UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

If Indian, Allotee or Tribe Name

5. Lease Serial No.

APPLICATION	EΛD	DEDMIT	TO DOUL	ΛD	DEENTED
APPLICATION	FUH	PERMII	TO DRILL	UK	REENIER

ER			7. If Unit or CA Agree	ement, Name and No.			
Sing	le Zone 🖊 Multip	ole Zone	8. Lease Name and W ROSS DRAW 3031				
	5380		9. API Well No. 30-015	- 45121			
•	*		10. Field and Pool, or Exploratory PURPLE-SAGE WOLFCAMP GAS				
LONG -103.	913369	26	11. Sec., T. R. M. or Blk. and Survey or Area SEC 31 / T26S / R30E / NMP				
			12. County or Parish EDDY	13. State NM			
16. No. of acr 969.15	es in lease	17. Spacin 640	cing Unit dedicated to this well				
	•		UTB000138				
1		rt*	23. Estimated duration 90 days				
24. Attach	ments						
e Oil and Gas O	rder No.1, must be a	ttached to th	is form:				
Lands, the	Item 20 above). 5. Operator certific	cation	·	· ·			
1 .	•• •	n: (432)62	0-6714	Date 01/02/2018			
	• • •	234-5959		Date 07/13/2018			
Office CARLS	SRAD						
	3b. Phone No. ((432)620-67 y State requirement / LONG -103.9 32.027304 / L 16. No. of acr 969.15 19. Proposed I 10660 feet / 22. Approxima 07/31/2018 24. Attach re Oil and Gas O Lands, the Name (Stepha Name (Cody L Office	3b. Phone No. (include area code) (432)620-6700 y State requirements.*) / LONG -103.913369 32.027304 / LONG -103.91342 16. No. of acres in lease 969.15 19. Proposed Depth 10660 feet / 17492 feet 22. Approximate date work will sta 07/31/2018 24. Attachments re Oil and Gas Order No.1, must be a lem 20 above). Lands, the 4. Bond to cover to litem 20 above). 5. Operator certifice. Such other site BLM. Name (Printed/Typed) Stephanie Rabadue / Pt Name (Printed/Typed) Cody Layton / Ph: (575): Office	Single Zone	8. Lease Name and WROSS DRAW 3031 9. API Well No. 30 - 015 31 - Sec., T. R. M. or Bit SEC 31 / T26S / R3 31 - County or Parish EDDY 4. Spacing Unit dedicated to this we detect to this			

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.

(Continued on page 2)

*(Instructions on page 2)



RECEIVED

JUL 17 2018

DISTRICT II-ARTESIA O.C.D.

RW 7-19-18.

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 1: 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 well, 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 directionally 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.

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 well 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 will 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 collects this information to allow 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3) (Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: LOT 5 / 170 FSL / 430 FEL / TWSP: 26S / RANGE: 30E / SECTION: 31 / LAT: 32.000587 / LONG: -103.913369 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 5 / 770 FSL / 430 FEL / TWSP: 26S / RANGE: 30E / SECTION: 31 / LAT: 32.002236 / LONG: -103.913372 (TVD: 10660 feet, MD: 11100 feet)

BHL: NESE / 2440 FSL / 430 FEL / TWSP: 26S / RANGE: 30E / SECTION: 19 / LAT: 32.027304 / LONG: -103.913426 (TVD: 10660 feet, MD: 17492 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934 Email: pperez@blm.gov

(Form 3160-3, page 3)

Review and Appeal Rights

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

(Form 3160-3, page 4)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy

LEASE NO.: NMNM-017225A

WELL NAME & NO.: Ross Draw 3031 Federal 6H SURFACE HOLE FOOTAGE: 0170' FSL & 0430' FEL

BOTTOM HOLE FOOTAGE | 2440' FSL & 0430' FEL Sec. 19, T. 26 S., R 30 E.

LOCATION: Section 31, T. 26 S., R 30 E., NMPM

COUNTY: | County, New Mexico

Operator to submit sundry 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.

A. DRILLING OPERATIONS 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. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. If Hydrogen Sulfide is encountered, report measured amounts and formations to the BLM.
- 2. 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. 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 is located, this does not include the dog house or stairway area.
- 4. 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.

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

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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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst

Possibility of water flows in the Salado and Castile.

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

Abnormal pressures maybe encountered when penetrating the 3rd Bone Spring Sandstone and all subsequent formations.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH. IF THE PRIMARY CEMENT JOB ON THE SURFACE CASING DOES NOT CIRCULATE, THEN THE NEXT TWO CASING STRINGS MUST BE CEMENTED TO SURFACE.

- 1. The 13-3/8 inch surface casing shall be set at approximately 300 feet (a minimum of 25 feet 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 is to include the lead cement slurry.
 - 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.

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Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

2.	The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
	Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
Tes pos pre	rmation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.ist to be done as a mud equivalency test using the mud weight necessary for the re pressure of the formation below the shoe (not the mud weight required to event dissolving the salt formation) and the mud weight for the bottom of the le. Report results to BLM office.
Ce	ntralizers required through the curve and a minimum of one every other joint.
3.	The minimum required fill of cement behind the 7 inch production casing is:
	☐ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
Te	rmation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. st to be done as a mud equivalency test using the mud weight necessary for the re pressure of the formation below the shoe and the mud weight for the bottom of hole. Report results to BLM office.
4.	The minimum required fill of cement behind the 4-1/2 inch production Liner is:
	☐ Cement as proposed by operator. Operator shall provide method of verification.
5.	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.

C. 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 53.

- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi. 10M 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.

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

- 4. 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.

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- 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.

D. **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.

E. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

F. 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 070518

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO ENERGY INCORPORATED

LEASE NO.: | NMNM017225A

WELL NAME & NO.: 6H –ROSS DRAW 3031 FEDERAL

SURFACE HOLE FOOTAGE: 170'/S & 430'/E BOTTOM HOLE FOOTAGE 2440'/S & 430'/E

LOCATION: Section. 31.,T26S., R.30E., NMP COUNTY: EDDY County, New Mexico

TABLE OF CONTENTS

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

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cave/Karst
Hydrology
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

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V. SPECIAL REQUIREMENT(S)

Cave/Karst Surface Mitigation

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

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

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

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing

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electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

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

Cave/Karst Subsurface Mitigation

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

Rotary Drilling with Fresh Water:

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

Directional Drilling:

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

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

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

POWERLINES:

• Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.

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- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

Hydrology

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

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

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

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VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

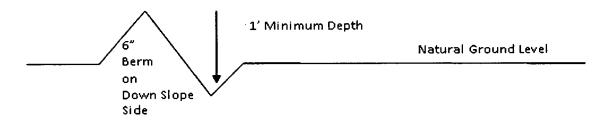
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Page 8 of 15

Construction Steps

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

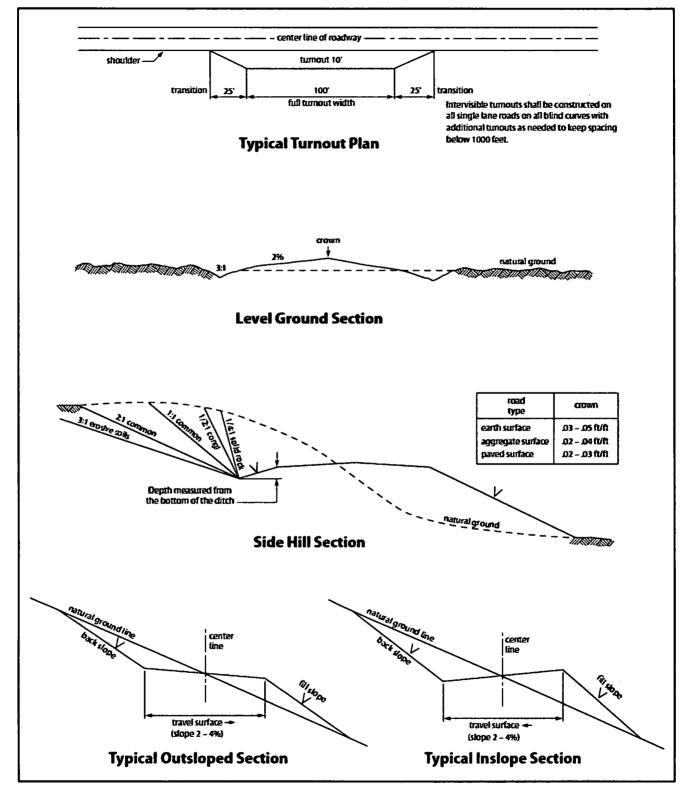


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

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Containment Structures

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

Painting Requirement

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

B. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of

Page 11 of 15

the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

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

operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory

Page 13 of 15

revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

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

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

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Seed Mixture 1 for Loamy Sites

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

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

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

Species		11 /
		<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5	
Sand dropseed (Sporobolus cryptandrus)	1.0	
Sideoats grama (Bouteloua curtipendula)	5.0	
Plains bristlegrass (Setaria macrostachya)	2.0	

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed



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

Correction Data Report 07/16/2018

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: 01/01/2018

Title: Regulatory Compliance Analyst

Street Address: 500 W. Illinois St. Ste 100

City: Midland

State: TX

Zip: 79701

Phone: (432)620-6714

Email address: stephanie_rabadue@xtoenergy.com

Field Representative

Representative Name: Stephanie Rabadue

Street Address: 500 W. Illinois St Ste 100

City: Midland

State: TX

Zip: 79701

Phone: (432)620-6714

Email address: stephanie_rabadue@xtoenergy.com



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

Application Data Report 07/16/2018

APD ID: 10400025938

Well Name: ROSS DRAW 3031 FEDERAL

Submission Date: 01/02/2018

Highlighted data reflects the most

Operator Name: XTO ENERGY INCORPORATED

Well Number: 6H

recent changes **Show Final Text**

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

10400025938 APD ID:

Tie to previous NOS?

Submission Date: 01/02/2018

BLM Office: CARLSBAD

User: Stephanie Rabadue

Title: Regulatory Compliance Analyst

Federal/Indian APD: FED

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

Lease number: NMNM017225A Surface access agreement in place? Lease Acres: 969.15

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:

Ross_Fed_6H_Op_Rights_20180102060048.pdf

Operator Info

Operator Organization Name: XTO ENERGY INCORPORATED

Operator Address: 810 Houston St.

Operator PO Box:

Zip: 76102

Operator City: Ft. Worth

State: TX

Operator Phone: (432)620-6700

Operator Internet Address: Richard_redus@xtoenergy.com

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

Well API Number:

Pool Name:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE-SAGE **WOLFCAMP GAS**

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: SINGLE WELL Multiple Well Pad Name: Number:

Well Class: HORIZONTAL Number of Legs:

Well Work Type: Drill
Well Type: OIL WELL

Describe Well Type:

Well sub-Type: CONFIRMATION

Describe sub-type:

Distance to town: Distance to nearest well: 0 FT Distance to lease line: 170 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: Ross_Fed_6H_C102_20180102053738.pdf

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number:

	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	ΔVT
SHL	170	FSL	430	FEL	26S	30E	31	Lot	32.00058	-	EDD	NEW	NEW	F	NMNM	300	0	0
Leg								5	7	103.9133	Υ	l	MEXI		017225	1		
#1			ŀ					L		69		СО	CO		A			
KOP	170	FSL	430	FEL	26S	30E	31	Lot	32.00058	-	EDD	NEW	NEW	F	NMNM	-	101	101
Leg								5	7	103.9133	Υ		MEXI		017225	709	00	00
#1			:							69		CO	CO		Α	9		
PPP	770	FSL	430	FEL	26S	30E	31	Lot	32.00223	-	EDD	NEW	NEW	F	NMNM	-	111	106
Leg								5	6	103.9133	Υ		MEXI		017225	765	00	60
#1			l							72		CO	co		Α	9		

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

	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	DVT
EXIT Leg #1	231 0	FSL	430	FEL.	26S	30E	19	Aliquot NESE	32.02694 7	- 103.9134 25	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 121477	- 765 9	173 00	106 60
BHL Leg #1	244 0	FSL	430	FEL	26S	30E	19	Aliquot NESE	32.02730 4	- 103.9134 26	EDD Y	MEXI	NEW MEXI CO	F	NMNM 121477	- 765 9	174 92	106 60



Stephanie Rabadue Regulatory Analyst XTO Energy Inc. 500 W. Illinois St Ste 100 Midland, Texas 79701 (432) 620-6714 stephanie_rabadue@xtoenergy.com

October 10, 2017

Bureau of Land Management Carlsbad Field Office 620 E. Greene Street Carlsbad, NM 88220

RE: Operating Agreement/Rights for Ross Draw 3031 Federal #6H

To Whom It May Concern:

This is to hereby certify that XTO Energy, Inc. has operating rights over leases: NMNM017225A and NMNM121477 through acreage trades, acquisitions and unitization.

Sincerely,

Stephanie Rabadue Regulatory Analyst

duplani Rabania

XTO Energy, Inc

-	rator Nar) Energ					1 -	erty N s Dra			eder	al			Well Number 6H		
(ick (Off Point	(KOP)														
UL	Section	Township	Range	Lot	Feet		From N		Feet			ı E/W	County			
31 26S 30E 5 170 South 430 East Eddy										Eddy						
	 200587	,			-103.		369						83			
					ı								l			
irst 1	Take Poir	it (FTP)														
UL	Section	Township	Range	Lot	Feet		From N		Feet			E/W	County			
Latitu	31	26S	30E	5	770 Longitu		South		430		Eas	t	NAD	Eddy		
	002236	,			-103.		372						83			
UL	Section 19	Township 26S	Range 30E	Lot	Feet 231	Sou	n N/S I th	Feet 430		From East	E/W	Count	-			
Latitu		1	1	1	Longitu		405					NAD				
3Z.(02694				-103	.9134	425					83				
s this	s well the	edefining v	well for th	e Hori:	zontal Sp	pacing	; Unit?	[Y]						
s this	s well an	infill well?														
	ll is yes p ng Unit.	lease prov	ide API if	availat	ole, Opei	rator N	Name .	and v	well n	umber	for (Definii	ng well fo	r Horizontal		
API#]													
Ope	rator Na	me:				Prop	erty N	lame	:					Well Number		

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

10000psi. When nippling up on the 7", the BOP will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

Ross_Fed_6H_10MCM_20180612153932.pdf

BOP Diagram Attachment:

Ross_Fed_6H_10MBOP_20180612153945.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	820	0	820			820	H-40	48	STC	1.97	6.92	DRY	8.18	DRY	8.18
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3200	0	3200			3200	J-55	36	LTC	1.19	2.61	DRY	3.93	DRY	3.93
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	10900	0	10900			10900	P- 110	29	LTC	1.62	1.18	DRY	2.52	DRY	2.52
4	LINER	6.12 5	4.5	NEW	API	N	10050	17492	10050	10660			7442	P- 110	13.5	BUTT	1.43	1.31	DRY	4.2	DRY	4.2

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Ross_Fed_6H_Csg_20180102054045.pdf

/ell Number: 6H

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

										···	
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	820	236	1.88	12.9	443.6 8	100	HalCem-C	+ 2% CaCL
SURFACE	Tail				522	1.33	14.8	694.2 6	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	3200	900	1.88	12.9	1692	100	EconoCem-HLC	3 lbm/sk Kol-Seal + 0.25 lbm D-air 5000
INTERMEDIATE	Tail				235	1.33	14.8	312.5 5	100	HalCem-C	none
PRODUCTION	Lead		0	1090 0	525	2.81	11	1475. 25	50	NeoCem	+ 2 lbm/sk Kol-Seal + 0.3 lbm/sk CFR-3
PRODUCTION	Tail				235	1.4	14.5	329	30	VersaCem-H	+ 3 lbm/sk Kol-Seal + 0.4% Halad 344 + 0.3% CFR-3 + 0.3% Super CBL + 0.25 lbm/sk D-air 5000
LINER	Lead		1005 0	1749 2	935	1.4	14.5	1309	20	VersaCem PBHS2	+ 0.25 lbm/sk D-air 5000 + 0.5% Halad 344 + 0.3% CFR-3

Section 5 - Circulating Medium

Yud System Type: Closed

Nill 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 and 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 /olume.

Circulating Medium Table

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	820	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 hours to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
820	3200	OTHER : Brine/Gel Sweeps	9.8	10.2							A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
3200	1090	OTHER : Fresh Water/Cut Brine	8.6	9.5							A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.
1090	1749 2	OIL-BASED MUD	9.5	13.5							A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Solids control equipment will be used to operate as a closed loop system.

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

Section 6 - Test, Logging, Coring

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

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

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

CBL, CNL, DS, DLL, GR, MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7451

Anticipated Surface Pressure: 5105.8

Anticipated Bottom Hole Temperature(F): 180

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:

Ross_Fed_6H_H2S_Dia_20180102054121.pdf Ross_Fed_6H_H2S_Plan_20180102054130.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Ross_Fed_6H_DD_20180102054144.pdf

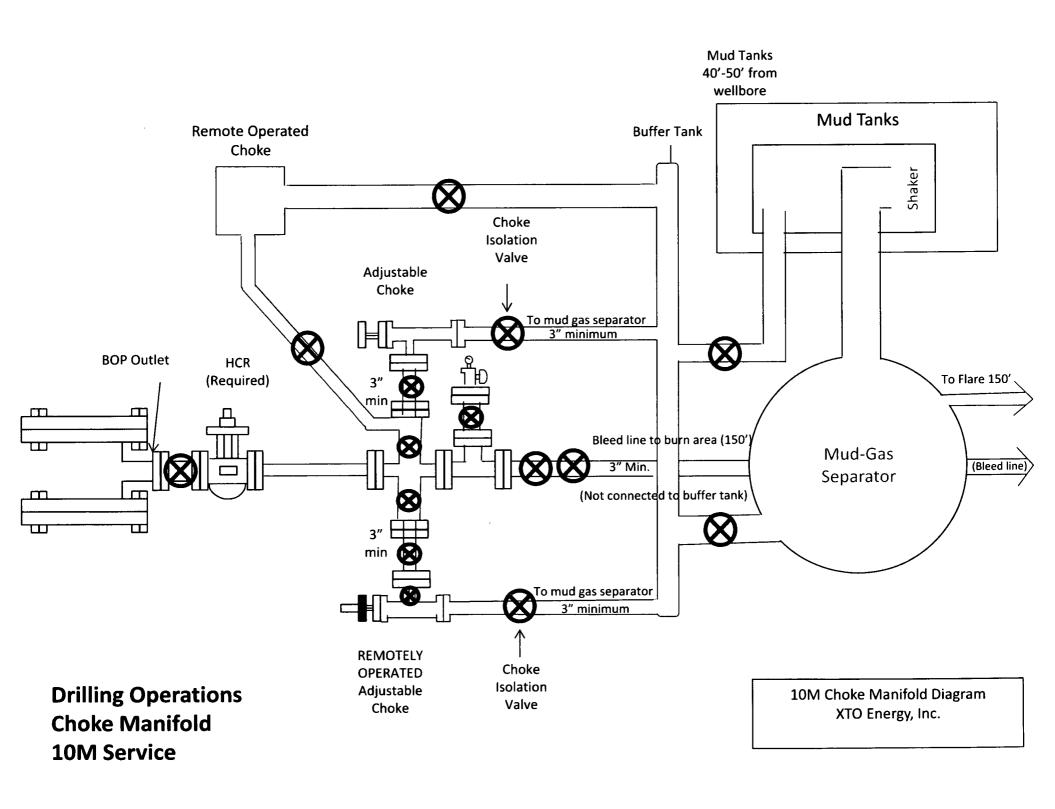
Other proposed operations facets description:

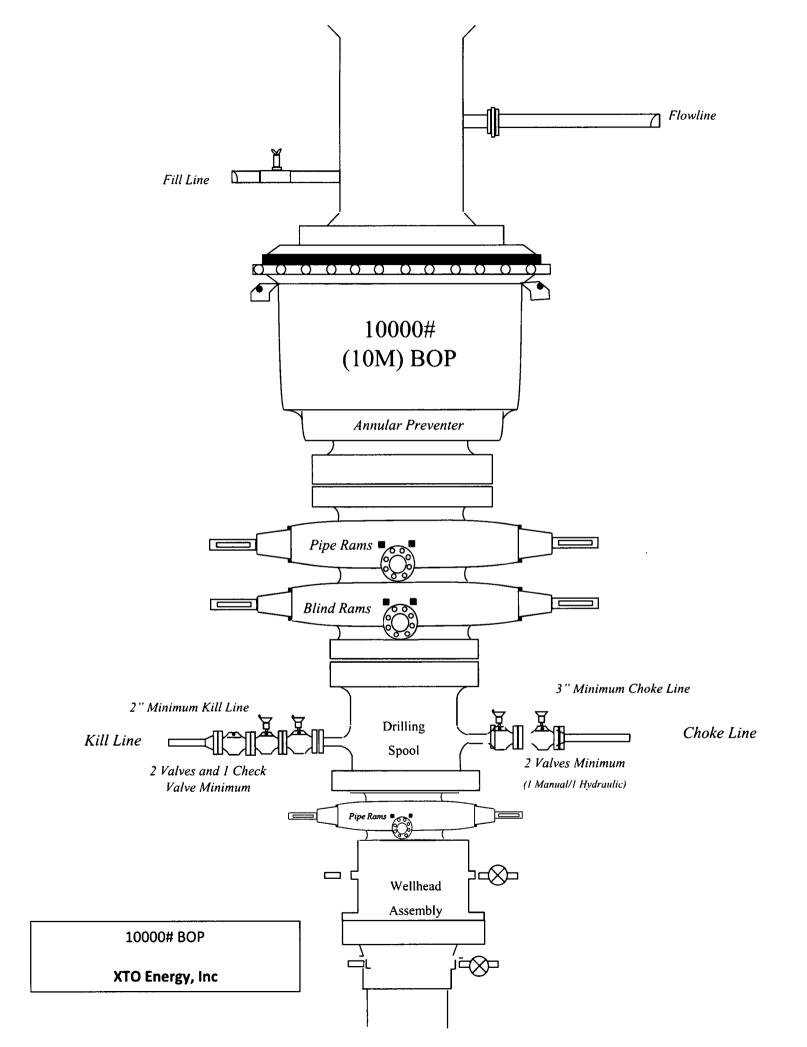
Other proposed operations facets attachment:

Ross Fed 6H GCP 20180102054150.pdf

Other Variance attachment:

Ross Fed 6H FH 20180102054156.pdf





XTO Energy Inc. Ross Draw 3031 Fed 6H Projected TD: 17492' MD / 10660' TVD Eddy County, NM

1. CASING PROGRAM:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF	SF Collapse	SF Tension
							Burst		
17-1/2"	0' - 820'	13-3/8"	48#	STC	H-40	New	6.92	1.97	8.18
12-1/4"	0' - 3200'	9-5/8"	36#	LTC	J-55	New	2.61	1.19	3.93
8-3/4"	0' - 10900'	7"	29#	LTC	P-110	New	1.18	1.62	2.52
6-1/8"	10050' – 17492'	4-1/2"	13.5#	BTC	P-110	New	1.31	1.43	4.20

WELLHEAD:

A. Starting Head: 13-3/8" SOW bottom x 13-5/8" 5,000 psi top flange

XTO Energy Inc. Ross Draw 3031 Fed 6H Projected TD: 17492' MD / 10660' TVD Eddy County, NM

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Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
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12-1/4"	0' - 3200'	9-5/8"	36#	LTC	J-55	New	2.61	1.19	3.93
8-3/4"	0' - 10900'	7"	29#	LTC	P-110	New	1.18	1.62	2.52
6-1/8"	10050' – 17492'	4-1/2"	13.5#	ВТС	P-110	New	1.31	1.43	4.20

WELLHEAD:

A. Starting Head: 13-3/8" SOW bottom x 13-5/8" 5,000 psi top flange

XTO Energy Inc.
Ross Draw 3031 Fed 6H
Projected TD: 17492' MD / 10660' TVD
Eddy County, NM

1. CASING PROGRAM:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
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12-1/4"	0' – 3200'	9-5/8"	36#	LTC	J-55	New	2.61	1.19	3.93
8-3/4"	0' - 10900'	7"	29#	LTC	P-110	New	1.18	1.62	2.52
6-1/8"	10050' - 17492'	4-1/2"	13.5#	BTC	P-110	New	1.31	1.43	4.20

WELLHEAD:

A. Starting Head: 13-3/8" SOW bottom x 13-5/8" 5,000 psi top flange

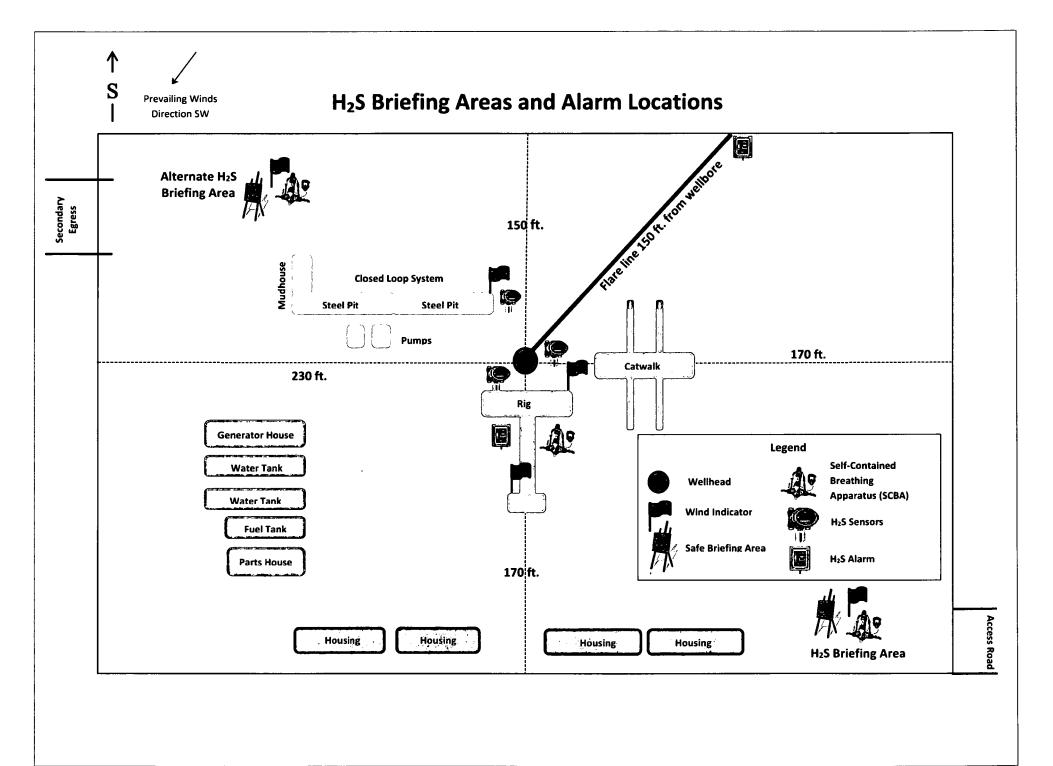
XTO Energy Inc.
Ross Draw 3031 Fed 6H
Projected TD: 17492' MD / 10660' TVD
Eddy County, NM

1. CASING PROGRAM:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 820'	13-3/8"	48#	STC	H-40	New	6.92	1.97	8.18
12-1/4"	0' - 3200'	9-5/8"	36#	LTC	J-55	New	2.61	1.19	3.93
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6-1/8"	10050' – 17492'	4-1/2"	13.5#	ВТС	P-110	New	1.31	1.43	4.20

WELLHEAD:

A. Starting Head: 13-3/8" SOW bottom x 13-5/8" 5,000 psi top flange





HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

O I I I I I I I I I I I I I I I I I I I	00 01 1120 01				
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

XTO Energy, Inc. 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
Carisbau, ivivi	313-001-1327
XTO Energy, Inc. 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



Company: XTO Energy Site: Ross Draw 3031 Federal

Well: 6H

Project: Eddy County, New Mexico (NAD 27) Rig: 25' KB





Azimuths to Grid North True North: -0.22 Magnetic North: 7.00°

Magnetic Field Strength: 47894.5snT Dip Angle: 59.80° Date: 11/22/2016 Model: BGGM2016

ANNOTATIONS +E/-W 0.00 +N/-S MD Azi 0.00 Departure Annotation 0.00 575.46 7078.52 0.00 KOP, 10.00°/100' Build 575.46 Begin 90.25° Lateral 7078.52 PBHL 10087.04 10989.54 0.00 0.00 90.25 90.25 10660.00 10631.62 575.45 7078.40 -3.39 -41.70 359.66 17492.67 359.66

US State Plane 1927 (Exact solution) New Mexico East 3001

Created By: DLD Date: 16:29, November 22 2016 Plan: Design #1

Rustler

Castile

1000

2000

3000

4000

5000

6000

7000

8000

9000

10000

11000

-2000

Target Top

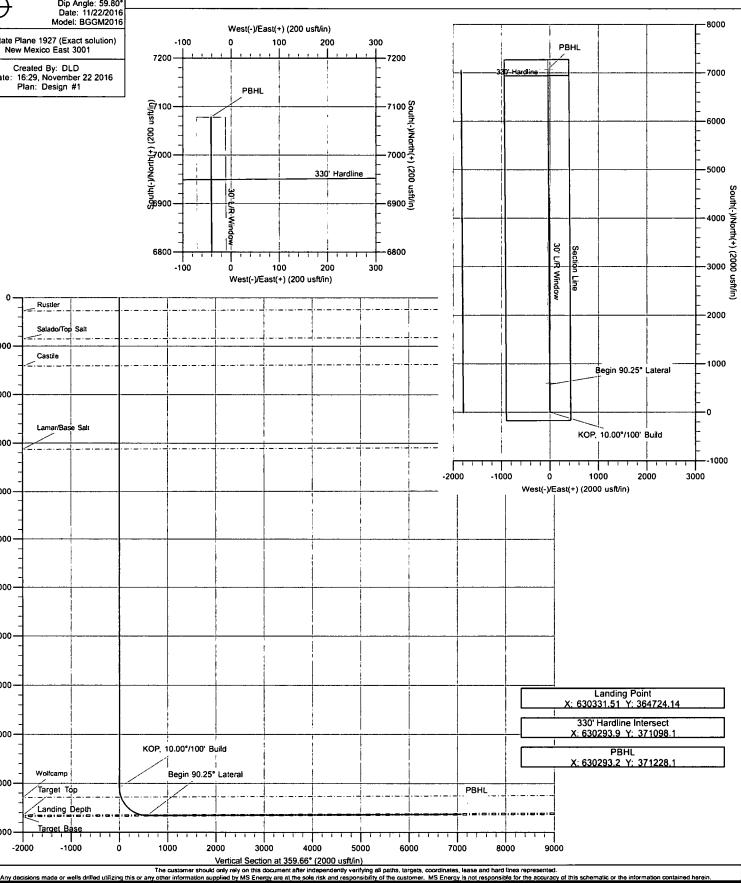
Landing Depth

-1000

True Vertical Depth (2000 usff/in)

Salado/Top Salt

Lamar/Base Salt





XTO Energy

Eddy County, New Mexico (NAD 27) Ross Draw 3031 Federal 6H

Wellbore #1

Plan: Design #1

Standard Planning Report

22 November, 2016





Planning Report

TVD Reference:

MD Reference:

North Reference:



Database: Company: Conroe Server

XTO Energy

Project:

Eddy County, New Mexico (NAD 27)

Site:

Ross Draw 3031 Federal

Well: Wellbore:

Project

6H

Design:

Wellbore #1

Design #1

Eddy County, New Mexico (NAD 27)

Map System:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Well 6H

Grid

Well @ 3020.00usft (25' KB)

Well @ 3020.00usft (25' KB)

Minimum Curvature

Well

6H

+N/-S

+E/-W

Well Position

364,148.70 usft 630,334.90 usft Northing: Easting:

364,148.70 usft 630,334.90 usft

Local Co-ordinate Reference:

Survey Calculation Method:

Latitude:

32° 0' 1.662 N

Position Uncertainty

0.00 usft

Longitude:

103° 54' 46.406 W

Wellhead Elevation:

Ground Level:

2,995.00 usft

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

BGGM2016

11/22/2016

7.23

59.80

47.895

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

0.00

+N/-S (usft) 0.00

+E/-W (usft) 0.00

Direction

(°) 359.66

Plan Survey Tool Program

Depth From (usft)

Depth To

Survey (Wellbore)

Date 11/22/2016

Tool Name

Remarks

0.00

(usft) 17,492.67 Design #1 (Wellbore #1)

MWD

OWSG MWD - Standard

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	
10,087.04	0.00	0.00	10,087.04	0.00	0.00	0.00	0.00	0.00	0.00	
10,989.54	90.25	359.66	10,660.00	575.45	-3.39	10.00	10.00	0.00	359.66	
17.492.67	90.25	359.66	10.631.62	7,078.40	-41.70	0.00	0.00	0.00	0.00 P	BHL v1 - Ross Dra



Planning Report



Database: Company: Conroe Server

XTO Energy

Project: Site: Eddy County, New Mexico (NAD 27)

Ross Draw 3031 Federal

Well:

6H

Wellbore: Design:

Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well 6H

Well @ 3020.00usft (25' KB) Well @ 3020.00usft (25' KB)

Grid

Minimum Curvature

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
266.00	0.00	0.00	266.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	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
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
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
849.00	0.00	0.00	849.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado/To:		0.00	049.00	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
					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
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
1,402.00	0.00	0.00	1,402.00	0.00	0.00	0.00	0.00	0.00	0.00
Castile									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
•			•						
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	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
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
3,120.00	0.00	0.00	3,120.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar/Bas	se Salt								
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
3,800.00	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
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



Planning Report



Database: Conroe Server Company: XTO Energy

Project: Eddy County, New Mexico (NAD 27)

Site: Ross Draw 3031 Federal

Well: 6H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 6H

 TVD Reference:
 Well @ 3020.00usft (25' KB)

 MD Reference:
 Well @ 3020.00usft (25' KB)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
5,500.00	0.00	0.00	5,500.00	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	0.00 0.00	5,700.00 5,800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
5,800.00 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
6,600.00	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	0.00 0.00	6,900.00 7,000.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
7,000.00									
7,100.00	0.00	0.00	7,100.00 7,200.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
7,200.00 7,300.00	0.00 0.00	0.00 0.00	7,200.00	0.00 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
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00 8,300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
8,300.00 8,400.00	0.00 0.00	0.00 0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
		0.00		0.00	0.00	0.00	0.00	0.00	0.00
8,600.00 8,700.00	0.00 0.00	0.00	8,600.00 8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00 9,900.00	0.00 0.00	0.00 0.00	9,800.00 9,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
3,300.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report



Database: Company: Conroe Server XTO Energy

Project: Eddy County, New Mexico (NAD 27)

Wellbore #1

Design #1

Site:

Ross Draw 3031 Federal

Well: Wellbore: 6H

Wellbore: Design: Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well 6H

Well @ 3020.00usft (25' KB) Well @ 3020.00usft (25' KB)

Grid

Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,087.04	0.00	0.00	10.087.04	0.00	0.00	0.00	0.00	0.00	0.00
•)°/100' Build		,						
10,100.00	1.30	359.66	10,100.00	0.15	0.00	0.15	10.00	10.00	0.00
10,100.00	11.30	359.66	10,199.27	11.10	-0.07	11.10	10.00	10.00	0.00
10,289.00	20.20	359.66	10,284.85	35.23	-0.21	35.23	10.00	10.00	0.00
•		339.00	10,204.03	33.23	-0.21	33.23	10.00	10.00	0.00
Wolfcamp 10,300.00	21.30	359.66	10,295.13	39.12	-0.23	39.12	10.00	10.00	0.00
10,400.00	31.30	359.66	10,384.67	83.37	-0.49	83.37	10.00	10.00	0.00
10,500.00	41.30	359.66	10.465.16	142.48	-0.84	142.49	10.00	10.00	0.00
10,600.00	51.30	359.66	10,534.17	214.68	-1.26	214.69	10.00	10.00	0.00
10,700.00	61.30	359.66	10,589.59	297.77	-1.75	297.77	10.00	10.00	0.00
10,800.00	71.30	359.66	10,629.74	389.21	-2.29	389.22	10.00	10.00	0.00
10,839.61	75.26	359.66	10,641.14	427.14	-2.52	427.15	10.00	10.00	0.00
Target Top									
10.900.00	81.30	359.66	10,653.40	486.24	-2.86	486.25	10.00	10.00	0.00
10,935.94	84.89	359.66	10,657.72	521.91	-3.07	521.92	10.00	10.00	0.00
' - '		333.00	10,007.72	521.51	3.07	021.02	10.00	10.00	0.00
Landing D 10,989.54	90.25	359.66	10,660.00	575.45	-3.39	575.46	10.00	10.00	0.00
Begin 90.2 11,000.00	25° Lateral 90.25	359.66	10,659.95	585.90	-3.45	585.91	0.00	0.00	0.00
11,100.00	90.25	359.66	10.659.51	685.90	-4.04	685.91	0.00	0.00	0.00
				785.90	-4.63	785.91	0.00	0.00	0.00
11,200.00	90.25	359.66	10,659.08 10,658.64				0.00	0.00	0.00
11,300.00	90.25	359.66		885.90	-5.22	885.91	0.00	0.00	0.00
11,400.00 11,500.00	90.25 90.25	359.66 359.66	10,658.20 10,657.77	985.89 1,085.89	-5.81 -6.40	985.91 1,085.91	0.00	0.00	0.00
11,600.00	90.25	359.66	10,657.33	1,185.89	-6.99	1,185.91	0.00	0.00	0.00
11,700.00	90.25	359.66	10,656.90	1,285.89	-7.58	1,285.91	0.00	0.00	0.00
11,800.00	90.25	359.66	10,656.46	1,385.88	-8.16	1,385.91	0.00	0.00	0.00
11,900.00	90.25	359.66	10,656.02	1,485.88	-8.75	1,485.91	0.00	0.00	0.00
12,000.00	90.25	359.66	10,655.59	1,585.88	-9.34	1,585.91	0.00	0.00	0.00
12,100.00	90.25	359.66	10,655.15	1,685.88	-9.93	1,685.90	0.00	0.00	0.00
12,200.00	90.25	359.66	10,654.71	1,785.87	-10.52	1,785.90	0.00	0.00	0.00
12,300.00	90.25	359.66	10.654.28	1,885.87	-11.11	1,885.90	0.00	0.00	0.00
12,400.00	90.25	359.66	10,653.84	1,985.87	-11.70	1,985.90	0.00	0.00	0.00
12,500.00	90.25	359.66	10,653.40	2,085.86	-12.29	2,085.90	0.00	0.00	0.00
12,600.00	90.25	359.66	10,652.97	2,185.86	-12.88	2,185.90	0.00	0.00	0.00
12,700.00	90.25	359.66	10,652.53	2,285.86	-13.47	2,285.90	0.00	0.00	0.00
12,800.00	90.25	359.66	10,652.10	2,385.86	-14.06	2,385.90	0.00	0.00	0.00
12,900.00	90.25	359.66	10,651.66	2,485.85	-14.64	2,485.90	0.00	0.00	0.00
13,000.00	90.25	359.66	10,651.22	2,585.85	-15.23	2,585.90	0.00	0.00	0.00
13,100.00	90.25	359.66	10,650.79	2,685.85	-15.82	2,685.89	0.00	0.00	0.00
13,200.00	90.25	359.66	10,650.35	2,785.85	-16.41	2,785.89	0.00	0.00	0.00
13,300.00	90.25	359.66	10,649.91	2,885.84	-17.00	2,885.89	0.00	0.00	0.00
13,400.00	90.25	359.66	10,649.48	2,985.84	-17.59	2,985.89	0.00	0.00	0.00
13,500.00	90.25	359.66	10,649.04	3,085.84	-18.18	3,085.89	0.00	0.00	0.00
13,600.00	90.25	359.66	10,648.61	3,185.83	-18.77	3,185.89	0.00	0.00	0.00
13,700.00	90.25	359.66	10,648.17	3,285.83	-19.36	3,285.89	0.00	0.00	0.00
13,800.00	90.25	359.66	10,647.73	3,385.83	-19.95	3,385.89	0.00	0.00	0.00
13,900.00	90.25	359.66	10,647.30	3,485.83	-20.54	3,485.89	0.00	0.00	0.00
14,000.00	90.25	359.66	10,646.86	3,585.82	-21.12	3,585.89	0.00	0.00	0.00
	90.25	359.66	10,646.42	3,685.82	-21.71	3,685.89	0.00	0.00	0.00
14,100.00	9U.Z0	ວລສ.ພຕ	10.040.42	J.003.0Z	-21./1	3,003.03	0.00	0.00	0.00



Planning Report



Database: Company: Conroe Server

XTO Energy

Project: Site: Eddy County, New Mexico (NAD 27)

Ross Draw 3031 Federal

Site: Well:

6Н

Wellbore: Design: Wellbore #1

Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well 6H

Well @ 3020.00usft (25' KB) Well @ 3020.00usft (25' KB)

Grid

Minimum Curvature

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)
14.300.00	90.25	359.66	10.645.55	3.885.82	-22.89	3.885.88	0.00	0.00	0.00
14,400.00	90.25	359.66	10,645.11	3,985.81	-23.48	3,985.88	0.00	0.00	0.00
14,500.00	90.25	359.66	10,644.68	4,085.81	-24.07	4,085.88	0.00	0.00	0.00
14,600.00	90.25	359.66	10,644.24	4,185.81	-24.66	4,185.88	0.00	0.00	0.00
14,700.00	90.25	359.66	10,643.81	4,285.81	-25.25	4,285.88	0.00	0.00	0.00
14,800.00	90.25	359.66	10,643.37	4,385.80	-25.84	4,385.88	0.00	0.00	0.00
14,900.00	90.25	359.66	10,642.93	4,485.80	-26.43	4,485.88	0.00	0.00	0.00
15,000.00	90.25	359.66	10,642.50	4,585.80	-27.02	4,585.88	0.00	0.00	0.00
15,100.00	90.25	359.66	10,642.06	4,685.79	-27.60	4,685.88	0.00	0.00	0.00
15,200.00	90.25	359.66	10,641.62	4,785.79	-28.19	4,785.88	0.00	0.00	0.00
15,300.00	90.25	359.66	10,641.19	4,885.79	-28.78	4,885.87	0.00	0.00	0.00
15,400.00	90.25	359.66	10,640.75	4,985.79	-29.37	4,985.87	0.00	0.00	0.00
15,500.00	90.25	359.66	10,640.31	5,085.78	-29.96	5,085.87	0.00	0.00	0.00
15,600.00	90.25	359.66	10,639.88	5,185.78	-30.55	5,185.87	0.00	0.00	0.00
15,700.00	90.25	359.66	10,639.44	5,285.78	-31.14	5,285.87	0.00	0.00	0.00
15,800.00	90.25	359.66	10,639.01	5,385.78	-31.73	5,385.87	0.00	0.00	0.00
15,900.00	90.25	359.66	10,638.57	5,485.77	-32.32	5,485.87	0.00	0.00	0.00
16,000.00	90.25	359.66	10,638.13	5,585.77	-32.91	5,585.87	0.00	0.00	0.00
16,100.00	90.25	359.66	10,637.70	5,685.77	-33.50	5,685.87	0.00	0.00	0.00
16,200.00	90.25	359.66	10,637.26	5,785.77	-34.08	5,785.87	0.00	0.00	0.00
16,300.00	90.25	359.66	10,636.82	5,885.76	-34.67	5,885.86	0.00	0.00	0.00
16,400.00	90.25	359.66	10,636.39	5,985.76	-35.26	5,985.86	0.00	0.00	0.00
16,500.00	90.25	359.66	10,635.95	6,085.76	-35.85	6,085.86	0.00	0.00	0.00
16,600.00	90.25	359.66	10,635.52	6,185.75	-36.44	6,185.86	0.00	0.00	0.00
16,700.00	90.25	359.66	10,635.08	6,285.75	-37.03	6,285.86	0.00	0.00	0.00
16,800.00	90.25	359.66	10,634.64	6,385.75	-37.62	6,385.86	0.00	0.00	0.00
16,900.00	90.25	359.66	10,634.21	6,485.75	-38.21	6,485.86	0.00	0.00	0.00
17,000.00	90.25	359.66	10,633.77	6,585.74	-38.80	6,585.86	0.00	0.00	0.00
17,100.00	90.25	359.66	10,633.33	6,685.74	-39.39	6,685.86	0.00	0.00	0.00
17,200.00	90.25	359.66	10,632.90	6,785.74	-39.98	6,785.86	0.00	0.00	0.00
17,300.00	90.25	359.66	10,632.46	6,885.74	-40.56	6,885.86	0.00	0.00	0.00
17,400.00	90.25	359.66	10,632.02	6,985.73	-41.15	6,985.85	0.00	0.00	0.00
17,492.67	90.25	359.66	10,631.62	7,078.40	-41.70	7,078.52	0.00	0.00	0.00
PBHL									

Design Targets

farαet Na	ame

	hit/miss targetShape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
P	BHL v1 - Ross Draw - plan hits target c - Point		0.00	10,631.62	7,078.40	-41.70	371,227.10	630,293.20	32° 1' 11.714 N	103° 54' 46.570 W
L	TP v1 - Ross Draw 3 - plan misses targ			10,632.18 17363.67u	6,949.40 sft MD (1063	-41.00 2.18 TVD, 6	371,098.10 949.40 N, -40.94	630,293.90 E)	32° 1' 10.438 N	103° 54' 46.568 W

- Point

FTP v1 - Ross Draw 3 0.00 0.01 10,659.89 599.70 -3.40 364,748.40 630,331.50 32° 0' 7.597 N 103° 54' 46.418 W

- plan misses target center by 0.13usft at 11013.79usft MD (10659.89 TVD, 599.70 N, -3.53 E)

- Point



Planning Report



Database: Company: Conroe Server

XTO Energy

Project:

Eddy County, New Mexico (NAD 27)

Site:

Ross Draw 3031 Federal

Well:

6Н

Wellbore: Wellbore #1 Design: Design #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Well 6H

Well @ 3020.00usft (25' KB)

Well @ 3020.00usft (25' KB)

North Reference:

Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
266.00	266.00	Rustler		-0.25	359.66
849.00	849.00	Salado/Top Salt		-0.25	359.66
1,402.00	1,402.00	Castile		-0.25	359.66
3,120.00	3,120.00	Lamar/Base Salt		-0.25	359.66
10,289.00	10,284.85	Wolfcamp		-0.25	359.66
10,839.61	10,641.14	Target Top		-0.25	359.66
10,935.94	10,657.72	Landing Depth		-0.25	359.66

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
10,087.04	10,087.04	0.00	0.00	KOP, 10.00°/100' Build
10,989.54	10,660.00	575.45	-3.39	Begin 90.25° Lateral
17,492.67	10,631.62	7,078.40	-41.70	PBHL

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

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

Date: 11/01/2017	JUL 1 7 2018	GAS CAPTURE PLAN
υ	DISTRICT II-ARTESIA O.C.D. ason for Amendment:	Operator & OGRID No.: XTO Energy, Inc [005380]

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility: Ross Draw NW CTB

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Ross Draw 3031 Fed #6H		5-31-26S-30E	170'FNL & 430'FEL	2241	Flared/Sold	CTB Connected to P/L

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>ETC</u> and will be connected to <u>ETC</u> low/high pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. <u>XTO</u> provides (periodically) to <u>ETC</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>XTO</u> and <u>ETC</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>ETC</u> Processing Plant located in Sec.33, Twn. T24S, Rng.37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>ETC</u> system at that time. Based on current information, it is <u>XTO's</u> belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



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 bate:	6/8/2014	
Customer Ref. :	PENDING	Hose Senal No.:		
Invaice No. :	201709	_	D-060814-1	
L		Created By:	NORMA	
Product Description:		FD3.042.0R41/16.5KFLGE/E	LE.	
Product Description:		FD3.042.0R41/16.5KFLGE/E	LE	
	4 1/16 m.5K FLG	7		
ad Filling 1 :	4 1/16 m.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG	
Product Description: End Filling 1 : Sains Part No. : Vorking Pressure :	4 1/16 m.SK FLG 4774-6001 5,000 PSI	7		

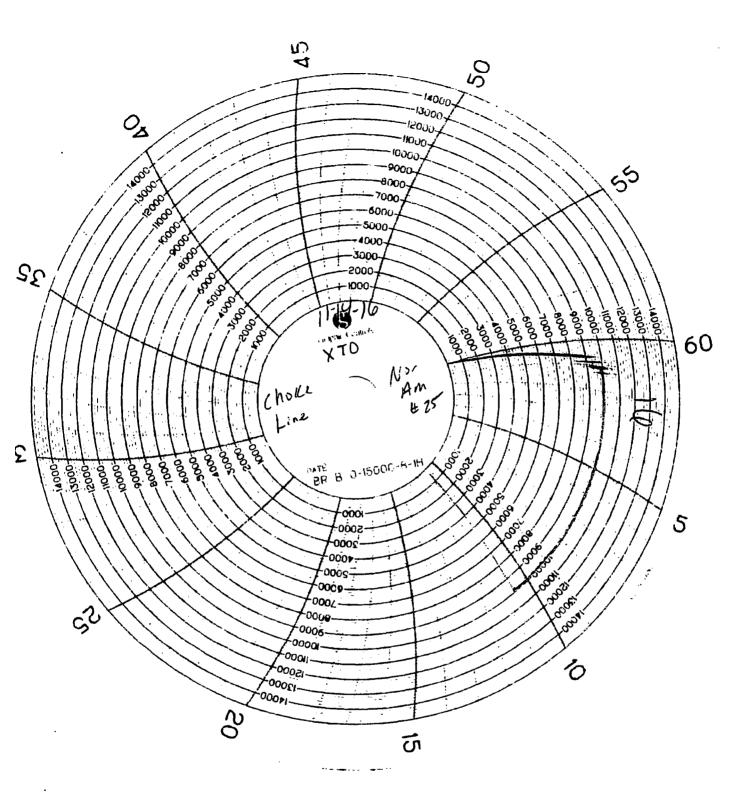
Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance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

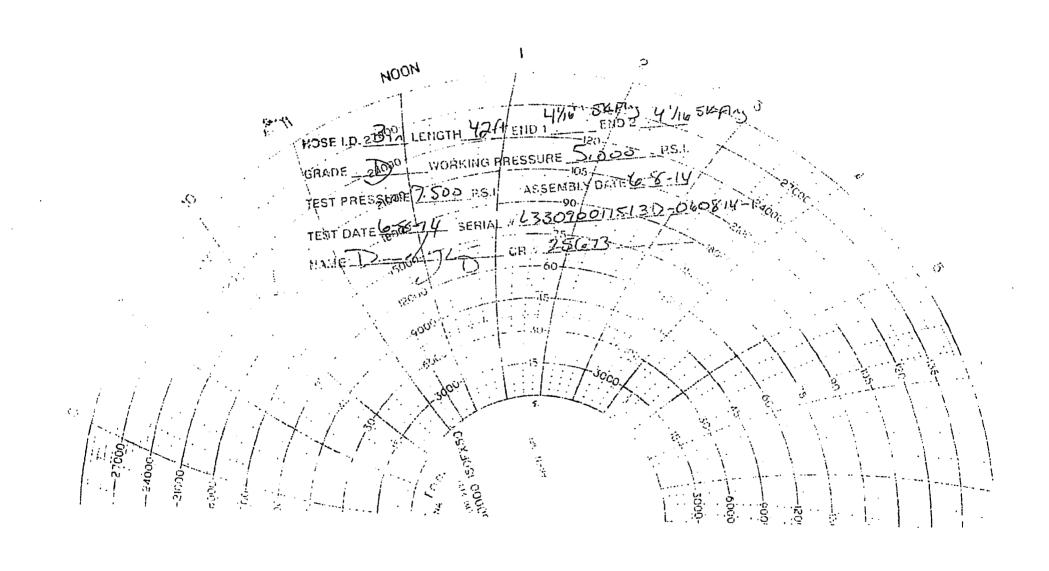
Quality: QUALITY Technical Supervisor: PRODUCTION

Date: 5/8/2014

Signature: Signature:

Form PTC - 01 Rev.0 2







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



APD ID: 10400025938

Submission Date: 01/02/2018

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

hed data is the most

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Ross Fed 6H Road 20180612113418.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:

Ross Fed 6H NRoad 20180612112019.pdf

New road type: RESOURCE

Length: 659.06

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

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? NO

New road access plan attachment:

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Surface material will be 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: From the intersection of US Hwy 285 and Co. Rd 725 (Longhorn Rd) go East on Co. Rd 725 approximately 11.4 miles to a 'Y' intersection. Turn left and go Northeast on lease road approximately .7 miles to proposed road survey. Follow staked road Southeast 73', then South 2908', then Southwest 502' to this location.

Number of access turnouts: 1

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 drainage control structures were identified at onsite. Drainage control structures 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

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Ross_Fed_6H_1_Mile_20180102054220.pdf

Existing Wells description:

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: No additional production facility (CTB) is required. An existing CTB was approved and built under the Ross Draw 25 Federal #2H APD. See attached plat for additional details. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted to BLM specifications. 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. Flowlines: No flowlines are being applied for with this APD. Flowlines will be sundried to a proposed CTB upon approval of APD via NOI 3160-5. Electrical: Approximately 700' of 12,740 volt electrical line will be run from the well pad to the tie-in point located along Ross Ranch Road. Gas Sales Line: No gas sales line is needed for this facility. Gas sales line is installed at the CTB.

Water source type: GW WELL

Production Facilities map:

Ross_Fed_6H_Fac_20180102060032.pdf Ross_Fed_6H_OHE_20180612112101.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,

INTERMEDIATE/PRODUCTION CASING, STIMULATION, STIMULATION, SURFACE CASING, SURFACE CASING

Describe type: Source longitude:

Source latitude:

Source datum: NAD83

Water source permit type: PRIVATE CONTRACT

Source land ownership: FEDERAL

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 40000 Source volume (acre-feet): 5.155724

Source volume (gal): 1680000

Water source and transportation map:

Ross_Fed_6H_Wtr_20180102054325.pdf

Water source comments: 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 location 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: Rockhouse Water & Brine Inc 1108 West Pierce St Carlsbad, NM 88220 Water for drilling, completion and dust control will be supplied by Rockhouse Water for sale to XTO Energy, Inc from the following two sources per Rockhouse Water: 1st Well: CP745 Section 12-T20S-R29E Latitude: 32.585782 Longitude: -104.034144 2nd Well: CP742 Section 31-T19S-R30E Latitude: 32.614117 Longitude: -104.017098

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

of hole drilled with 40% 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. Well completion is expected to require approximately 50,000 barrels of fresh water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections. After production is established, XTO may complete wells with approximately 50,000 barrels of produced water. If the decision to use produced water is made, the BLM will be notified appropriately, proper permitting will ensue with the New Mexico Oil Conservation division and this surface use plan will be amended as needed. All water source information was provided by the anticipated contract vendor.

New water well? NO

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:

Aguifer 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

Construction Materials description: Native caliche. Source 1: BLM Pit 25-T26S-R29E Source 2: BLM Pit 24-T26S-R29E

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100

pounds

Waste disposal frequency: One Time Only

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

style mud boxes.

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

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

FACILITY

Disposal type description:

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

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250

gallons

Waste disposal frequency: Weekly

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

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: GARBAGE

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

Amount of waste: 250 pounds

Waste disposal frequency: Weekly

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

Safe containment attachment:

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

FACILITY

Disposal type description:

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

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency: One Time Only

Safe containment description: Steel mud pits

Safe containment attachment:

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

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

FACILITY

Disposal type description:

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

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 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.

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?: NO

Ancillary Facilities attachment:

Comments:

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

Section 9 - Well Site Layout

Well Site Layout Diagram:

Ross Fed 6H Well_20180102054430.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Ross_Fed_6H_Int_Rec_20180102054452.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): 3.21

Road proposed disturbance (acres):

0.453

Powerline proposed disturbance

(acres): 0

Pipeline proposed disturbance

(acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 3.663

Well pad interim reclamation (acres):

0.128

Road interim reclamation (acres): 0

Powerline interim reclamation (acres):

0

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.128

Well pad long term disturbance

(acres): 2.65151

Road long term disturbance (acres):

0.453

Powerline long term disturbance

(acres): 0

Pipeline long term disturbance

(acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 3.10451

Disturbance Comments: Flowline will be run on surface following proposed road corridors to the central tank battery. After completion, all disturbed areas will be reclaimed in accordance to reclamation standards set forth in this APD with disturbance occurring only for maintenance or emergency purposes.

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: According to the Natural Resources Conservation Service's online database, the project area soil is Pajarito-Dune land complex, loamy sand, 0-3 percent slopes. This soil supports grassland dominated by black grama, dropseeds and bluestems. Shurbs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. The project area is in a low area of deep sands amongst low to medium height dunes with some gravel and outcrops.

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

Existing Vegetation Community at the road: According to the Natural Resources Conservation Service's online database, the project area soil is Pajarito-Dune land complex, loamy sand, 0-3 percent slopes. This soil supports grassland dominated by black grama, dropseeds and bluestems. Shurbs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. The project area is in a low area of deep sands amongst low to medium height dunes with some gravel and outcrops. Vegetation such as fourwing saltbrush, snakeweed and desert sage was viewed in the project area. **Existing Vegetation Community at the road attachment:**

Existing Vegetation Community at the pipeline: According to the Natural Resources Conservation Service's online database, the project area soil is Pajarito-Dune land complex, loamy sand, 0-3 percent slopes. This soil supports grassland dominated by black grama, dropseeds and bluestems. Shurbs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. The project area is in a low area of deep sands amongst low to medium height dunes with some gravel and outcrops. Vegetation such as fourwing saltbrush, snakeweed and desert sage was viewed in the project area. **Existing Vegetation Community at the pipeline attachment:**

Existing Vegetation Community at other disturbances: According to the Natural Resources Conservation Service's online database, the project area soil is Pajarito-Dune land complex, loamy sand, 0-3 percent slopes. This soil supports grassland dominated by black grama, dropseeds and bluestems. Shurbs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. The project area is in a low area of deep sands amongst low to medium height dunes with some gravel and outcrops. Vegetation such as fourwing saltbrush, snakeweed and desert sage was viewed in the project area.

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

S dling transplant description:

Will seedlings be transplanted for this project? NO

S ling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

S harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type: Seed source:

Seed name:

Source name: Source address:

Source phone:

- S d cultivar:
- S | use location:

Well Name: ROSS DRAW 3031 FEDERAL Well Number: 6H

PLS pounds per acre:	Proposed seeding season:	
Seed Sumi	mary	Total pounds/Acre:
Seed Type		

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Jeff Last Name: Raines

Phone: (432)620-4349 Email: jeffrey_raines@xtoenergy.com

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? NO

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 system will meet the NMOCD requirements 19.15.17.

Pit closure attachment:

Section 11 - Surface Ownership

Operator Name: XTO ENERGY INCORPORATED	
Well Name: ROSS DRAW 3031 FEDERAL	Well Number: 6H
Disturbance type: OTHER	
Describe: Electrical	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
OOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
JSFWS Local Office:	
Other Local Office:	
JSFS Region:	
JSFS Forest/Grassland:	USFS Ranger District:
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:

Well Name: ROSS DRAW 3031 FEDERAL	Well Number: 6H
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: PIPELINE	
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 Ranger District:

Operator Name: XTO ENERGY INCORPORATED

USFS Forest/Grassland:

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

Disturbance type: OTHER

Describe: Facility & 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? YES

Use APD as ROW? YES

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

ROW Applications

SUPO Additional Information:

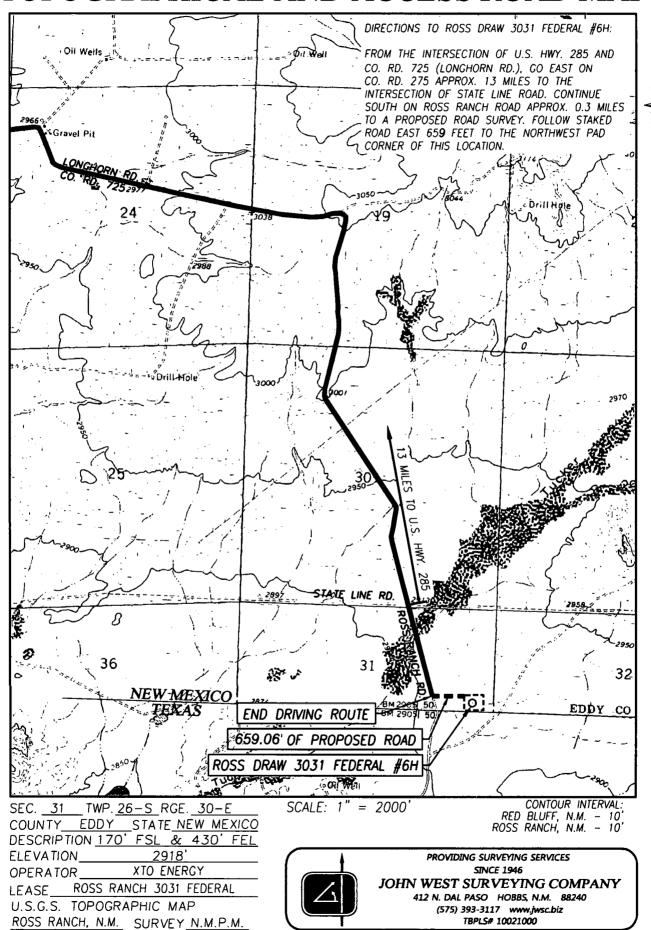
Use a previously conducted onsite? YES

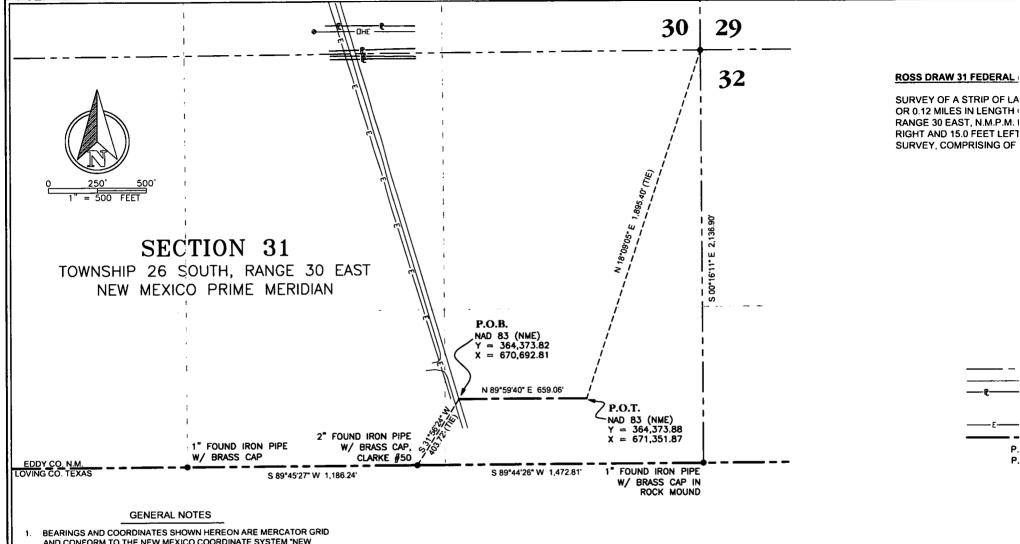
Previous Onsite information: Bob Ballard performed the onsite of this location.

Other SUPO Attachment

Ross_Fed_6H_SUPO1_20180702114943.pdf

TOPOGRAPHICAL AND ACCESS ROAD MAP





- AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).
- SECTION LINES AND SURFACE HOLES WERE DONE BY AN ON THE GROUND SURVEY, ALL OTHER INFORMATION SHOWN ON THIS PLAT WAS PROVIDED BY XTO ENERGY, INC.



DATE: 6-12-2018

550 Bailey Ave., 205 · Fort Worth, TX 76107 PROJECT NO: Ph: 817.349.9800 - Fax: 979.732.5271 TBPE Firm 17957 | TBPLS Firm 10193887 www.fscinc.net

2017091664 1" = 500" SCALE: SHEET: 1 OF 1 REVISION: NONE

PLAT OF:

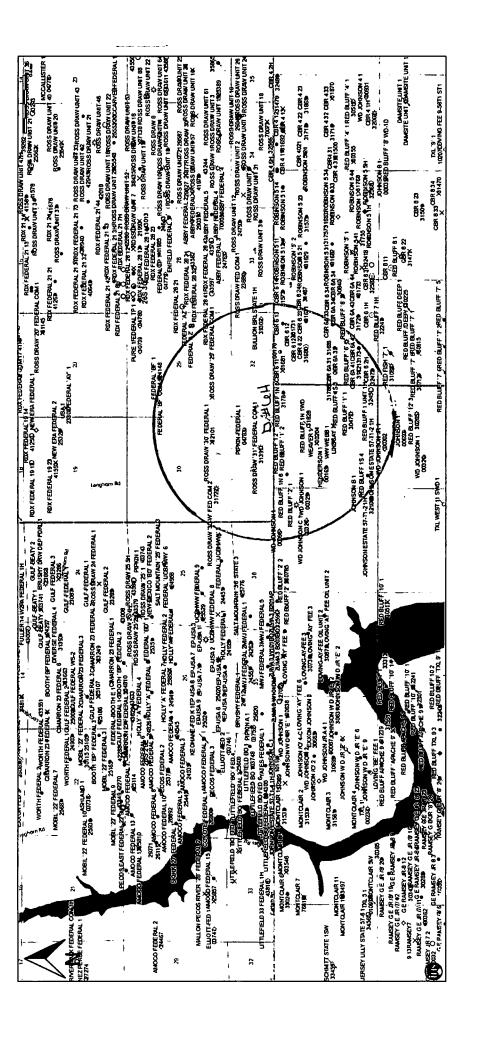
PROPOSED CENTERLINE OF ACCESS ROAD FOR: XTO ENERGY. INC.

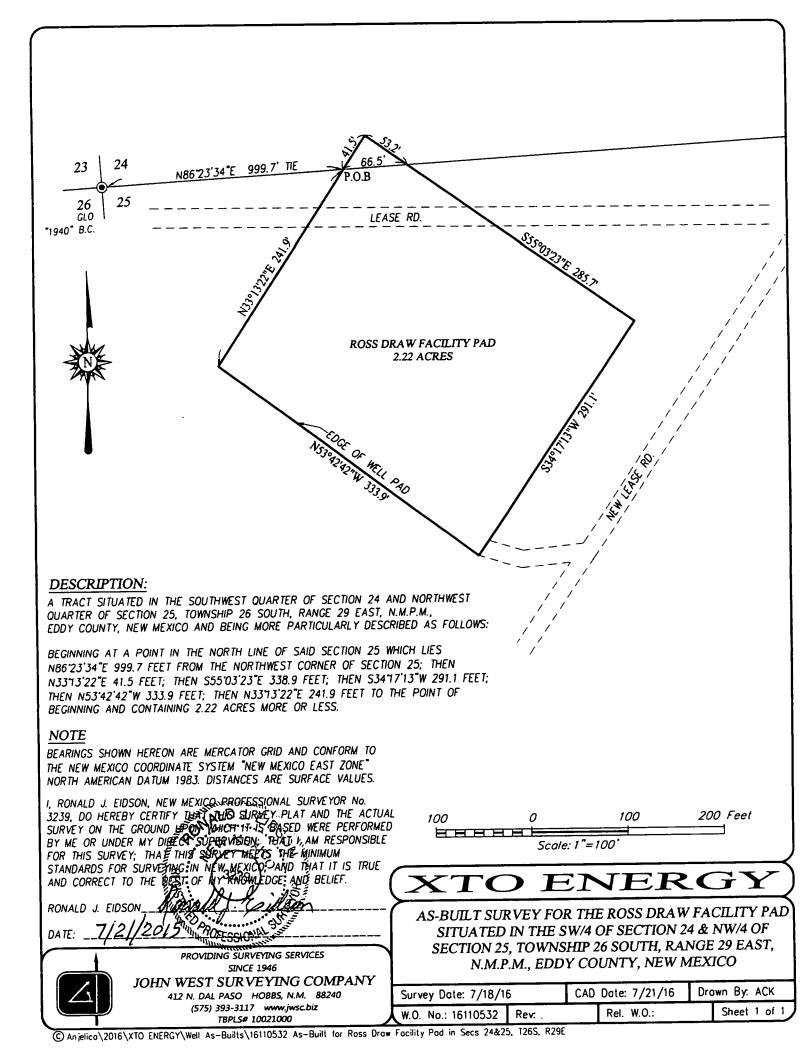
ROSS DRAW 31 FEDERAL

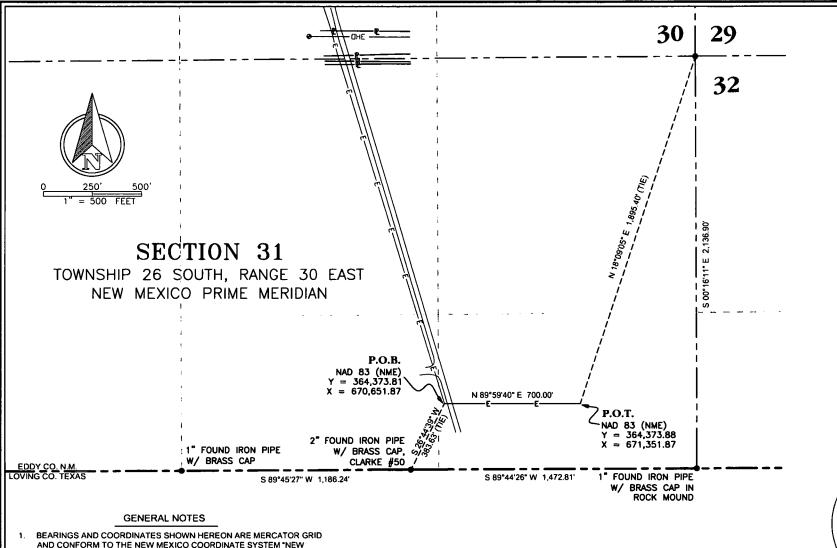
SITUATED IN SECTION 31. TOWNSHIP 26 SOUTH, RANGE 30 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO

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MARK REGIST STATE







- 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.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).
- SECTION LINES AND SURFACE HOLES WERE DONE BY AN ON THE GROUND SURVEY, ALL OTHER INFORMATION SHOWN ON THIS PLAT WAS PROVIDED BY XTO ENERGY, INC.



550 Bailey Ave., 205 - Fort Worth, TX 76107 PROJECT NO:
Ph: 817.349.9800 - Fax: 979.732.5271 SCALE:
TBPE Firm 17957 | TBPLS Firm 10193887 SHEFT:

www.fscinc.net

DATE: 6-12-2018
DRAWN BY: AI
CHECKED BY: DH
FIELD CREW:
PROJECT NO: 2017091664

 PROJECT NO:
 2017091664

 SCALE:
 1" = 500"

 SHEET:
 1 OF 1

 REVISION:
 NONE

PLAT OF:

PROPOSED CENTERLINE OF OVERHEAD ELECTRIC LINE FOR: XTO ENERGY, INC.

ROSS DRAW 31 FEDERAL

SITUATED IN SECTION 31,
TOWNSHIP 26 SOUTH, RANGE 30 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

ROSS DRAW 31 FEDERAL : DESCRIPTION:

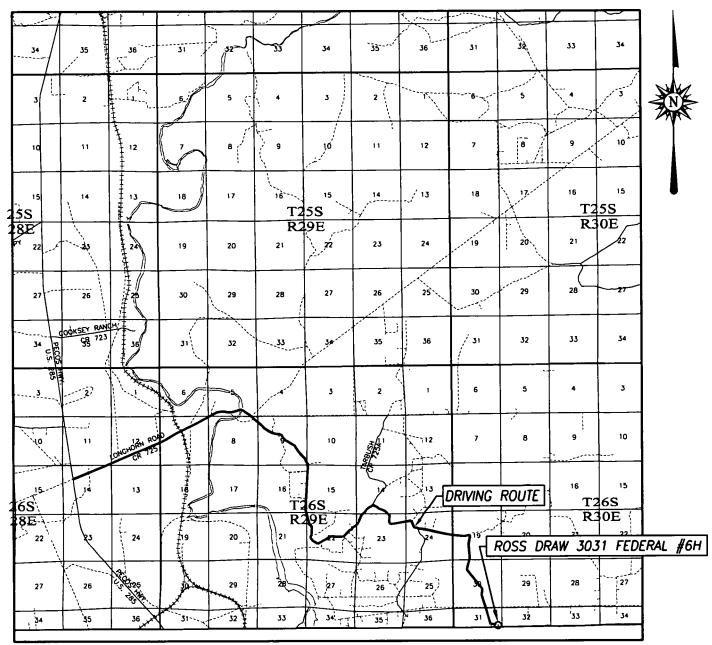
SURVEY OF A STRIP OF LA OR 0.13 MILES IN LENGTH I RANGE 30 EAST, N.M.P.M. I RIGHT AND 15.0 FEET LEFT ELECTRIC LINE SURVEY.



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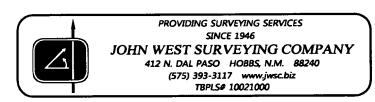
MARK REGIST STATE

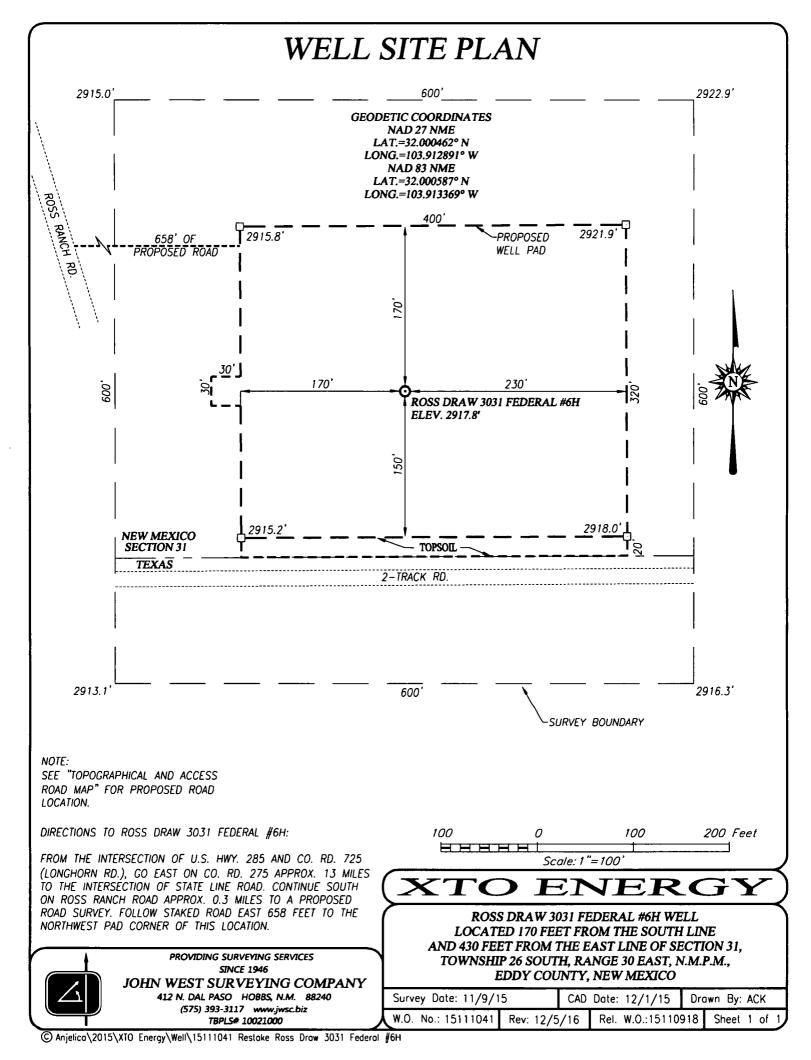
VICINITY MAP



SCALE: 1" = 2 MILES DRIVING ROUTE: SEE TOPOGRAPHICAL AND ACCESS ROAD MAP

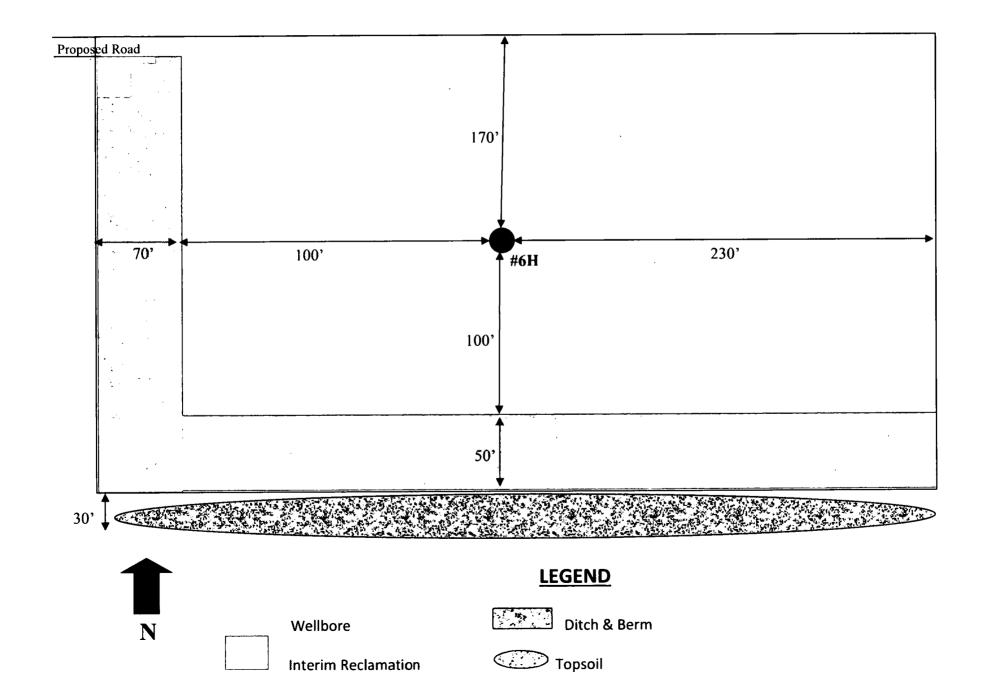
SEC. <u>31</u>	TWP. <u>26-S</u> RGE. <u>30-E</u>
SURVEY	N.M.P.M.
COUNTY	EDDY STATE NEW MEXICO
DESCRIPTIO	N <u>170' FSL & 430' FEL</u>
ELEVATION .	2918'
OPERATOR .	XTO ENERGY
LEASERO	OSS DRAW 3031 FEDERAL





Interim Reclamation Diagram

Ross Draw Federal 3031 #6H V-Door West



SURFACE USE PLAN

XTO Energy, Inc.
Ross Draw 3031 Federal #6H
Eddy County, NM

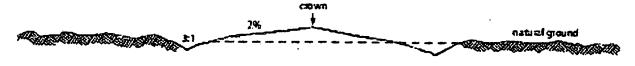
This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

- a. DIRECTIONS: From the intersection of U.S. Hwy 285 and Co. Rd 725 (Longhorn Rd, go east on Co. Rd 275 approximately 13 miles to the intersection of State Line Rd. Continue South on Ross Ranch Road approximately .3 miles to a proposed road survey. Follow staked road East 659.06' to the Northwest pad corner of this location.
- b. See attached plats and maps provided by John West Surveying Company.
- c. The access route from Co. Rd. 725 (Longhorn Rd) to the well location is depicted on the Topographic & Access Road map provided by John West Surveying Company. The route highlighted in red will be the access and no ROW is required for this well.
- d. The existing 2-track road access route will be improved and maintained to the standard set forth in Section 2 of this Surface Use Plan of Operations.

2. NEW OR RECONSTRUCTED ACCESS ROADS:

- a. 659.06' of new road will be required to access the location. Below regards any upgrading of the existing caliche road system to the proposed well location.
- b. The maximum width of the driving surface will be 14 feet. The road 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

- c. Surface material will be native caliche. The average grade of the entire road will be approximately 3%.
- d. Fence Cuts: No.e. Cattle Guards: Nof. Turnouts: No
- g. Culverts: No
- h. Cuts and Fills: Not significant
- i. 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.
- j. 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.
- k. 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:

See attached map showing all wells within a one-mile radius.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- a. No additional production facility (CTB) is required. An existing CTB was approved and built under the Ross Draw 25 Federal #2H APD. See attached plat for additional details.
- All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted to BLM specifications.
- c. 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.
- d. Flowlines: No flowlines are being applied for with this APD. Flowlines will be sundried to a proposed CTB upon approval of APD via NOI 3160-5.
- e. Electrical: Approximately 700' of 12,740 volt electrical line will be run from the well pad to the tie-in point located along Ross Ranch Road.
- f. Gas Sales Line: No gas sales line is needed for this facility. Gas sales line is installed at the CTB.

5. LOCATION AND TYPE 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 location 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: Rockhouse Water & Brine Inc 1108 West Pierce St Carlsbad, NM 88220

Water for drilling, completion and dust control will be supplied by Rockhouse Water for sale to XTO Energy, Inc from the following two sources per Rockhouse Water:

1st Well: CP745

Section 12-T20S-R29E

Latitude: 32.585782 Longitude: -104.034144

2nd Well: CP742

Section 31-T19S-R30E Latitude: 32.614117 Longitude: -104.017098

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 40% 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.

Well completion is expected to require approximately 50,000 barrels of fresh water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections. After production is established, XTO may complete wells with approximately 50,000 barrels of produced water. If the decision to use produced water is made, the BLM will be notified appropriately, proper permitting will ensue with the New Mexico Oil Conservation division and this surface use plan will be amended as needed.

All water source information was provided by the anticipated contract vendor.

6. SOURCE OF CONSTRUCTION MATERIALS:

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 will be constructed of 6" rolled and compacted caliche.

Source 1: BLM Pit 25-T26S-R29E Source 2: BLM Pit 24-T26S-R29E

7. METHODS OF HANDLING WASTE DISPOSAL:

- a. 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 an NMOCD approved disposal site.
- b. Drilling fluids will be contained in steel mud pits.
- c. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- d. Oil produced during operations will be stored in tanks until sold.
- e. Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, 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 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.
- f. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved 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.

g. 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, Incorporated 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.

8. ANCILLARY FACILITIES:

No campsite, airstrip or other facilities will be built as a result of the operation of this well. No staging areas are needed.

9. WELL SITE LAYOUT:

- The included plat by John West Surveying shows the dimensions of the proposed well pad.
- b. The proposed dual pad size will be 400'x350', including topsoil storage and facility. There will be no reserve pit due to the well being drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- c. John West Surveying Company's plat, Form C-102, shows the direction of the pad at a V-Door West.
- d. A 600' x 600' area has been staked and flagged.
- e. 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:

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.

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:

- <u>Seedbed Preparation</u>: 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.

- <u>Seed Application</u>. 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. The surface is owned by the Bureau of Land Management (BLM). The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.

12. OTHER INFORMATION:

- a. According to the Natural Resources Conservation Service's online database, the project area soil is Pajarito-Dune land complex, loamy sand, 0-3 percent slopes. This soil supports grassland dominated by black grama, dropseeds and bluestems. Shurbs, such as sand sage, shinnery oak, and mesquite are dispersed throughout. The project area is in a low area of deep sands amongst low to medium height dunes with some gravel and outcrops. Vegetation such as fourwing saltbrush, snakeweed and desert sage was viewed in the project area. There is no permanent or live water in the area.
- b. There are no dwellings within 2 miles of this location.
- c. A Class III Cultural Resources Examination has been completed by Boone Archaeological Services and the results will be forwarded to the BLM office.

13. BOND COVERAGE:

a. Bond Coverage is Nationwide; Bond Number UTB000138.

OPERATORS RESPRESENTATIVE:

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

Jeff Raines XTO Energy, Inc 500 W. Illinois St, Suite 100 Midland, TX 79701 432-620-4349 (Office)

Jimie Scott XTO Energy, Inc 500 W. Illinois St, Suite 100 Midland, TX 79701 432-488-9955 (Cell)





Section 1 - General

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:

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

Section 2 - Lined Pits	
Nould you like to utilize Lined Pit PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
ined pit PWD on or off channel:	
ined pit PWD discharge volume (bbl/day):	
ined pit specifications:	
Pit liner description:	
Pit liner manufacturers information:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
ined pit precipitated solids disposal schedule:	
ined pit precipitated solids disposal schedule attachment:	
ined pit reclamation description:	
ined pit reclamation attachment:	
eak detection system description:	
eak detection system attachment:	
ined pit Monitor description:	

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: PWD disturbance (acres): 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? 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

PWD disturbance (acres):

Introduce MAID dischause relieus /hhl/dasA.

Produced Water Disposal (PWD) Location:

PWD surface owner:

Would you like to utilize Injection PWD options? NO

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? NO	
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? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



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

Bond Info Data Report 07/16/2018

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:

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 1006 Rio Brazos Road, Aztec, NM 87410 Phone (505) 334-0178 Fax (505) 334-0170

State of New Mexico

RECEIVED Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

> 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

JUL 1 7 2018

Form C-102 Revised August 1, 2011 Submit one copy to appropriate

District Office

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Rul 7-19-18



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

Drilling Plan Data Report
07/16/2018

APD ID: 10400025938

Submission Date: 01/02/2018

Highlighted data reflects the most recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROSS DRAW 3031 FEDERAL

Well Number: 6H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	PERMIAN	3001	0	0	OTHER : Quaternary	NONE	No
2	RUSTLER	2625	252	252	SANDSTONE	USEABLE WATER	No
3	TOP SALT	1882	995	995	SALT	NONE	No
4	4 BASE OF SALT		3052	3052	SALT	NONE	No
5	BELL CANYON	-215	3092	3092		OTHER : Produced Water	No
6	CHERRY CANYON	-1115	3992	3992		OTHER : Produced Water	Yes
7	BRUSHY CANYON	-2788	5665	5665		NATURAL GAS,OIL,OTHER : Produced Water	No
8	BONE SPRING	-3955	6832	6832		NATURAL GAS,OIL,OTHER: Produced Water	No
9	BONE SPRING 1ST	-4920	7797	7797		NATURAL GAS,OIL,OTHER: Produced Water	Yes
10	BONE SPRING 2ND	-5575	8452	8452	SANDSTONE	NATURAL GAS,OIL,OTHER: Produced Water	No
11	BONE SPRING 3RD	-6812	9689	9689	SANDSTONE	NATURAL GAS,OIL,OTHER: Produced Water	No
12	WOLFCAMP	-7162	10039	10039	SHALE	NATURAL GAS,OIL,OTHER: Produced Water	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 10660

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" ninimum 10M Double Ram BOP. Max bottom hole pressure should not exceed 6806 psi.

Requesting Variance? YES

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