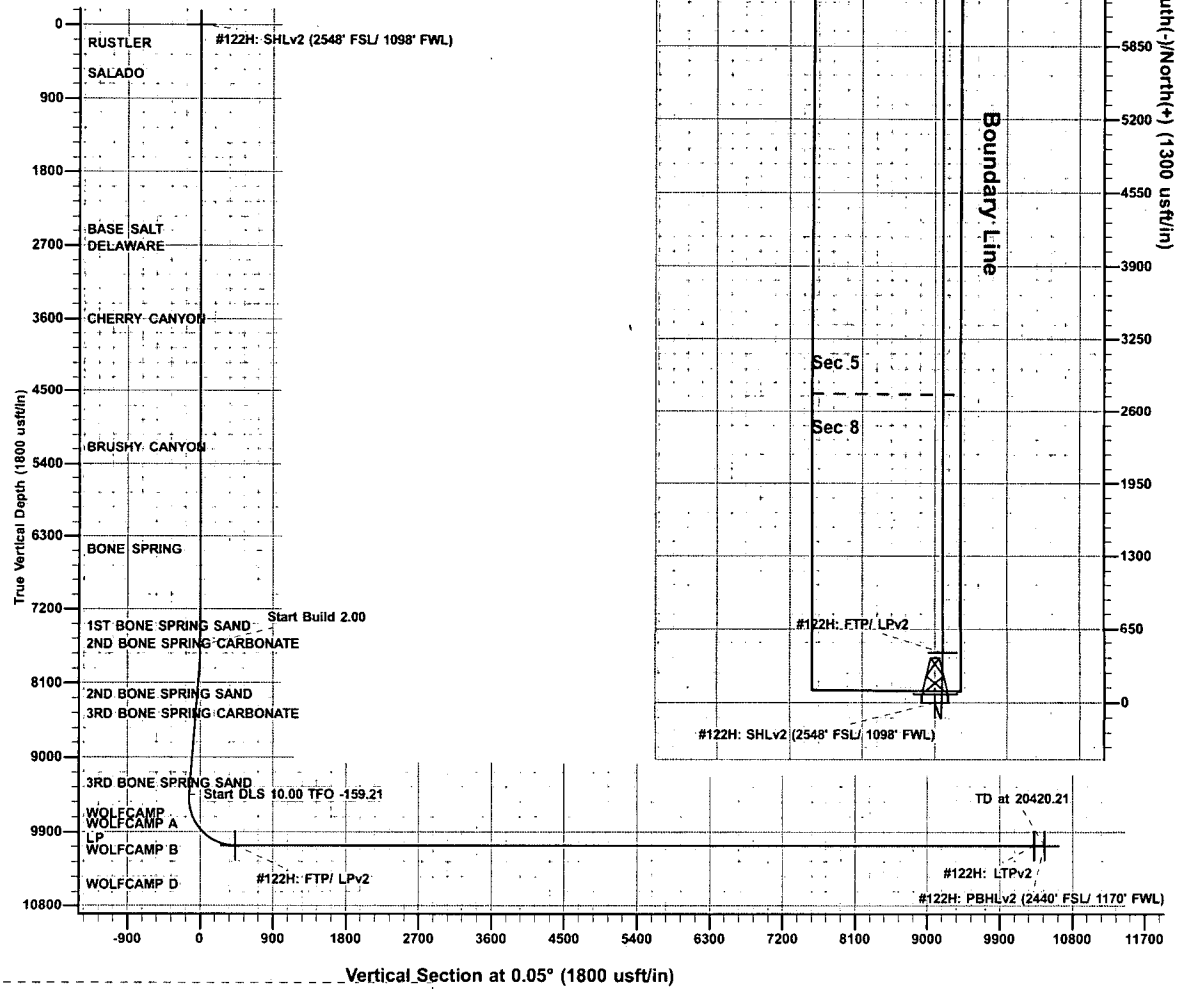
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
#122H: SHLv2 (2548' FSL/ 1098' FWL)	0.00	0.00	0.00	416385.30	599703.60	32.1443500	-104.0111984	Point
#122H: FTP/ LPv2	10068.00	434.40	71.20	416819.70	599774.80	32.1455435	-104.0109641	Point
#122H: LTPv2	10068.00	10323.00	80.70	426708.30	599784.30	32.1727270	-104.0108377	Point
#122H: PBHLv2 (2440' FSL/ 1170' FWL)	10068.00	10453.00	79.50	426838.30	599783.10	32.1730844	-104.0108403	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7655.00	0.00	0.00	7655.00	0.00	0.00	0.00	0.00	0.00
3	7905.10	5.00	159.33	7904.79	-10.21	3.85	2.00	159.33	-10.20
4	9454.83	5.00	159.33	9448.61	-136.63	51.55	0.00	0.00	-136.59
5	10401.61	90.00	0.05	10068.00	434.40	71.20	10.00	-159.21	434.46
6	20290.22	90.00	0.05	10068.00	10323.00	79.39	0.00	0.00	10323.07
7	20420.21	90.00	0.05	10068.00	10453.00	79.50	0.00	0.00	10453.07

FORMATION TOP DETAILS

TVDPath	Formation
321.00	RUSTLER
686.00	SALADO
2599.00	BASE SALT
2802.00	DELAWARE
3703.00	CHERRY CANYON
5291.00	BRUSHY CANYON
6555.00	BONE SPRING
7503.00	1ST BONE SPRING SAND
7719.00	2ND BONE SPRING CARBONATE
8324.00	2ND BONE SPRING SAND
8561.00	3RD BONE SPRING CARBONATE
9405.00	3RD BONE SPRING SAND
9771.00	WOLFCAMP
9897.00	WOLFCAMP A
10068.00	LP



Plan: PERMITv2 (#122H/OH)

Created By: Matthew May Date: 9:50, May 13 2019

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Project	Eddy County, NM (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Corral Canyon 8 32 Fed				
Site Position:		**Northing:**	416,385.50 usft	**Latitude:**	32.1443508
From:	Map	**Easting:**	599,673.60 usft	**Longitude:**	-104.0112953
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.17 °

Well	#122H					
Well Position	**+N/-S**	-0.20 usft	**Northing:**	416,385.30 usft	**Latitude:**	32.1443500
	+E/-W	30.00 usft	**Easting:**	599,703.60 usft	**Longitude:**	-104.0111983
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	2,967.00 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	12/18/17	7.10	59.91	47,796

Design	PERMITv2				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	0.05	

Plan Sections

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	
7,655.00	0.00	0.00	7,655.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,905.10	5.00	159.33	7,904.79	-10.21	3.85	2.00	2.00	0.00	159.33	
9,454.83	5.00	159.33	9,448.61	-136.63	51.55	0.00	0.00	0.00	0.00	
10,401.61	90.00	0.05	10,068.00	434.40	71.20	10.00	8.98	-16.82	-159.21	#122H: FTP/ LPv2
20,290.22	90.00	0.05	10,068.00	10,323.00	79.39	0.00	0.00	0.00	0.00	#122H: LTPv2
20,420.21	90.00	0.05	10,068.00	10,453.00	79.50	0.00	0.00	0.00	0.00	#122H: PBHLv2 (2

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
321.00	0.00	0.00	321.00	0.00	0.00	0.00	0.00	0.00	0.00
RUSTLER									
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
686.00	0.00	0.00	686.00	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
2,599.00	0.00	0.00	2,599.00	0.00	0.00	0.00	0.00	0.00	0.00
BASE SALT									
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,802.00	0.00	0.00	2,802.00	0.00	0.00	0.00	0.00	0.00	0.00
DELAWARE									
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
3,703.00	0.00	0.00	3,703.00	0.00	0.00	0.00	0.00	0.00	0.00
CHERRY CANYON									
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:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,291.00	0.00	0.00	5,291.00	0.00	0.00	0.00	0.00	0.00	0.00
BRUSHY CANYON									
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,555.00	0.00	0.00	6,555.00	0.00	0.00	0.00	0.00	0.00	0.00
BONE SPRING									
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	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
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
7,503.00	0.00	0.00	7,503.00	0.00	0.00	0.00	0.00	0.00	0.00
1ST BONE SPRING SAND									
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,655.00	0.00	0.00	7,655.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.90	159.33	7,700.00	-0.33	0.12	-0.33	2.00	2.00	0.00
7,719.01	1.28	159.33	7,719.00	-0.67	0.25	-0.67	2.00	2.00	0.00
2ND BONE SPRING CARBONATE									
7,800.00	2.90	159.33	7,799.94	-3.43	1.30	-3.43	2.00	2.00	0.00
7,905.10	5.00	159.33	7,904.79	-10.21	3.85	-10.20	2.00	2.00	0.00
8,000.00	5.00	159.33	7,999.32	-17.95	6.77	-17.94	0.00	0.00	0.00
8,100.00	5.00	159.33	8,098.94	-26.11	9.85	-26.10	0.00	0.00	0.00
8,200.00	5.00	159.33	8,198.56	-34.27	12.93	-34.25	0.00	0.00	0.00
8,300.00	5.00	159.33	8,298.18	-42.42	16.01	-42.41	0.00	0.00	0.00
8,325.92	5.00	159.33	8,324.00	-44.54	16.80	-44.52	0.00	0.00	0.00
2ND BONE SPRING SAND									
8,400.00	5.00	159.33	8,397.80	-50.58	19.08	-50.56	0.00	0.00	0.00
8,500.00	5.00	159.33	8,497.42	-58.74	22.16	-58.72	0.00	0.00	0.00

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,563.83	5.00	159.33	8,561.00	-63.95	24.13	-63.92	0.00	0.00	0.00
3RD BONE SPRING CARBONATE									
8,600.00	5.00	159.33	8,597.04	-66.90	25.24	-66.87	0.00	0.00	0.00
8,700.00	5.00	159.33	8,696.66	-75.05	28.32	-75.03	0.00	0.00	0.00
8,800.00	5.00	159.33	8,796.27	-83.21	31.39	-83.19	0.00	0.00	0.00
8,900.00	5.00	159.33	8,895.89	-91.37	34.47	-91.34	0.00	0.00	0.00
9,000.00	5.00	159.33	8,995.51	-99.53	37.55	-99.50	0.00	0.00	0.00
9,100.00	5.00	159.33	9,095.13	-107.69	40.63	-107.65	0.00	0.00	0.00
9,200.00	5.00	159.33	9,194.75	-115.84	43.71	-115.81	0.00	0.00	0.00
9,300.00	5.00	159.33	9,294.37	-124.00	46.78	-123.96	0.00	0.00	0.00
9,400.00	5.00	159.33	9,393.99	-132.16	49.86	-132.12	0.00	0.00	0.00
9,411.05	5.00	159.33	9,405.00	-133.06	50.20	-133.02	0.00	0.00	0.00
3RD BONE SPRING SAND									
9,454.83	5.00	159.33	9,448.61	-136.63	51.55	-136.59	0.00	0.00	0.00
9,500.00	1.78	95.24	9,493.71	-138.54	52.94	-138.49	10.00	-7.13	-141.90
9,550.00	5.15	20.13	9,543.63	-136.50	54.49	-136.45	10.00	6.74	-150.22
9,600.00	10.00	10.17	9,593.18	-130.12	56.03	-130.07	10.00	9.69	-19.93
9,650.00	14.94	6.71	9,641.98	-119.44	57.55	-119.39	10.00	9.89	-6.91
9,700.00	19.91	4.95	9,689.67	-104.54	59.04	-104.49	10.00	9.95	-3.52
9,750.00	24.90	3.87	9,735.88	-85.55	60.49	-85.49	10.00	9.97	-2.16
9,789.37	28.83	3.27	9,771.00	-67.79	61.59	-67.74	10.00	9.98	-1.52
WOLFCAMP									
9,800.00	29.89	3.14	9,780.26	-62.59	61.88	-62.54	10.00	9.98	-1.29
9,850.00	34.88	2.59	9,822.47	-35.86	63.21	-35.80	10.00	9.98	-1.08
9,900.00	39.87	2.17	9,862.20	-5.54	64.46	-5.48	10.00	9.99	-0.84
9,947.01	44.57	1.85	9,897.00	26.02	65.57	26.08	10.00	9.99	-0.69
WOLFCAMP A									
9,950.00	44.87	1.83	9,899.13	28.12	65.63	28.18	10.00	9.99	-0.63
10,000.00	49.86	1.54	9,932.98	64.88	66.71	64.94	10.00	9.99	-0.57
10,050.00	54.86	1.30	9,963.51	104.45	67.69	104.51	10.00	9.99	-0.49
10,100.00	59.85	1.08	9,990.47	146.53	68.56	146.59	10.00	9.99	-0.44
10,150.00	64.85	0.88	10,013.66	190.80	69.32	190.86	10.00	9.99	-0.39
10,200.00	69.85	0.70	10,032.91	236.93	69.95	236.99	10.00	9.99	-0.36
10,250.00	74.85	0.53	10,048.07	284.55	70.46	284.61	10.00	9.99	-0.34
10,300.00	79.84	0.37	10,059.02	333.32	70.84	333.38	10.00	9.99	-0.33
10,350.00	84.84	0.21	10,065.68	382.86	71.09	382.92	10.00	10.00	-0.32
10,401.61	90.00	0.05	10,068.00	434.40	71.20	434.46	10.00	10.00	-0.31
LP									
10,500.00	90.00	0.05	10,068.00	532.79	71.28	532.85	0.00	0.00	0.00
10,600.00	90.00	0.05	10,068.00	632.79	71.36	632.85	0.00	0.00	0.00
10,700.00	90.00	0.05	10,068.00	732.79	71.45	732.85	0.00	0.00	0.00
10,800.00	90.00	0.05	10,068.00	832.79	71.53	832.85	0.00	0.00	0.00
10,900.00	90.00	0.05	10,068.00	932.79	71.61	932.85	0.00	0.00	0.00
11,000.00	90.00	0.05	10,068.00	1,032.79	71.70	1,032.85	0.00	0.00	0.00
11,100.00	90.00	0.05	10,068.00	1,132.79	71.78	1,132.85	0.00	0.00	0.00
11,200.00	90.00	0.05	10,068.00	1,232.79	71.86	1,232.85	0.00	0.00	0.00
11,300.00	90.00	0.05	10,068.00	1,332.79	71.94	1,332.85	0.00	0.00	0.00
11,400.00	90.00	0.05	10,068.00	1,432.79	72.03	1,432.85	0.00	0.00	0.00
11,500.00	90.00	0.05	10,068.00	1,532.79	72.11	1,532.85	0.00	0.00	0.00
11,600.00	90.00	0.05	10,068.00	1,632.79	72.19	1,632.85	0.00	0.00	0.00
11,700.00	90.00	0.05	10,068.00	1,732.79	72.28	1,732.85	0.00	0.00	0.00
11,800.00	90.00	0.05	10,068.00	1,832.79	72.36	1,832.85	0.00	0.00	0.00
11,900.00	90.00	0.05	10,068.00	1,932.79	72.44	1,932.85	0.00	0.00	0.00

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,000.00	90.00	0.05	10,068.00	2,032.79	72.52	2,032.85	0.00	0.00	0.00
12,100.00	90.00	0.05	10,068.00	2,132.79	72.61	2,132.85	0.00	0.00	0.00
12,200.00	90.00	0.05	10,068.00	2,232.79	72.69	2,232.85	0.00	0.00	0.00
12,300.00	90.00	0.05	10,068.00	2,332.79	72.77	2,332.85	0.00	0.00	0.00
12,400.00	90.00	0.05	10,068.00	2,432.79	72.86	2,432.85	0.00	0.00	0.00
12,500.00	90.00	0.05	10,068.00	2,532.79	72.94	2,532.85	0.00	0.00	0.00
12,600.00	90.00	0.05	10,068.00	2,632.79	73.02	2,632.85	0.00	0.00	0.00
12,700.00	90.00	0.05	10,068.00	2,732.79	73.10	2,732.85	0.00	0.00	0.00
12,800.00	90.00	0.05	10,068.00	2,832.79	73.19	2,832.85	0.00	0.00	0.00
12,900.00	90.00	0.05	10,068.00	2,932.79	73.27	2,932.85	0.00	0.00	0.00
13,000.00	90.00	0.05	10,068.00	3,032.79	73.35	3,032.85	0.00	0.00	0.00
13,100.00	90.00	0.05	10,068.00	3,132.79	73.44	3,132.85	0.00	0.00	0.00
13,200.00	90.00	0.05	10,068.00	3,232.79	73.52	3,232.85	0.00	0.00	0.00
13,300.00	90.00	0.05	10,068.00	3,332.79	73.60	3,332.85	0.00	0.00	0.00
13,400.00	90.00	0.05	10,068.00	3,432.79	73.68	3,432.85	0.00	0.00	0.00
13,500.00	90.00	0.05	10,068.00	3,532.79	73.77	3,532.85	0.00	0.00	0.00
13,600.00	90.00	0.05	10,068.00	3,632.79	73.85	3,632.85	0.00	0.00	0.00
13,700.00	90.00	0.05	10,068.00	3,732.79	73.93	3,732.85	0.00	0.00	0.00
13,800.00	90.00	0.05	10,068.00	3,832.79	74.02	3,832.85	0.00	0.00	0.00
13,900.00	90.00	0.05	10,068.00	3,932.79	74.10	3,932.85	0.00	0.00	0.00
14,000.00	90.00	0.05	10,068.00	4,032.79	74.18	4,032.85	0.00	0.00	0.00
14,100.00	90.00	0.05	10,068.00	4,132.79	74.26	4,132.85	0.00	0.00	0.00
14,200.00	90.00	0.05	10,068.00	4,232.79	74.35	4,232.85	0.00	0.00	0.00
14,300.00	90.00	0.05	10,068.00	4,332.79	74.43	4,332.85	0.00	0.00	0.00
14,400.00	90.00	0.05	10,068.00	4,432.79	74.51	4,432.85	0.00	0.00	0.00
14,500.00	90.00	0.05	10,068.00	4,532.79	74.60	4,532.85	0.00	0.00	0.00
14,600.00	90.00	0.05	10,068.00	4,632.79	74.68	4,632.85	0.00	0.00	0.00
14,700.00	90.00	0.05	10,068.00	4,732.79	74.76	4,732.85	0.00	0.00	0.00
14,800.00	90.00	0.05	10,068.00	4,832.79	74.84	4,832.85	0.00	0.00	0.00
14,900.00	90.00	0.05	10,068.00	4,932.79	74.93	4,932.85	0.00	0.00	0.00
15,000.00	90.00	0.05	10,068.00	5,032.79	75.01	5,032.85	0.00	0.00	0.00
15,100.00	90.00	0.05	10,068.00	5,132.79	75.09	5,132.85	0.00	0.00	0.00
15,200.00	90.00	0.05	10,068.00	5,232.79	75.18	5,232.85	0.00	0.00	0.00
15,300.00	90.00	0.05	10,068.00	5,332.79	75.26	5,332.85	0.00	0.00	0.00
15,400.00	90.00	0.05	10,068.00	5,432.79	75.34	5,432.85	0.00	0.00	0.00
15,500.00	90.00	0.05	10,068.00	5,532.79	75.42	5,532.85	0.00	0.00	0.00
15,600.00	90.00	0.05	10,068.00	5,632.79	75.51	5,632.85	0.00	0.00	0.00
15,700.00	90.00	0.05	10,068.00	5,732.79	75.59	5,732.85	0.00	0.00	0.00
15,800.00	90.00	0.05	10,068.00	5,832.79	75.67	5,832.85	0.00	0.00	0.00
15,900.00	90.00	0.05	10,068.00	5,932.79	75.76	5,932.85	0.00	0.00	0.00
16,000.00	90.00	0.05	10,068.00	6,032.79	75.84	6,032.85	0.00	0.00	0.00
16,100.00	90.00	0.05	10,068.00	6,132.79	75.92	6,132.85	0.00	0.00	0.00
16,200.00	90.00	0.05	10,068.00	6,232.79	76.00	6,232.85	0.00	0.00	0.00
16,300.00	90.00	0.05	10,068.00	6,332.79	76.09	6,332.85	0.00	0.00	0.00
16,400.00	90.00	0.05	10,068.00	6,432.79	76.17	6,432.85	0.00	0.00	0.00
16,500.00	90.00	0.05	10,068.00	6,532.79	76.25	6,532.85	0.00	0.00	0.00
16,600.00	90.00	0.05	10,068.00	6,632.79	76.34	6,632.85	0.00	0.00	0.00
16,700.00	90.00	0.05	10,068.00	6,732.79	76.42	6,732.85	0.00	0.00	0.00
16,800.00	90.00	0.05	10,068.00	6,832.79	76.50	6,832.85	0.00	0.00	0.00
16,900.00	90.00	0.05	10,068.00	6,932.79	76.58	6,932.85	0.00	0.00	0.00
17,000.00	90.00	0.05	10,068.00	7,032.79	76.67	7,032.85	0.00	0.00	0.00
17,100.00	90.00	0.05	10,068.00	7,132.79	76.75	7,132.85	0.00	0.00	0.00
17,200.00	90.00	0.05	10,068.00	7,232.79	76.83	7,232.85	0.00	0.00	0.00
17,300.00	90.00	0.05	10,068.00	7,332.79	76.92	7,332.85	0.00	0.00	0.00

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,400.00	90.00	0.05	10,068.00	7,432.79	77.00	7,432.85	0.00	0.00	0.00
17,500.00	90.00	0.05	10,068.00	7,532.79	77.08	7,532.85	0.00	0.00	0.00
17,600.00	90.00	0.05	10,068.00	7,632.79	77.16	7,632.85	0.00	0.00	0.00
17,700.00	90.00	0.05	10,068.00	7,732.79	77.25	7,732.85	0.00	0.00	0.00
17,800.00	90.00	0.05	10,068.00	7,832.79	77.33	7,832.85	0.00	0.00	0.00
17,900.00	90.00	0.05	10,068.00	7,932.79	77.41	7,932.85	0.00	0.00	0.00
18,000.00	90.00	0.05	10,068.00	8,032.79	77.49	8,032.85	0.00	0.00	0.00
18,100.00	90.00	0.05	10,068.00	8,132.79	77.58	8,132.85	0.00	0.00	0.00
18,200.00	90.00	0.05	10,068.00	8,232.79	77.66	8,232.85	0.00	0.00	0.00
18,300.00	90.00	0.05	10,068.00	8,332.79	77.74	8,332.85	0.00	0.00	0.00
18,400.00	90.00	0.05	10,068.00	8,432.79	77.83	8,432.85	0.00	0.00	0.00
18,500.00	90.00	0.05	10,068.00	8,532.79	77.91	8,532.85	0.00	0.00	0.00
18,600.00	90.00	0.05	10,068.00	8,632.79	77.99	8,632.85	0.00	0.00	0.00
18,700.00	90.00	0.05	10,068.00	8,732.79	78.07	8,732.85	0.00	0.00	0.00
18,800.00	90.00	0.05	10,068.00	8,832.79	78.16	8,832.85	0.00	0.00	0.00
18,900.00	90.00	0.05	10,068.00	8,932.79	78.24	8,932.85	0.00	0.00	0.00
19,000.00	90.00	0.05	10,068.00	9,032.79	78.32	9,032.85	0.00	0.00	0.00
19,100.00	90.00	0.05	10,068.00	9,132.79	78.41	9,132.85	0.00	0.00	0.00
19,200.00	90.00	0.05	10,068.00	9,232.79	78.49	9,232.85	0.00	0.00	0.00
19,300.00	90.00	0.05	10,068.00	9,332.79	78.57	9,332.85	0.00	0.00	0.00
19,400.00	90.00	0.05	10,068.00	9,432.79	78.65	9,432.85	0.00	0.00	0.00
19,500.00	90.00	0.05	10,068.00	9,532.79	78.74	9,532.85	0.00	0.00	0.00
19,600.00	90.00	0.05	10,068.00	9,632.79	78.82	9,632.85	0.00	0.00	0.00
19,700.00	90.00	0.05	10,068.00	9,732.79	78.90	9,732.85	0.00	0.00	0.00
19,800.00	90.00	0.05	10,068.00	9,832.79	78.99	9,832.85	0.00	0.00	0.00
19,900.00	90.00	0.05	10,068.00	9,932.79	79.07	9,932.85	0.00	0.00	0.00
20,000.00	90.00	0.05	10,068.00	10,032.79	79.15	10,032.85	0.00	0.00	0.00
20,100.00	90.00	0.05	10,068.00	10,132.79	79.23	10,132.85	0.00	0.00	0.00
20,200.00	90.00	0.05	10,068.00	10,232.79	79.32	10,232.85	0.00	0.00	0.00
20,290.22	90.00	0.05	10,068.00	10,323.00	79.39	10,323.07	0.00	0.00	0.00
20,300.00	90.00	0.05	10,068.00	10,332.79	79.40	10,332.85	0.00	0.00	0.00
20,400.00	90.00	0.05	10,068.00	10,432.79	79.48	10,432.85	0.00	0.00	0.00
20,420.21	90.00	0.05	10,068.00	10,453.00	79.50	10,453.07	0.00	0.00	0.00

Design Targets

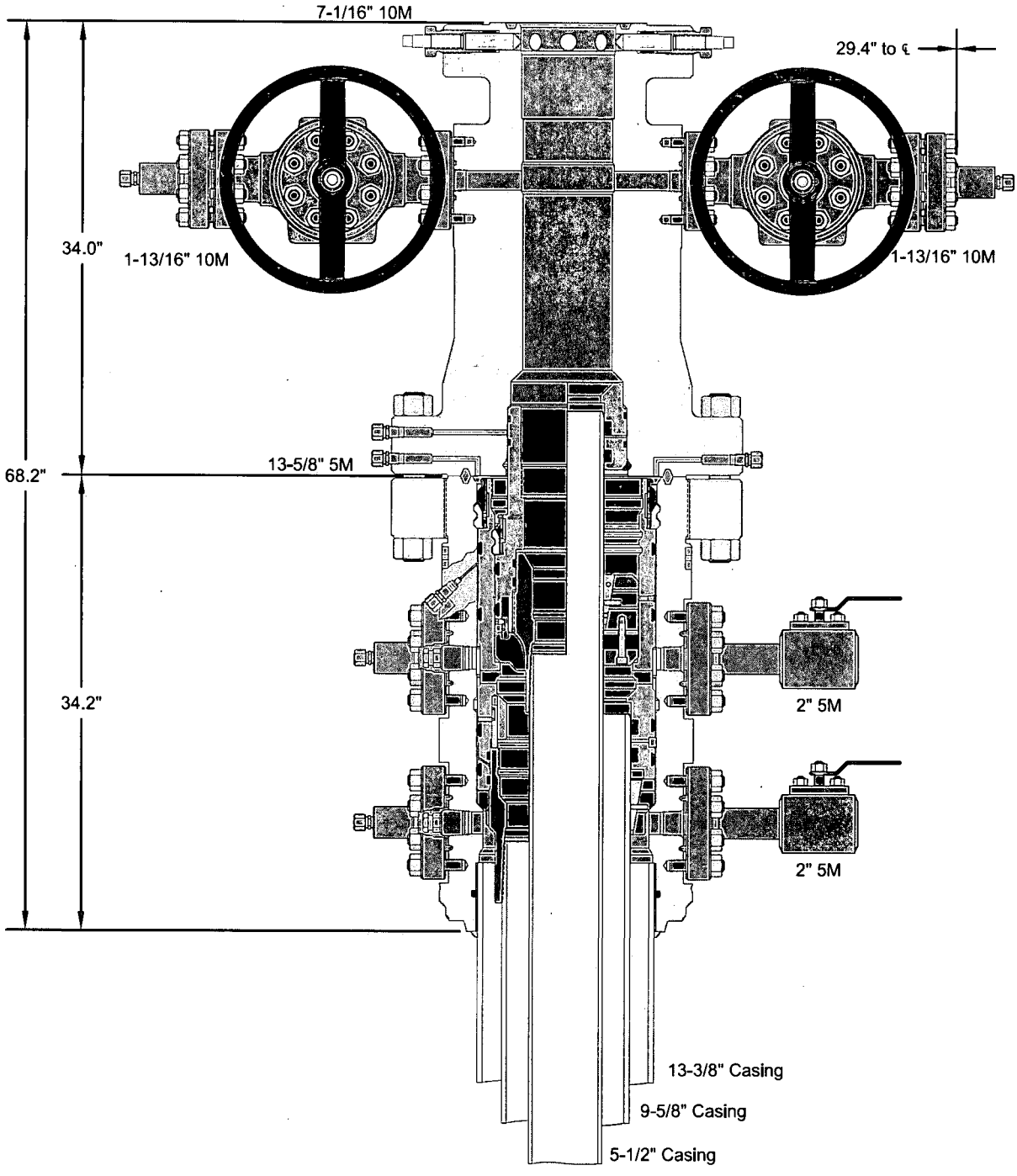
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
#122H: SHLv2 (2548' - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	416,385.30	599,703.60	32.1443500	-104.0111983
#122H: LTPv2 - plan misses target center by 1.31usft at 20290.22usft MD (10068.00 TVD, 10323.00 N, 79.39 E) - Point	0.00	0.00	10,068.00	10,323.00	80.70	426,708.30	599,784.30	32.1727270	-104.0108377
#122H: PBHLv2 (244(- plan hits target center - Point	0.00	0.00	10,068.00	10,453.00	79.50	426,838.30	599,783.10	32.1730844	-104.0108403
#122H: FTP/ LPv2 - plan hits target center - Point	0.00	0.00	10,068.00	434.40	71.20	416,819.70	599,774.80	32.1455436	-104.0109641

Database:	EDM 5000.1.13 Single User Db	**Local Co-ordinate Reference:**	Well #122H
Company:	XTO Energy	**TVD Reference:**	Ref GL @ 2967.00usft
Project:	Eddy County, NM (NAD-27)	**MD Reference:**	Ref GL @ 2967.00usft
Site:	Corral Canyon 8 32 Fed	**North Reference:**	Grid
Well:	#122H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PERMITv2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
321.00	321.00	RUSTLER			
686.00	686.00	SALADO			
2,599.00	2,599.00	BASE SALT			
2,802.00	2,802.00	DELAWARE			
3,703.00	3,703.00	CHERRY CANYON			
5,291.00	5,291.00	BRUSHY CANYON			
6,555.00	6,555.00	BONE SPRING			
7,503.00	7,503.00	1ST BONE SPRING SAND			
7,719.01	7,719.00	2ND BONE SPRING CARBONATE			
8,325.92	8,324.00	2ND BONE SPRING SAND			
8,563.83	8,561.00	3RD BONE SPRING CARBONATE			
9,411.05	9,405.00	3RD BONE SPRING SAND			
9,789.37	9,771.00	WOLFCAMP			
9,947.01	9,897.00	WOLFCAMP A			
10,401.61	10,068.00	LP			

GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

XTO ENERGY, INC.

13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead Assembly, With T-EBS-F Tubing Head

DRAWN	VJK	16FEB17
APPRV	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

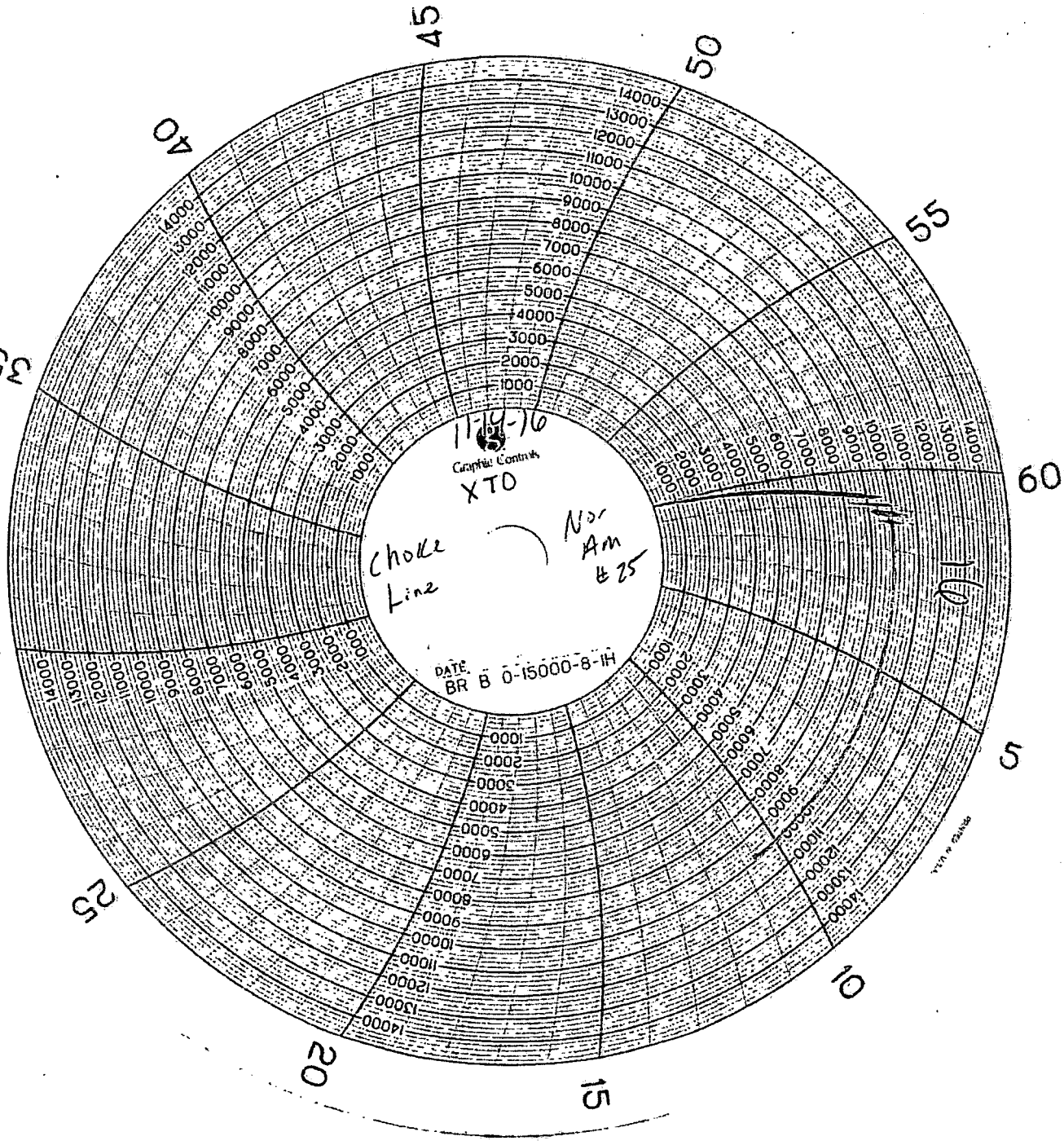
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA

Product Description:	FD3.042.0R41/16.5KFLGE/E LE

End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	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:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	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Graphic Controls
XTD
Choke Line
Nor Am #25
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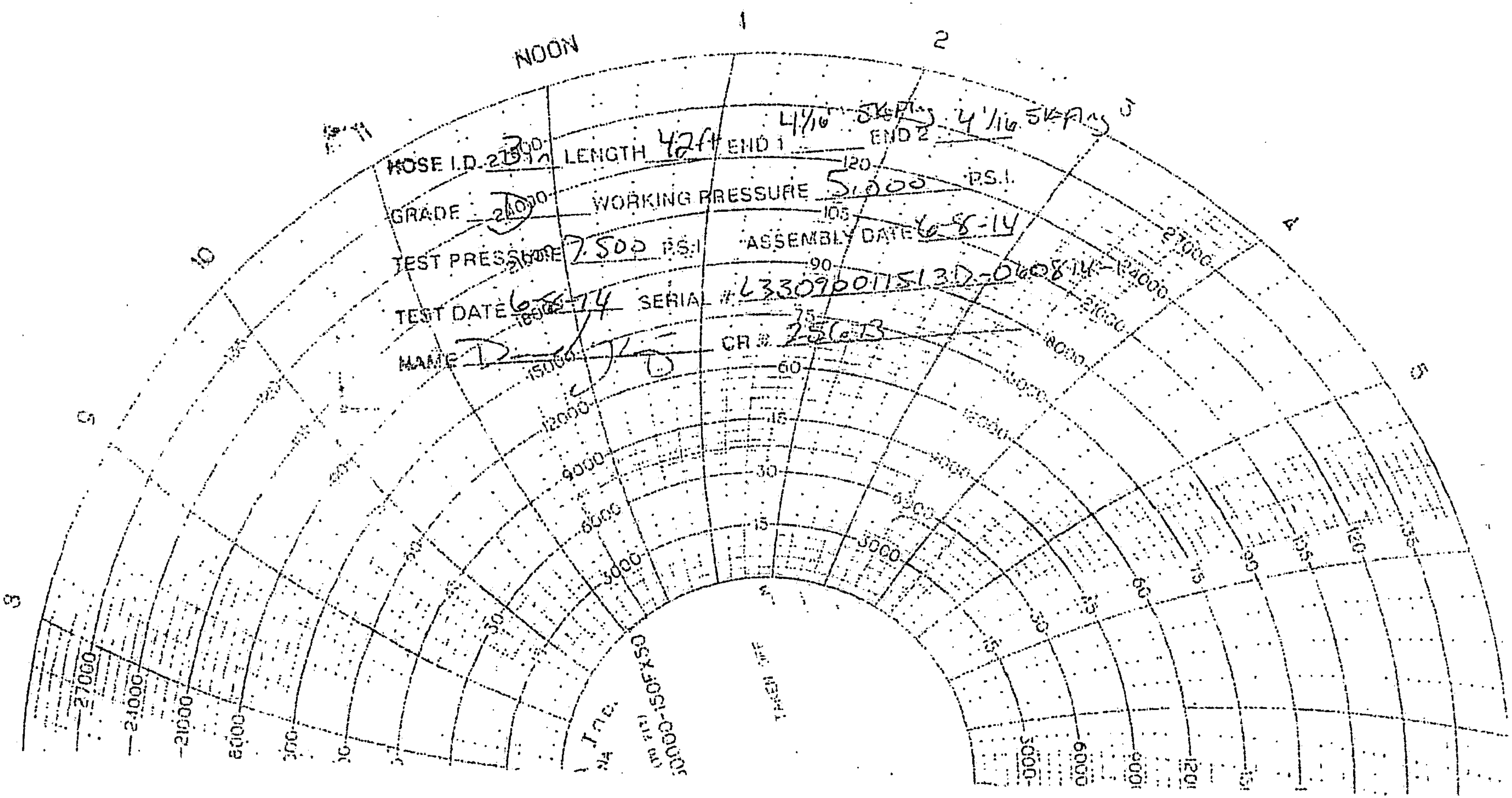

NOON
HOSE I.D. 3 in LENGTH 42ft END 1 4 1/16 5K Flg END 2 4 1/16 5K Flg
GRADE D WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14
TEST DATE 6-8-14 SERIAL # 6330960011513D-060814-1
NAME
CR # 25613

APD ID: 10400045663
Submission Date: 08/09/2019
Operator Name: XTO ENERGY INCORPORATED
Well Name: CORRAL CANYON 8-32 FEDERAL
Well Number: 122H
Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

CC_8_32_122H_Road_20190809055138.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:

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 as-needed 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

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

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

Water source and transportation map:

CC_8_32_122H_Wtr_20190809055302.pdf

Water source comments:

New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

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:

Additional information attachment:

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: 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 FACILITY **Disposal location ownership:** COMMERCIAL
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.

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.
Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
Disposal type description:

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

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 containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL
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: 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 containmant attachment:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

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

Disposal type description:

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

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? YES

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.)**

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Section 9 - Well Site Layout

Well Site Layout Diagram:

CC_8_32_122H_Well_20190809055416.pdf

Comments: Multi-Well Pad

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: CC 8-32 Fed

Multiple Well Pad Number: 1

Recontouring attachment:

CC_8_32_Fed_Int_Rec1_20190807054117.pdf

CC_8_32_Fed_Int_Rec2_20190807054125.pdf

CC_8_32_Fed_Int_Rec3_20190807054130.pdf

CC_8_32_Fed_Int_Rec4_20190807054135.pdf

Drainage/Erosion control construction: All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance (acres): 22.96
Road proposed disturbance (acres): 2.38
Powerline proposed disturbance (acres): 4.09
Pipeline proposed disturbance (acres): 2.85
Other proposed disturbance (acres): 9.48
Total proposed disturbance: 41.760000000000005

Well pad interim reclamation (acres): 7.88
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0
Total interim reclamation: 7.88

Well pad long term disturbance (acres): 15.08
Road long term disturbance (acres): 2.38
Powerline long term disturbance (acres): 4.09
Pipeline long term disturbance (acres): 2.35
Other long term disturbance (acres): 9.48
Total long term disturbance: 33.38

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Existing Vegetation at the well pad: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by

black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
Seed BMP: If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
Seed method: Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.
Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: Weed control for all phases will be through the use of approved pesticides and herbicides according to applicable State, Federal and local laws.
Weed treatment plan attachment:

Monitoring plan description: Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.
Monitoring plan attachment:

Success standards: 100% compliance with applicable regulations.

Pit closure description: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop mud system will meet the NMOCD requirements 19.15.17.
Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: OTHER

Describe: CTB

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: OTHER

Describe: OHE

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Section 12 - Other Information

Right of Way needed? Y **Use APD as ROW?** Y

ROW Type(s): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,289001 ROW-O&G Well Pad,FLPMA (Powerline)

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? Y

Previous Onsite information: PRESENT AT ON-SITE: Bobby Ballard, BLM NRS Supervisor Fernano Banos, BLM NRS Jimie Scott, Construction Foreman FSC, Inc., Surveyors

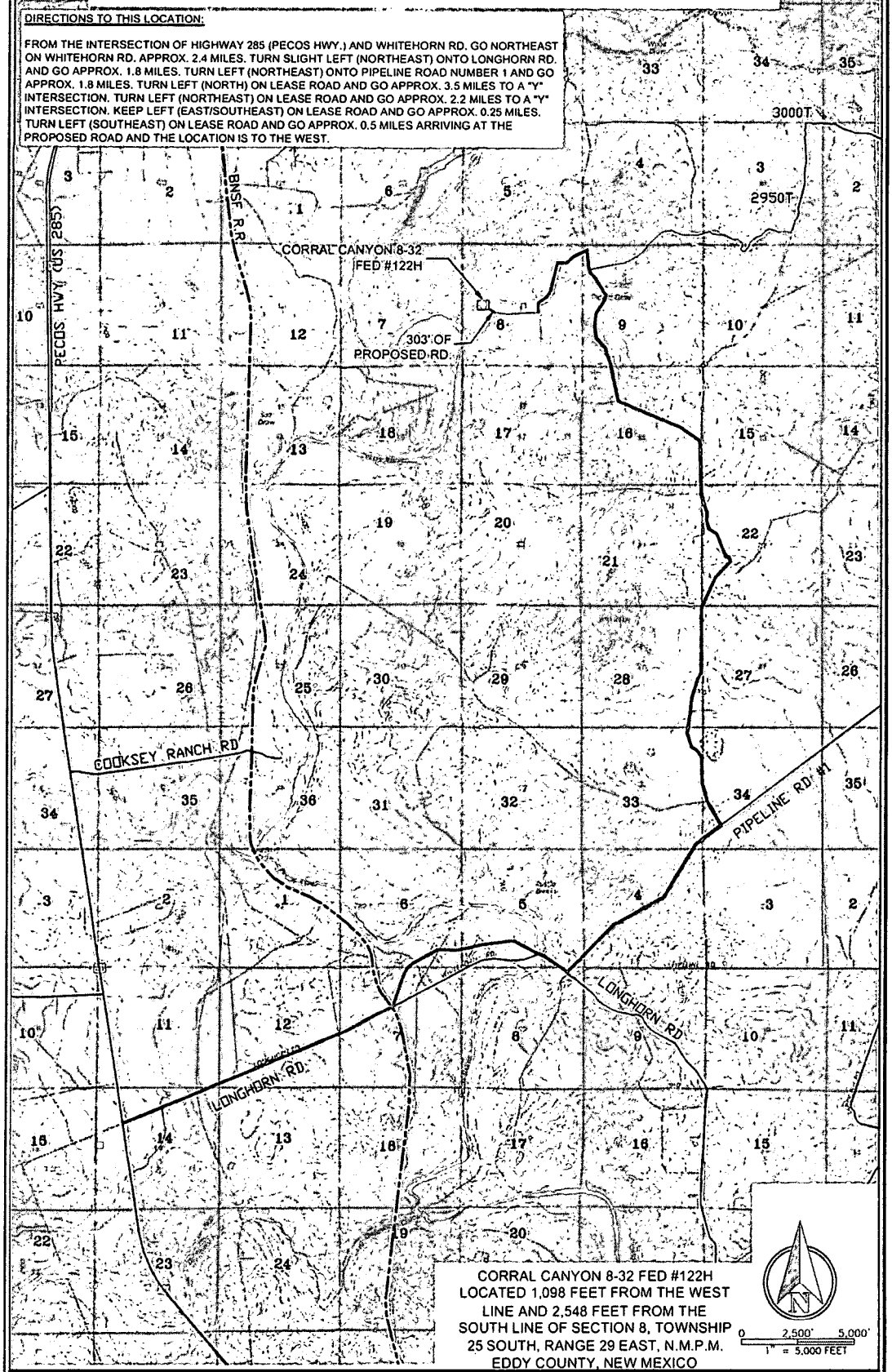
Other SUPO Attachment

CC_8_32_SUPO_20191001071005.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 285 (PECOS HWY.) AND WHITEHORN RD. GO NORTHEAST ON WHITEHORN RD. APPROX. 2.4 MILES. TURN SLIGHT LEFT (NORTHEAST) ONTO LONGHORN RD. AND GO APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 AND GO APPROX. 1.8 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 3.5 MILES TO A "Y" INTERSECTION. TURN LEFT (NORTHEAST) ON LEASE ROAD AND GO APPROX. 2.2 MILES TO A "Y" INTERSECTION. KEEP LEFT (EAST/SOUTHEAST) ON LEASE ROAD AND GO APPROX. 0.25 MILES. TURN LEFT (SOUTHEAST) ON LEASE ROAD AND GO APPROX. 0.5 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE WEST.



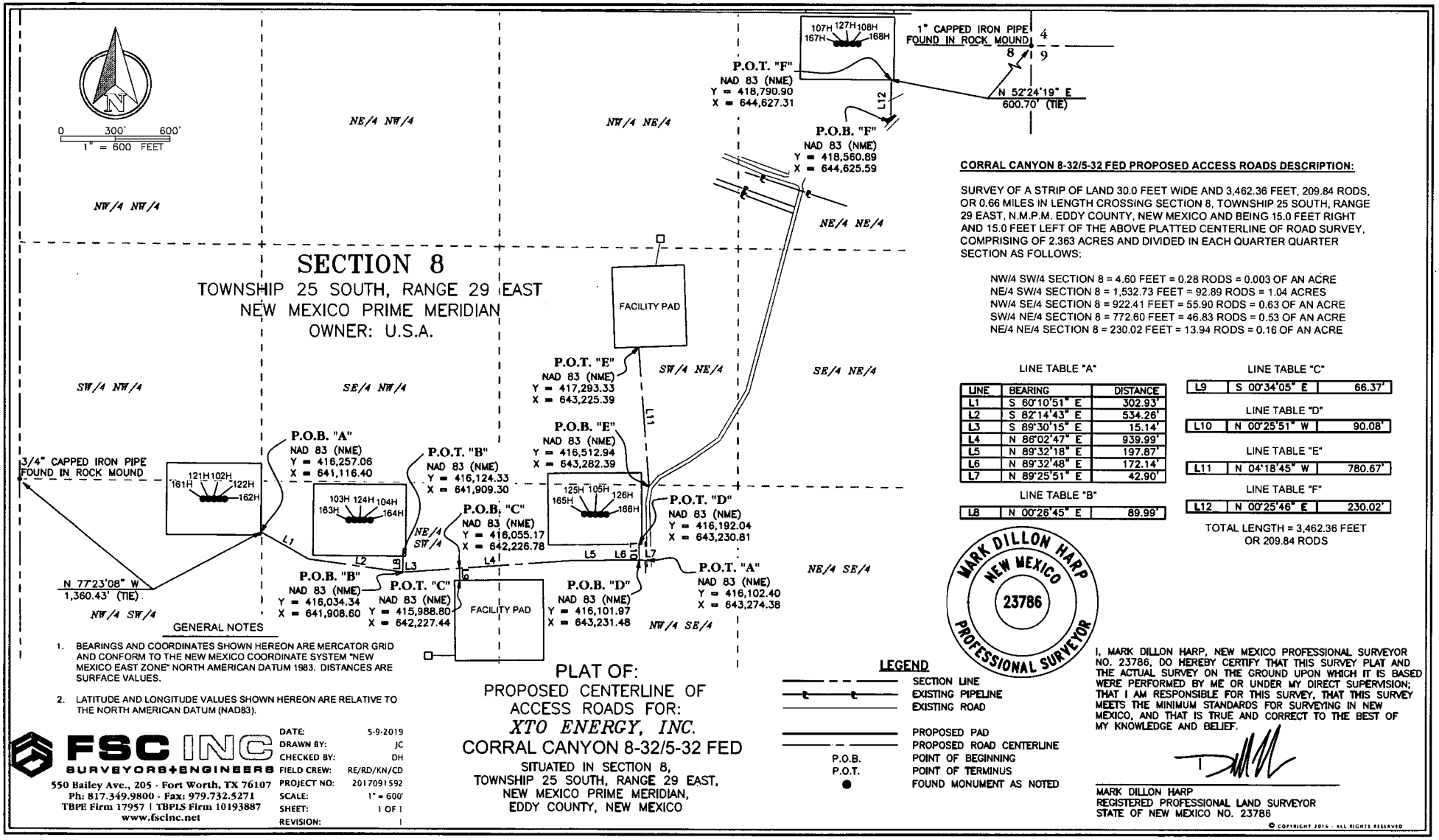
CORRAL CANYON 8-32 FED #122H
LOCATED 1,098 FEET FROM THE WEST LINE AND 2,548 FEET FROM THE SOUTH LINE OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO

N

0 2,500' 5,000'
1" = 5,000 FEET

F&C INC
SURVEYORS+ENGINEERS
550 Bailey Ave., 205 · Fort Worth, TX 76107
Ph: 817.349.9800 · Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fcinc.net

DATE:	5-2-2019	PROJECT NO:	2017091557
DRAWN BY:	AI	SCALE:	1" = 5,000'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE/PH	REVISION:	NO



GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

FSC INC
SURVEYORS & ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	5-9-2019
DRAWN BY:	JC
CHECKED BY:	DH
FIELD CREW:	RE/RD/KN/CD
PROJECT NO:	2017091592
SCALE:	1" = 600'
SHEET:	1 OF 1
REVISION:	1

PLAT OF:
PROPOSED CENTERLINE OF ACCESS ROADS FOR:
XTO ENERGY, INC.
CORRAL CANYON 8-32/5-32 FED

SITUATED IN SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- PROPOSED PAD
- PROPOSED ROAD CENTERLINE
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINUS
- ● FOUND MONUMENT AS NOTED

CORRAL CANYON 8-32/5-32 FED PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 3,462.36 FEET, 209.84 RODS, OR 0.66 MILES IN LENGTH CROSSING SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 2.363 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 SW/4 SECTION 8 = 4.60 FEET = 0.28 RODS = 0.003 OF AN ACRE
NE/4 SW/4 SECTION 8 = 1,532.73 FEET = 92.89 RODS = 1.04 ACRES
NW/4 SE/4 SECTION 8 = 922.41 FEET = 55.90 RODS = 0.63 OF AN ACRE
SW/4 NE/4 SECTION 8 = 772.60 FEET = 46.83 RODS = 0.53 OF AN ACRE
NE/4 NE/4 SECTION 8 = 230.02 FEET = 13.94 RODS = 0.16 OF AN ACRE

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 60°10'51" E	302.93'
L2	S 82°14'43" E	534.26'
L3	S 89°30'15" E	15.14'
L4	N 86°02'47" E	939.99'
L5	N 89°32'18" E	197.87'
L6	N 89°32'48" E	172.14'
L7	N 89°25'51" E	42.90'

LINE TABLE "B"

L8	N 00°26'45" E	89.99'

LINE TABLE "C"

L9	S 00°34'05" E	66.37'

LINE TABLE "D"

L10	N 00°25'51" W	90.08'

LINE TABLE "E"

L11	N 04°18'45" W	780.67'

LINE TABLE "F"

L12	N 00°25'46" E	230.02'

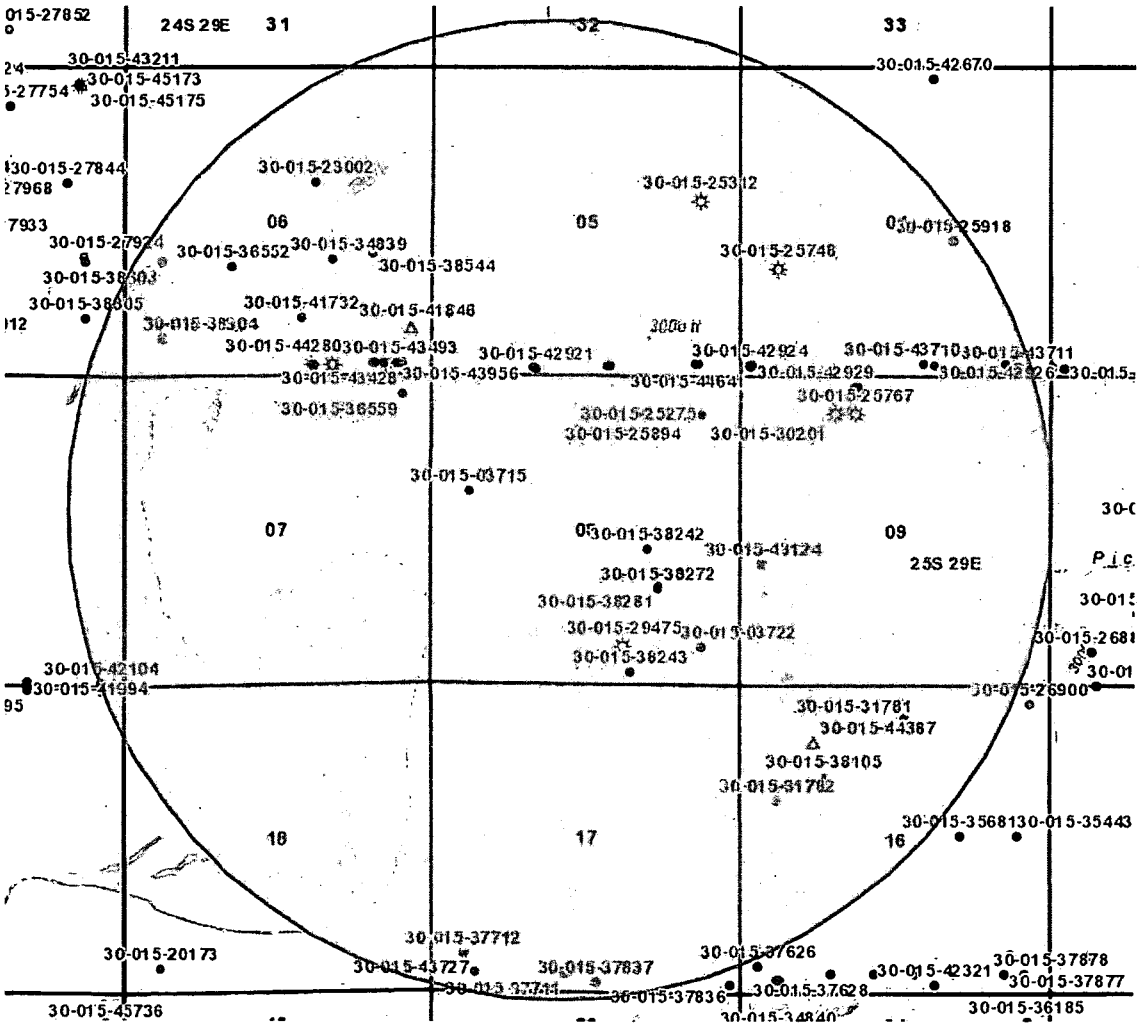
TOTAL LENGTH = 3,462.36 FEET OR 209.84 RODS

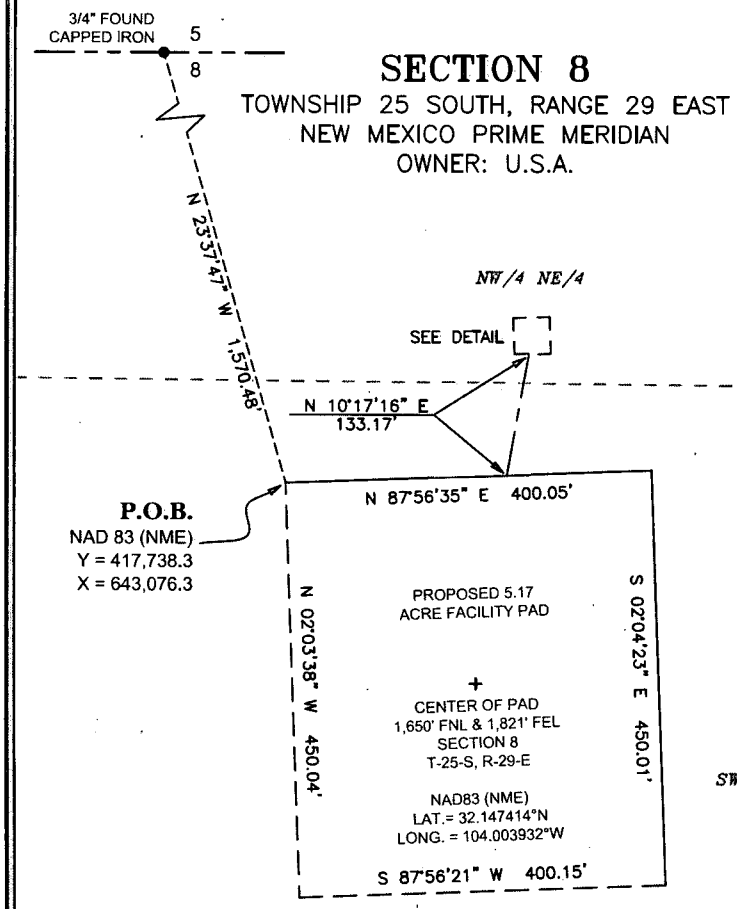
MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

Corral Canyon 8-32 Federal 1-Mile Radius Map





CORRAL CANYON 8-32 FEDERAL PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 4.13 acres and being situated in Section 8, Township 25 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the northwest corner of the proposed facility pad which lies N 23°37'47" W 1,570.48 feet, from a found 3/4" found capped iron rod being the north quarter corner of said Section 8;

THENCE over and across said Section 8, the following courses and distances:

N 87°56'35" E, a distance of 400.05 feet to a point;

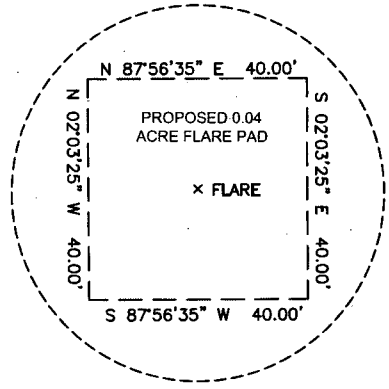
S 02°04'23" E, a distance of 450.01 feet to a point;

S 87°56'21" W, a distance of 400.15 feet to a point;

N 02°03'38" W, a distance of 450.04 feet to the POINT OF BEGINNING containing a total of **4.13 acres**, more or less.

Said pad is divided in each quarter-quarter section as follows

SW/4 NE/4 Section 8 = 4.13 ACRES



PROPOSED FLARE PAD DETAIL
NOT TO SCALE

SE/4 NE/4

0 100' 200'
1" = 200 FEET

CORRAL CANYON 8-32 FEDERAL PROPOSED FLARE LINE CENTERLINE OF A 30' EASEMENT DESCRIPTION:

Survey of a strip of land 30.0 feet wide and 133.17 feet, 8.07 rods, or 0.03 miles in length, being in Section 8, Township 26 South, Range 29 East, N.M.P.M., Eddy County, New Mexico and being 15.0 feet right and 15.0 feet left of the above platted centerline. Comprising of 0.09 of an acre and divided in each quarter-quarter section as follows:

SW/4 NE/4 Section 8 = 101.15 FEET - 6.13 RODS - 0.07 of an acre
NW/4 NE/4 Section 8 = 32.02 FEET - 1.94 RODS - 0.02 of an acre

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

LEGEND

SECTION LINE
PROPOSED FACILITY PAD
CENTERLINE OF FLARE LINE
P.O.B. POINT OF BEGINNING
● FOUND CAPPED IRON PIPE MONUMENT

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

FSC INC
SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

XTO ENERGY, INC.

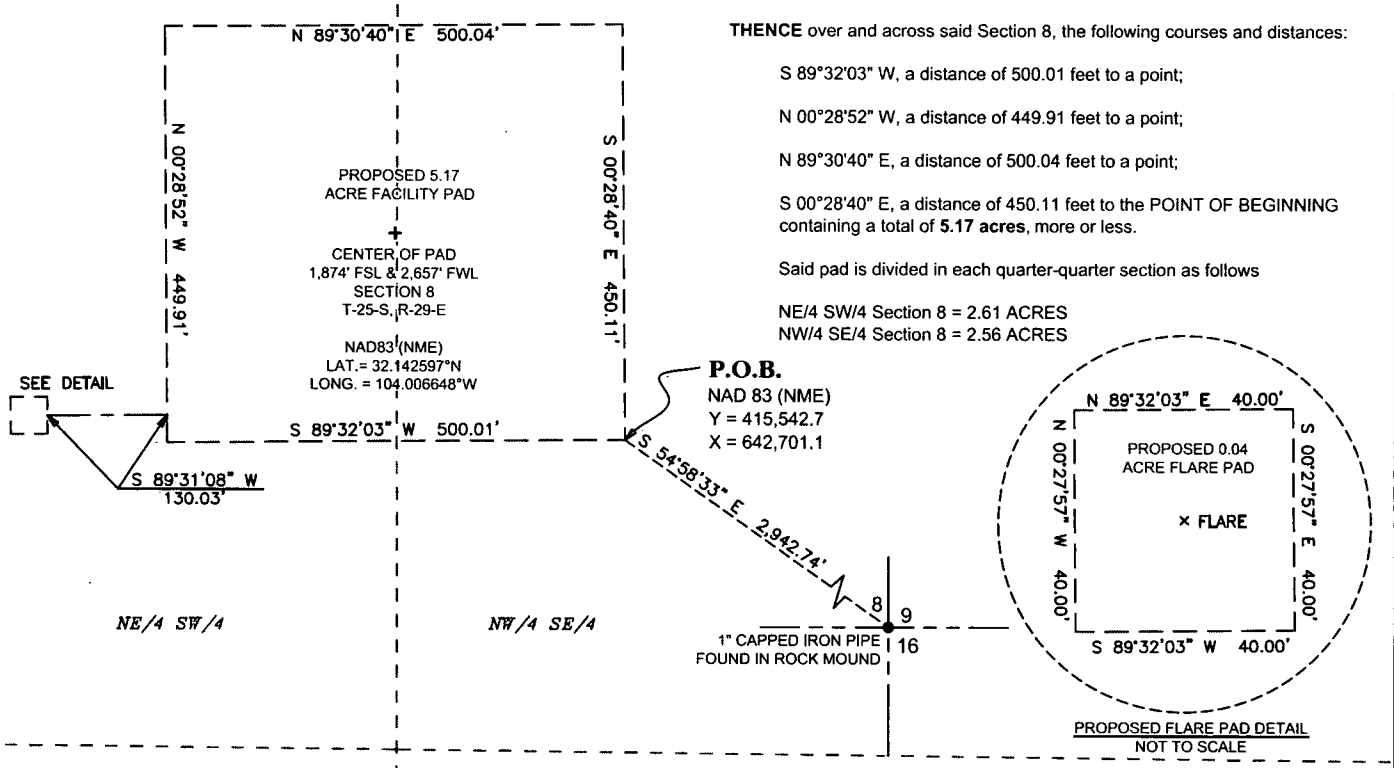
PROPOSED FACILITY PAD CORRAL CANYON 8-32 FEDERAL

SURVEY FOR A PROPOSED FACILITY PAD SITUATED IN THE NE/4 OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	5-9-2019	PROJECT NO:	2017091592
DRAWN BY:	AI/JC	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NO

SECTION 8

TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN
OWNER: U.S.A.



PROPOSED FLARE PAD DETAIL
NOT TO SCALE

CORRAL CANYON 8-32 FEDERAL PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 5.17 acres and being situated in Section 8, Township 25 South, Range 29 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southeast corner of the proposed facility pad which lies S 54°58'33" E 2,942.74 feet, from a found 1" capped iron rod found in a rock mound being the southeast corner of said Section 8;

THENCE over and across said Section 8, the following courses and distances:

S 89°32'03" W, a distance of 500.01 feet to a point;

N 00°28'52" W, a distance of 449.91 feet to a point;

N 89°30'40" E, a distance of 500.04 feet to a point;

S 00°28'40" E, a distance of 450.11 feet to the POINT OF BEGINNING containing a total of **5.17 acres**, more or less.

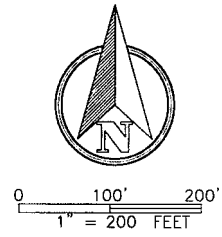
Said pad is divided in each quarter-quarter section as follows

NE/4 SW/4 Section 8 = 2.61 ACRES
NW/4 SE/4 Section 8 = 2.56 ACRES

CORRAL CANYON 8-32 FEDERAL PROPOSED FLARE LINE CENTERLINE OF A 30' EASEMENT DESCRIPTION:

Survey of a strip of land 30.0 feet wide and 130.03 feet, 7.88 rods, or 0.02 miles in length, being in Section 8, Township 26 South, Range 29 East, N.M.P.M., Eddy County, New Mexico and being 15.0 feet right and 15.0 feet left of the above platted centerline. Comprising of 0.09 of an acre and divided in each quarter-quarter section as follows:

NE/4 SW/4 Section 8 = 130.03 FEET - 7.88 RODS - 0.09 of an acre



LEGEND

- SECTION LINE
- PROPOSED FACILITY PAD
- CENTERLINE OF FLARE LINE
- P.O.B. POINT OF BEGINNING
- ● FOUND CAPPED IRON PIPE MONUMENT

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR

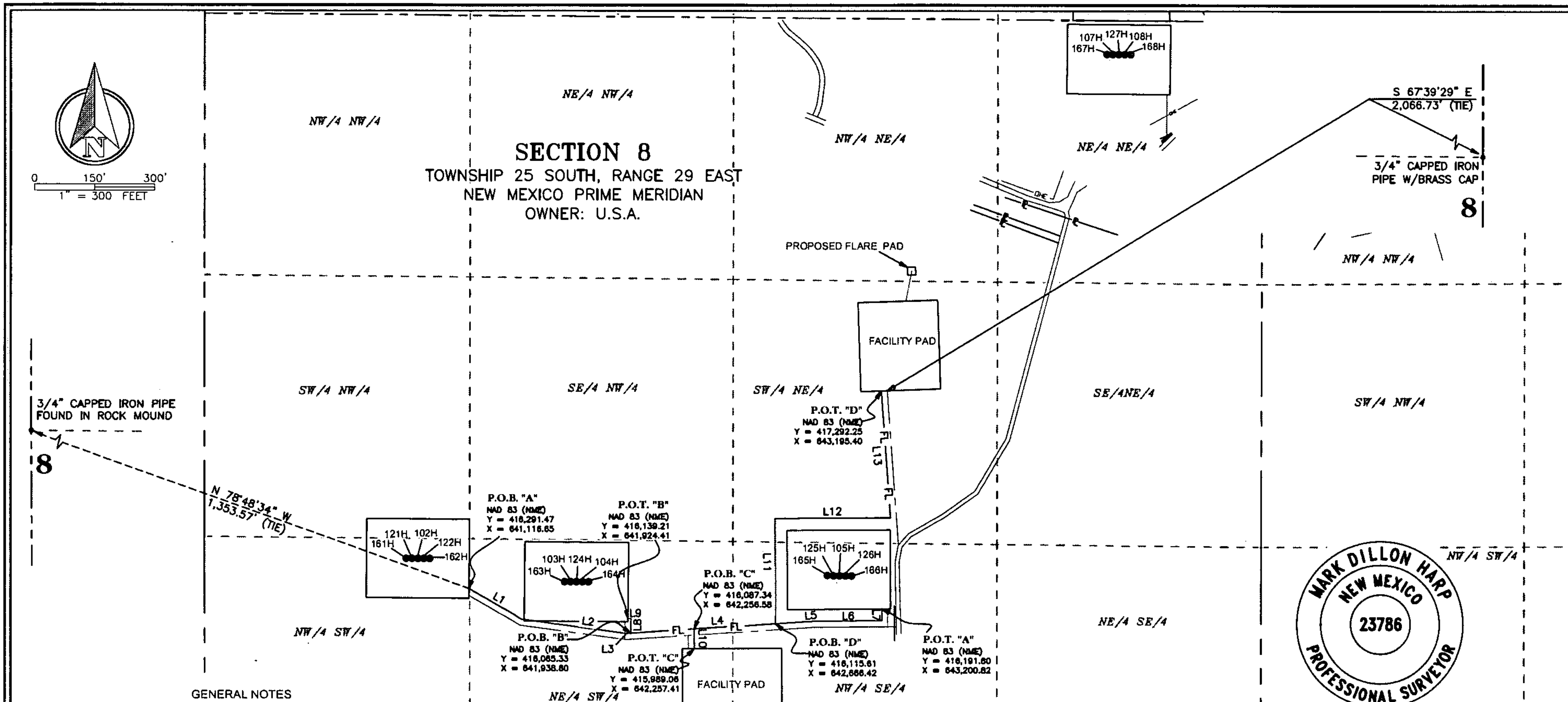
FSC INC
SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

XTO ENERGY, INC.

PROPOSED FACILITY PAD CORRAL CANYON 8-32 FEDERAL

SURVEY FOR A PROPOSED FACILITY PAD SITUATED IN THE SW/4 AND THE SE/4 OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	5-9-2019	PROJECT NO:	2017091592
DRAWN BY:	AW/JC	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NO



GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

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TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	5-9-2019
DRAWN BY:	JC
CHECKED BY:	DH
FIELD CREW:	RE/RD/KN/CD
PROJECT NO:	2017091592
SCALE:	1" = 600'
SHEET:	1 OF 2
REVISION:	1

PLAT OF:
PROPOSED CENTERLINE OF BURIED AND SURFACE FLOW LINES FOR:
XTO ENERGY, INC.
CORRAL CANYON 8-32/5-32 FED

SITUATED IN SECTION 8,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

— - - —	SECTION LINE
—E—E—	EXISTING PIPELINE
	EXISTING ROAD
	PROPOSED PAD
	PROPOSED ROAD CENTERLINE
—FL—FL—	PROPOSED BURIED AND SURFACE FLOW LINE CENTERLINE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 60°11'12" E	313.96'
L2	S 82°14'39" E	526.51'
L3	S 89°33'15" E	12.08'
L4	N 86°02'47" E	910.58'
L5	N 86°01'38" E	29.17'
L6	N 89°33'08" E	340.93'
L7	N 00°25'55" E	60.09'

LINE TABLE "B"

L8	N 00°29'26" E	73.75'
L9	N 89°30'34" W	15.02'

LINE TABLE "C"

L10	S 00°29'02" E	98.28'

LINE TABLE "D"

L11	N 00°28'17" W	531.80'
L12	N 89°31'53" E	581.57'
L13	N 04°18'24" W	641.92'

TOTAL LENGTH = 4,135.66 FEET
OR 250.65 RODS

CORRAL CANYON 8-32/5-32 FED PROPOSED FLOW LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 4,135.66 FEET, 250.65 RODS, OR 0.78 MILES IN LENGTH CROSSING SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF FLOW LINE SURVEY, COMPRISING OF 2.773 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 SW/4 SECTION 8 = 4.22 FEET = 0.26 RODS = 0.003 OF AN ACRE
NE/4 SW/4 SECTION 8 = 1,564.87 FEET = 94.84 RODS = 1.02 ACRES
NW/4 SE/4 SECTION 8 = 1,224.16 FEET = 74.19 RODS = 0.83 OF AN ACRE
SW/4 NE/4 SECTION 8 = 1,342.41 FEET = 81.36 RODS = 0.92 OF AN ACRE

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

PLAT OF:
PROPOSED CENTERLINE OF
BURIED AND SURFACE
FLOW LINES FOR:
XTO ENERGY, INC.
CORRAL CANYON 8-32/5-32 FED
SITUATED IN SECTION 8,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

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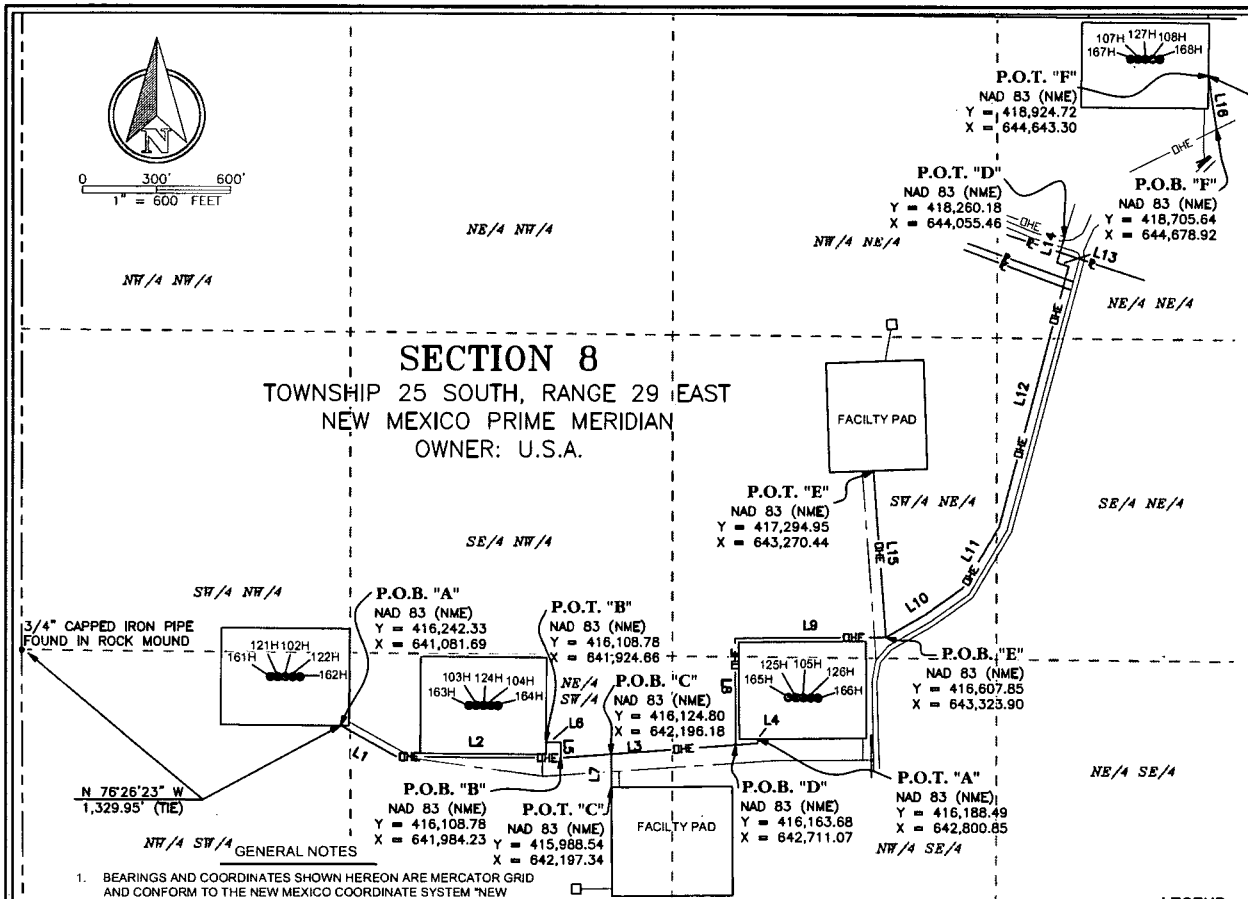
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	5-9-2019
DRAWN BY:	JC
CHECKED BY:	DH
FIELD CREW:	RE/RD/KN/CD
PROJECT NO:	2017091592
SCALE:	1" = 300'
SHEET:	2 OF 2
REVISION:	1

P:\PROJECTS\2017\2017091592-XTO-CORRAL_CANYON_UNIT-EDDY\DWG\EXHIBITS\8-32\2017091592_XTO_CORRAL-CANYON-UNIT_EDDY_FLOW_LINE_8-32.dwg



CORRAL CANYON 8-32/5-32 FED PROPOSED ELECTRIC LINES DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 5,942.76 FEET, 360.17 RODS, OR 1.13 MILES IN LENGTH CROSSING SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY, COMPRISING OF 4.04 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 SW/4 SECTION 8 = 44.71 FEET = 2.71 RODS = 0.03 OF AN ACRE
NE/4 SW/4 SECTION 8 = 1,620.85 FEET = 98.24 RODS = 1.10 ACRES
NW/4 SE/4 SECTION 8 = 733.81 FEET = 44.47 RODS = 0.49 OF AN ACRE
SW/4 NE/4 SECTION 8 = 2,029.06 FEET = 122.97 RODS = 1.38 ACRES
SE/4 NE/4 SECTION 8 = 824.12 FEET = 49.95 RODS = 0.57 OF AN ACRE
NE/4 NE/4 SECTION 8 = 690.21 FEET = 41.83 RODS = 0.47 OF AN ACRE

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 60°11'38" E	258.65'
L2	S 89°34'44" E	678.11'
L3	N 85°42'40" E	819.05'
L4	N 00°28'23" W	18.46'

LINE TABLE "B"

L5	N 00°29'09" E	64.10'
L6	N 89°36'53" W	60.10'

LINE TABLE "C"

L7	S 00°29'22" E	136.26'

LINE TABLE "D"

L8	N 00°28'33" W	439.07'
L9	N 89°31'28" E	616.48'
L10	N 57°07'45" E	375.87'
L11	N 30°32'37" E	294.57'
L12	N 14°44'22" E	1108.29'
L13	N 71°33'01" W	51.25'
L14	N 16°49'29" E	111.36'

LINE TABLE "E"

L15	N 04°26'56" W	689.18'

LINE TABLE "F"

L16	N 09°14'05" W	221.96'

TOTAL LENGTH = 5,942.76 FEET
OR 360.17 RODS

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

LEGEND

- SECTION LINE
- EXISTING PIPELINE
- EXISTING ROAD
- EXISTING OVERHEAD ELECTIC LINE
- PROPOSED PAD
- PROPOSED ROAD CENTERLINE
- PROPOSED ELECTRIC LINE
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

PLAT OF:
PROPOSED CENTERLINE OF ELECTRIC LINES FOR:
XTO ENERGY, INC.
CORRAL CANYON 8-32/5-32 FED

SITUATED IN SECTION 8,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

FSC INC
SURVEYORS+ENGINEERS
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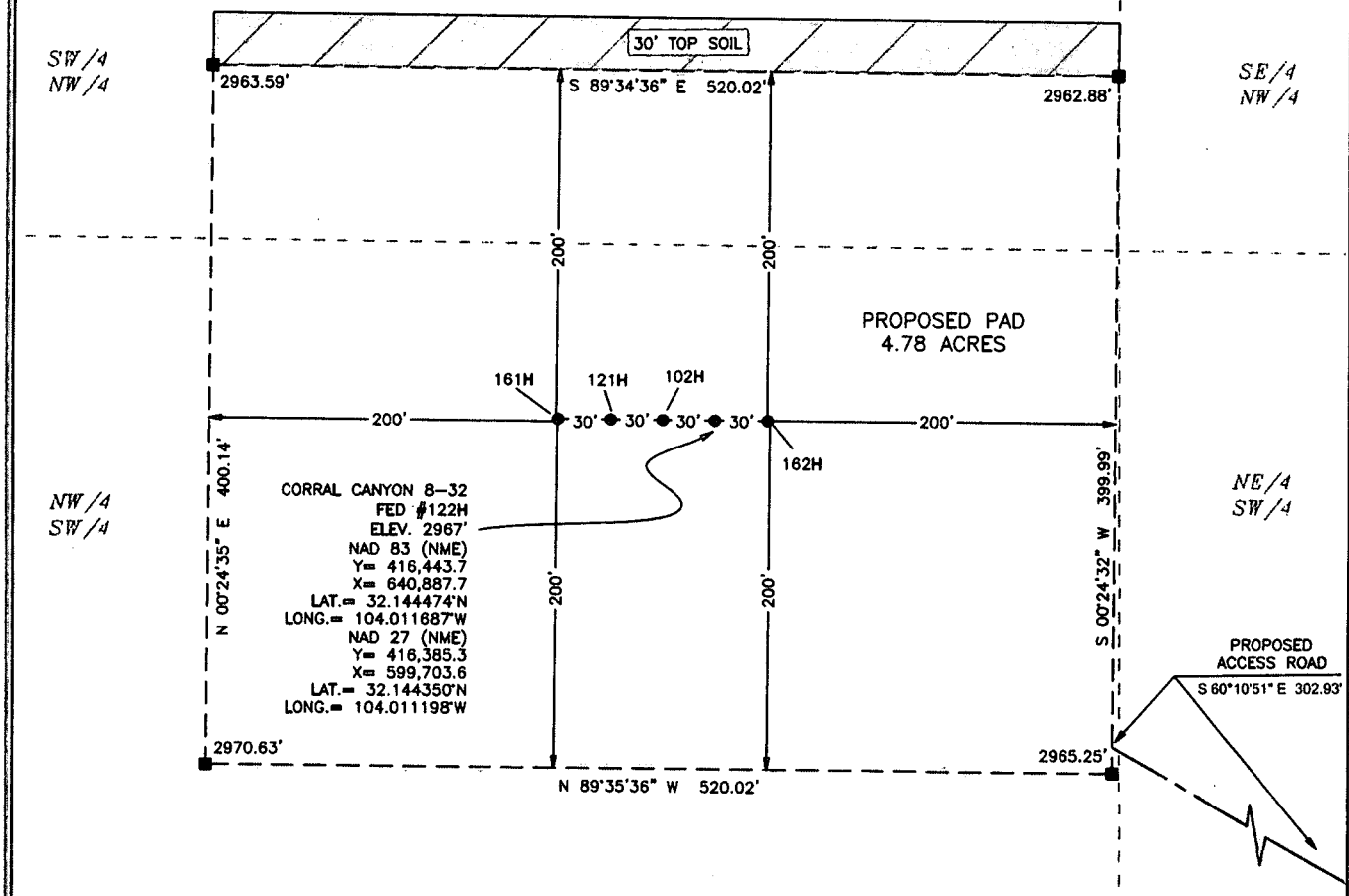
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

DATE:	5-9-2019
DRAWN BY:	JC
CHECKED BY:	DH
FIELD CREW:	RE/RD/KN/CD
PROJECT NO:	2017091592
SCALE:	1" = 600'
SHEET:	1 OF 1
REVISION:	1

WELL SITE PLAN



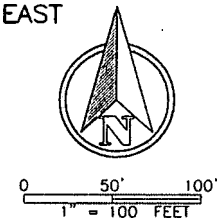
SECTION 8

TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

OWNER: U.S.A.

NOTE:

1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR PROPOSED ROAD LOCATION



LEGEND

PROPOSED ACCESS RD.

PROPOSED PAD

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 285 (PECOS HWY.) AND WHITEHORN RD. GO NORTHEAST ON WHITEHORN RD. APPROX. 2.4 MILES. TURN SLIGHT LEFT (NORTHEAST) ONTO LONGHORN RD. AND GO APPROX. 1.8 MILES. TURN LEFT (NORTHEAST) ONTO PIPELINE ROAD NUMBER 1 AND GO APPROX. 1.8 MILES. TURN LEFT (NORTH) ON LEASE ROAD AND GO APPROX. 3.5 MILES TO A "Y" INTERSECTION. TURN LEFT (NORTHEAST) ON LEASE ROAD AND GO APPROX. 2.2 MILES TO A "Y" INTERSECTION. KEEP LEFT (EAST/SOUTHEAST) ON LEASE ROAD AND GO APPROX. 0.3 MILES. TURN LEFT (SOUTHEAST) ON LEASE ROAD AND GO APPROX. 0.5 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE WEST.

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TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

XTO ENERGY, INC.

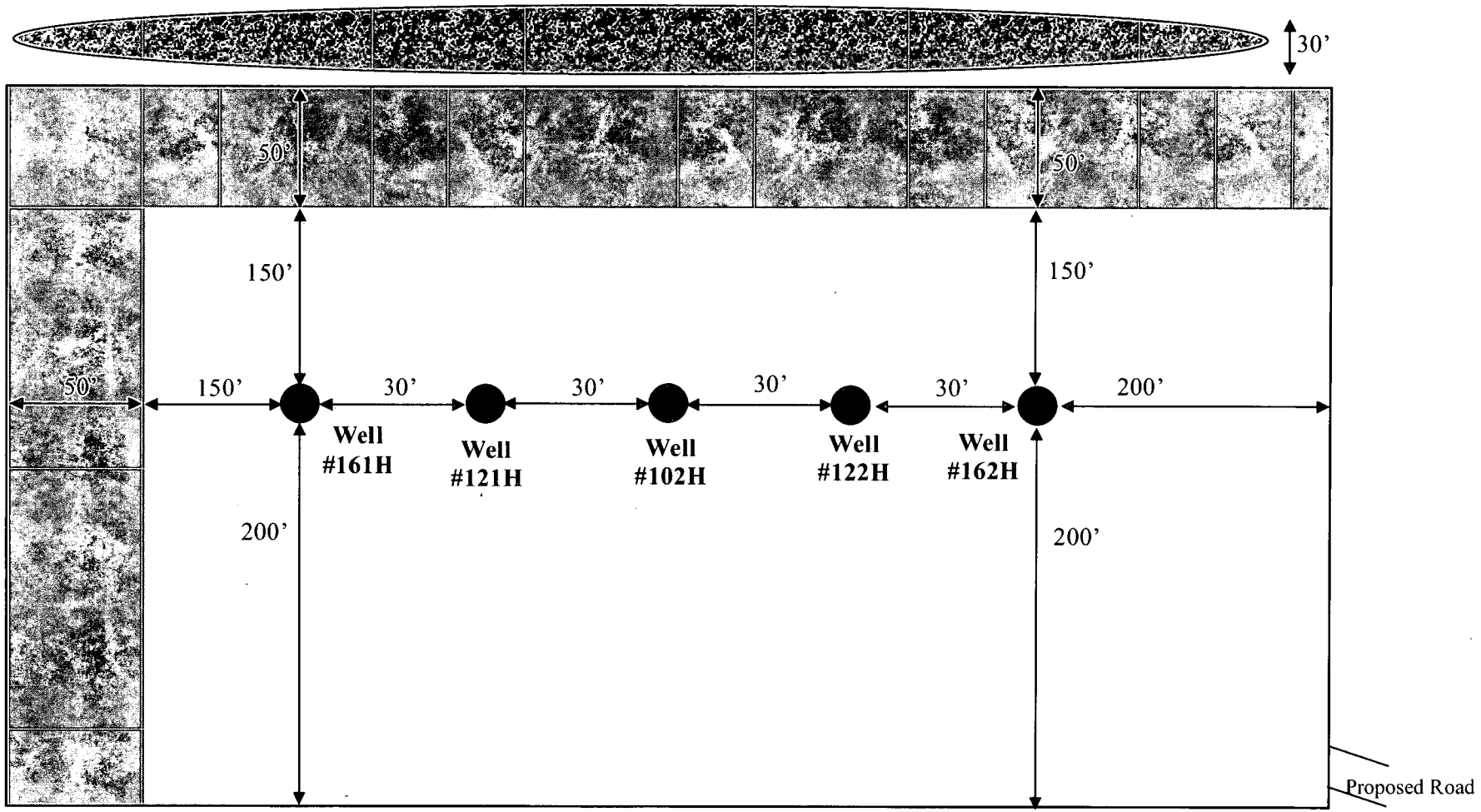
CORRAL CANYON 8-32 FED #122H
LOCATED 1,098 FEET FROM THE WEST LINE AND 2,548 FEET FROM THE SOUTH LINE OF SECTION 8, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, NEW MEXICO

DATE:	5-2-2019	PROJECT NO:	2017091557
DRAWN BY:	AI	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NO

Interim Reclamation Diagram

Corral Canyon 8-32 Federal #161H, 121H, 102H, 122H, 162H

V-Door East (All Wells)



N

LEGEND

Wellbore

Interim Reclamation

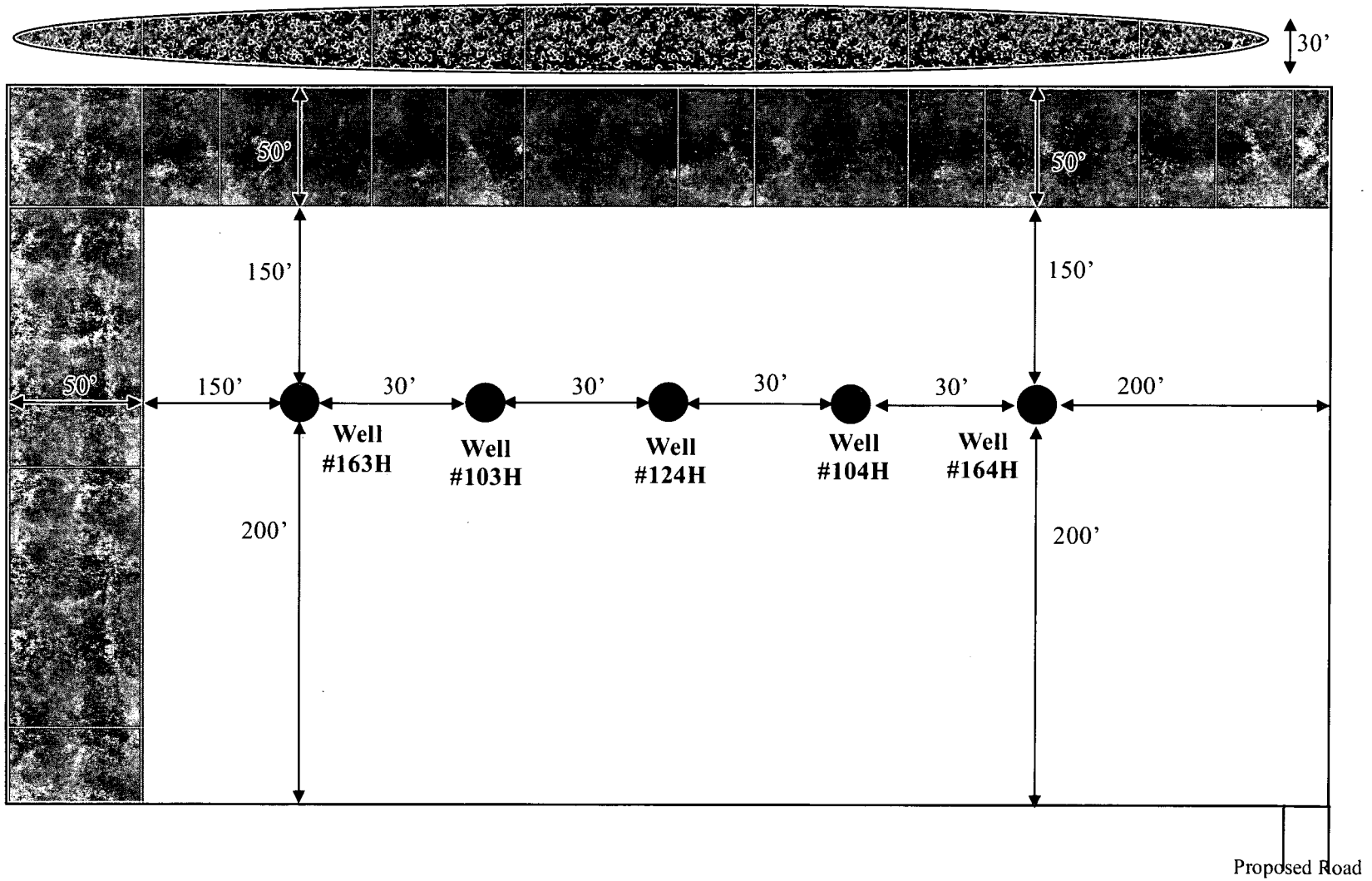
Ditch & Berm

Topsoil

Interim Reclamation Diagram

Corral Canyon 8-32 Federal #163H, 103H, 124H, 104H, 164H

V-Door East (All Wells)



N

LEGEND

Wellbore

Interim Reclamation

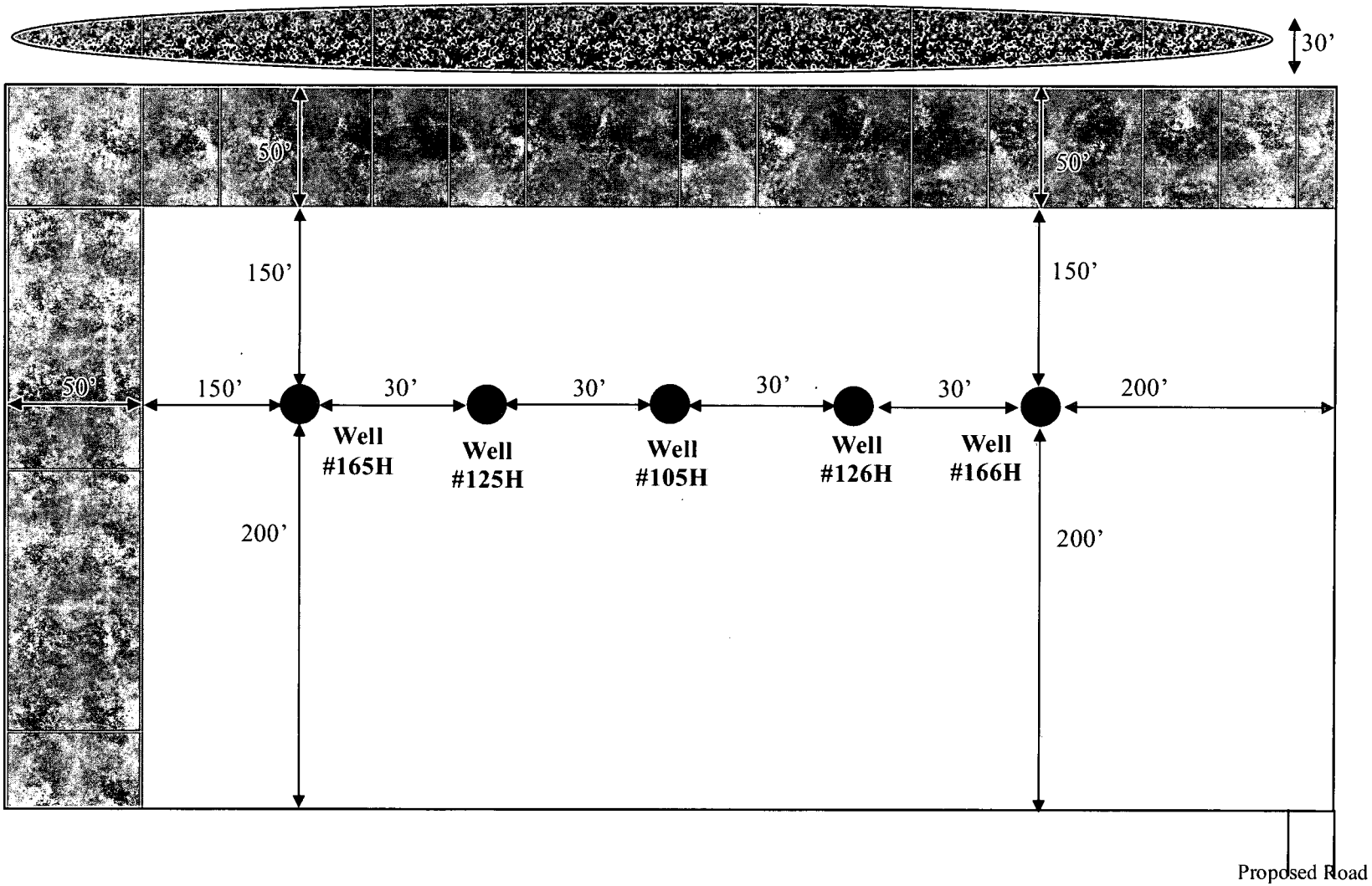
Ditch & Berm

Topsoil

Interim Reclamation Diagram

Corral Canyon 8-32 Federal #165H, 125H, 105H, 126H, 166H

V-Door East (All Wells)



N

LEGEND

Wellbore

Interim Reclamation

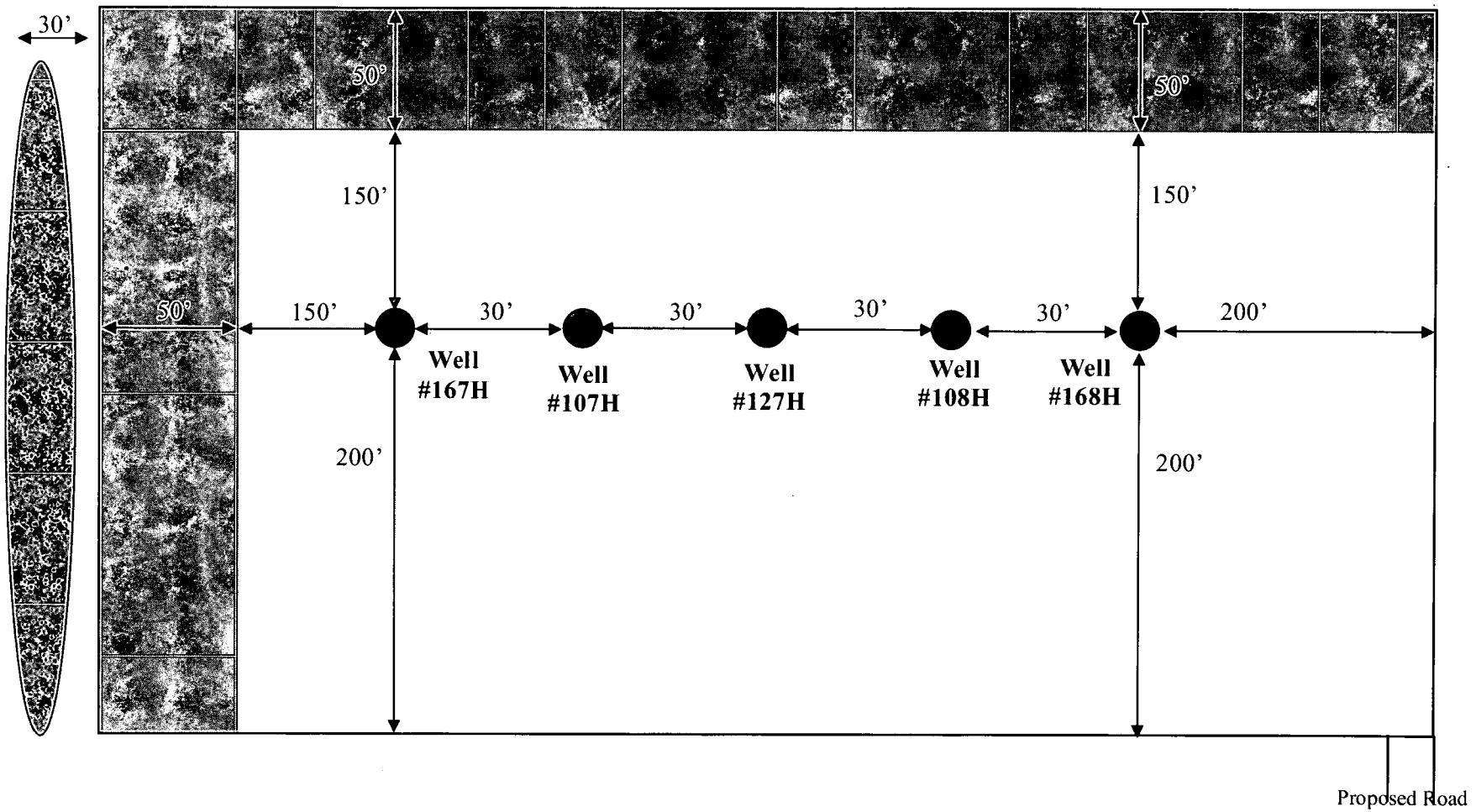
Ditch & Berm

Topsoil

Interim Reclamation Diagram

Corral Canyon 5-32 Federal #167H, 107H, 127H, 108H, 168H

V-Door West (All Wells)



N

LEGEND

Wellbore

Interim Reclamation

Ditch & Berm

Topsoil

Well Site Locations

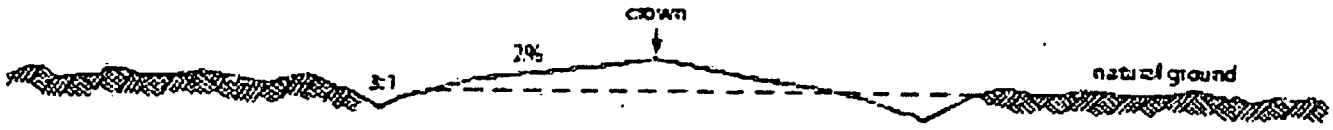
The results of the Corral Canyon 8-32 Federal & Corral Canyon 5-32 Federal Development Program will develop economic quantities of oil and gas in the 'Corral Canyon' development area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

Surface Use Plan

1. **Existing Roads**
    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. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, 'Topographical and Access Road Map.'
    B. There are existing access roads to the proposed Corral Canyon 8-32 Federal & Corral Canyon 5-32 Federal well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.

2. **New or Upgraded Access Roads**
    A. **New Roads**. There is a total of 3462.36' feet or .66 miles of planned and proposed and staked access roads in the Corral Canyon 8-32 & 5-32 Federal lease area. Total distance will vary based on elevation and terrain in the area.
    B. **Well Pads**. The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
    C. **Anticipated Traffic**. After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
    D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the Topographical and Access Road Map provided by FSC, Inc. unless otherwise approved by the BLM and applied for by XTO Energy, Incorporated.
    E. **Road Dimensions**. The maximum width of the driving surface of new roads will be 20 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

F. **Surface Material**. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
G. **Fence Cuts**: No.
H. **Fences**: No.
I. **Cattle Guards**: No.
J. **Turnouts**: No.
K. **Culverts**: No.
L. **Cuts and Fills**: Not significant.
M. **Topsoil**. 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.
N. **Maintenance**. 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.
O. **Drainage**. 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.

3. Location of Existing Wells

A. See attached 1-mile radius well map.

4. Ancillary Facilities

A. **Ancillary Facilities**. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to: campsites, airstrips or staging areas.

5. Location of Proposed Production Facilities

A. **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 400'x450' located in Section 8-26S-29E NMPM, Eddy County, New Mexico. The Southernmost facility is the Corral Canyon 8-32 Fed CTBS, is 500'x450', and is located in Section 8-26S-29E, NMPM, Eddy County, New Mexico. Centerpoint: 1650'x1821'FEL, 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.
B. **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.

C. **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.

D. **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.

E. **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 40'x40', 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 40'x40', 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.

F. **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.

G. **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 ½ times the capacity of the largest tank and away from cut or fill areas.

H. **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.

6. Location and Types of Water Supply

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

Water for drilling, completion and dust control will be purchased from the following company:

Texas Pacific Water Resources

Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO Energy, Incorporated. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico.

Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

7. Construction Activities

A. 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.

B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.

C. Anticipated Caliche Locations:

a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E

b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E

8. Methods for Handling Waste

- **Cuttings**. 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.
- **Drilling Fluids**. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- **Produced Fluids**. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- **Sewage**. 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.
- **Garbage and Other Waste Materials.** 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.
- **Debris**. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.
- **Hazardous Materials.**

i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).

ii. XTO Energy, Inc. and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any 'hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term

hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.

iii. No hazardous substances or wastes will be stored on the location after completion of the well.

iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.

v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

9. Well Site Layout

A. **Rig Plat Diagrams**: There are 4 anticipated multi-well pads in the Corral Canyon 8-32 and 5-32 Federal lease. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:

1. Pad 1 is a 5-well pad expected to be 520'x400'.
2. Pad 2 is a 5-well pad expected to be 520'x400''.
3. Pad 3 is a 5-well pad expected to be 520'x400'.
4. Pad 4 is a 5-well pad expected to be 520'x350'.

Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

B. **V-Door Orientation**: These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with Fernando Banos, BLM Natural Resource Specialist, present at on-site inspection.

1. Pad 1 has a V-Door Orientation: East
2. Pad 2 has a V-Door Orientation: East
3. Pad 3 has a V-Door Orientation: East
4. Pad 4 has a V-Door Orientation: West

C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.

D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

10. Plans for Surface Reclamation:

XTO Energy, Incorporated requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, XTO Energy, Inc. will coordinate interim reclamation with the appropriate BLM personnel or use the following plan:

Non-Commercial Well (Not Productive), Interim & Final Reclamation:

Definition: Reclamation includes disturbed areas where the original landform and a natural vegetative community will be restored and it is anticipated the site will not be disturbed for future development.

Reclamation Standards:

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plats attached).

All equipment and trash will be removed, and the surfacing material will be removed from the well pad and road and transported to the original caliche pit or used to maintain other roads. The location will then be ripped and seeded.

The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded

A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

The site will be free of State-or County-listed noxious weeds, oil field debris and equipment, and contaminated soil. Invasive and non-native weeds will be controlled.

Seeding:

- Seedbed Preparation: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.
- If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used.
- If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

11. Surface Ownership

A. Within the Corral Canyon 8-32 Federal & Corral Canyon 5-32 Federal project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information

Surveying

- **Well Sites**. Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by FSC, Inc. a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Fernando Banos, Bureau of Land Management Natural Resource Specialist in attendance.

- **Cultural Resources – Archaeology**: Payment into the Permian Basin Programmatic Agreement (PBPA) for all disturbance associated with this application for permit to drill will be made upon submission to the Bureau of Land Management.

- **Dwellings and Structures**. There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- **Environmental Setting**. Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

- **Traffic**. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. 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 the access road route.

- **Water**. There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: UTB0000138

Operator's Representatives:

The XTO Energy, Inc. representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Jimie Scott
Contract Construction Lead
XTO Energy, Incorporated
500 W. Illinois St., Suite 100
Midland, Texas 79701
432-488-9955
james_scott@xtoenergy.com

AFMSS

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

PWD Data Report

11/08/2019

APD ID: 10400045663 **Submission Date:** 08/09/2019

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD discharge volume (bbl/day):

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL **Well Number:** 122H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report

11/08/2019

APD ID: 10400045663

Submission Date: 08/09/2019

Operator Name: XTO ENERGY INCORPORATED

Well Name: CORRAL CANYON 8-32 FEDERAL

Well Number: 122H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Bond Information

Federal/Indian APD: FED

BLM Bond number: UTB000138

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: