Carlsbad Field Office OCD Artesia					FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018		
	DEPARTMENT OF THE INTERIOR				5. Lease Serial No. NMN 0157756A		
BUREAU OF LAND MANAGEMENT				6. If Indian, Allotee or Tribe Name			
la. Type of work: 🚺 DRI		REENTER	<u>APR 2</u> 3	5°2019	7. If Unit or CA Ag	MNM071016X	No.
1b. Type of Well: ✓ Oil V		Other		ITESIA (Soldase Name and	Well No.	
1c. Type of Completion: Hydr	aulic Fracturing	Single Zone	Multiple Zone		POKER LAKE UN	IT 29 BS	
					903H За5-	298	
2. Name of Operator					9. API Well No.		
XTO PERMIAN OPERATING LI	_C		37	73075		15-4592	20
3a. Address 6401 Holiday Hill Road, Bldg 5 I	Midland TX 79707	3b. Phone (432)682	No. (include area coa -8873	le)	10. Field and Pool, WILDCAT / BONE	SPRING By	<u>Sin</u> k
4. Location of Well (Report location clearly and in accordance with			1 /		11. Sec., T. R. M. or Blk. and Survey or Area SEC 29 / T25S / R31E / NMP 9665		
At surface SENW / 2310 FN At proposed prod. zone SESW				03631	020297120371		/ • • •
14. Distance in miles and direction t	rom nearest town or pos	t office*			12. County or Paris		:
15 Distance Gran manual #			·····		EDDY	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, i:	tition to nearest 330 reet berty or lease line, ft. 60		16. No of acres in lease 17. Spacin 600 400		ng Unit dedicated to this well		
18. Distance from proposed location	n*	19. Propo	sed Depth	20. BLM/	BIA Bond No. in file		
to nearest well, drilling, complet applied for, on this lease, ft.	to nearest well, drilling, completed		11394 feet / 24488 feet FÈD: CO		DB000050		
21. Elevations (Show whether DF, K 3359 feet	Elevations (Show whether DF, KDB, RT, GL, etc.) 2		22. Approximate date work will start* 06/01/2019 24. Attachments		23. Estimated duration		
					90 days		
The following completed in geograd		<u></u> .			· · · · ·		
The following, completed in accorda (as applicable)	ance with the requirement	its of Onshore C	oil and Gas Order No.	I, and the F	lydraulic Fracturing i	ule per 43 CFR 316	52.3-3
1. Well plat certified by a registered	surveyor.			ne operation	is unless covered by a	n existing bond on fi	ile (see
 A Drilling Plan. A Surface Use Plan (if the location 	n is on National Forest S	vstem Lands th	Item 20 above). e 5. Operator certific	cation			
SUPO must be filed with the appr					mation and/or plans as	may be requested b	y the
. Signature Electronic Submission)			Name (Printed/Typed) Kelly Kardos / Ph: (432)620-4374		· · · ·	Date 01/08/2019	
Title			y Raidos / Fil. (432)			01/00/2019	
Regulatory Coordinator			<u>.</u>				
Approved by (Signature)			Name (Printed/Typed)		<u> </u>	Date	
(Electronic Submission)			Cody Layton / Ph: (575)234-5959 Office			03/21/2019	
Assistant Field Manager Lands & Minerals			CARLSBAD				
Application approval does not warra applicant to conduct operations there Conditions of approval, if any, are at	on.	icant holds lega	al or equitable title to t	nose rights	in the subject lease w	hich would entitle t	he
Fitle 18 U.S.C. Section 1001 and Tit	le 43 U.S.C. Section 121	2. make it a crin	me for any person kno	wingly and	willfully to make to	any department or a	gency
of the United States any false, fictitio	ous or fraudulent stateme	nts or represent	ations as to any matter	within its j	urisdiction.	· ·	



(Continued on page 2)

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*(Instructions on page 2)

RW 4-26-19

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INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

SHL: SENW / 2310 FNL / 1950 FWL / TWSP: 255 / RANGE: 31E / SECTION: 29 / LAT: 32.102206 / LONG: -103.802587 (TVD: 0 feet, MD: 0 feet)
 PPP: NESW / 2310 FSL / 1650 FWL / TWSP: 255 / RANGE: 31E / SECTION: 32 / LAT: 32.08483 / LONG: -103.802542 (TVD: 11394 feet, MD: 19660 feet)
 PPP: NENW / 330 FNL / 1650 FWL / TWSP: 255 / RANGE: 31E / SECTION: 32 / LAT: 32.092147 / LONG: -103.80255 (TVD: 11394 feet, MD: 14380 feet)
 PPP: NESW / 2310 FSL / 1650 FWL / TWSP: 255 / RANGE: 31E / SECTION: 29 / LAT: 32.100316 / LONG: -103.803575 (TVD: 11394 feet, MD: 11740 feet)
 PPP: NESW / 200 FSL / 1650 FWL / TWSP: 265 / RANGE: 31E / SECTION: 5 / LAT: 32.065272 / LONG: -103.803631 (TVD: 11394 feet, MD: 24488 feet)

BLM Point of Contact

Name: Tenille Ortiz Title: Legal Instruments Examiner Phone: 5752342224 Email: tortiz@blm.gov

Approval Date: 03/21/2019

(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 Permian Operating, LLC
LEASE NO.:	NMNM-0157756A
WELL NAMÉ & NO.:	Poker Lake Unit 29 BS 903H
SURFACE HOLE FOOTAGE:	2310' FNL & 1950' FWL
BOTTOM HOLE FOOTAGE	0200' FSL & 1650' FWL Sec. 05, T. 26 S., R 31 E.
LOCATION:	Section 29, T. 25 S., R 31 E., NMPM
COUNTY:	County, New Mexico

Commercial Well Determination

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

Unit Wells

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

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. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

- 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

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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.

Medium Cave/Karst

Possibility of water flows in the Salado and Castile. Possibility of lost circulation in the Red Beds, Rustler, and Delaware. Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

- 1. The 13-3/8 inch surface casing shall be set at approximately 1170 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.

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.¹

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- 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.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Formation below the 9-5/8" 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 (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - ☐ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 24% Additional cement may be required.
- 4. 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. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. A copy of the **BOP/BOPE test chart and a copy of independent service company test**

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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.

D. DRILL STEM TEST

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

E. 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.

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 29 BS 903H
SURFACE HOLE FOOTAGE:	2310'/N & 1950'/W
BOTTOM HOLE FOOTAGE	200'/S & 1650'/W
LOCATION:	Section 29, T.25 S., R.31 E., NMPM
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
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Phantom Banks Heronries
Cave/Karst
Watershed
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
🛛 Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

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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.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Phantom Banks Heronries

Surface disturbance will not be allowed within up to 200 meters of active heronries or by delaying activity for up to 120 days, or a combination of both.

Exhaust noise from engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Cave/Karst Surface Mitigation

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

Construction:

General Construction:

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

Pad Construction:

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

Tank Battery Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- All tank battery locations and facilities will be lined and bermed.
- The liner should be at least 20 mil in thickness and installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures.
- Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

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Road Construction:

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

Buried Pipeline/Cable Construction:

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

Powerline Construction:

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

Surface Flowlines Installation:

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

Leak Detection System:

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

Automatic Shut-off Systems:

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

Cave/Karst Subsurface Mitigation

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

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Closed Loop System:

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

Rotary Drilling with Fresh Water:

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

Directional Drilling:

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

Lost Circulation:

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

Abandonment Cementing:

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

Pressure Testing:

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

Watershed

The entire 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 with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be

taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

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

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 ¹/₂ 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 valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

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)

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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.

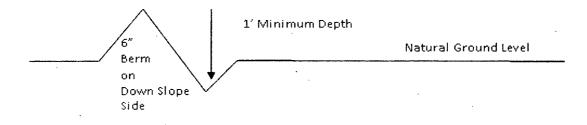
Drainage

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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: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

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

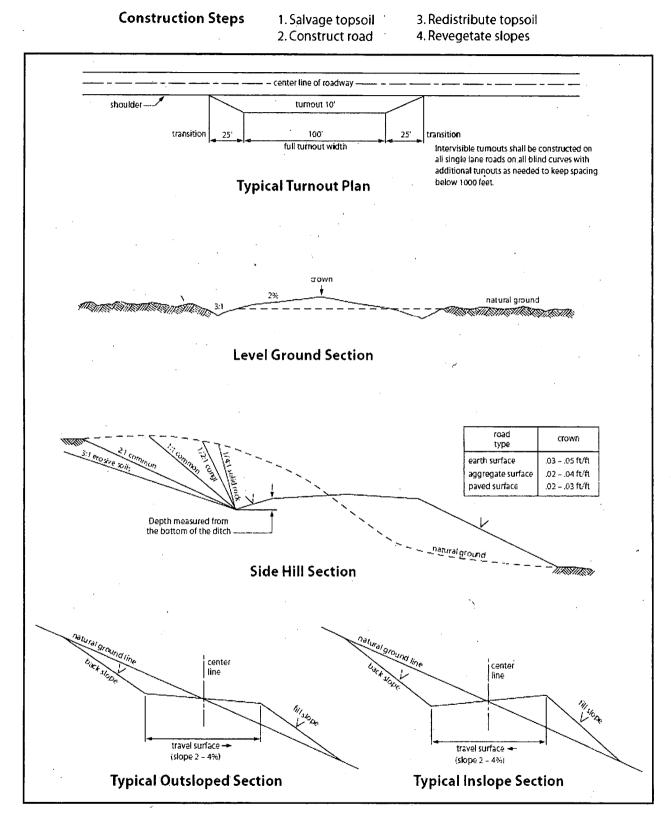
Fence Requirement

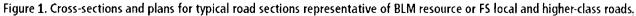
Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

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

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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 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

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

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

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4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;

b. Activities of other parties including, but not limited to:

- (1) Land clearing
- (2) Earth-disturbing and earth-moving work
- (3) Blasting
- (4) Vandalism and sabotage;
- c. Acts of God.

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

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

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized rightof-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

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8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made

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by the authorized officer after consulting with the holder.

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

17. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

a. <u>Lesser Prairie-Chicken</u>: Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

BURIED PIPELINE STIPULATIONS

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

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

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-ofway.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:

• Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (Blading is defined as the complete removal of brush and ground vegetation.)

- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1

() seed mixture 3

() seed mixture 2

() seed mixture 4

 (\mathbf{X}) seed mixture 2/LPC

() Aplomado Falcon Mixture

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13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

18. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

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- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

Wildlife Mitigation Measures

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

C. 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, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in 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.

Page 21 of 25

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.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other

than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft from the source of the noise.

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 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).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Page 24 of 25

Seed Mixture for LPC Sand/Shinnery 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 <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall 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 will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. 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

lb/acre

5lbs/A 5lbs/A 3lbs/A 6lbs/A 2lbs/A 1lbs/A

Plains Bristlegrass
Sand Bluestem
Little Bluestem
Big Bluestem
Plains Coreopsis
Sand Dropseed

*Pounds of pure live seed:

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

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FAFMSS

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

Operator Certification

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

NAME: Kelly Kardos

Title: Regulatory Coordinator

Street Address:

City: Midland

State: TX

State:

Phone: (432)620-4374

Email address: kelly_kardos@xtoenergy.com

Field Representative

Representative Name:

Street Address:

City:

Phone:

Email address:

Signed on: 01/08/2019

rator Certification Data Repor

Zip: 79701

Zip:

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

APD ID: 10400037216

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Well Type: OIL WELL

Submission Date: 01/08/2019

Well Number: 903H

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

· · · · · · · · · · · · · · · · · · ·			
Section 1 - General			۰.
APD ID: 10400037216	Tie to previous NOS?	10400013374	Submission Date: 01/08/2019
BLM Office: CARLSBAD	User: Kelly Kardos	Titl	le: Regulatory Coordinator
Federal/Indian APD: FED	Is the first lease pene	trated for product	ion Federal or Indian? FED
_ease number: NMNM0157756A	Lease Acres: 600		
Surface access agreement in place?	Allotted?	Reservation:	
Agreement in place? YES	Federal or Indian agre	ement: FEDERAL	·
Agreement number: NMNM071016X			
Agreement name:			
Keep application confidential? NO	·		
Permitting Agent? NO	APD Operator: XTO P	ERMIAN OPERAT	ING LLC
Operator letter of designation:			

Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

State: TX

Operator Address: 6401 Holiday Hill Road, Bldg 5

Operator PO Box:

Operator City: Midland

Operator Phone: (432)682-8873

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: POKER LAKE UNIT 29 BS

Field/Pool or Exploratory? Field and Pool

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

Zip: 79707

Mater Development Plan name:

Master SUPO name:

Master Drilling Plan name: Well Number: 903H

Field Name: WILDCAT

Well API Number:

Pool Name: BONE SPRING

Application Data Report

_03/26/2019

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

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: MULTIPLE WELL	Multiple Well Pad Name:	Number: 2
Well Class: MULTI-LATERAL	POKER LAKE UNIT 29 BS Number of Legs: 1	
Well Work Type: Drill		
Well Type: OIL WELL	·	
Describe Well Type:		
Well sub-Type: DELINEATION		
Describe sub-type:		
Distance to town: Distance to	nearest well: 30 FT Dist	ance to lease line: 330 FT
Reservoir well spacing assigned acres Measureme	nt: 400 Acres	• .
Well plat: PLU_29_BS_903H_C102_20181212130	0055.pdf	
Well work start Date: 06/01/2019	Duration: 90 DAYS	· · ·
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		TVD
SHL Leg #1	231 0	FNL	195 0	FWL	25S	31E	29	Aliquot SENW	32.10220 6	- 103.8025 87	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 015775 6A	335 9	0	0
KOP Leg #1	231 0	FNL	195 0	FWL	25S	31E	29	Aliquot SENW	32.10220 6		EDD Y		NEW MEXI CO	F	NMNM 015775 6A	- 749 6	108 55	108 55
PPP Leg #1	231 0	FSL	165 0	FWL	25S	31E	29	Aliquot NESW	32.10031 6	- 103.8035 75	EDD Y		NEW MEXI CO		NMNM 015775 6A	- 803 5	117 40	113 94

FMSS

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

APD ID: 10400037216

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

Submission Date: 01/08/2019

Highlighted data reflects the most recent changes

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	
1	PERMIAN	3359	Ô	0	OTHER : Quaternary	NONE	No
2	RUSTLER	2524	835	835	SILTSTONE	USEABLE WATER	No
3	TOP SALT	21,56	1203	1203	SALT	OTHER : Produced Water	No
4	BASE OF SALT	-548	3907	3907	SALT	OTHER : Produced Water	No
5	DELAWARE	-768	4127	4127	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
6	BONE SPRING	-4688	8047	8047	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	Yes
7	BONE SPRING 1ST	-5736	9095	9095	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	Yes
8	BONE SPRING 2ND	-6415	9774	9774	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	Yes
9	BONE SPRING 3RD	-7667	11026	11026	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11394

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3122 psi.

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

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

Choke Diagram Attachment:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

PLU_29_BS_5MCM_20181212131647.pdf

BOP Diagram Attachment:

PLU_29_BS_5MBOP_20181212131700.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	1170	0	1170			1170	H-40	48	STC	1.44	1.41	DRY	5.73	DRY	5.73
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3950	0	3950			3950	J-55	40	LTC	2.07	1.09	DRY	3.29	DRY	3.29
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	24488	0	11394	•		24488	P- 110	17	BUTT	1.21	1.12	DRY	1.98	DRY	1.98

Casing Attachments

Casing ID: 1

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_29_BS_903H_Csg_20181212131910.pdf

Operator Name: XTO PERMIAN OPERATING LLC Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

Casing Attachments

Casing ID: 2	String Type: INTERMEDIATE	÷
Inspection Document:		

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_29_BS_903H_Csg_20181212132216.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_29_BS_903H_Csg_20181212132240.pdf

Section	Section 4 - Cement														
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives				
SURFACE	Lead		0	1170	640	1.87	12.9	1196. 8	100	EconoCem- HLTRRC	None				
SURFACE	Tail				300	1.35	14.8	405	100	HalCem-C	2% CaCl				
INTERMEDIATE	Lead		0	3950	1140	1.88	12.9	2143. 2	100	Halcem-C	2% CaCl				
INTERMEDIATE	Tail				230	1.33	14.8	305.9	100	Halcem-C	2% CaCl				
PRODUCTION	Lead		0	2448 8	840	2.69	10.5	2259. 6	30	NeoCem	None				

Page 3 of 6

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail				2640	1.61	13.2	4250. 4	30	VersaCem	None

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition 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 volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
3950	2448 8	OTHER : FW / Cut Brine / Pol <u>y</u> mer	10	10.3							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
0	1170	OTHER : FW/Native	8.4	8.8							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Page 4 of 6

Operator Name: XTO PERMIAN OPERATING LLC Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

·												,
	Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (Ibs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
•	1170	3950	OTHER : Brine/Gel Sweeps	9.8	10.2							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Section 6 - Test, Logging, Coring

List 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,GR,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5629

Anticipated Surface Pressure: 3122.32

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geoharzards description:

The necessary mud products for weight addition and fluid loss control will be on location at all times. 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. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

Hydrogen sulfide drilling operations plan:

PLU_29_BS_H2S_Plan_20181206110957.pdf PLU_29_BS_H2S_Pad_2_20181210133157.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_29_BS_903H_DD_20181212132638.pdf

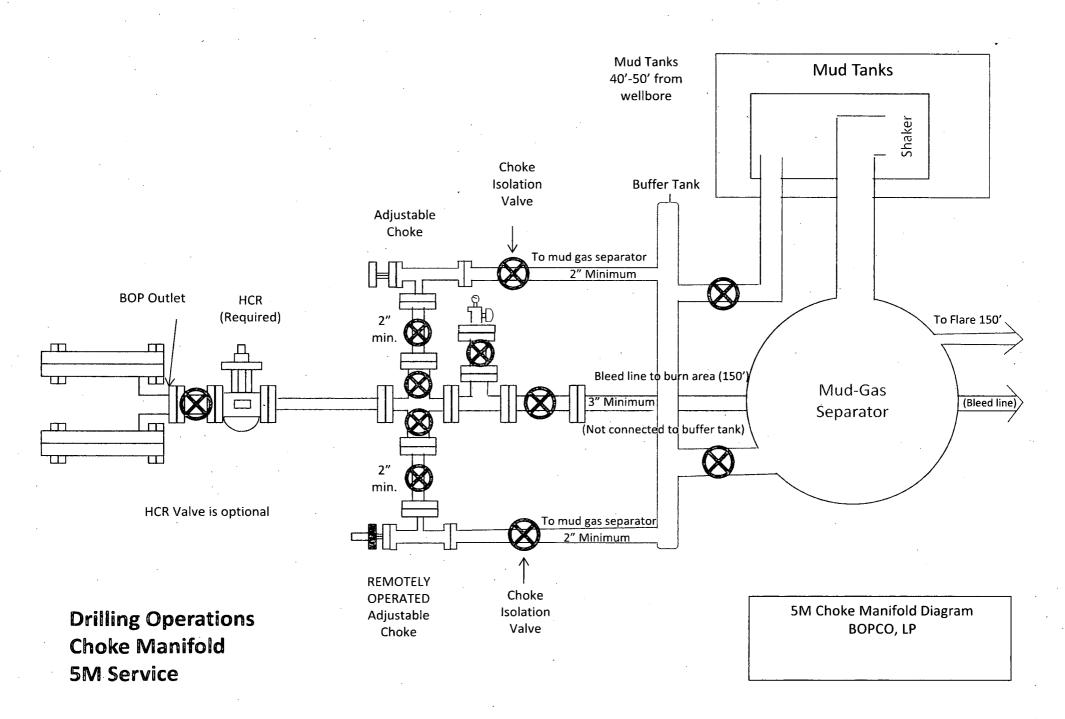
Other proposed operations facets description:

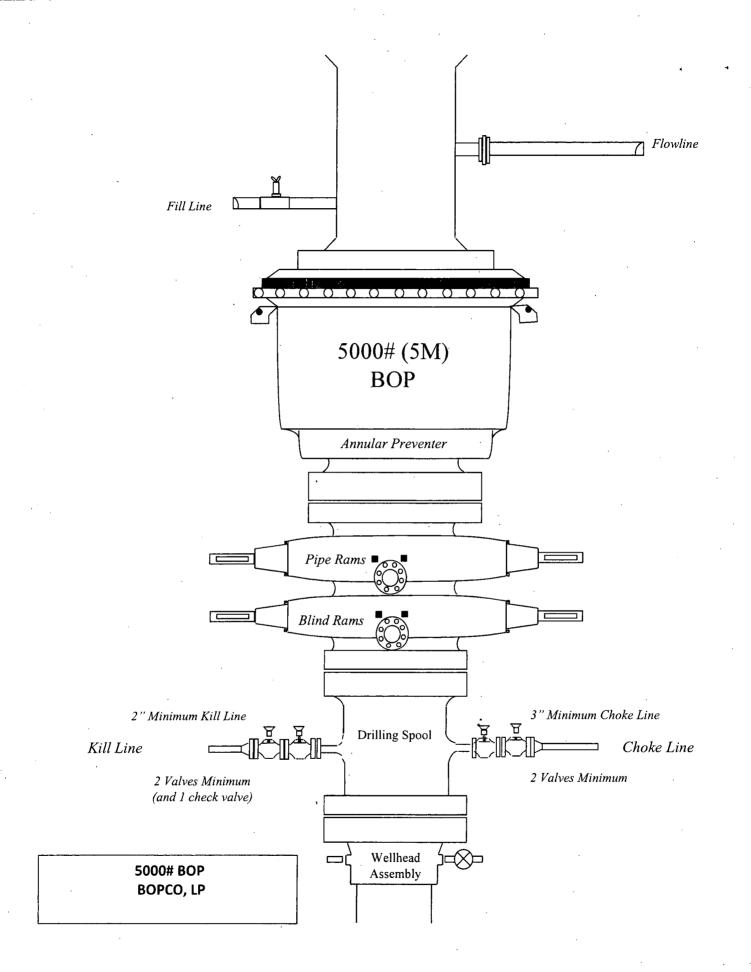
Other proposed operations facets attachment:

PLU_29_BS_903H_GCPE_20181212132655.pdf PLU_29_BS_903H_GCPW_20181212132704.pdf

Other Variance attachment:

PLU_29_BS_FH_20181206111143.pdf





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BOPCO, LP

Poker Lake Unit 29 Big Sinks 701H Projected TD: 23272' MD / 10183' TVD SHL: 2310' FNL & 600' FWL , Section 29, T25S, R31E BHL: 200' FSL & 330' FWL , Section 5, T26S, R31E Eddy County, NM

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1170'	13-3/8"	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4"	0' – 3950'	9-5/8"	36#	LTC	J-55	New	1.26	1.63	3.19
8-3/4"	0' - 23272'	5-1/2"	1 ['] 7#	BTC	P-110	New	1.12	1.48	2.14

Casing Worksheet

BOPCO, LP

Poker Lake Unit 29 Big Sinks 701H Projected TD: 23272' MD / 10183' TVD SHL: 2310' FNL & 600' FWL , Section 29, T25S, R31E BHL: 200' FSL & 330' FWL , Section 5, T26S, R31E Eddy County, NM

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
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12-1/4"	0' – 3950'	9-5/8"	36#	LTC	J-55	New	1.26	1.63	3.19
8-3/4"	0' – 23272'	5-1/2"	17#	BTC	P-110	New	1.12	1.48	2.14

Casing Worksheet

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2 ^{**}	0' - 1170	13-3/8*	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4*	0' - 3950'	9-5/8″	40#	LĨC	J-55	New	1.09	2.07	3.29
8-3/4*	0' - 24465'	5-1/2*	17#	BTC	P-110	New	1.12	1.21	1. 9 8

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint. 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

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

- Wellhead will be installed by manufacturer's representatives.

· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

. Manufacturer will witness installation of test plug for initial test.

- Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

Ho	le Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension]
1	7-1/2*	0' - 1170'	13–3/8*	48#	STC	H-40	New	1.41	1.44	5.73	
- 1	2-1/4*	0' - 3950'	9-5/8*	40#	LTC	J-55	New	1.09	2.07	3.29	
8	3-3/4*	0' 24465'	51/2*	17#	BTC	P-110	New	1.12	1.21	1.98	

....

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint. 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

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

Wellhead will be installed by manufacturer's representatives.

· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

Manufacturer will witness installation of test plug for initial test.

· Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

Hole S	ze Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/	2 ²⁷ 0° – 117	0' 13-3/8*	48#	STC	H-40	New	1.41	1.44	5.73
- 12-1/	•*	0' 9-5/8"	40#	LTC	J-55	New	1.0 9	2.07	3.2 9
8-3/4	* ⁻ 0' – 2440	55' 5-1/2"	17#	BTC	P-110	New	1.12	1.21	1.98

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

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

-Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

- Manufacturer will witness installation of test plug for initial test.

· Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2*	0' - 1170'	13-3/8*	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4*	0' - 3950'	9-5/8*	40#	LTC	J-55	New	1.09	2.07	3.29
8-3/4*	0' - 24658'	5-1/2"	17#	втс	P-110	New	1.12	1.21	1.97

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

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

- Wellhead will be installed by manufacturer's representatives.

· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

- Manufacturer will witness installation of test plug for initial test.

- Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2*	0' – 1170'	13-3/8*	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4° -	0' - 3950'	9-5/8*	40#	LTC	J-55	New	1.09	2.07	3.29
8-3/4*	0' - 2 46 58'	51/2*	17#	BTC	P-110	New	1.12	1.21	1.97

· XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange - Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 Manufacturer will witness installation of test plug for initial test.
 Operator will test the 9-5/8° casing to 70% of casing burst before drilling out.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2*	0' - 1170'	133/8*	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4*	0' - 3 9 50'	9-5/8*	40#	LTC	J-55	New	1.09	2.07	3.29
8-3/4*	0' - 24855'	5-1/2*	17#	BTC	P-110	New	1.12	1.21	1.96

XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

A. Starting Head: 13-5/8° 5M top flange x 13-3/8° SOW bottom B. Tubing Head: 13-5/8° 5M bottom flange x 7-1/16° 10M top flange Wellhead will be installed by manufacturer's representatives.

Manufacturer will monitor welding process to ensure appropriate temperature of seal.

Manufacturer will witness installation of test plug for initial test.

Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

Poker Lake Unit 29 Big Sinks 102H Projected TD: 24577' MD / 11486' TVD SHL: 2310' FNL & 720' FWL , Section 29, T25S, R31E BHL: 200' FSL & 990' FWL , Section 5, T26S, R31E

Eddy County, NM

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used		SF Collapse	SF Tensior
17-1/2"	• 0' – 1170'	13-3/8"	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4"	0' – 3950'	· 9-5/8"	40#	LTC	J-55	New	1.09	2.07	3.29
8-3/4"	0' – 24577'	5-1/2"	17#	втс	P-110	New	1.12	1.21	1.97

Casing Worksheet

Poker Lake Unit 29 Big Sinks 102H Projected TD: 24577' MD / 11486' TVD SHL: 2310' FNL & 720' FWL , Section 29, T25S, R31E BHL: 200' FSL & 990' FWL , Section 5, T26S, R31E

Eddy County, NM

			Casi	ing worksin	cel				
Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1170'	13-3/8"	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4"	0' – 3950' .	9-5/8"	40#	LTC	J-55	New	1.09	2.07	3.29
8-3/4"	0' – 24577'	5-1/2"	17#	BTC	P-110	New	1.12	1.21	1.97

Casing Worksheet

BOPCO, LP

Poker Lake Unit 29 Big Sinks 703H Projected TD: 23290' MD / 10197' TVD SHL: 2310' FNL & 1920' FWL , Section 29, T25S, R31E BHL: 200' FSL & 1650' FWL , Section 5, T26S, R31E Eddy County, NM

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' 1170'	13-3/8"	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4"	0' – 3950'	9-5/8"	36#	LTC	· J-55	New	1.26	1.63	3.19
8-3/4"	0' – 23290'	5-1/2"	17#	BTC	P-110	New	1.12	1.48	2.14

Casing Worksheet

BOPCO, LP

Poker Lake Unit 29 Big Sinks 703H Projected TD: 23290' MD / 10197' TVD SHL: 2310' FNL & 1920' FWL , Section 29, T25S, R31E BHL: 200' FSL & 1650' FWL , Section 5, T26S, R31E Eddy County, NM

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1170'	13-3/8"	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4"	0' - 3950'	9-5/8"	36#	· LTC	J-55	New	1.26	1.63	3.19
8-3/4"	0' – 23290'	5-1/2"	17#	BTC	P-110	New	1.12	1.48	2.14

Casing Worksheet

	Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Coliapse	SF Tension
-	17-1/2*	0' - 1170'	13-3/8*	48#	STC	H-40	New	1.41	1.44	5.73
	12-1/4"	0' - 3950'	9-5/8*	40#	LTC	J-55	New	1.09	2.07	3.29
	8-3/4*	0' - 24488'	5-1/2*	17#	BTC	P-110	New	1.12	1.21	1.98

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

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

- Wellhead will be installed by manufacturer's representatives.

- Manufacturer will monitor welding process to ensure appropriate temperature of seal.

· Manufacturer will witness installation of test plug for initial test.

· Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

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17-1/2*	0' – 1170'	13-3/8*	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4*	0' - 3950'	9-5/8*	40#	LTC	J-55	New	1.09	2.07	3.29
8-3/4*	0' - 24488'	5-1/2*	17#	BTC	P-110	New	1.12	1.21	1.98

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- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

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

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

- Wellhead will be installed by manufacturer's representatives.

· Manufacturer will monitor welding process to ensure appropriate temperature of seal.

- Manufacturer will witness installation of test plug for initial test.

· Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2*	0' - 1170'	133/8*	48#	STC	H-40	New	1.41	1.44	5.73
12-1/4*	0° - 3950'	9-5/8*	40#	LTC	J-SS	New	1.0 9	2.07	3.29
8-3/4*	0' - 24488'	5-1/2°	17#	BTC	P-110	New	1.12	1.21	1.98

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

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

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GENERAL OFFICES - MIDLAND, TEXAS

BOPCO, L.P. 6401 Holiday Hill Road Midland, Tx 79707 (432) 683-2277

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.

Common Name	Chemical	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration						
	Formula										
Hydrogen Sulfide	H₂S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm						
Sulfur Dioxide SO2 2.21 Air = I 2 ppm N/A 1000 ppm											

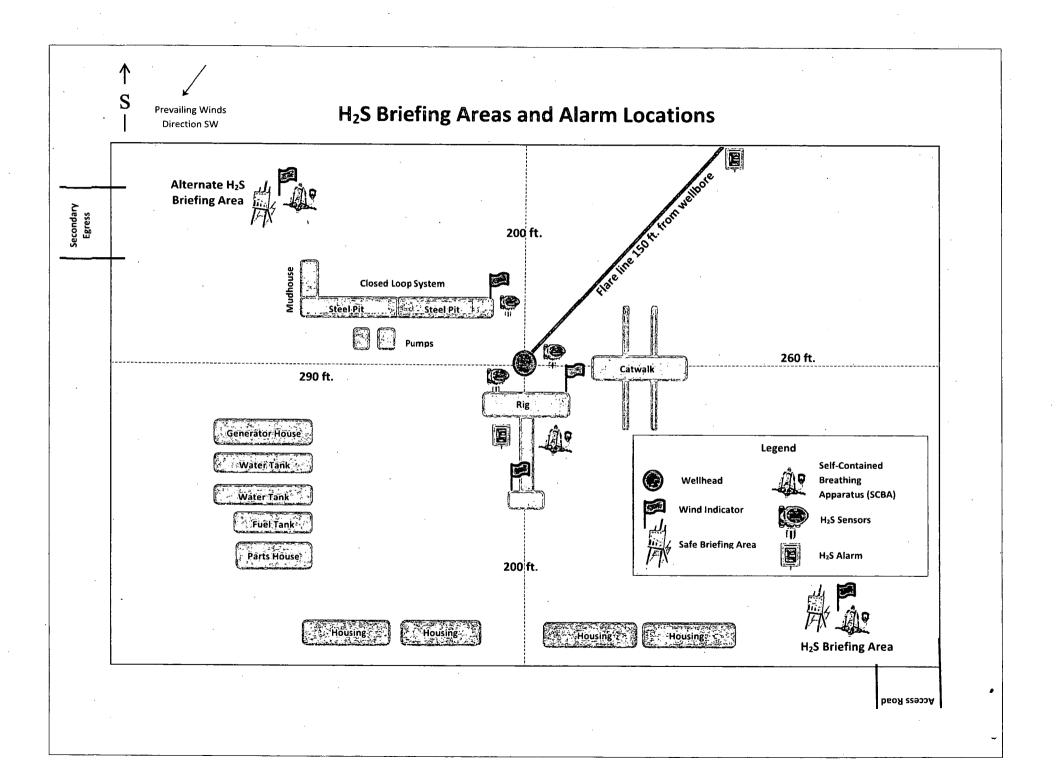
Characteristics of H₂S and SO₂

Contacting Authorities

BOPCO, L.P. 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
· · · · · · · · · · · · · · · · · · ·	
BOPCO, L.P. 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 DEPÁRTMENTS:	911
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS:	911
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS:	
For Lea County:	
Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161
For Eddy County:	
Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283





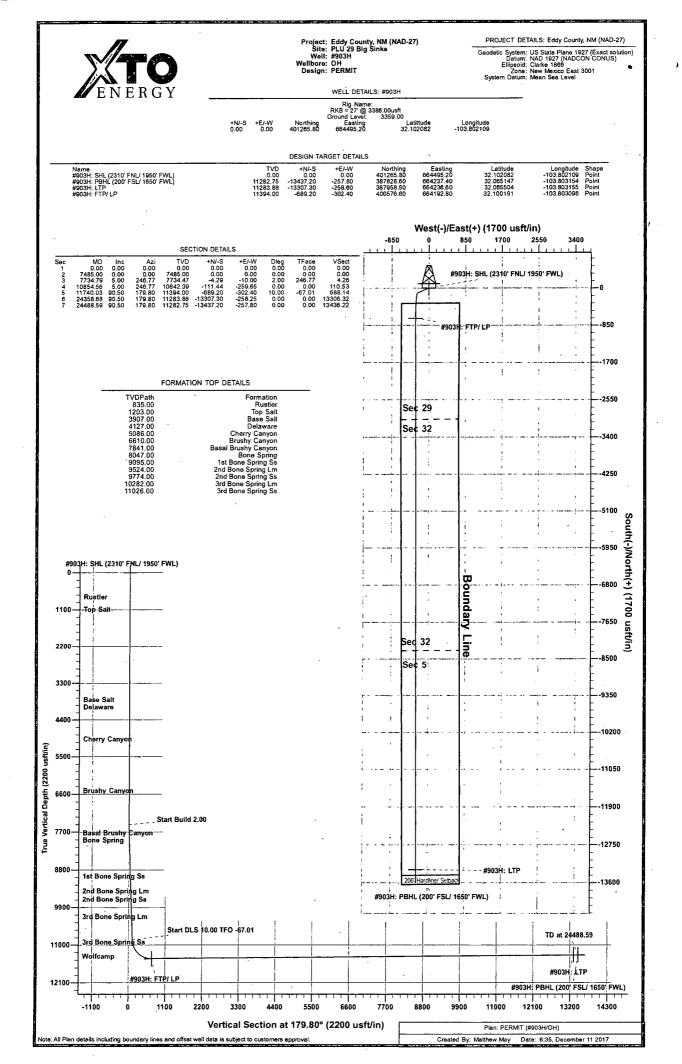
XTO Energy Eddy County, NM (NAD-27) PLU 29 Big Sinks #903H

OH

Plan: PERMIT

Standard Planning Report

11 December, 2017





www.prototypewellplanning.com Planning Report

Company: XTO Energy Project: Eddy Cour Site: PLU 29 Big Well: #903H Wellibore: OH Design: PERMIT Project Eddy Count	nty, NM (NAD-27)	Local Co-ordinate Reference TVD Reference MD Reference North Reference Survey Calculation Method	RKB = 27' @ 3386 RKB = 27' @ 3386 Grid Minimum Curvatur	5.00usft
Geo Datum: NAD 1927 (N Map Zone: New Mexico	IADCON CONUS)			
Site PLU 29 Big	Sinks		NAMES AN A CONSTRUCT OF A CONSTRUCT OF A CONSTRUCT	and a state of the
Site Position: From: Map Position Uncertainty:	Northing: Easting: 0.00 usft Slot Radius:	401,257.90 usft Latitu 663,265.10 usft Longi 13-3/16 " Grid C		32.102077 -103.806081 0.28 °
Well	o structure and some the structure and the	5-2749 NORSHIDDIG - ATTLECT-AMBRIDGEDIN	anna a staineachta (° 1, 1997). 1998 - Leonard Martin, 1, 1997).	มีสามีสะบาทศ สมมัยได้การ :
Well Position +N/-S +E/-W	7.90 usft Northing: 1,230.10 usft Easting:	401,265.80 usft 664,495.20 usft	Latitude: Longitude: Ground Level:	32.102082 -103.802109 3.359.00 usft
Position Uncertainty	0.00 usft Wellhead Elevat	ion: 0.00 usit	Ground Level:	3,359.00 USI
Wellböre: OH Magnetics: Model/N	ame Sample Date RF2015 12/8/2017	Declination () 7.00	Dip Angle (;) 59.91	Field Strength (nT), 47,793
Design	n - Charlen and		ande of a line of the state of	n an
Audit Notes:		· · · · ·		•
Version:	Phase: PL/	1.3.1. al antinistration appendix a la di a la la la la la la distriction de la la distriction de la	-	- Angene and and the star of the sector star is a sector of the sector star is a sector of the sector star is a s
Vertical Section	Depth From (TVD) (usft) 0.00	+N/S +E/W (usft) (usft) 0.00 0.00	() 179.8	
Rian Sections A Measured Depth Inclination Azin (usft)	Vertical: nuth Depth +N/Ss) (usft) (usft)			TFO: (?) When Target
0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.00 0.00	0.00
7,485.00 0.00 7,734.79 5.00	0.00 7,485.00 0.00 246.77 7,734.47 -4.29	0.00 0.00 -10.00 2.00	0.00 0.00 2.00 0.00	0.00 246.77
	246.77 10,842.39 -111.44	-259.65 0.00	0.00 0.00	0.00
	179.80 11,394.00 -689.20	-302.40 10.00	9.66 -7.56	-67.01 #903H: FTP/ LP
	179.80 11,283.88 -13,307.30	-258.25 0.00	0.00 0.00	0.00 #903H: LTP
24,488.59 90.50	179.80 11,282.75 -13,437.20	-257.80 0.00	0.00 0.00	0.00 #903H: PBHL (200'



Planning Report

A 21 JOHNAM AND	new Construction and the second and the second s
Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference : Well #903H
Company: XTO Energy	TVD Reference RKB = 27' @ 3386.00usft
Project: Eddy County, NM (NAD-27)	MD Reference: RKB = 27' @ 3386.00usft
Site: PLU 29 Big Sinks	North Reference: Grid
Well #903H	Survey Calculation Method: Minimum Curvature
Wellbore	
Design:	
NAME AND ADDRESS OF A DESCRIPTION OF A D	The second se

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth	Depth (usft)	(usft)	+E/-W (usft) +	Section (üsft)	Ratez (°/100usft) (∖⊰Rate °/100usft)	Răte (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	• 0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00 0.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
800.00 900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	.1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
. 1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	. 0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00
2,700.00 2,800.00	0.00 0.00	0.00 0.00	2,700.00 2,800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00 3,900.00	0.00 0.00	0.00 0.00	3,800.00 3,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
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
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

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Planning Report

Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #903H
Company: XTO Energy	TVD Reference:	RKB = 27' @ 3386.00usft
Project: Eddy County, NM (NAD-27)	MD Reference:	RKB = 27' @ 3386.00usft
Site: PLU 29 Big Sinks	North Reference:	Grid
Well: #903H	Survey Calculation Method:	Minimum Curvature
Wellbore: OH	ان میں ان ان میں بنیان ہوئی ہوئی ہوئی ہوئی ہوئی ہوئی ہوئی ہوئی	7
Design:		
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Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Ţurn	
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	'+E/-₩ (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	and and
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.300.00	0.00		6.300.00							
6,400.00	0.00	0.00 0.00	6,300.00 6,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	· 0.00 0.00	. 0.00 0.00	
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	
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,485.00	0.00	0.00	7.485.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,500.00	0.30	246.77	7,500.00	-0.02	-0.04	0.02	2.00	2.00	0.00	
7,600.00	2.30	246.77	7,599.97	-0.91	2.12	0.02	2.00	2.00	0.00	
		246.77								
7,700.00 7,734.79	4.30 5.00	246.77 246.77	7,699.80 7,734.47	-3.18 -4.29	-7.41 -10.00	3.15 4.26	2.00 2.00	2.00 2.00	0.00 0.00	
7,800.00	5.00	246.77	7,799.44	-6.53	-15.22	6.48	0.00	0.00	0.00	
7,900.00	5.00	246.77	7,899.06	-9.97	-23.22	9.89	0.00	0.00	0.00	
8,000.00	5.00	246.77	7,998.68	-13.40	-31.22	13.29	0.00	0.00	0.00	
8,100.00	5.00	246.77	8,098.30	-16.84	-39.23	16.70	0.00	0.00	0.00	
8,200.00	5.00	246.77	8,197.92	-20.27	-47.23	20.10	0.00	0.00	0.00	
8,300.00	5.00	246.77	8,297.54	-23.70	-55.23	23.51	0.00	0.00	0.00	
8,400.00	5.00	246.77	8,397.16	-27.14	63.23	26.92	0.00	0.00	0.00	
8,500.00	5.00	246.77	8,496.78	-30.57	-71.24	30.32	0.00	0.00	0.00	
8,600.00	5.00	246.77	8,596.40	-34.01	-79.24	33.73	0.00	0.00	0.00	
8,700.00	5.00	246.77	8,696.02	-37.44	-87.24	37.14	0.00	0.00	0.00	
8,800.00	5.00	246.77	8,795.64	-40.88	-95.24	40.54	0.00	0.00	0.00	
8,900.00	5.00	246.77	8,895.26	-44.31	-103.24	43.95	0.00	0.00	0.00	
9,000.00	5.00	246.77	8,994.88	-47.74	-111.25	43.95	0.00	0.00	0.00	
9,100.00	5.00	246.77	9,094.88 9,094.50	-51.18	-119.25	47.30 50.76	0.00	. 0.00	0.00	
9,200.00	5.00	246.77	9,094.50	-51.18	-119.25	50.76 54.17	0.00	0.00	0.00	
			-							
9,300.00	5.00	246.77	9,293.74	-58.05	-135.25	57.58	0.00	0.00	0.00	
9,400.00	5.00	246.77	9,393.36	-61.48	-143.26	60.98	0.00	0.00	0.00	
9,500.00	5.00	246.77	9,492.98	-64.92	-151.26	64.39	0.00	0.00	0.00	
9,600.00	5.00	246.77	9,592.60	-68.35	-159.26		0.00	0.00	0.00	
9,700.00	5.00	246.77	9,692.22	-71.79	-167.26	· 71.20	0.00	0.00	0.00	
9,800.00	5.00	246.77	9,791.84	-75.22	-175.26	74.61	0.00	0.00	0.00	
9,900.00	5.00	246.77	9,891.46	-78.65	-183.27	78.01	0.00	0.00	0.00	
10,000.00	5.00	246.77	9,991.08	-82.09	-191.27	81.42	0.00	0.00	0.00	
10,100.00	5.00	246.77	10,090.70	-85.52	-199.27	84.83	0.00	0.00	0.00	
10,200.00	5.00	246.77	10,190.32		-207.27				0.00	
						88.23	0.00	0.00		
10,300.00	5.00	246.77	10,289.94	-92.39	-215.28	91.64	0.00	0.00	0.00	
10,400.00	5.00	246.77	10,389.56	-95.83	-223.28	95.05	0.00	0.00	0.00	
10,500.00	5.00	246.77	10,489.18	-99.26	-231.28	98.45	0.00	0.00	0.00	

COMPASS 5000.1 Build 76



Planning Report

Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference: Well #903H
Company XTO Energy	TVD Reference: RKB = 27' @ 3386.00usft
Project Eddy County, NM (NAD-27)	MD Reference: RKB = 27' @ 3386.00usft
Site: PLU 29 Big Sinks	North Reference:
Well: #903H	Survey Calculation Method: Minimum Curvature
Wellbore: OH	na se
Design:	
And a second	

Planned Survey

Planned Survey								Carlo in Praces	
Measured:			Vertical			Vertical	Dogleg	Build	Turn
	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section		Rate	Rate
1 X 4 X X X X X X X X X X X X X X X X X	[#]	(°) ^v	(usft)	(ùsft)	(usft)	(usft)	(°/100usft) ((°/100usft)
10,600.00	5.00	246.77	10,588.80	-102.70	-239.28	101.86	0.00	0.00	0.00
10,700.00	5.00	246.77	10,688.42	-106.13	-247.28	105.27	0.00	0.00	0.00
10,800.00	5.00	246.77	10,788.04	-109.56	-255.29	108.67	0.00	0.00	0.00
10,854.56	5.00	246.77	10,842.39	-111.44	-259.65	110.53	0.00	0.00	0.00
10,900.00	7.96	214.97	10,887.55	-114.80	-263.28	113.88	10.00	6.51	-69.98
10,950.00 11,000.00	12.37 17.11	201.35 194.98	10,936.76 10,985.10	-122.63 -134.73	-267.21 -271.07	121.69 133.78	10.00 10.00	8.83 9.48	-27.25 -12.73
11,050.00 11,100.00	21.96 26.87	191.34 188.97	11,032.21 11,077.73	-151.01 -171.35	-274.81 -278.41	150.05 170.38	10.00 10.00	9.70 9.81	-7.28 -4.74
11,150.00	31.80	187.29	11,121.31	-195.59	-281.85	194.61	10.00	9.86	-4.74
11,200.00	36.75	186.02	11,162.61	-223.55	-285.09	222.56	10.00	9.90	-2.54
11,250.00	41.71	185.02	11,201.33	-255.02	-288.12	254.01	10.00	9.92	-2.01
11,300.00	46.67	184.19	11,237.17	-289.75	-290.90	288.73	10.00	9.93	-1.65
11,350.00	51.65	183.49	11,269.86	-327.48	-293.43	326.45	10.00	9.93 9.94	-1.40
11,400.00	56.62	182.88	11,299.15	-367.92	-295.67	366.89	10.00	9.94	-1.22
11,450.00	61.60	182.33	11,324.81	-410.77	-297.61	409.73	10.00	9.96	-1.09
11,500.00	66.58	181.84	11,346.65	-455.70	-299.24	454.65	10.00	9.96	-0.99
11,550.00	71.56	181.38	11,364.51	-502.37	-300.55	501.32	10.00	9.96	-0.92
11,600.00	76.54	180.94	11,378.24	-550.42	-301.52	549.36	10.00	9.97	-0.87
11,650.00	81.53	180.53	11,387.75	-599.49	-302.15	598.43	10.00	9.97	-0.83
11,700.00	86.51	180.12	11,392.96	-649.20	-302.43	648.14	10.00	9.97	-0.81
11,740.03	90.50	179.80	11,394.00	-689.20	-302.40	688.14	• 10.00	9.97	-0.80
11,800.00	90.50	179.80	11,393.48	-749.17	-302.19	748.11	0.00	0.00	0.00
11,900.00	90.50	179.80	11,392.60	-849.17	-301.84	848.11	0.00	0.00	0.00
12,000.00	90.50	179.80	11,391.73	-949.16	-301.49	948.11	0.00	0.00	0.00
12,100.00 12,200.00	90.50 90.50	179.80 179.80	11,390.86 11,389.99	-1,049.16 -1,149.15	-301.14 -300.79	1,048.10 1,148.10	0.00 0.00	0.00 0.00	0.00 0.00
			-					0.00	
12,300.00 12,400.00	90.50 90.50	179.80 179.80	11,389.11 11,388.24	-1,249.15 -1,349.15	-300.44 -300.09	1,248.09 1,348.09	0.00 0.00	0.00	0.00 0.00
12,500.00	90.50	179.80	11,387.37	-1,449.14	-299.74	1,448.09	0.00	0.00	0.00
12,600.00	90.50	179.80	11,386.50	-1,549.14	-299.39	1,548.08	0.00	0.00	0.00
12,700.00	90.50	179.80	11,385.62	-1,649.13	-299.04	1,648.08	0.00	0.00	0.00
12,800.00	90.50	179.80	11,384.75	-1,749.13	-298.69	1,748.07	0.00	0.00	0.00
12,900.00	90.50	179.80	11,383.88	-1,849.12	-298.34	1,848.07	0.00	0.00	0.00
13,000.00	90.50	179.80	11,383.01	-1,949.12	-297.99	1,948.07	0.00	0.00	0.00
13,100.00	90.50	179.80	11,382.13	-2,049.11	-297.64	2,048.06	0.00	0.00	0.00
13,200.00	90.50	179.80	11,381.26	-2,149.11	-297.29	2,148.06	0.00	0.00	0.00
13,300.00	90.50	179.80	11,380.39	-2,249.11	-296.94	2,248.06	0.00	0.00	0.00
13,400.00	90.50	179.80	11,379.51	-2,349.10	-296.59	2,348.05	0.00	0.00	0.00
13,500.00 13,600.00	90.50 90.50	179.80 179.80	11,378.64	-2,449.10	-296.24	2,448.05	0.00	0.00 0.00	0.00
13,700.00	90.50 90.50	179.80	11,377.77 11,376.90	-2,549.09 -2,649.09	-295.89 -295.54	2,548.04 2,648.04	0.00 0.00	0.00	0.00 0.00
13,800.00	90.50	179.80	11,376.02	-2.749.08	-295.19	2,748.04	0.00	0.00	0.00
13,900.00	90.50	179.80	11,375.15	-2,849.08	-295.19	2,848.03	0.00	0.00	0.00
14,000.00	90.50	179.80	11,374.28	-2,949.07	-294.49	2,948.03	0.00	0.00	0.00
14,100.00	90.50	179.80	11,373.41	-3,049.07	-294.14	3,048.03	0.00	0.00	0.00
14,200.00	90.50	179.80	11,372.53	-3,149.07	-293.79	3,148.02	0.00	0.00	0.00
14,300.00	90.50	179.80	11,371.66	-3,249.06	-293.44	3,248.02	0.00	0.00	0.00
14,400.00	90.50	179.80	11,370.79	-3,349.06	-293.09	3,348.01	0.00	0.00	0.00
14,500.00	90.50	179.80	11,369.92	-3,449.05	-292.74	3,448.01	0.00	0.00	0.00
14,600.00	90.50	179.80	11,369.04	-3,549.05	-292.39	3,548.01	0.00	0.00	0.00
14,700.00	90.50	179.80	11,368.17	-3,649.04	-292.04	3,648.00	0.00	0.00	0.00
14,800.00	90.50	179.80	11,367.30	-3,749.04	-291.69	3,748.00	0.00	0.00	0.00
14,900.00	90.50	179.80	11,366.42	-3,849.04	291.35	3,847.99	0.00	0.00	0.00
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COMPASS 5000.1 Build 76

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ENERGY

www.prototypewellplanning.com Planning Report

Company: Proječt: Site: Well: Wellborg: C	DM 5000.1 S (TO Energy Eddy County, PLU 29 Big Sil (903H DH PERMIT	NM (NAD-27		(TVD R MD Re North	Co-ordinate eference ference Reference y Calculation		Well #903H RKB = 27' @ 3 RKB = 27' @ 3 Grid Minimum Curv	3386.00usft	
Planned Survey Measured Depth In (usft)	clination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (?/100usft); , (?/		Turn Rate 7/100usft)
15,000.00 15,100.00 15,200.00	90.50 90.50 90.50	179.80 179.80 179.80	11,365.55 11,364.68 11,363.81	-3,949.03 -4,049.03 -4,149.02	-291.00 -290.65 -290.30	3,947.99 4,047.99 4,147.98	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
15,300.00 15,400.00 15,500.00 15,600.00 15,700.00	90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80	11,362.93 11,362.06 11,361.19 11,360.32 11,359.44	-4,249.02 -4,349.01 -4,449.01 -4,549.00 -4,649.00	-289.95 -289.60 -289.25 -288.90 -288.55	4,247.98 4,347.98 4,447.97 4,547.97 4,647.96	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
15,800.00 15,900.00 16,000.00 16,100.00 16,200.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80	11,358.57 11,357.70 11,356.83 11,355.95 11,355.08	-4,749.00 -4,848.99 -4,948.99 -5,048.98 -5,148.98	-288.20 -287.85 -287.50 -287.15 -286.80	4,747.96 4,847.96 4,947.95 5,047.95 5,147.95	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,200.00 16,400.00 16,500.00 16,600.00 16,600.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,353.00 11,353.33 11,352.46 11,351.59 11,350.72	-5,248.97 -5,348.97 -5,448.96 -5,548.96 -5,648.96	-286.80 -286.45 -286.10 -285.75 -285.40 -285.05	5,247.94 5,347.94 5,447.93 5,547.93 5,647.93	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,800.00 16,900.00 17,000.00 17,100.00 17,200.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,349.84 11,348.97 11,348.10 11,347.23 11,346.35	-5,748.95 -5,848.95 -5,948.94 -6,048.94 -6,148.93	-284.70 -284.35 -284.00 -283.65 -283.30	5,747.92 5,847.92 5,947.91 6,047.91 6,147.91	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,300.00 17,400.00 17,500.00 17,600.00 17,600.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,345.48 11,344.61 11,343.74 11,342.86 11,341.99	-6,248.93 -6,348.92 -6,448.92 -6,548.92 -6,648.91	-282.95 -282.60 -282.25 -281.90 -281.55	6,247.90 6,347.90 6,447.90 6,547.89 6,647.89	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,800.00 17,900.00 18,000.00 18,100.00 18,200.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,341.12 11,340.25 11,339.37 11,338.50 11,337.63	-6,748.91 -6,848.90 -6,948.90 -7,048.89 -7,148.89	-281.20 -280.85 -280.50 -280.15 -279.80	6,747.88 6,847.88 6,947.88 7,047.87 7,147.87	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,300.00 18,400.00 18,500.00 18,600.00 18,600.00 18,700.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,336.75 11,335.88 11,335.01 11,334.14 11,333.26	-7,248.88 -7,348.88 -7,448.88 -7,548.87 -7,648.87	-279.45 -279.10 -278.75 -278.40 -278.05	7,247.87 7,347.86 7,447.86 7,547.85 7,647.85	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
18,800.00 18,900.00 19,000.00 19,100.00 19,200.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,332.39 11,331.52 11,330.65 11,329.77 11,328.90	-7,748.86 -7,848.86 -7,948.85 -8,048.85 -8,148.85	-277.70 -277.35 -277.00 -276.65 -276.30	7,747.85 7,847.84 7,947.84 8,047.83 8,147.83	0:00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,300.00 19,400.00 19,500.00 19,600.00 19,600.00 19,700.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,328.03 11,327.16 11,326.28 11,325.41 11,324.54	-8,248.84 -8,348.84 -8,448.83 -8,548.83 -8,548.83 -8,648.82	-275.95 -275.60 -275.25 -274.90 -274.55	8,247.83 8,347.82 8,447.82 8,547.82 8,647.81	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
19,800.00 19,900.00 20,000.00 20,100.00 20,200.00	90.50 90.50 90.50 90.50 90.50 90.50	179.80 179.80 179.80 179.80 179.80 179.80	11,323.66 11,322.79 11,321.92 11,321.05 11,320.17	-8,748.82 -8,848.81 -8,948.81 -9,048.81 -9,148.80	-274.20 -273.85 -273.50 -273.15 -272.80	8,747.81 8,847.80 8,947.80 9,047.80 9,147.79	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 , 0.00 0.00 0.00 0.00 0.00
20,300.00	90.50	179.80	11,319.30	-9,248.80	-272.45	9,247.79	0.00	0.00	0.00

COMPASS 5000.1 Build 76



Planning Report

MANANE AND	
D LEAST 14 B EDM 5000 1 Single Lloor Db	Local Co-ordinate Reference: Well #903H
Database EDM 5000.1 Single User Db	A THE REAL PROPERTY AND A THE REAL
Company: XTO Energy	TVD Reference: RKB = 27' @ 3386.00usft
Project: Eddy County, NM (NAD-27)	MD Reference: RKB = 27' @ 3386.00usft
Site: PLU 29 Big Sinks	North Reference
Well: #903H	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design	
A MARKET AND A STREET AND A STREET AND AN AND A STREET AND A	KUN DINANA ALIM MATANGAN ANTAN A

Planned Survey

	56 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Vertical	1. C		Vertical		Build	Turn
Measured	Inclination	Azimuth	Depth	+N/-S	≠ +E/-₩	Section	Rate	Rate	Rate
(usft)	₹.16 . (°)		(usft)	. (usft)	نين (ús ft)	(usft)	(°/100úsft). (°	/100usft) 🔔	°/100usft)
20,400.00	90.50	179.80	11,318.43	-9,348.79		9,347.79	0.00	0.00	0.00
20,500.00	90.50	179.80	11,317.56	-9,448.79		9,447.78	0.00	0.00	0.00
20,600.00	90.50	179.80	11,316.68	-9,548.78		9,547.78	0.00	0.00	0.00 0.00
20,700.00	90.50	179.80	11,315.81	-9,648.78		9,647.77	0.00	0.00	•
20,800.00	90.50	179.80	11,314.94	-9,748.77		9,747.77	0.00	0.00	0.00
20,900.00	90.50 90.50	179.80 179.80	11,314.07 11,313.19	-9,848.77 -9,948.77		9,847.77 9,947.76	0.00 0.00	0.00 0.00	0.00 0.00
21,000.00	90.50	179.80	11.312.32			10.047.76	0.00	0.00	0.00
21,200.00	90.50	179.80	11,311.45	-10,148.76		10,147.76	0.00	0.00	0.00
21,300.00	90.50	179.80	11,310.57	-10,248.75	-268.96	10,247.75	0.00	0.00	0.00
21,400.00	90.50	179.80	11,309.70			10,347.75	0.00	0.00	0.00
21,500.00	90.50	179.80	11,308.83	-10,448.74		10,447.74	0.00	0.00	0.00
21,600.00	90.50	179.80 179.80	11,307.96 11,307.08	-10,548.74 -10,648.73		10,547.74 10,647.74	0.00 0.00	0.00 0.00	0.00 0.00
21,700.00	90.50		,			,			
21,800.00 21,900.00	90.50 90.50	179.80 179.80	11,306.21 11,305.34	-10,748.73 -10,848.73		10,747.73 10,847.73	0.00 0.00	0.00 0.00	0.00 0.00
22,000.00	90.50	179.80	11.304.47			10,847.73	0.00	0.00	0.00
22,100.00	90.50	179.80	11,303.59			11,047.72	0.00	0.00	0.00
22,200.00	90.50	179.80	11,302.72	-11,148.71	-265.81	11,147.72	0.00	0.00	0.00
22,300.00	90.50	179.80	11,301.85	-11,248.71		11,247.71		0.00	0.00
22,400.00	90.50	179.80	11,300.98	-11,348.70		11,347.71	0.00	0.00	0.00
22,500.00	90.50 90.50	179.80 179.80	11,300.10 11,299.23	-11,448.70 -11,548.70		11,447.71 11,547.70	0.00 0.00	0.00 0.00	0.00 0.00
22,000.00	90.50	179.80	11,298.36	-11,648.69		11,647.70	0.00	0.00	0.00
22,800.00	90.50	179.80	11,297,48	-11,748.69	-263.71	11,747.69	0.00	0.00	0.00
22,900.00	90.50	179.80	11,296.61	-11,848.68		11,847.69	0.00	0.00	0.00
23,000.00	90.50	179.80	11,295.74			11,947.69	0.00	0.00	0.00
23,100.00		179.80 179.80	11,294.87	-12,048.67		12,047.68	0.00	0.00 0.00	0.00 0.00
23,200.00	90.50		11,293.99	-12,148.67		12,147.68	0.00		
23,300.00 23,400.00	90.50 90.50	179.80 179.80		-12,248.66 -12,348.66		12,247.68 12.347.67	0.00 0.00	0.00 0.00	0.00 0.00
23,500.00	90.50	179.80	11,291.38	-12,448.66		12,447.67	0.00	0.00	0.00
23,600.00	90.50	179.80	11,290.50	-12,548.65		12,547.66	0.00	0.00	0.00
23,700.00	90.50	179.80	11,289.63	-12,648.65	-260.56	12,647.66	0.00	0.00	0.00
23,800.00	90.50	179.80	11,288.76	-12,748.64		12,747.66	0.00	0.00	0.00
23,900.00	90.50 90.50	179.80 179.80	11,287.89 11,287.01	-12,848.64 -12,948.63		12,847.65 12,947.65	0.00 0.00	0.00 0.00	0.00 0.00
24,000.00 24,100.00	90.50 90.50	179.80	11,287.01	-12,948.63		12,947.65	0.00	0.00	0.00
24,100.00	90.50	179.80	11,285.27	-13,148.62	-258.81	13,147.64	0.00	0.00	0.00
24,300.00	90.50	179.80	11,284.40	-13,248.62	-258.46	13,247.64	0.00	0.00	0.00
24,358.68	90.50	179.80	11,283.88	-13,307.30	-258.25	13,306.32	0.00	0.00	0.00
24,400.00	90.50	179.80	11,283.52	-13,348.62	-258.11	13,347.63	0.00	0.00	0.00
24,488.59	90.50	179.80	11,282.75	-13,437.20	-257.80	13,436.22	0.00	0.00	0.00



www.prototypewellplanning.com Planning Report

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Company: XTO I Project: Eddy				TVD Refer MD Refere North Refe	nce:	RKB = 27' (RKB = 27' (Grid	@ 3386.00usft @ 3386.00usft	
Design Targets			**********************					
Target Name hitmiss target _/Dip./ - Shape	Nigle، Dip Dii ۱)		+N/-S (usft)	+E/-₩ (usft)	Northing (usft)	Easting (usft)	Latitùde	. Longitude
#903H: SHL (2310' Ft - plan hits target center - Point	0.00 0.0	0.00	0.00	0.00	401,265.80	664,495.20	32.102082	-103.802109
#903H: PBHL (200' F: - plan hits target center - Point	0.00 0.0	00 11,282.75	-13,437.20	-257.80	387,828.60	664,237.40	32.065147	-103.803155
#903H: LTP - plan misses target cen - Point		00 11,283.88 at 24358.68u		-258.60 3.88 TVD, -1	387,958.50 3307.30 N, -258	664,236.60 .25 E)	32.065504	-103.803155
#903H: FTP/ LP - plan hits target center - Point	0.00 0.0	0 11,394.00	-689.20	-302.40	400,576.60	664,192.80	32.100191	-103.803096
Ecrmations Measured Depth (usft)	Vêrtiçal Depth		Name' 3		Lithol	Di		
835.00	835.00							
1,203.00		Top Salt						
3,907.00		Base Salt						
4,127.00	4,127.00		~~					
5,086.00 6,610.00		Cherry Cany Brushy Cany					×	
7,841.72	7,841.00							
8,048.51	,	Bone Spring						
9,100.50		1st Bone Spi						:
9,531.14		2nd Bone Sp	•					
9,782.09		2nd Bone Sp	0					
0,102.00								
10,292.03	10,282.00	3rd Bone Sp	ring Lm					

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Submit Original to Appropriate District Office

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

GAS CAPTURE PLAN

Date: 1/19/18

⊠ Original

Operator & OGRID No.: BOPCO, LP [260737]

□ Amended - Reason for Amendment:____

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

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

Well(s)/Production Facility - Name of facility: Poker Lake Unit 29 BS East CTB

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

Well Name	API	Well Location	Footages	Expected	Flared or	Comments
		(ULSTR)		MCF/D	Vented	
Poker Lake Unit 29 BS 701H		E-29-258-31E	2310' FNL & 600' FWL	3100	Flared/Sold	
Poker Lake Unit 29 BS 901H		E-29-25S-31E	2310' FNL & 630' FWL	2700	Flared/Sold	
Poker Lake Unit 29 BS 121H		E-29-25S-31E	2310' FNL & 660' FWL	4700	Flared/Sold	·
Poker Lake Unit 29 BS 122H		E-29-25S-31E	2310' FNL & 690' FWL	4700	Flared/Sold	
Poker Lake Unit 29 BS 102H		E-29-25S-31E	2310' FNL & 720' FWL	2900	Flared/Sold	
Poker Lake Unit 29 BS 703H		F-29-25S-31E	2310' FNL & 1920' FWL	3100	Flared/Sold	
Poker Lake Unit 29 BS 903H		F-29-25S-31E	2310' FNL & 1950' FWL	2700	Flared/Sold	
Poker Lake Unit 29 BS 123H		F-29-25S-31E	2310' FNL & 1980' FWL	4700	Flared/Sold	
Poker Lake Unit 29 BS 124H		F-29-25S-31E	2310' FNL & 2010' FWL	4700	Flared/Sold	
Poker Lake Unit 29 BS 104H		F-29-25S-31E	2310' FNL & 2040' FWL	2900	Flared/Sold	
Poker Lake Unit 29 BS 705H		G-29-25S-31E	2310' FNL & 2040' FEL	3100	Flared/Sold	·
Poker Lake Unit 29 BS 905H		G-29-25S-31E	2310' FNL & 2010' FEL	2700	Flared/Sold	
Poker Lake Unit 29 BS 125H		G-29-25S-31E	2310' FNL & 1980' FWL	4700	Flared/Sold	
Poker Lake Unit 29 BS 126H		G-29-25S-31E	2310' FNL & 1950' FEL	4700	Flared/Sold	
Poker Lake Unit 29 BS 106H		G-29-25S-31E	2310' FNL & 1920' FEL	2900	Flared/Sold	
Poker Lake Unit 29 BS 707H		H-29-25S-31E	2310' FNL & 720' FEL	3100	Flared/Sold	
Poker Lake Unit 29 BS 907H		H-29-25S-31E	2310' FNL & 690' FEL	2700	Flared/Sold	
Poker Lake Unit 29 BS 127H		H-29-25S-31E	2310' FNL & 660' FEL	4700	Flared/Sold	
Poker Lake Unit 29 BS 128H		H-29-25S-31E	2310' FNL & 630' FEL	4700	Flared/Sold	· · · ·
Poker Lake Unit 29 BS 108H		H-29-25S-31E	2310' FNL & 600' FWL	2900	Flared/Sold	

Gathering System and Pipeline Notification

Well(s), will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Enlink</u> and will be connected to <u>Enlink</u> low/high pressure gathering system located in <u>Loving</u> County, Texas. It will require <u>233.43'</u> of pipeline to connect the facility to low/high pressure gathering system. <u>BOPCO</u> provides (periodically) to <u>Enlink</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>BOPCO</u> and <u>Enlink</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>Enlink</u> Processing Plant located in <u>Block 27</u>, <u>Sec. 4</u>, <u>Loving</u> County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

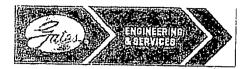
After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>Enlink</u> system at that time. Based on current information, it is <u>BOPCO'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
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



GATES E & S NORTH AMERICA, INC DU-TEX 134 44TH STREET CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: crpe&s@gates.com WEB: www.gates.com

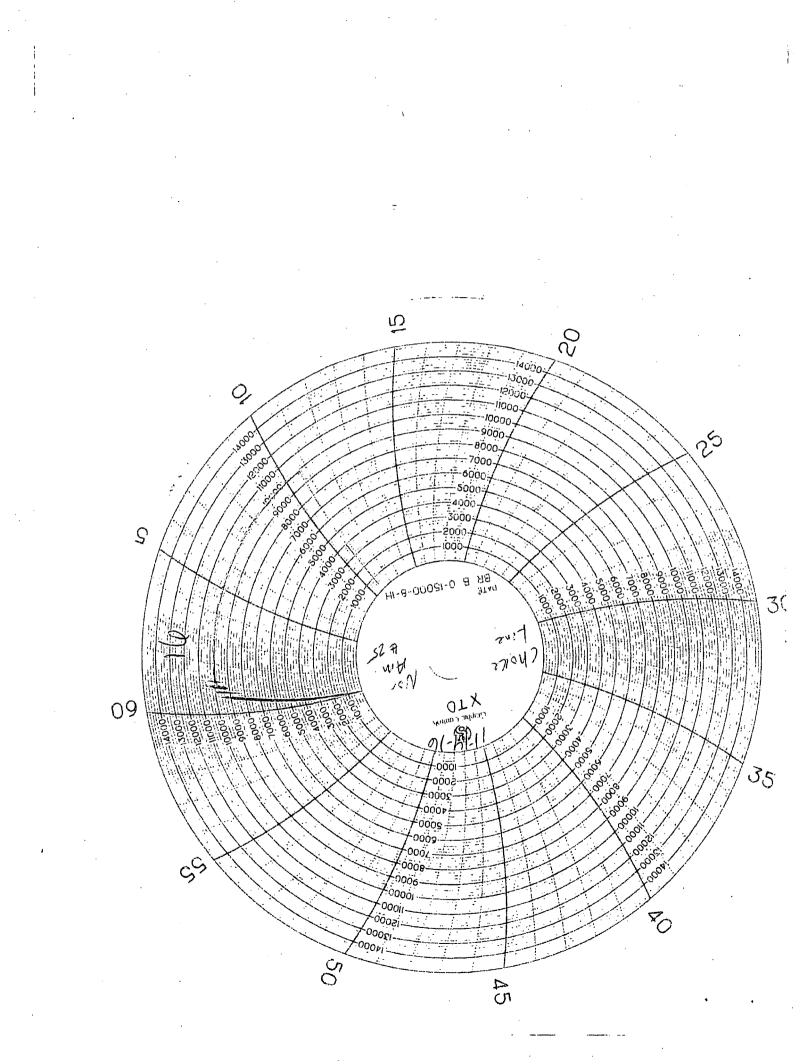
GRADE D PRESSURE TEST CERTIFICATE

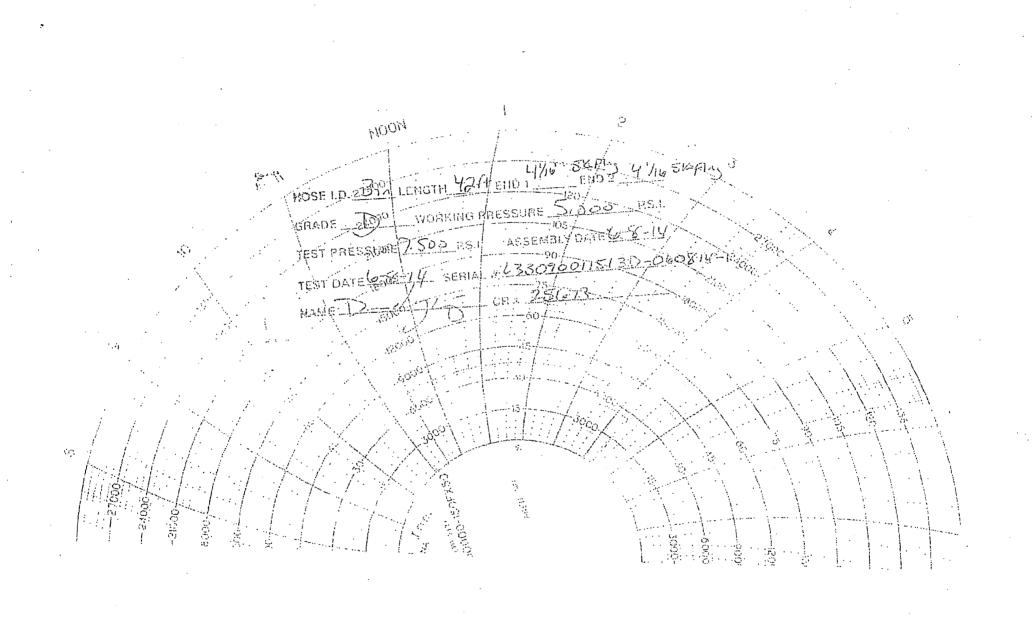
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/S/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-050814-1
Invorce No. :	201709	Croated By:	NORI4A
Product Description:	•	FD3.042.0R41/16.5KFLGE/E	LE
End Filling 1 :	4 1/16 m.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gâtes Part No. :	4774-6001	Assembly Code :	

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.

	/		
dalty; are . pnature :	QUALITY // . 6/8/2014]// //////////////////////////////////	Technical Supervisor : Date : Signature :	PRODUCTION 5/8/2014

Form PTC - 01 Rev.0 2







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

APD ID: 10400037216

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 29 BS

Submission Date: 01/08/2019

Well Number: 903H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PLU_29_BS_903H_Road_20181212132732.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:

PLU_29_BS_Road_20181206111358.pdf

New road type: RESOURCE

Length: 6234.91 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: POKER LAKE UNIT 29 BS

Well Number: 903H

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: The Poker Lake Unit 29 Big Sinks area is accessed by existing U.S. Hwy 128 and Buck Jackson Road approximately 4.5 miles to the intersection with Buckthorn Road. Turn left approximately 9 miles. Road heads South, then West to intersection with Buck Jackson Rd. Turn left approximately .5 miles. The proposed road and locations are to the east. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.' There are no existing access roads to the proposed Poker Lake Unit 29 Big Sinks well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed. The project is located approximately 27 miles to the town of Loving, New Mexico.

Number of access turnouts: 0

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:

Well Number: 903H

PLU_29_BS_1_Mile_20181206111600.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Two 600' x 600' pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The pads are located in Section 29-T25S-R31E NMPM, Eddy County, NM. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. In the event the wells are found productive, 20-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the PLU 29 BS East CTB and the PLU 29 BS West CTB where the oil, gas, and water will be metered and separated. If XTO Permian Operating, LLC. decides to run surface lines, 20-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed CTBs. An additional 20-22" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 6,165.04' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached. A gas purchaser has been identified. Two 110' corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 29 BS East CTB and the PLU 29 BS West CTB. XTO Permian Operating, LLC. will be installing the line with anticipated risers located on the CTB. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. PLU 29 BS East GSL Approx. Length: 252.19'. PLU 29 BS West GSL Approx. Length: 233.43'. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. There will 2 flares associated with the Poker Lake Unit 29 BS project. The flare stacks will be 50'x50'. 1 will be located on the PLU 29 BS East CTB. 1 will be located on the PLU 29 BS West CTB. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment. Containment berms 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. All electrical poles and lines will be placed within existing and proposed lease roads corridors. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 6652.94' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. **Production Facilities map:**

PLU_29_BS_FL_20181206111740.pdf PLU_29_BS_GS_20181206111759.pdf PLU_29_BS_WCTB_20181206111719.pdf PLU_29_BS_ECTB_20181206111708.pdf PLU_29_BS_OHE_20181206111820.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

/ell Name: POKER LAKE UNIT 29 BS Well Num	nber: 903H
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type: Fresh Water; in Section 6, T25S-R29E	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT, PRIVATE CONTRACT, PRIVATE CONTRACT Source land ownership: FEDERAL	
Water source transport method: TRUCKING,TRUCKING,TRUCKIN	IG
Source transportation land ownership: FEDERAL	
Water source volume (barrels): 335000	Source volume (acre-feet): 43.179188
Source volume (gal): 14070000	· · ·
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type: Fresh Water; Section 27, T25S-R30E	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT,PRIVATE CONTRACT,PRIVATE CONTRACT,PRIVATE CONTRACT Source land ownership: FEDERAL	
Water source transport method: TRUCKING,TRUCKING,TRUCKING,TRUCKING Source transportation land ownership: FEDERAL	
Water source volume (barrels): 335000 🧃	Source volume (acre-feet): 43.179188
Source volume (gal): 14070000	

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 anticipated pit in Section 7 by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Texas Pacific Water Resources Water for drilling, completion and dust control will be supplied by Texas Pacific Water Resources for sale to XTO. from Section 27, T25S-R30E, Eddy County, New Mexico. In the event that Texas Pacific Water Resources does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Intrepid Potash Company with the location of the water being in Section 6, T25S-R29E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections. New water well? NO.

Well Name: POKER LAKE UNIT 29 BS

	New Water Well In	ıfo	j	· · · ·
v	Vell latitude:	Well Longi	tude:	Well datum:
۷	Vell target aquifer:			
Ē	st. depth to top of aquifer(ft):		Est thickness of	f aquifer:
A	quifer comments:			
A	quifer documentation:	. *		
We	ll depth (ft):	W	ell casing type:	
We	Il casing outside diameter (in.):	Ŵ	ell casing inside	e diameter (in.):
Nev	w water well casing?	U	sed casing sour	ce:
Dril	lling method:	D	rill material:	
Gro	out material:	G	rout depth:	
Cas	sing length (ft.):	C	asing top depth	(ft.):
We	Il Production type:	C	ompletion Metho	od:
Wa	ter well additional information:			·
Sta	te appropriation permit:			
Ado	ditional information attachment:			

Section 6 - Construction Materials

Construction Materials description: 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. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche. Anticipated Caliche Locations: Pit 1: Federal Caliche Pit, Section 17-T25S-R30E Pit 2: Federal Caliche Pit, Section 34-T25S-R29E **Construction Materials source location attachment**:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel mud pits

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY

Disposal location ownership: COMMERCIAL

Disposal type description:

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

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

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

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

Safe containmant attachment:

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

Disposal type description:

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

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

Disposal type description:

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

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

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

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 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: POKER LAKE UNIT 29 BS

Well Number: 903H

Section 9 - Well Site Layout

Well Site Layout Diagram:

PLU_29_BS_903H_Layout_20181212132946.pdf

Comments: This is a multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: POKER LAKE UNIT 29 BS

Multiple Well Pad Number: 2

Recontouring attachment:

PLU_29_BS_Pad_4_Rec_20181206112331.pdf

PLU_29_BS_Pad_2_Rec_20181206112307.pdf

PLU_29_BS_Pad_1_Rec_20181206112255.pdf

PLU_29_BS_Pad_3_Rec_20181206112318.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): 20.16 Road proposed disturbance (acres): 4.29 Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance (acres): 5.48 Other proposed disturbance (acres):	Well pad interim reclamation (acres): 6.68 Road interim reclamation (acres): 0 Powerline interim reclamation (acres): 0 Pipeline interim reclamation (acres): 5.48 Other interim reclamation (acres): 0	Well pad long term disturbance (acres): 13.48 Road long term disturbance (acres): 4.29 Powerline long term disturbance (acres): 0 Pipeline long term disturbance (acres): 0 Other long term disturbance (acres):
16.53 Total proposed disturbance: 46.46	Total interim reclamation: 12.16	16.53 Total long term disturbance: 34.3

Disturbance Comments:

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

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

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

Existing Vegetation at the well pad: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. **Existing Vegetation Community at the pipeline attachment**:

Existing Vegetation Community at other disturbances: Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility. Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed name:

Source name:

Seed source:

Source address:

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

	Seed Type	Pounds/Acre	
	Seed Summary		Total pounds/Acre:
Ρ	LS pounds per acre:		Proposed seeding season:
S	eed use location:		
S	eed cultivar:		
S	ource phone:		

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

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

USFS Ranger District:

Disturbance type: OTHER Describe: CTB Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

Disturbance type: OTHER Describe: Flowline Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

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:

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

USFS Ranger District:

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

Disturbance type: OTHER

Describe: Electric

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Disturbance type: NEW ACCESS ROAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office: USFWS Local Office: USFS Region: USFS Forest/Grassland:

USFS Ranger District:

Page 13 of 14

Well Name: POKER LAKE UNIT 29 BS

Well Number: 903H

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,288103 ROW – Salt Water Disposal Pipeline/Facility,288104 ROW – Salt Water Disposal ApIn/Fac-FLPMA,289001 ROW- O&G Well Pad,FLPMA (Powerline)

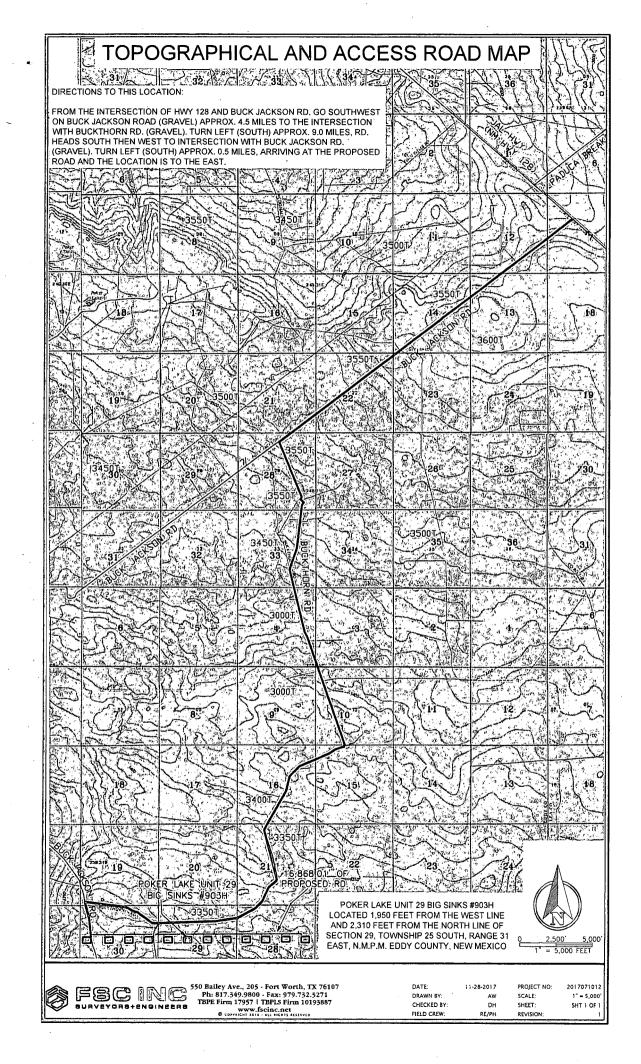
ROW Applications

SUPO Additional Information: XTO requests a variance from interim reclamation until all drilling and completion activities have been finished on the pads as these are multi-well pads where drilling and completion will be consecutive with the other wells on the pad. Once activities are completed, XTO. will coordinate interim reclamation with the appropriate BLM personnel. The proposed project is within the PA. A MOA payment has been submitted to the Bureau of Land Management. **Use a previously conducted onsite?** YES

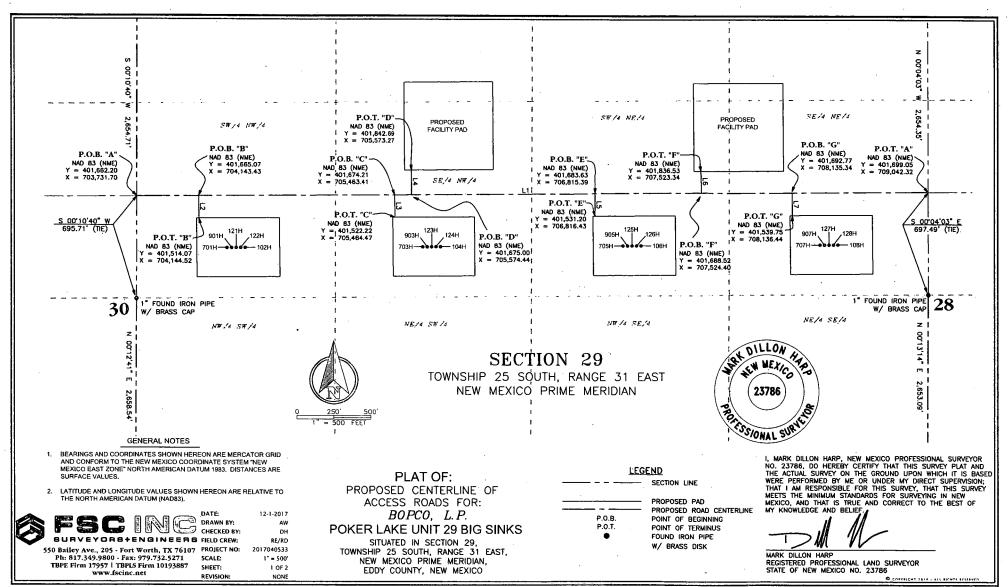
Previous Onsite information: Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake surveys with access roads have been completed with Fernando Banos, Bureau of Land Management Natural Resource Specialist in attendance.

Other SUPO Attachment

PLU_29_BS_List_20181206113655.pdf PLU_29_BS_AII_Pads_20181206113632.pdf PLU_29_BS_Cultural_Mitigation_20181210082348.pdf PLU_29_BS_Fed_SUPO_20181210133901.pdf



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LINE TABLE "A"				
BEARING	DISTANCE			
N 89'36'09" E	5310.74			
LINE TABLE "8"				
S 00'24'46" E	151.00'			
LINE TABLE "C"				
S 00°24'01" E	152.00'			
LINE TABLE "D"				
N 00'23'58" W	167.69'			
LINE TABLE "E"				
S 00'23'30" E	152.44			
LINE TABLE "F"				
N 00°24'30" W	148.02			
LINE TABLE "G"				
S 00'24'41" E	153.02			
	BEARING N N BT36'09" E LINE TABLE "C" LINE TABLE "C" LINE TABLE "C" S O0'24'46" E LINE TABLE "C" N O0'24'01" E LINE TABLE "C" N O0'23'58" W LINE TABLE "E" S OO'23'30" E LINE TABLE "F" N O0'24'30" W LINE TABLE "G"			

.

TOTAL LENGTH = 6,234.91 FEET OR 377.87 RODS

GENERAL NOTES

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

	DATE:	12-1-2017
	DRAWN 8Y:	AW
	CHECKED BY:	DH
BUAVEYOR8+ENGINEER8	FIELD CREW:	RE/RD
550 Bailey Ave., 205 - Fort Worth, TX 76107	PROJECT NO:	2017040533
Ph: 817.349.9800 - Fax: 979.732.5271	SCALE:	1" = 500'
TBPE Firm 17957 TBPLS Firm 10193887	SHEET:	2 OF 2
www.fscinc.net	REVISION:	NONE

PLAT OF: PROPOSED CENTERLINE OF ACCESS ROADS FOR: BOPCO, L.P. POKER LAKE UNIT 29 BIG SINKS SITUATED IN SECTION 29, TOWNSHIP 25 SOUTH, RANGE 31 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO

POKER LAKE UNIT 29 BIG SINKS PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 6,234.91 FEET, 377.87 RODS, OR 1.18 MILES IN LENGTH CROSSING SECTION 29, TOWNSHIP 25 SOUTH, RANGE 31 EAST N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 4.20 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SW/4 NW/4 SECTION 29 = 1,478.73 FEET = 89.62 RODS = 1.00 ACRE SE/4 NW/4 SECTION 29 = 1,647.42 FEET = 99.84 RODS = 1.11 ACRES SW/4 NE/4 SECTION 29 = 1,628.10 FEET = 98.67 RODS = 1.09 ACRES SE/4 NE/4 SECTION 29 = 1,480.66 FEET = 89.74 RODS = 1.00 ACRE

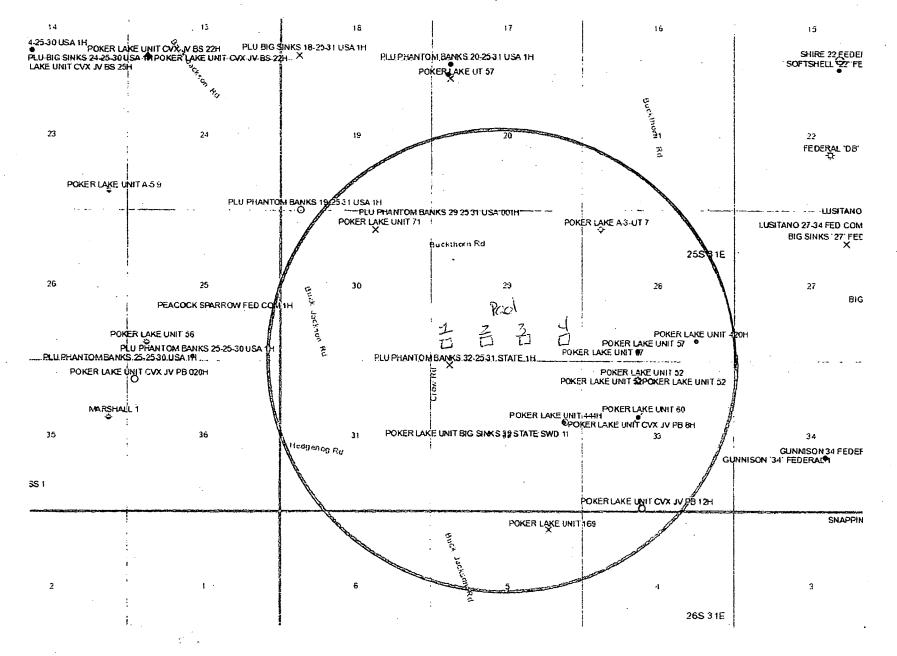


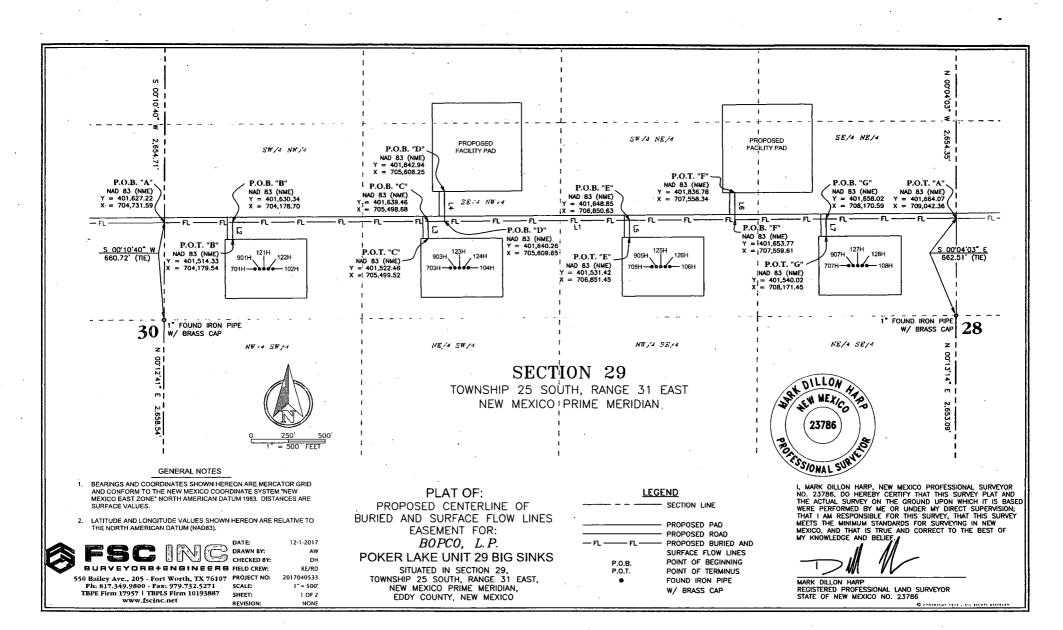
I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY MEETS. THE MINIMUM STANDARDS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

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

Poker Lake Unit 29 Big Sinks

1-Mile Radius Map





-)

LINE TABLE "A"				
LINE	BEARING	DISTANCE		
L1	N 89'36'09" E	5310.89'		
_	LINE TABLE "	3"		
12	S 00'24'55" E	116.01		
	LINE TABLE "	<u>,</u>		
13	S 00'24'53" E	117.00		
	LINE TABLE "C			
L4	N 00'23'45" W	202.69'		
	LINE TABLE "E			
ل.5	S 00°24'02" E	117.43		
LINE TABLE "F"				
L6	N 00°23'57" W	183.01		
LINE TABLE "G"				
17	S 00'25'01" E	118.01		

TOTAL LENGTH = 6,165.04 FEET OR 373.64 RODS

POKER LAKE UNIT 29 BIG SINKS PROPOSED BURIED AND SURFACE FLOW LINES DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 6,165.04 FEET, 373.64 RODS, OR 1.17 MILES IN LENGTH CROSSING SECTION 29, TOWNSHIP 25 SOUTH, RANGE 31 EAST N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 51.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF FLOW LINE SURVEY, COMPRISING OF 4.17 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SW/4 NW/4 SECTION 29 = 1,443.69 FEET = 87.50 RODS = 0.98 OF AN ACRE SE/4 NW/4 SECTION 29 = 1,647.38 FEET = 99.84 RODS = 1.11 ACRES SW/4 NE/4 SECTION 29 = 1,628.20 FEET = 98.68 RODS = 1.10 ACRES SE/4 NE/4 SECTION 29 = 1,445.77 FEET = 87.62 RODS = 0.98 OF AN ACRE



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

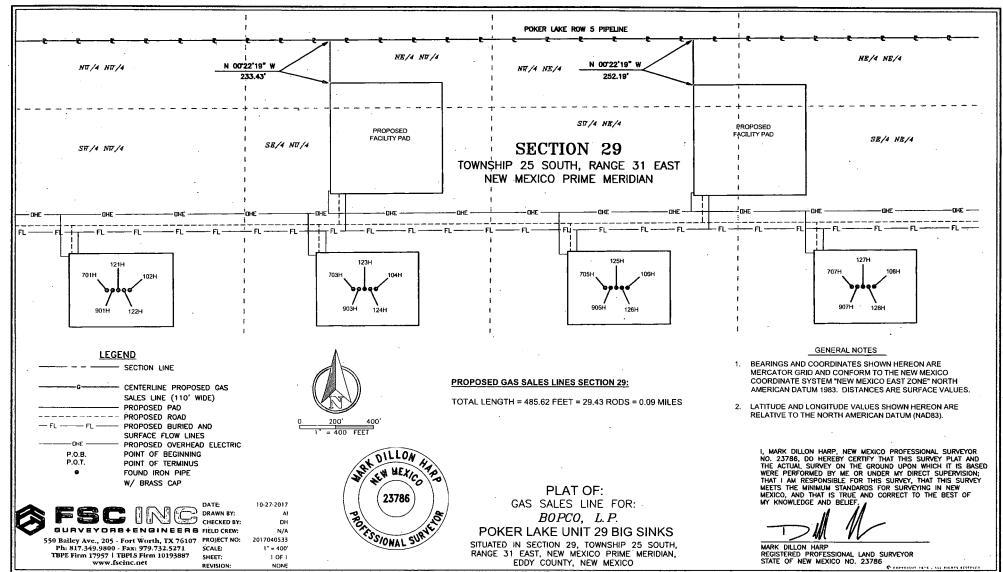
MARK DILLON HARP REGISTERED PROFESSIONAL LAND SURVEYOR STATE OF NEW MEXICO NO. 23786

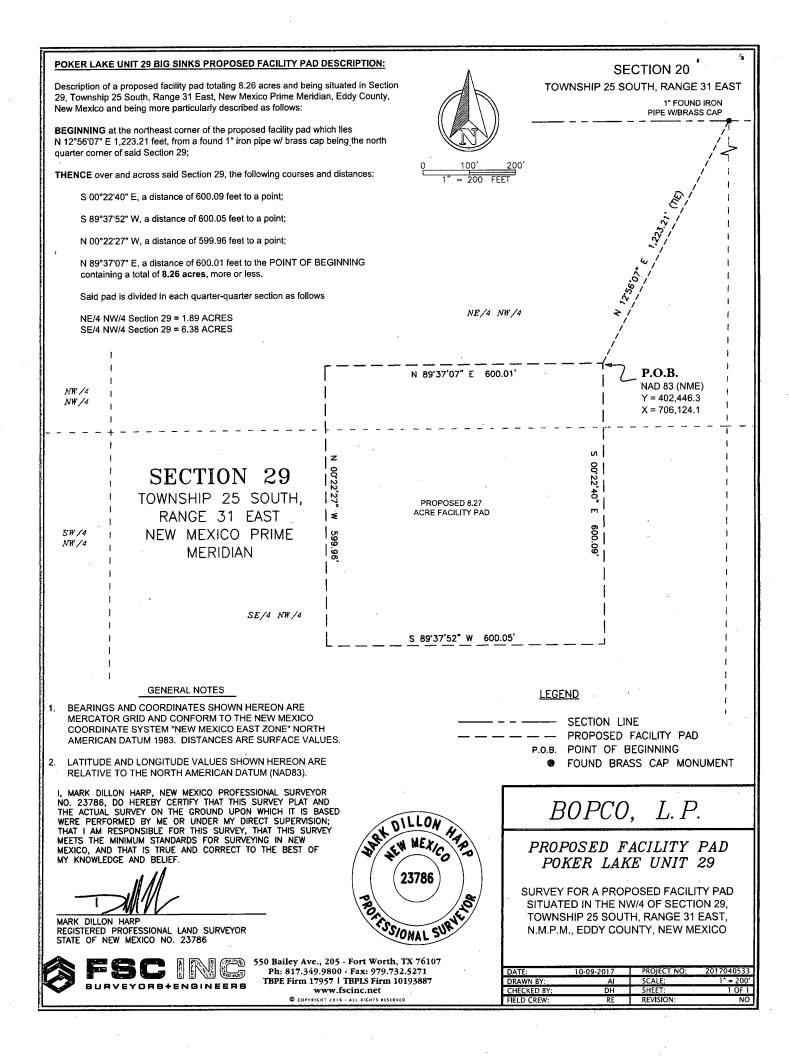
GENERAL NOTES

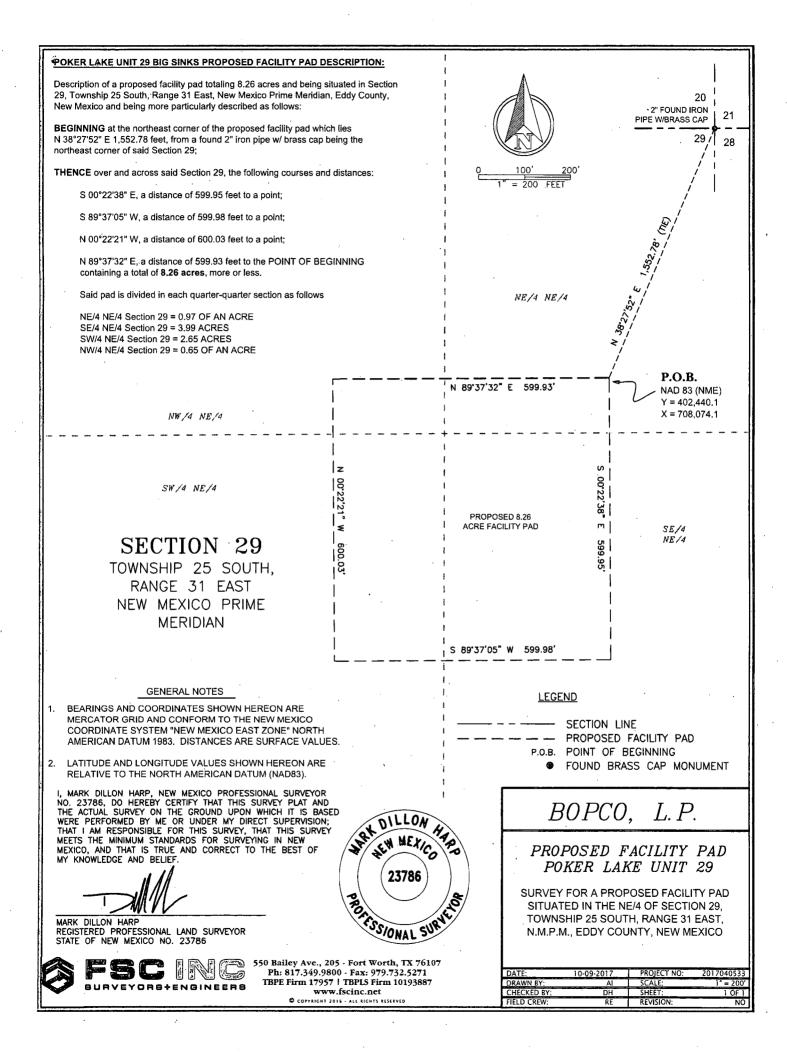
- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

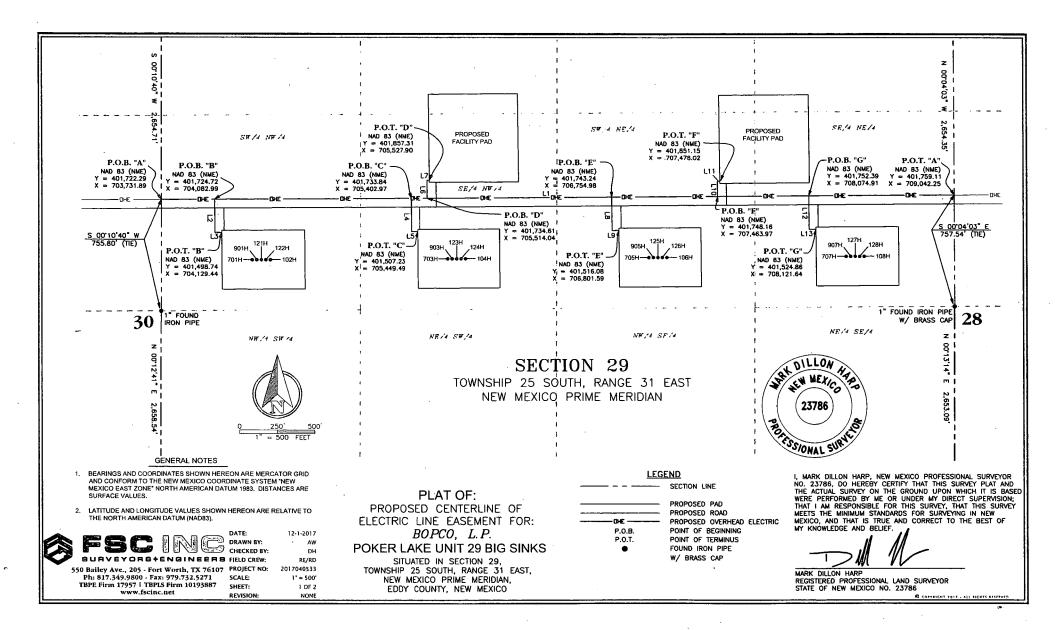
	DATE:	12-1-2017
	DRAWN BY:	AW
	CHECKED BY:	DH
SURVEYOR8+ENGINEER8	FIELD CREW:	RE/RD
	PROJECT NO:	2017040533
	SCALE:	1" = 500'
TBPE Firm 17957 TBPLS Firm 10193887	SHEET:	2 OF 2
www.fscinc.net	REVISION:	NONE

PLAT OF: PROPOSED CENTERLINE OF BURIED AND SURFACE FLOW LINES EASEMENT FOR: BOPCO, L.P. POKER LAKE UNIT 29 BIG SINKS SITUATED IN SECTION 29, TOWNSHIP 25 SOUTH, RANGE 31 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO









.

POKER LAKE UNIT 29 BIG SINKS PROPOSED ELECTRIC LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 6,652.94 FEET, 403.21 RODS, OR 1.26 MILES IN LENGTH CROSSING SECTIONS 29, TOWNSHIP 25 SOUTH, RANGE 31 EAST N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY, COMPRISING OF 4.51 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

SW/4 NW/4 SECTION 29 = 1,598.63 FEET = 96.89 RODS = 1.09 ACRES SE/4 NW/4 SECTION 29 = 1,736.79 FEET = 105.26 RODS = 1.17 ACRES SW/4 NE/4 SECTION 29 = 1,717.46 FEET = 104.09 RODS = 1,16 ACRES SE/4 NE/4 SECTION 29 = 1,600.06 FEET = 96.97 RODS = 1.09 ACRES



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

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

LINE TABLE "A" DISTANCE LINE BEARING 11 N 89"36'10" 5310.49' LINE TABLE "B"

L2 .	S 00°24'55" E	226.02
L3 ·	N 89'57'02" E	44.81

L4	S 00°24'20" E	226.62
1.5	N 90'00'00" E	44.91'
	LINE TABLE "D"	
	L N 00104'04" W	400 77

	1 1 00 27 21 11	
L7	S 89'53'46" E	14.73
	LINE TABLE "E"	
L8	S 00"23'30" E	227.16
10	C 90'50'70" C	45.00'

19	S 89.59.38 E	45.06
	LINE TABLE "F"	
L10	N 00'24'30" W	103.00'
L11	N 90'00'00" E	14.79

LINE TABLE "G"

L12	S 00°24'38" E	227.52
L13	S 89'58'24" E	45.10

TOTAL LENGTH = 6,652.94 FEET OR 403.21 RODS

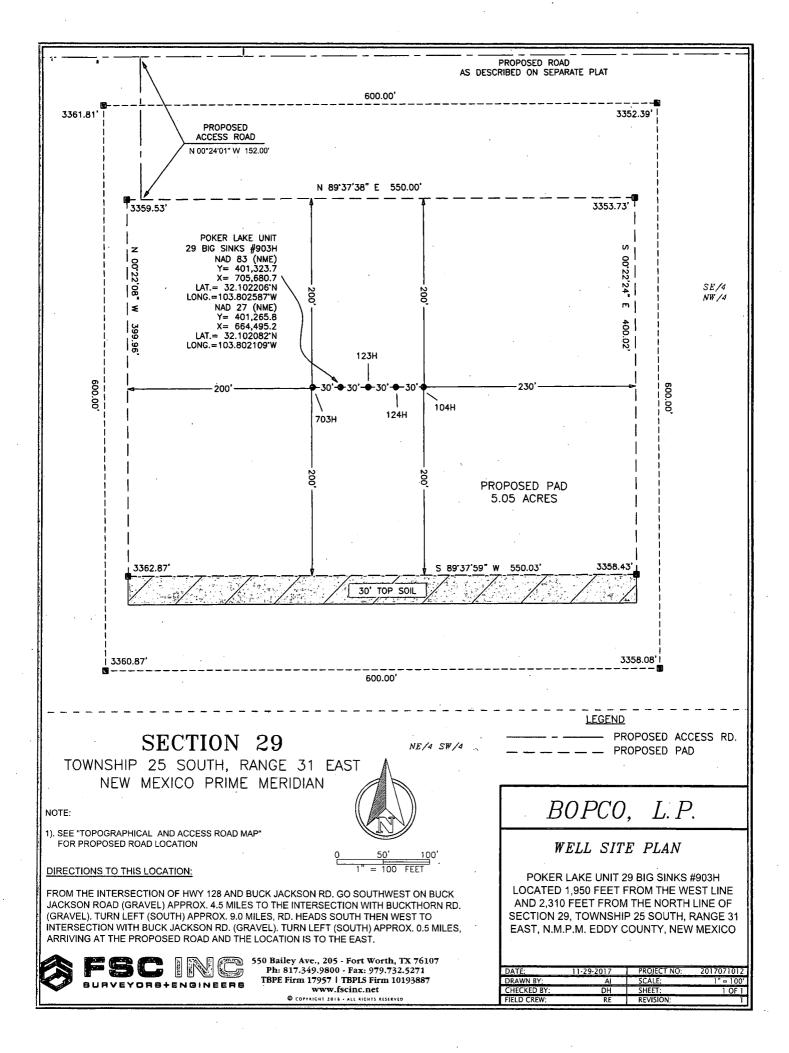
GENERAL NOTES

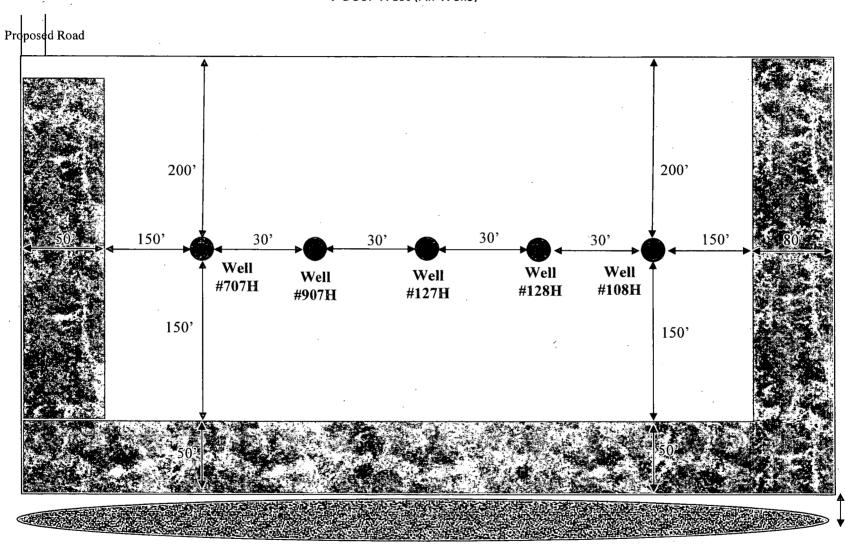
- 1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983, DISTANCES ARE SURFACE VALUES.
- 2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I		DATE	12-1-2017
1		DRAWN BY:	AW
Į		CHECKED BY:	DH
I	SURVEYOR8+ENGINEER8	FIELD CREW:	RE/RD
Į	550 Bailey Ave., 205 - Fort Worth, TX 76107	PROJECT NO:	2017040533
I	Ph: 817.349.9800 - Fax: 979.732.5271	SCALE:	1" + 500'
I	TBPE Firm 17957 TBPLS Firm 10193887	SHEET:	2 OF 2
ł	www.fscinc.net	REVISION:	NONE

PLAT OF: PROPOSED CENTERLINE OF ELECTRIC LINE EASEMENT FOR: BOPCO. L.P. POKER LAKE UNIT 29 BIG SINKS SITUATED IN SECTIONS 29, TOWNSHIP 25 SOUTH, RANGE 31 EAST, NEW MEXICO PRIME MERIDIAN. EDDY COUNTY, NEW MEXICO

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	10	11	12	7		8		9	10	11	12	7 44	47 8 1203	9	10	11
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G COPY	RICHT 201	6 - ALL RIGHTS RE	SERVED					0 5,	000' 10, 10,000 FEET		Ph: 817.	349.9800 - 1	Fax: 979.732 SPLS Firm 10	2.5271 S 193887 S	CALE: HEET: EVISION:	1"= 10,000' 1 OF 1





Interim Reclamation Diagram Poker Lake Unit 29 BS #707H, 907H, 127H, 128H, 108H V-Door West (All Wells)

N

Wellbore

Interim Reclamation

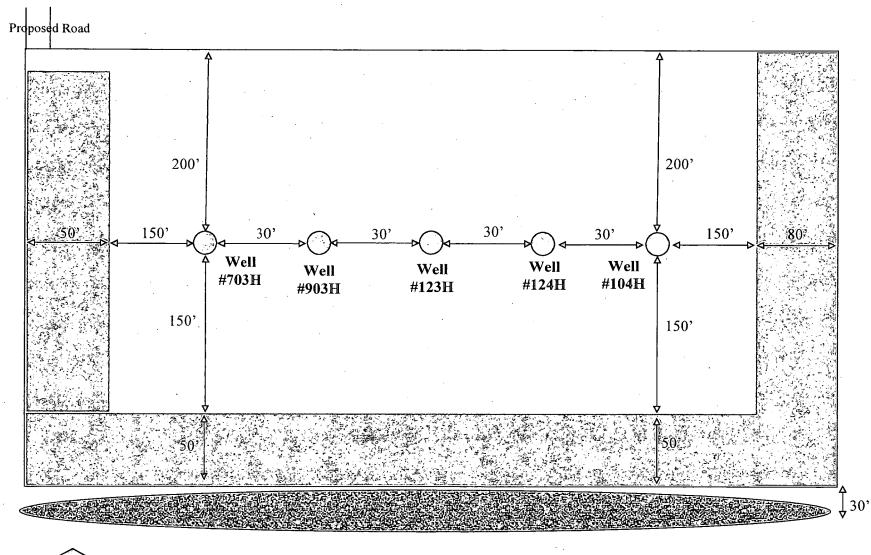


LEGEND

Ditch & Berm

🐨 Topsoil

<u>|</u>30'



Interim Reclamation Diagram Poker Lake Unit 29 BS #703H, 903H, 123H, 124H, 104H V-Door West (All Wells)

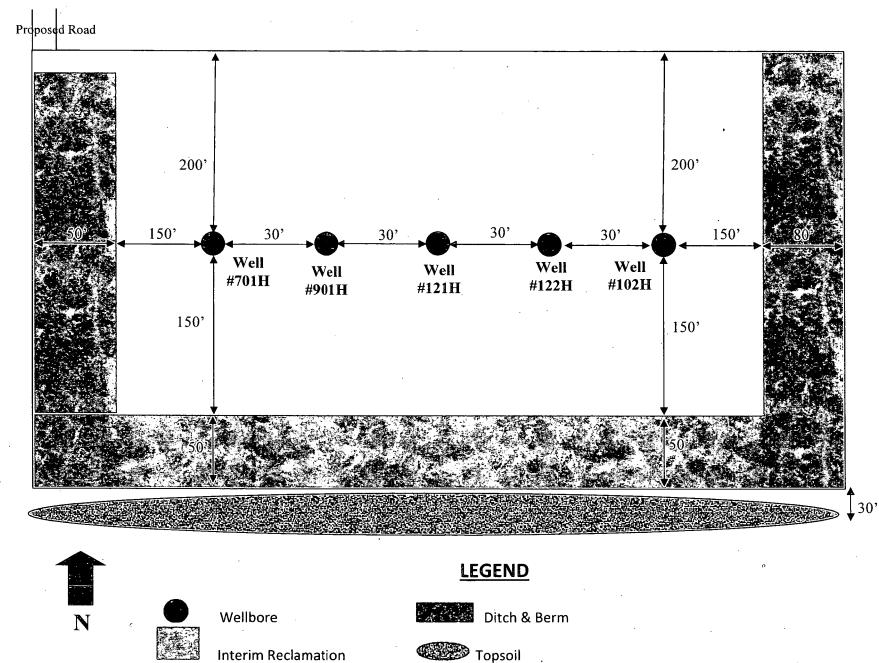


<u>LEGEND</u>

Ditch & Berm

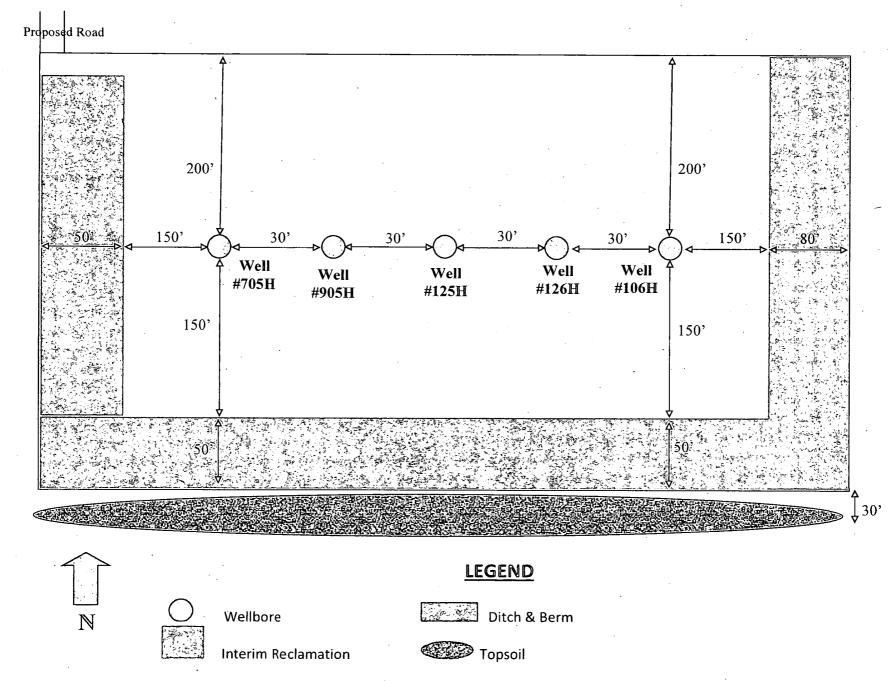
Topsoil

Interim Reclamation Diagram Poker Lake Unit 29 BS #701H, 901H, 121H, 122H, 102H V-Door West (All Wells)



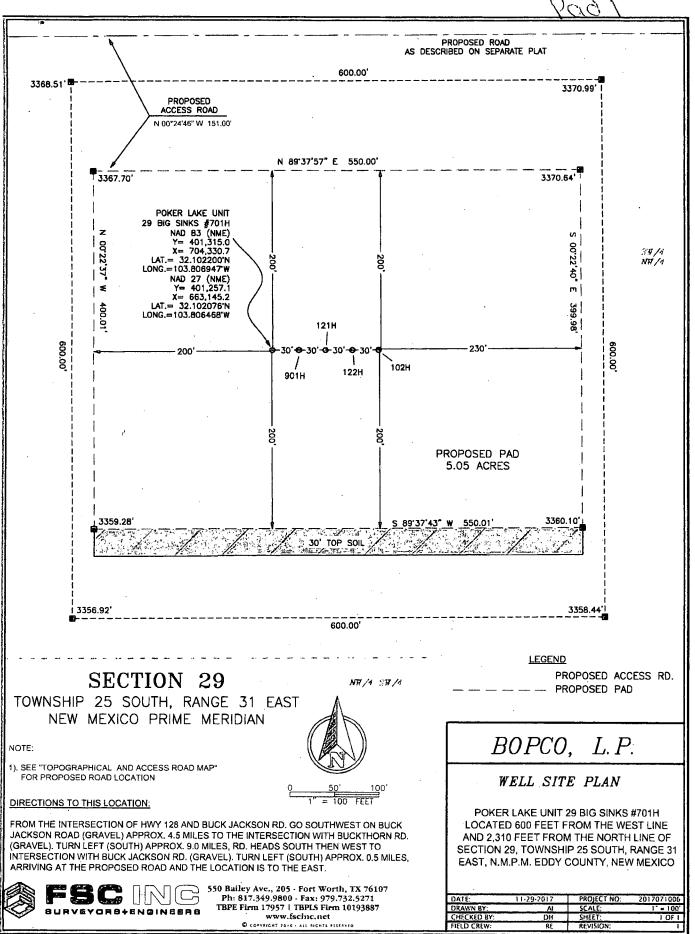


Poker Lake Unit 29 BS #705H, 905H, 125H, 126H, 106H V-Door West (All Wells)

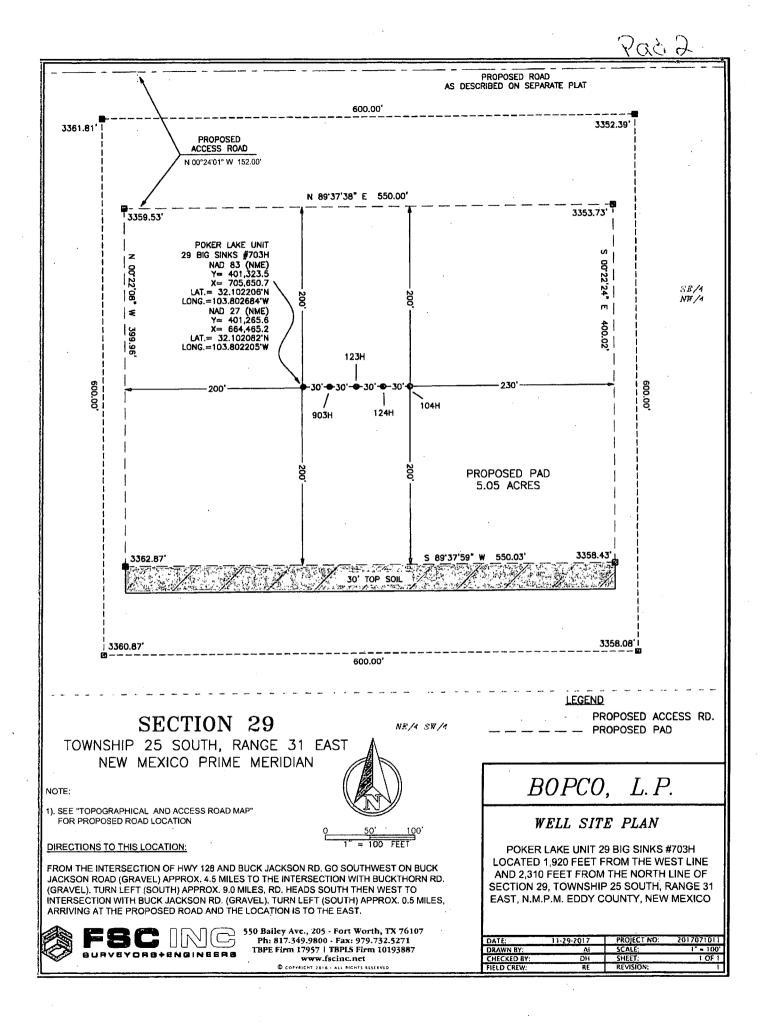


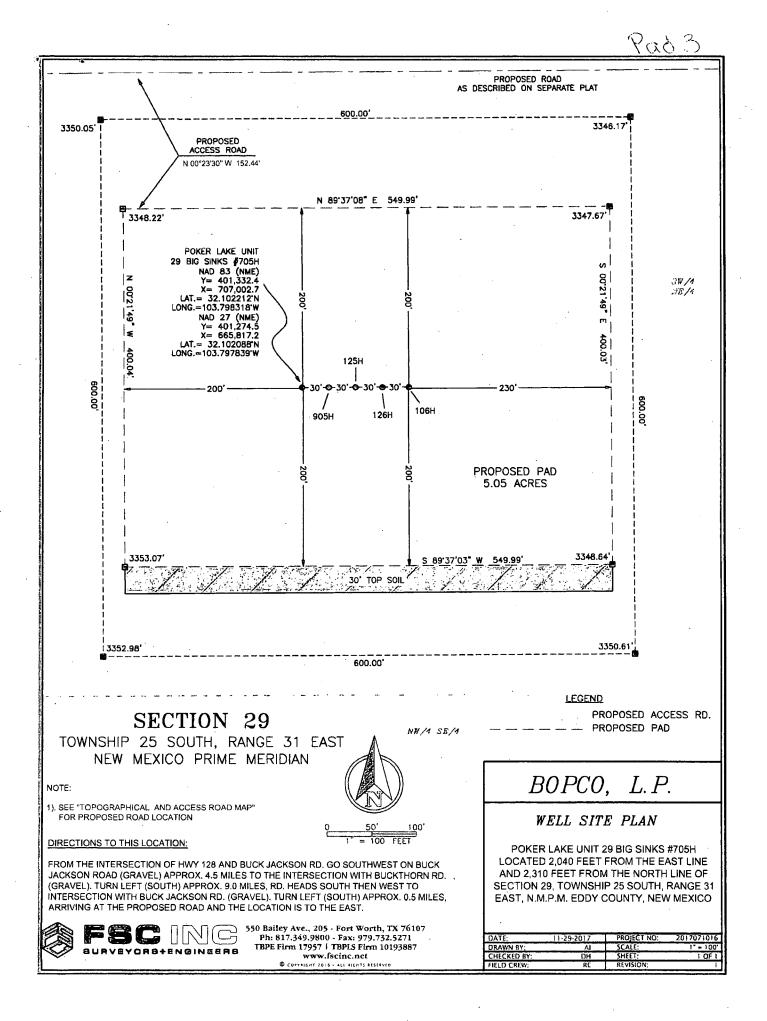
	List of Pro	Poker Lake Unit pposed Wells; Change			ng		
		BOPCO, L					
Pad Number	New Well Name & Number	Original Number	Section	Township	<u>Range</u>	Surface Owner	V-Door
1	Poker Lake Unit 29 BS 701H		29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 901H		29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 102H	10 0 2H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 121H	12 0 1H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 122H	12 0 2H	29	255	31E	Bureau of Land Mgmt	West
2	Poker Lake Unit 29 BS 703H		29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 903H		29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 104H	10 0 4H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 123H	12 0 3H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 124H	12 0 4H	29	25S	31E	Bureau of Land Mgmt	West
3	Poker Lake Unit 29 BS 705H		29	255	31E	Bureau of Land Mgmt	West
	Poker-Lake-Unit-29-BS-905H	·	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 106H	10 0 6H	29	255	31E	Bureau of Land Mgmt	West
_	Poker Lake Unit 29 BS 125H	12 0 5H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 126H	12 0 6H	29	255	31E	Bureau of Land Mgmt	West
4	Poker Lake Unit 29 BS 707H		29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 907H		29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 108H	10 0 8H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 127H	12 0 7H	29	255	31E	Bureau of Land Mgmt	West
	Poker Lake Unit 29 BS 128H	12 0 8H	29	255	31E	Bureau of Land Mgmt	West

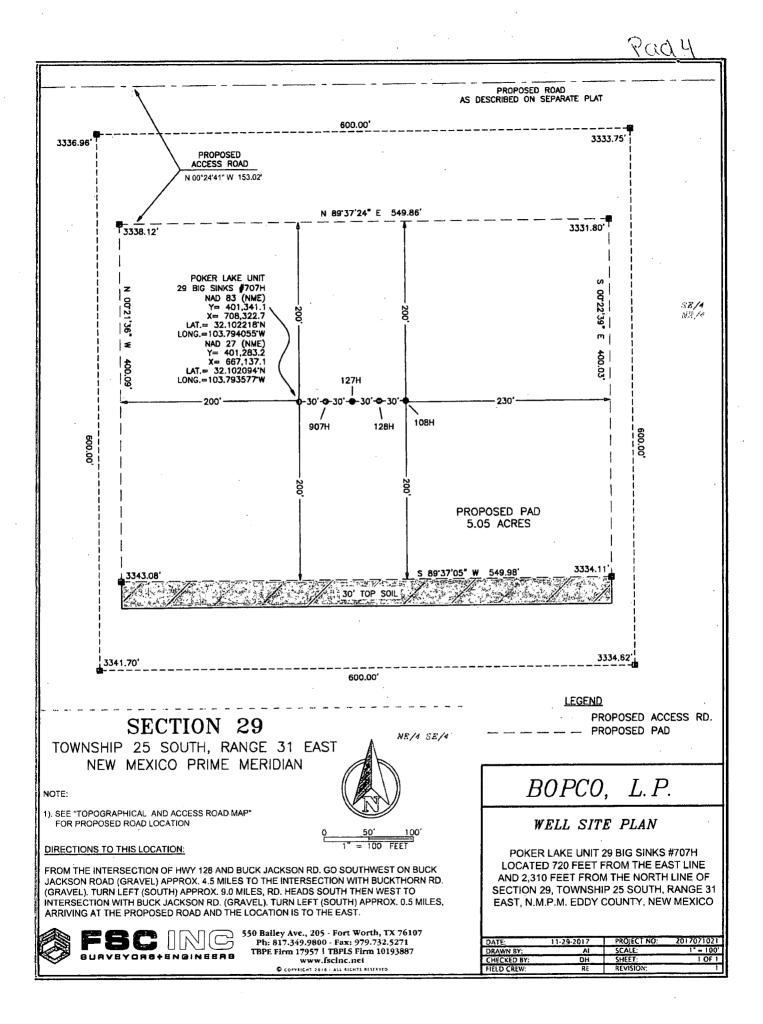
* Bold Indicates Portion Changed



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Confirmation of Payment

Form NM 8140-9 (March 2008) United States Department of the Interior Bureau of Land Management New Mexico State Office

Permian Basin Cultural Resource Mitigation Fund

The company shown below has agreed to contribute funding to the Permian Basin Cultural Resource Fund in lieu of being required to conduct a Class III survey for cultural resources associated with their project. This form verifies that the company has elected to have the Bureau of Land Management (BLM) follow the procedures specified within the Programmatic Agreement (PA) concerning improved strategies for managing historic properties within the Permian Basin, New Mexico, for the undertaking rather than the Protocol to meet the agency's Section 106 obligations.

Company Name: XTO Permian Operating, LLC

Address: 6401 Holiday Hill Rd

Midland, TX 79707

Project description:

POKER LAKE UNIT 29 BS APDs & ASSOCIATED FACILITIES

T. 25S, R. 31E, Section ²⁹ NMPM, Eddy County, New Mexico

Amount of contribution: \$12,128.87

4 Well Pads: 20.2 acres x \$197 = \$3979.4 2 CTBs: 16.53 acres x \$197 = \$3256.41 Gas Sales Line: 485.62' x \$0.28 = \$135.97 Flowline: 6165.04' x \$0.28 = \$2079.91 Road: 6234.91' x \$0.28 = \$1745.77 OHE: 6652.94' x \$0.14 = \$931.41

Confirmation of Payment Page 2

Provisions of the PA:

A. No new Class III inventories are required of industry within the project area for those projects where industry elects to contribute to the mitigation fund.

B. The amount of funds contributed was derived from the rate schedule established within Appendix B of the PA. The amount of the funding contribution acknowledged on this form reflects those rates.

C. The BLM will utilize the funding to carry out a program of mitigation at high-priority sites whose study is needed to answer key questions identified within the Regional Research Design.

D. Donating to the fund is voluntary. Industry acknowledges that it is aware it has the right to pay for a Class III survey rather than contributing to the mitigation fund. Industry must avoid or fund data recovery at those sites already recorded that are eligible for nomination to the National Register or whose eligibility is unknown. Any such payments are independent of the mitigation funds established by this PA.

E. Previously recorded archaeological sites determined eligible for nomination to the National Register, or whose eligibility remains undetermined, must be avoided or mitigated.

F. If any skeletal remains that might be human or funerary objects are discovered by any activities, the land-use applicant will cease activities in the area of discovery, protect the remains, and notify the BLM within 24 hours. The BLM will determine the appropriate treatment of the remains in consultation with culturally-affiliated Indian Tribe(s) and lineal descendants. Applicants will be required to pay for treatment of the cultural items, independent and outside of the mitigation fund.

BLM-Authorized Officer

Date

United States Department of the Interior Bureau of Land Management CARLSBAD FIELD OFFICE	Receipt		
620 E. GREENE CARLSBAD, NM 88220 -6292 Phone: (575) 234-5972	No:	4328021	
Transaction #: 4444652 Date of Transaction: 12/07/2018	<u>.</u>		
CUSTOMER:			
XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL RD			

LINE UNIT QTY **DESCRIPTION** REMARKS TOTAL # PRICE CONTRIBUTED FUNDS-ALL MOA: XTO PERMIAN OTHER / 7122 FLPMA / ALL OPERATING LLC POKER 1 1.00 OTHER RES DEV, PROTECT 12128.87 12128.87 LAKE UNIT 29 BS & & MGMT ASSOCIATED FACILITIES PROJECT: LVTFG09G6180 **TOTAL:** \$12,128.87

	PAYMENT INFORMATION				
NOTE: Items will appear on credit card statement as "Bureau of Land Mgmt CO".					
1	AMOUNT:	12128.87	POSTMARKED: N/A		
	TYPE:	CREDIT CARD	RECEIVED: 12/07/2018		
		XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL RD MIDLAND TX 79707-2156 US			
		XXXXXXXXXXX4200	AUTH CODE: 074784		
	NAME ON CARD:	STEPHANIE RABADUE			
	SIGNATURE:				

REMARKS

This receipt was generated by the automated BLM Collections and Billing System and is a paper representation of a portion of the official electronic record contained therein.

https://ilmocop0ap933.blm.doi.net/cgibin/cbsp/zorder

MIDLAND, TX 79707-2156 US

12/7/2018

Well Site Locations

The results of the Poker Lake Unit 29 Big Sinks Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 29 Big Sinks' area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

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

Surface Use Plan

- 1. Existing Roads
 - A. The Poker Lake Unit 29 Big Sinks area is accessed by existing U.S. Hwy 128 and Buck Jackson Road approximately 4.5 miles to the intersection with Buckthorn Road. Turn left approximately 9 miles. Road heads South, then West to intersection with Buck Jackson Rd. Turn left approximately .5 miles. The proposed road and locations are to the east. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Vicinity Map.'
 - B. There are no existing access roads to the proposed Poker Lake Unit 29 Big Sinks well locations. All equipment and vehicles will be confined to the routes shown on the Vicinity Map as provided by Frank's Surveying. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.
 - C. The project is located approximately 27 miles to the town of Loving, New Mexico.

2. New or Upgraded Access Roads

- A. New Roads. There is a total of approximately 6234.91 or 1.18 miles of proposed and staked access roads in the Poker Lake Unit 29 Big Sinks lease area.
- B. Well Pads. The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
- C. Anticipated Traffic. After well completion, travel to each well site will included one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing**. All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by FSC, Inc unless otherwise approved by the BLM and applied for by XTO Permian Operating, LLC.
- E. Road Dimensions. The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

- F. Surface Material. Surface material will be native caliche. The average grade of all roads will be approximately 3%.
- G. Fence Cuts: No.
- H. Fences: No.
- I. Cattle Guards: No.
- J. Turnouts: No.
- K. Culverts: No.
- L. Cuts and Fills: Not significant.
- M. **Topsoil**. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
- N. Maintenance. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- O. Drainage. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. Location of Existing Wells

A. See attached 1-mile radius well map.

4. Ancillary Facilities

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

5. Location of Proposed Production Facilities

- A. Production Facilities. Two 600' x 600' pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The pads are located in Section 29-T25S-R31E NMPM, Eddy County, New Mexico. Plats of the proposed facilities are attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.
- B. Flowlines. In the event the wells are found productive, 20-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the PLU 29 BS East CTB and the PLU 29 BS West CTB where the oil, gas, and water will be metered and separated. If XTO Permian Operating, LLC. decides to run surface lines, 20-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed CTBs. An additional 20-22" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed

flowlines per well will be approximately 6,165.04' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A plat of the proposed flowline route for the lease is attached.

- C. Gas Pipeline. A gas purchaser has been identified. Two 110' corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 29 BS East CTB and the PLU 29 BS West CTB. XTO Permian Operating, LLC. will be installing the line with anticipated risers located on the CTB. The gas purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. PLU 29 BS East GSL Approx. Length: 252.19'. PLU 29 BS West GSL Approx. Length: 233.43'.
- D. **Disposal Facilities**. Produced water will be hauled from location to a commercial disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7.
- E. Flare. There will 2 flares associated with the Poker Lake Unit 29 BS project. The flare stacks will be 50'x50'. 1 will be located on the PLU 29 BS East CTB. 1 will be located on the PLU 29 BS West CTB. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.
- F. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.
- G. **Containment Berms**. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- H. Electrical. All electrical poles and lines will be placed within existing and proposed lease roads corridors. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 6652.94' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

Location and Types of Water Supply

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

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

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

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

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

6. Construction Activities

- A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
- B. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.
- C. Anticipated Caliche Locations:
 - a. Pit 1: Federal Caliche Pit, Section 17-T25S-R30E
 - b. Pit 2: Federal Caliche Pit, Section 34-T25S-R29E

7. Methods for Handling Waste

- Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.
- Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.
- Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.
- Sewage. Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- Garbage and Other Waste Materials. All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- Debris. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.

• Hazardous Materials.

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

- A. Rig Plat Diagrams: There are 5 multi-well pads in the Poker Lake Unit 29 Big Sinks lease anticipated. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:
 - 1. Pad 1 is a 5-well pad expected to be 550'x400'.
 - 2. Pad 2 is a 5-well pad expected to be 550'x400'.
 - 3. Pad 3 is a 5-well pad expected to be 550'x400'.
 - 4. Pad 4 is a 4-well pad expected to be 550'x400'.

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

- B. V-Door Orientation: These wells were staked with multiple v-door orientations. The following list is from West to East in accordance to the staked section and as agreed upon with Fernando Banos, BLM Natural Resource Specialist, present at on-site inspection.
 - 1. Pad 1 has a V-Door Orientation of West.
 - 2. Pad 2 has a V-Door Orientation of West.
 - 3. Pad 3 has a V-Door Orientation of West.
 - 4. Pad 4 has a V-Door Orientation of West.
- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

9. Plans for Surface Reclamation:

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

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

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

Reclamation Standards:

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

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

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

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

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

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

Seeding:

- <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.

10. Surface Ownership

- A. Within the Poker Lake Unit 29 Big Sinks project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

12. Other Information

Changes from Notice of Staking / Onsite

 Well Numbers. The 1000 and 1200 series well numbers have changed from 4-digit to 3-digit due to NMOCD requirements from the original Notice of Staking. This was done by dropping the 3rd '0' out of the well number. The 700 and 900 wells, being originally 3-digits, remain unchanged.

See reference table for appropriate well number changes.

Notice of Staking Well Number	APD Well Number
1002H	102H

1004H	104H
1006H	106H
1008H	108H
1201H	121H
1202H	122H
1203H	123H
1204H	124H
1205H	121H
1206H	124H
1207H	127H
1208H	128H

Surveying

- Well Sites. Well pad locations have been staked. Surveys of the proposed access roads and well pad
 locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake
 surveys with access roads have been completed on State and Federal lands with Fernando Banos, Bureau
 of Land Management Natural Resource Specialist in attendance.
- Cultural Resources Archaeology: The proposed project is within the PA. A MOA payment has been submitted to the Bureau of Land Management.
- Dwellings and Structures. There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

- Environmental Setting. Soils are classified as Simona Gravelly Fine Sandy Loam and Simona-Bippus Complex. Simona soils are found on alluvial fans and plans and form in mixed alluvium and/or Aeolian sands. Bippus soils are found on alluvial fans and floodplains and form in mixed alluvium. The Simona-Bippus soils are dominant to the east and the Simona Gravelly Fine Sandy Loams are dominant to the West. Dominant vegetation species include: mesquite, sumac snakeweed, and various forbs and grasses. Ground cover is minimal, offering 90 percent visibility.
- Traffic. No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.
- Water. There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050

[®]Operator's Representatives:

The XTO Permian Operating, LLC. representatives for ensuring compliance of the surface use plan are listed below:

Surface:

Jimie Scott Contract Construction Lead XTO Energy, Incorporated 6401 Holiday Hill Road, Bldg 5 Midland, Texas 79707 432-488-9955

james_scott@xtoenergy.com

Jeff Raines Construction Superintendent XTO Energy, Incorporated 6401 Holiday Hill Road, Bldg 5 Midland, Texas 79707 432-620-4349 jeff_raines@xtoenergy.com

FMSS

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

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

PWD disturbance (acres):

PWD Data I

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type:

Injection well number:

Assigned 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:

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:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):



U.S[™]Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: COB000050

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Bond Info Data Report

3/26/2019

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:



In Reply To: 3160 [NMNM114993]

United States Department of the Interior

BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE FIELD OFFICE 620 E. GREENE ST. CARLSBAD, NM 88220 BLM_NM_CFO_APD@BLM.GOV 04/15/2019



Attn: STAR HARRELL EOG RESOURCES INCORPORATED 1111 BAGBY SKY LOBBY2 HOUSTON, TX 77002

Re: [NMNM114993]

Well No.TRIGG 5 FED / 601HLegal Description:T23S, R35E, SEC 5,County, State:LEA, NMDate APD Received:08/31/2018

Dear Operator:

This is the Notice of Deferral letter pursuant to Onshore Oil and Gas Order, Number 1, Section III.E.2.c.

As the BLM previously stated, the Application for Permit to Drill (APD) submitted for the above referenced well is a complete application. This letter is to inform you that the BLM was not able to complete processing that APD after determining the APD was complete.

Reasons for not processing the APD:

Missing necessary information (The BLM can start, but cannot complete, the analysis until you submit the identified items within two (2) years or the BLM will deny your APD.)

- Other Information

- Engineer deferral reasons: Mud Plan Discrepancy - Mud Program in attached drilling plan does not match AFMSS2 Drilling Program Submit Multibowl wellhead schematic that matches casing design. BOP Testing Procedure should state to test ram type BOP and accessory equipment to 10,000 psi and annular preventer to 5,000 psi for 10M BOP with 5M annular.

After we receive/complete the necessary documents from the above parties, our estimated time frame to complete our analysis and make a decision on the APD will be within the following number of days : 30.

We expect your APD to be approved by <TBD>.

At this point in the process, you may request a Suspension of Operations and/or Production for your lease. Once submitted, the BLM will process this request as appropriate.

If you have any questions, please contact Priscilla Perez at (575) 234-5934.

Sincerely,

Cody Layton Assistant Field Manager

cc: Official File