Carlsbad Field Office
OCD Artesia

Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

APR 25 2019

DISTRICT II-ARTESIA O.C.D.

1a. Type of work: ☑ DRILL ☐ REENTER	5. Lease Serial No. NMLC0061705B
1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other	6. If Indian, Allotee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone	7. If Unit or CA Agreement, Name and No. POKER LAKE / NMNM071016X
	8. Lease Name and Well No. POKER LAKE UNIT 17 TWR 121H 325469
2. Name of Operator XTO PERMIAN OPERATING LLC 373075	9. API Well No. 30-015-45923
3a. Address 6401 Holiday Hill Road, Bldg 5 Midland TX 79707	3b. Phone No. *(include area code)* (432)682-8873
	10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NWNW / 248 FNL / 533 FWL / LAT 32.209387 / LONG -103.806671 At proposed prod. zone SWNW / 2440 FNL / 335 FWL / LAT 32.174324 / LONG -103.807229	11. Sec., T. R. M. or Blk. and Survey or Area SEC 20 / T24S / R31E / NMP

14. Distance in miles and direction from nearest town or post office*		12. County or Parish EDDY	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet	16. No of acres in lease 1730.31	17. Spacing Unit dedicated to this well 800	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet	19. Proposed Depth 11828 feet / 24850 feet	20. BLM/BIA Bond No. in file FED: COB000050	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3492 feet	22. Approximate date work will start* 03/01/2019	23. Estimated duration 90 days	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name *(Printed/Typed)* Kelly Kardos / Ph: (432)620-4374	Date 08/30/2018
Title Regulatory Coordinator		
Approved by *(Signature)* (Electronic Submission)	Name *(Printed/Typed)* Cody Layton / Ph: (575)234-5959	Date 03/21/2019
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD	

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

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

APPROVED WITH CONDITIONS

Approval Date: 03/21/2019

RJP 4-26-19

(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 248 FNL / 533 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209387 / LONG: -103.806671 (TVD: 0 feet, MD: 0 feet)
   PPP: NWNW / 330 FNL / 335 FWL / TWSP: 24S / RANGE: 31E / SECTION: 29 / LAT: 32.19497 / LONG: -103.80743 (TVD: 11828 feet, MD: 17457 feet)
   PPP: NWNW / 330 FNL / 335 FWL / TWSP: 24S / RANGE: 31E / SECTION: 20 / LAT: 32.209161 / LONG: -103.80731 (TVD: 11828 feet, MD: 12177 feet)
   BHL: SWNW / 2440 FNL / 335 FWL / TWSP: 24S / RANGE: 31E / SECTION: 32 / LAT: 32.174324 / LONG: -103.807229 (TVD: 11828 feet, MD: 24850 feet)

BLM Point of Contact

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

Approval Date: 03/21/2019

PECOS DISTRICT DRILLING
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**XTO Permian Operating, LLC.**
LEASE NO.:	**NMLC-0061705B**
WELL NAME & NO.:	**Poker Lake Unit 17 TWR 121H**
SURFACE HOLE FOOTAGE:	**0248' FNL & 0533' FWL**
BOTTOM HOLE FOOTAGE	**2440' FNL & 0335' FWL Sec. 32, T. 24 S., R 31 E.**
LOCATION:	**Section 20, T. 24 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.**

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.

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 **18-5/8** inch surface casing shall be set at approximately **920** feet (**in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt**) and cemented to the surface.

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

    b. **Wait on cement (WOC) time for a primary cement job 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.

13-3/8'' Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the **13-3/8** inch intermediate casing is:

    ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

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 (not the mud weight

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.

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

   ☐ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. **Excess calculates to 20% - Additional cement may be required.**

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.

2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.

4. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch casing. Minimum working pressure**

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

c. The results of the test shall be reported to the appropriate BLM office.

d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

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

F. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JAM 031419

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating LLC
WELL NAME & NO.:	Poker Lake Unit 17 TWR 121H
SURFACE HOLE FOOTAGE:	248'/N & 533'/W
BOTTOM HOLE FOOTAGE	2440'/N & 335'/W
LOCATION:	Section 20, T.24 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.

Approval Date: 03/21/2019

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.

Hydrology:
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.

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.

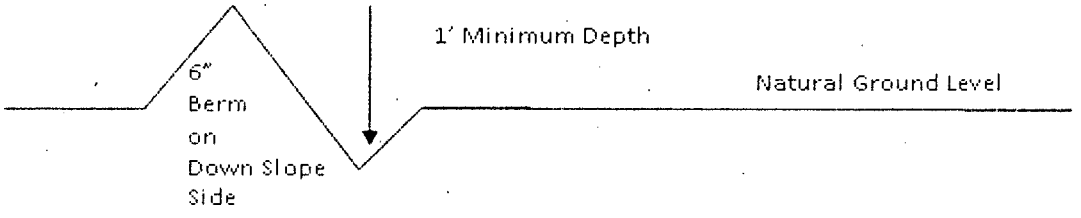
If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

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

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

Livestock Watering Requirement Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Public Access

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

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

regard to whether a release is caused by Holder, its agent, or unrelated third parties.

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

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

b. Activities of other parties including, but not limited to:
   (1) Land clearing
   (2) Earth-disturbing and earth-moving work
   (3) Blasting
   (4) Vandalism and sabotage;

c. Acts of God.

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

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

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

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of **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

for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

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

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

18. Special Stipulations:

a. **Lesser Prairie-Chicken:** 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.)

- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed **30** feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6___ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

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
(**X**) seed mixture 2/LPC	( ) Aplomado Falcon Mixture

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

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

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.

AFMSS

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

Operator Certification Data Report

03/22/2019

Operator Certification

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

NAME: Kelly Kardos **Signed on:** 08/30/2018

Title: Regulatory Coordinator

Street Address:

City: Midland **State:** TX **Zip:** 79701

Phone: (432)620-4374

Email address: kelly_kardos@xtoenergy.com

Field Representative

Representative Name:

Street Address:

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

Phone:

Email address:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

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:** POKER LAKE UNIT 17 TWR **Number:** 1

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

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: DELINEATION

Describe sub-type:

Distance to town: **Distance to nearest well:** 35 FT **Distance to lease line:** 330 FT

Reservoir well spacing assigned acres Measurement: 800 Acres

Well plat: PLU_17_TWR_121H_C102_20180829125434.pdf

Well work start Date: 03/01/2019 **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	MD	TVD
SHL Leg #1	248	FNL	533	FWL	24S	31E	20	Aliquot NWNW	32.209387	-103.806671	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC0061705B	3492	0	0
KOP Leg #1	248	FNL	533	FWL	24S	31E	20	Aliquot NWNW	32.209387	-103.806671	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC0061705B	-7739	11231	11231
PPP Leg #1	330	FNL	335	FWL	24S	31E	20	Aliquot NWNW	32.209161	-103.807311	EDDY	NEW MEXICO	NEW MEXICO	F	NMLC0061705B	-8336	12177	11828

day. 18-5/8" Collapse analyzed using 75% evacuation. Casing to be filled while running. • 13-3/8" & 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

Choke Diagram Attachment:

PLU_17_TWR_5MCM_20180829130541.pdf

BOP Diagram Attachment:

PLU_17_TWR_5MBOP_20180829130557.pdf

PLU_17_TWR_Multibowl_20190312083351.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	24	18.625	NEW	API	N	0	920	0	920			920	J-55	87.5	STC	1.96	1.76	DRY	9.37	DRY	9.37
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	4120	0	4120			4120	J-55	68	STC	1.5	1.11	DRY	2.41	DRY	2.41
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	11150	0	11150			11150	HCL-80	40	LTC	1.34	1.29	DRY	1.88	DRY	1.88
4	PRODUCTION	8.75	5.5	NEW	API	N	0	24850	0	11828			24850	P-110	20	BUTT	1.57	1.33	DRY	1.93	DRY	1.93

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_17_TWR_121H_Csg_20180829131042.pdf

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	920	2830	1.87	12.9	5292.1	100	EconoCemt-HLTRRC	None
SURFACE	Tail				300	1.35	14.8	405	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	4120	2830	1.87	12.9	5292.1	100	EconoCem-HLTRRC	none
INTERMEDIATE	Tail				300	1.35	14.8	405	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	4220	0	11150	2140	1.88	12.6	4023.2	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				230	1.33	14.8	305.9	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		0	11150	1230	1.88	12.9	2312.4	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				230	1.33	14.8	305.9	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	24850	2630	1.61	13.2	4234.3	30	VersaCem	None

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

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: 7073 **Anticipated Surface Pressure:** 4470.84

Anticipated Bottom Hole Temperature(F): 160

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:

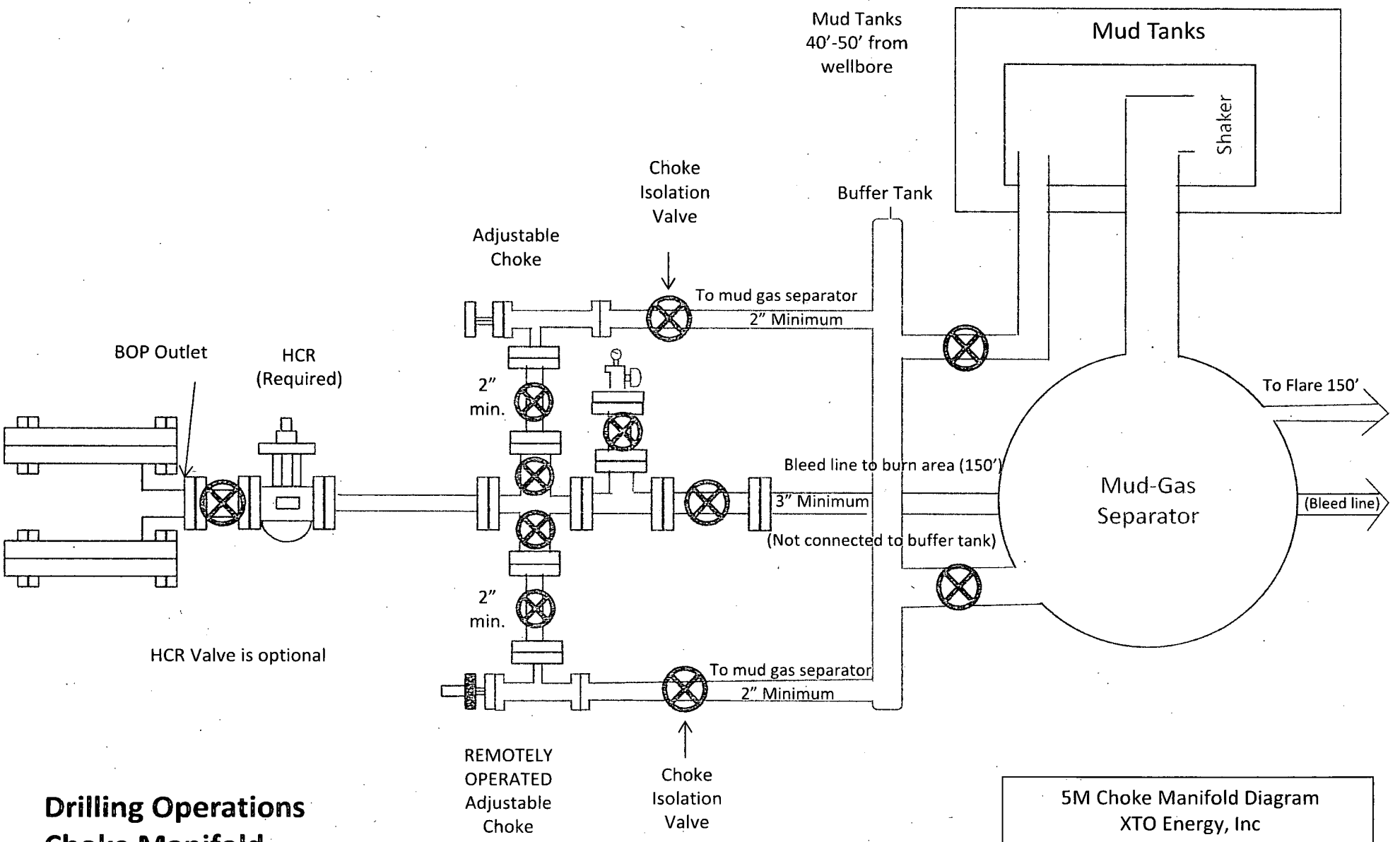
Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_17_TWR_H2S_Plan_20180829132046.pdf

PLU_17_TWR_H2S_Dia_Pad_2E_20180829132101.pdf

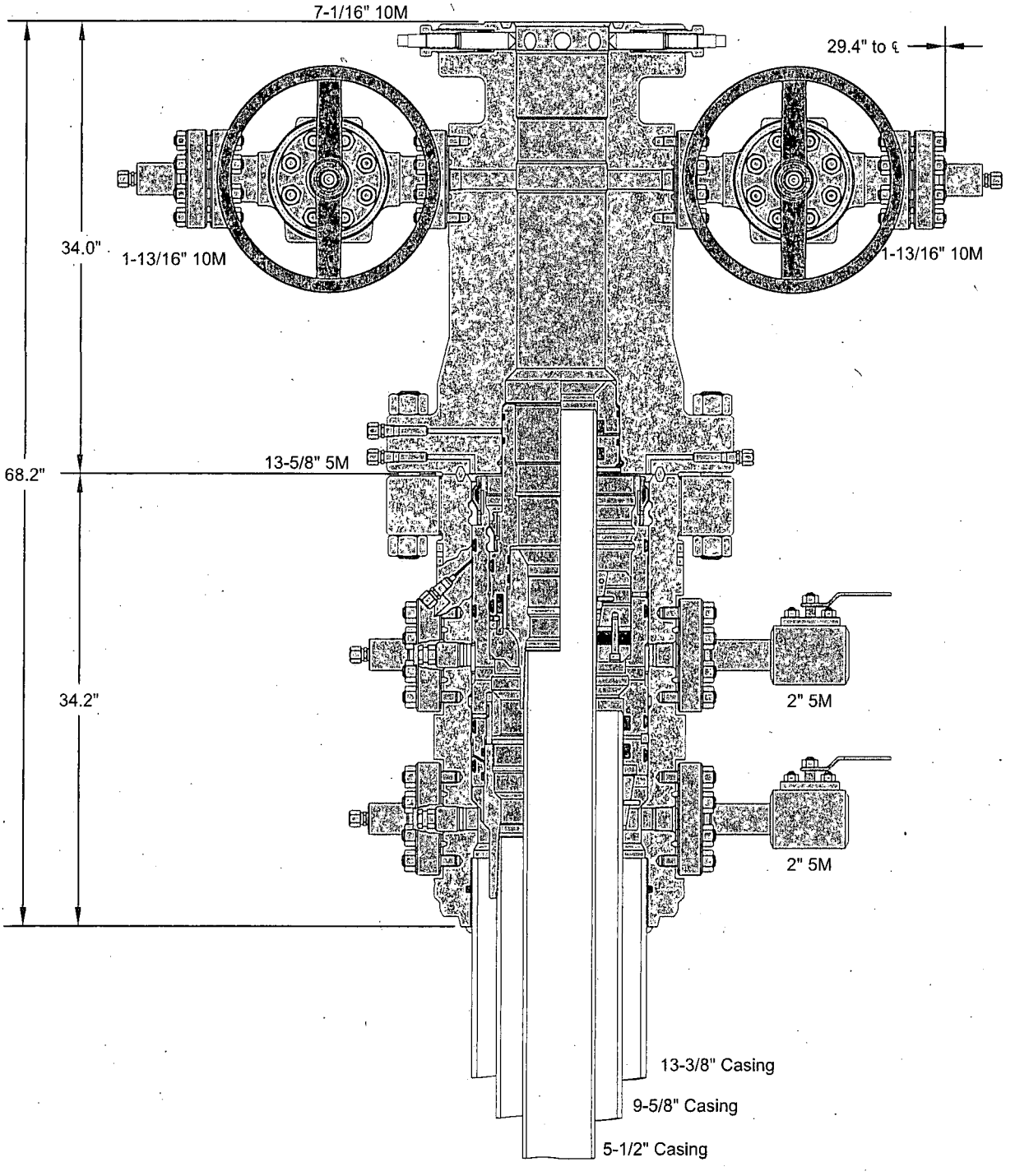
PLU_17_TWR_H2S_Dia_Pad_2W_20180829132120.pdf



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO Energy, Inc

GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

XTO ENERGY, INC.

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

DRAWN	VJK	16FEB17
APPRV	KN	16FEB17

FOR REFERENCE ONLY

DRAWING NO. 10012842

Poker Lake Unit 17 TWR 121H
Projected TD: 24850' MD / 11828' TVD
SHL: 248' FNL & 533' FWL , Section 20, T24S, R31E
BHL: 2440' FNL & 335' FWL , Section 32, T24S, R31E
Eddy County, NM

Casing Assumption Worksheet

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 920'	18-5/8"	87.5	STC	J-55	New	1.76	1.96	9.37
17-1/2"	0' – 4120'	13-3/8"	68	STC	J-55	New	1.11	1.50	2.41
12-1/4"	0' – 11150'	9-5/8"	40	LTC	HCL-80	New	1.29	1.34	1.88
8-3/4"	0' – 24850'	5-1/2"	20	BTC	P-110	New	1.33	1.57	1.93

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 18-5/8" Collapse analyzed using 75% evacuation. Casing to be filled while running.
- 13-3/8" & 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:

Permanent Wellhead – GE RSH Multibowl System

A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange

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

Poker Lake Unit 17 TWR 121H
Projected TD: 24850' MD / 11828' TVD
SHL: 248' FNL & 533' FWL , Section 20, T24S, R31E
BHL: 2440' FNL & 335' FWL , Section 32, T24S, R31E
Eddy County, NM

Casing Assumption Worksheet

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 920'	18-5/8"	87.5	STC	J-55	New	1.76	1.96	9.37
17-1/2"	0' – 4120'	13-3/8"	68	STC	J-55	New	1.11	1.50	2.41
12-1/4"	0' – 11150'	9-5/8"	40	LTC	HCL-80	New	1.29	1.34	1.88
8-3/4"	0' – 24850'	5-1/2"	20	BTC	P-110	New	1.33	1.57	1.93

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 18-5/8" Collapse analyzed using 75% evacuation. Casing to be filled while running.
- 13-3/8" & 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:

Permanent Wellhead – GE RSH Multibowl System

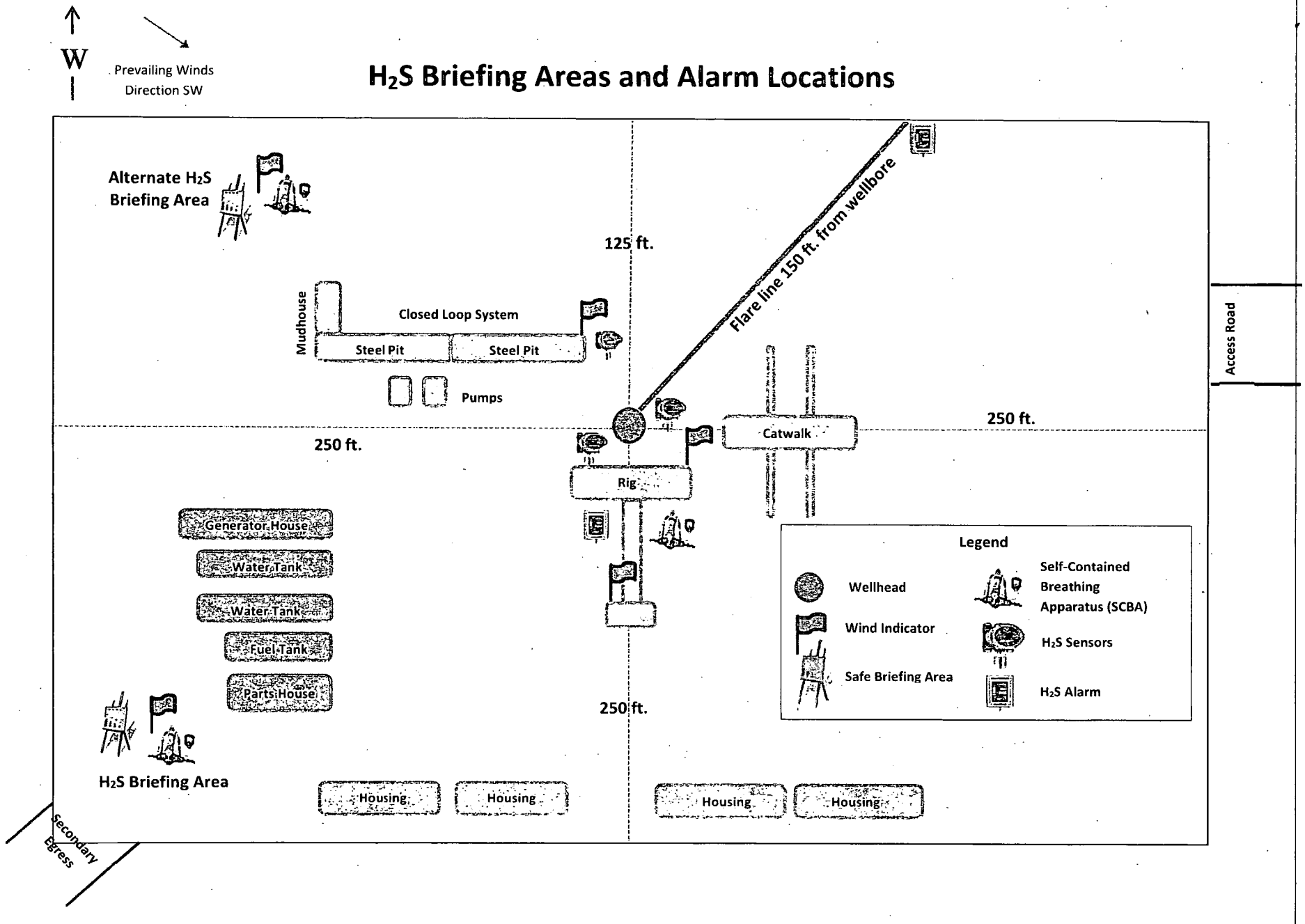
A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange

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

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

H_2S Briefing Areas and Alarm Locations



Project: Eddy County, NM (NAD-27)
Site: Poker Lake Unit 17 TWR
Well: #121H
Wellbore: OH
Design: PERMIT Rev1

PROJECT DETAILS: Eddy County, NM (NAD-27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #121H

Rig Name:
RKB = 25' @ 3517.00usft
Ground Level: 3492.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	440249.30	663041.50	32.209263	-103.806186

DESIGN TARGET DETAILS

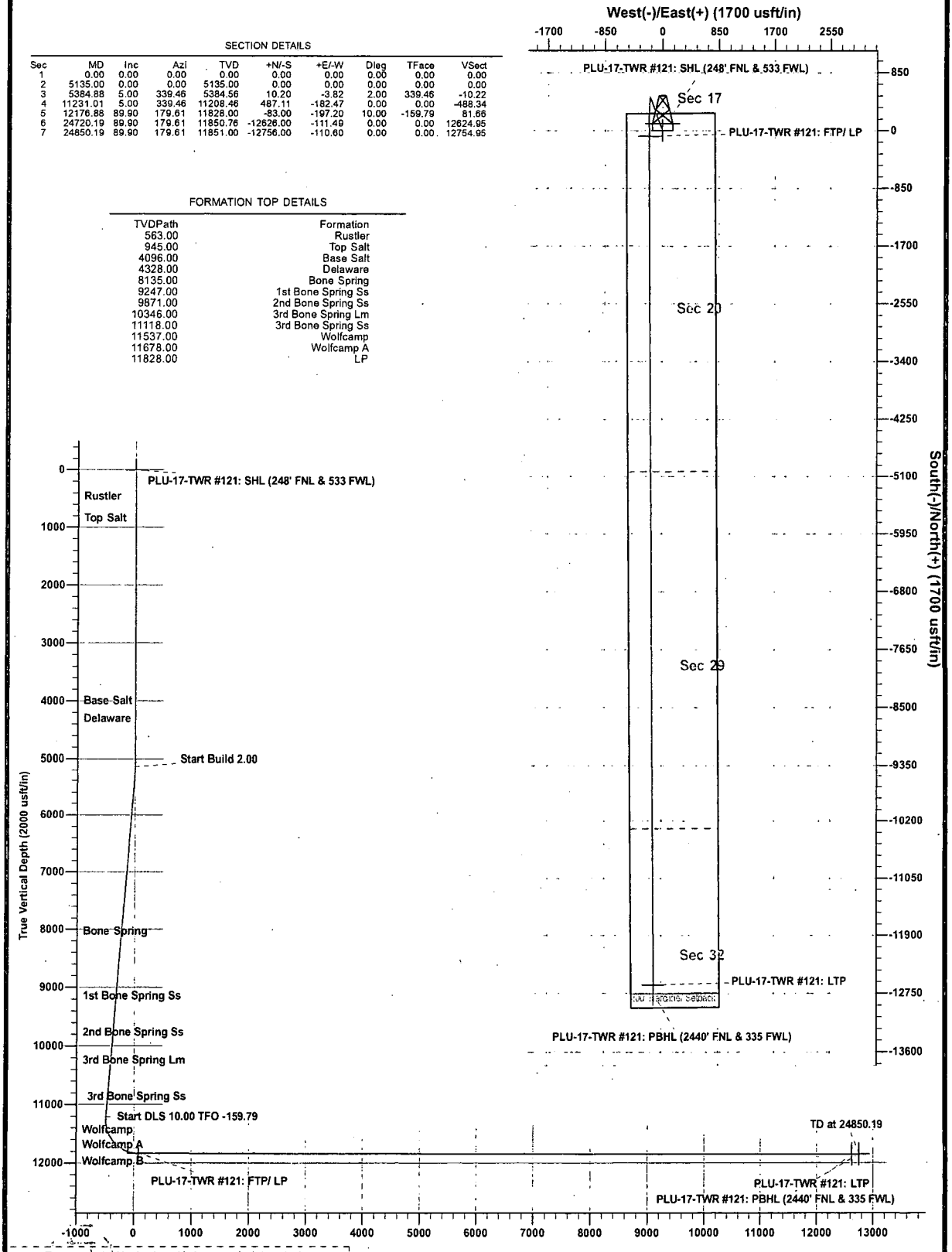
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PLU-17-TWR #121: SHL (248' FNL & 533 FWL)	0.00	0.00	0.00	440249.30	663041.50	32.209263	-103.806186	Point
PLU-17-TWR #121: FTP/ LP	11828.00	-83.00	-197.20	440166.30	662844.30	32.209038	-103.806825	Point
PLU-17-TWR #121: LTP	11850.00	-12626.00	-111.60	427623.30	662929.90	32.174557	-103.806747	Point
PLU-17-TWR #121: PBHL (2440' FNL & 335 FWL)	11851.00	-12756.00	-110.60	427493.30	662930.90	32.174200	-103.806746	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	5135.00	0.00	0.00	5135.00	0.00	0.00	0.00	0.00	0.00
3	5384.88	5.00	339.46	5384.56	10.20	-3.82	2.00	339.46	-10.22
4	11231.01	5.00	339.46	11208.46	487.11	-182.47	0.00	0.00	-488.34
5	12176.88	89.90	179.61	11828.00	-83.00	-197.20	10.00	-159.79	81.66
6	24720.19	89.90	179.61	11850.76	-12626.00	-111.49	0.00	0.00	12624.95
7	24850.19	89.90	179.61	11851.00	-12756.00	-110.60	0.00	0.00	12754.95

FORMATION TOP DETAILS

TVDPath	Formation
563.00	Rustler
945.00	Top Salt
4096.00	Base Salt
4328.00	Delaware
8135.00	Bone Spring
9247.00	1st Bone Spring Ss
9871.00	2nd Bone Spring Ss
10346.00	3rd Bone Spring Lm
11118.00	3rd Bone Spring Ss
11537.00	Wolfcamp
11678.00	Wolfcamp A
11828.00	LP



Vertical Section at 179.61° (2000 usft/in)

Plan: PERMIT Rev1 (#121H/OH)

Created By: Prototype Well Planning, LLC Date: 8:37, June 10 2018

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well #121H
Project:	Eddy County, NM (NAD-27)	**TVD Reference:**	RKB = 25' @ 3517.00usft
Site:	Poker Lake Unit 17 TWR	**MD Reference:**	RKB = 25' @ 3517.00usft
Well:	#121H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	PERMIT Rev1	**Database:**	EDM 5000.1 Single User Db

Project Eddy County, NM (NAD-27)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site Poker Lake Unit 17 TWR

Site Position:		**Northing:**	440,828.50 usft	**Latitude:**	32.210853
From:	Map	**Easting:**	663,224.90 usft	**Longitude:**	-103.805585
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.28 °

Well #121H

Well Position	**+N/-S**	0.00 usft	**Northing:**	440,249.30 usft	**Latitude:**	32.209264
	+E/-W	0.00 usft	**Easting:**	663,041.50 usft	**Longitude:**	-103.806187
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	0.00 usft	**Ground Level:**	3,492.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/23/2018	6.97	60.00	47,817

Design PERMIT Rev1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.61

Survey Tool Program **Date** 6/10/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	24,849.69	PERMIT Rev1 (OH)	MWD	MWD - Standard

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00

Company:	XTO Energy	**Local Co-ordinate Reference:**	Well #121H
Project:	Eddy County, NM (NAD-27)	**TVD Reference:**	RKB = 25' @ 3517.00usft
Site:	Poker Lake Unit 17 TWR	**MD Reference:**	RKB = 25' @ 3517.00usft
Well:	#121H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	PERMIT Rev1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	3.30	339.46	5,299.91	4.45	-1.67	-4.46	2.00	2.00	0.00
5,384.88	5.00	339.46	5,384.56	10.20	-3.82	-10.22	2.00	2.00	0.00
5,400.00	5.00	339.46	5,399.63	11.43	-4.28	-11.46	0.00	0.00	0.00
5,500.00	5.00	339.46	5,499.25	19.59	-7.34	-19.64	0.00	0.00	0.00
5,600.00	5.00	339.46	5,598.87	27.75	-10.39	-27.82	0.00	0.00	0.00
5,700.00	5.00	339.46	5,698.49	35.91	-13.45	-36.00	0.00	0.00	0.00
5,800.00	5.00	339.46	5,798.11	44.06	-16.51	-44.17	0.00	0.00	0.00
5,900.00	5.00	339.46	5,897.73	52.22	-19.56	-52.35	0.00	0.00	0.00
6,000.00	5.00	339.46	5,997.34	60.38	-22.62	-60.53	0.00	0.00	0.00
6,100.00	5.00	339.46	6,096.96	68.54	-25.67	-68.71	0.00	0.00	0.00
6,200.00	5.00	339.46	6,196.58	76.69	-28.73	-76.89	0.00	0.00	0.00
6,300.00	5.00	339.46	6,296.20	84.85	-31.79	-85.07	0.00	0.00	0.00
6,400.00	5.00	339.46	6,395.82	93.01	-34.84	-93.25	0.00	0.00	0.00
6,500.00	5.00	339.46	6,495.44	101.17	-37.90	-101.42	0.00	0.00	0.00
6,600.00	5.00	339.46	6,595.06	109.33	-40.95	-109.60	0.00	0.00	0.00
6,700.00	5.00	339.46	6,694.68	117.48	-44.01	-117.78	0.00	0.00	0.00
6,800.00	5.00	339.46	6,794.30	125.64	-47.07	-125.96	0.00	0.00	0.00
6,900.00	5.00	339.46	6,893.92	133.80	-50.12	-134.14	0.00	0.00	0.00
7,000.00	5.00	339.46	6,993.54	141.96	-53.18	-142.32	0.00	0.00	0.00
7,100.00	5.00	339.46	7,093.16	150.11	-56.23	-150.49	0.00	0.00	0.00
7,200.00	5.00	339.46	7,192.78	158.27	-59.29	-158.67	0.00	0.00	0.00
7,300.00	5.00	339.46	7,292.40	166.43	-62.34	-166.85	0.00	0.00	0.00
7,400.00	5.00	339.46	7,392.02	174.59	-65.40	-175.03	0.00	0.00	0.00
7,500.00	5.00	339.46	7,491.64	182.75	-68.46	-183.21	0.00	0.00	0.00
7,600.00	5.00	339.46	7,591.26	190.90	-71.51	-191.39	0.00	0.00	0.00
7,700.00	5.00	339.46	7,690.88	199.06	-74.57	-199.56	0.00	0.00	0.00
7,800.00	5.00	339.46	7,790.50	207.22	-77.62	-207.74	0.00	0.00	0.00
7,900.00	5.00	339.46	7,890.12	215.38	-80.68	-215.92	0.00	0.00	0.00
8,000.00	5.00	339.46	7,989.74	223.53	-83.74	-224.10	0.00	0.00	0.00
8,100.00	5.00	339.46	8,089.36	231.69	-86.79	-232.28	0.00	0.00	0.00
8,200.00	5.00	339.46	8,188.98	239.85	-89.85	-240.46	0.00	0.00	0.00
8,300.00	5.00	339.46	8,288.60	248.01	-92.90	-248.63	0.00	0.00	0.00
8,400.00	5.00	339.46	8,388.22	256.17	-95.96	-256.81	0.00	0.00	0.00
8,500.00	5.00	339.46	8,487.84	264.32	-99.02	-264.99	0.00	0.00	0.00
8,600.00	5.00	339.46	8,587.46	272.48	-102.07	-273.17	0.00	0.00	0.00
8,700.00	5.00	339.46	8,687.08	280.64	-105.13	-281.35	0.00	0.00	0.00
8,800.00	5.00	339.46	8,786.70	288.80	-108.18	-289.53	0.00	0.00	0.00
8,900.00	5.00	339.46	8,886.32	296.95	-111.24	-297.70	0.00	0.00	0.00
9,000.00	5.00	339.46	8,985.94	305.11	-114.29	-305.88	0.00	0.00	0.00
9,100.00	5.00	339.46	9,085.56	313.27	-117.35	-314.06	0.00	0.00	0.00
9,200.00	5.00	339.46	9,185.18	321.43	-120.41	-322.24	0.00	0.00	0.00
9,300.00	5.00	339.46	9,284.80	329.59	-123.46	-330.42	0.00	0.00	0.00
9,400.00	5.00	339.46	9,384.42	337.74	-126.52	-338.60	0.00	0.00	0.00

Company:	XTO Energy	Local Co-ordinate Reference:	Well #121H
Project:	Eddy County, NM (NAD-27)	TVD Reference:	RKB = 25' @ 3517.00usft
Site:	Poker Lake Unit 17 TWR	MD Reference:	RKB = 25' @ 3517.00usft
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PERMIT Rev1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,600.00	89.90	179.61	11,828.77	-506.11	-194.31	504.78	0.00	0.00	0.00
12,700.00	89.90	179.61	11,828.95	-606.11	-193.63	604.78	0.00	0.00	0.00
12,800.00	89.90	179.61	11,829.13	-706.11	-192.94	704.78	0.00	0.00	0.00
12,900.00	89.90	179.61	11,829.31	-806.10	-192.26	804.78	0.00	0.00	0.00
13,000.00	89.90	179.61	11,829.49	-906.10	-191.58	904.78	0.00	0.00	0.00
13,100.00	89.90	179.61	11,829.68	-1,006.10	-190.89	1,004.78	0.00	0.00	0.00
13,200.00	89.90	179.61	11,829.86	-1,106.10	-190.21	1,104.78	0.00	0.00	0.00
13,300.00	89.90	179.61	11,830.04	-1,206.09	-189.53	1,204.78	0.00	0.00	0.00
13,400.00	89.90	179.61	11,830.22	-1,306.09	-188.84	1,304.78	0.00	0.00	0.00
13,500.00	89.90	179.61	11,830.40	-1,406.09	-188.16	1,404.78	0.00	0.00	0.00
13,600.00	89.90	179.61	11,830.58	-1,506.09	-187.48	1,504.78	0.00	0.00	0.00
13,700.00	89.90	179.61	11,830.76	-1,606.08	-186.79	1,604.78	0.00	0.00	0.00
13,800.00	89.90	179.61	11,830.95	-1,706.08	-186.11	1,704.78	0.00	0.00	0.00
13,900.00	89.90	179.61	11,831.13	-1,806.08	-185.43	1,804.78	0.00	0.00	0.00
14,000.00	89.90	179.61	11,831.31	-1,906.08	-184.74	1,904.78	0.00	0.00	0.00
14,100.00	89.90	179.61	11,831.49	-2,006.07	-184.06	2,004.78	0.00	0.00	0.00
14,200.00	89.90	179.61	11,831.67	-2,106.07	-183.38	2,104.77	0.00	0.00	0.00
14,300.00	89.90	179.61	11,831.85	-2,206.07	-182.69	2,204.77	0.00	0.00	0.00
14,400.00	89.90	179.61	11,832.03	-2,306.07	-182.01	2,304.77	0.00	0.00	0.00
14,500.00	89.90	179.61	11,832.22	-2,406.06	-181.33	2,404.77	0.00	0.00	0.00
14,600.00	89.90	179.61	11,832.40	-2,506.06	-180.64	2,504.77	0.00	0.00	0.00
14,700.00	89.90	179.61	11,832.58	-2,606.06	-179.96	2,604.77	0.00	0.00	0.00
14,800.00	89.90	179.61	11,832.76	-2,706.06	-179.28	2,704.77	0.00	0.00	0.00
14,900.00	89.90	179.61	11,832.94	-2,806.05	-178.59	2,804.77	0.00	0.00	0.00
15,000.00	89.90	179.61	11,833.12	-2,906.05	-177.91	2,904.77	0.00	0.00	0.00
15,100.00	89.90	179.61	11,833.31	-3,006.05	-177.23	3,004.77	0.00	0.00	0.00
15,200.00	89.90	179.61	11,833.49	-3,106.05	-176.54	3,104.77	0.00	0.00	0.00
15,300.00	89.90	179.61	11,833.67	-3,206.04	-175.86	3,204.77	0.00	0.00	0.00
15,400.00	89.90	179.61	11,833.85	-3,306.04	-175.18	3,304.77	0.00	0.00	0.00
15,500.00	89.90	179.61	11,834.03	-3,406.04	-174.49	3,404.77	0.00	0.00	0.00
15,600.00	89.90	179.61	11,834.21	-3,506.04	-173.81	3,504.77	0.00	0.00	0.00
15,700.00	89.90	179.61	11,834.39	-3,606.03	-173.13	3,604.77	0.00	0.00	0.00
15,800.00	89.90	179.61	11,834.58	-3,706.03	-172.44	3,704.77	0.00	0.00	0.00
15,900.00	89.90	179.61	11,834.76	-3,806.03	-171.76	3,804.77	0.00	0.00	0.00
16,000.00	89.90	179.61	11,834.94	-3,906.03	-171.08	3,904.77	0.00	0.00	0.00
16,100.00	89.90	179.61	11,835.12	-4,006.02	-170.39	4,004.77	0.00	0.00	0.00
16,200.00	89.90	179.61	11,835.30	-4,106.02	-169.71	4,104.77	0.00	0.00	0.00
16,300.00	89.90	179.61	11,835.48	-4,206.02	-169.03	4,204.77	0.00	0.00	0.00
16,400.00	89.90	179.61	11,835.66	-4,306.02	-168.34	4,304.77	0.00	0.00	0.00
16,500.00	89.90	179.61	11,835.85	-4,406.01	-167.66	4,404.77	0.00	0.00	0.00
16,600.00	89.90	179.61	11,836.03	-4,506.01	-166.98	4,504.77	0.00	0.00	0.00
16,700.00	89.90	179.61	11,836.21	-4,606.01	-166.29	4,604.77	0.00	0.00	0.00
16,800.00	89.90	179.61	11,836.39	-4,706.01	-165.61	4,704.77	0.00	0.00	0.00
16,900.00	89.90	179.61	11,836.57	-4,806.00	-164.93	4,804.77	0.00	0.00	0.00

Company:	XTO Energy	Local Co-ordinate Reference:	Well #121H
Project:	Eddy County, NM (NAD-27)	TVD Reference:	RKB = 25' @ 3517.00usft
Site:	Poker Lake Unit 17 TWR	MD Reference:	RKB = 25' @ 3517.00usft
Well:	#121H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	PERMIT Rev1	Database:	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
21,300.00	89.90	179.61	11,844.56	-9,205.89	-134.86	9,204.76	0.00	0.00	0.00
21,400.00	89.90	179.61	11,844.74	-9,305.89	-134.18	9,304.76	0.00	0.00	0.00
21,500.00	89.90	179.61	11,844.92	-9,405.89	-133.49	9,404.76	0.00	0.00	0.00
21,600.00	89.90	179.61	11,845.10	-9,505.89	-132.81	9,504.76	0.00	0.00	0.00
21,700.00	89.90	179.61	11,845.28	-9,605.88	-132.13	9,604.76	0.00	0.00	0.00
21,800.00	89.90	179.61	11,845.46	-9,705.88	-131.44	9,704.76	0.00	0.00	0.00
21,900.00	89.90	179.61	11,845.65	-9,805.88	-130.76	9,804.76	0.00	0.00	0.00
22,000.00	89.90	179.61	11,845.83	-9,905.88	-130.08	9,904.76	0.00	0.00	0.00
22,100.00	89.90	179.61	11,846.01	-10,005.87	-129.39	10,004.76	0.00	0.00	0.00
22,200.00	89.90	179.61	11,846.19	-10,105.87	-128.71	10,104.76	0.00	0.00	0.00
22,300.00	89.90	179.61	11,846.37	-10,205.87	-128.03	10,204.76	0.00	0.00	0.00
22,400.00	89.90	179.61	11,846.55	-10,305.87	-127.34	10,304.76	0.00	0.00	0.00
22,500.00	89.90	179.61	11,846.74	-10,405.86	-126.66	10,404.76	0.00	0.00	0.00
22,600.00	89.90	179.61	11,846.92	-10,505.86	-125.98	10,504.76	0.00	0.00	0.00
22,700.00	89.90	179.61	11,847.10	-10,605.86	-125.29	10,604.76	0.00	0.00	0.00
22,800.00	89.90	179.61	11,847.28	-10,705.86	-124.61	10,704.76	0.00	0.00	0.00
22,900.00	89.90	179.61	11,847.46	-10,805.85	-123.93	10,804.76	0.00	0.00	0.00
23,000.00	89.90	179.61	11,847.64	-10,905.85	-123.24	10,904.76	0.00	0.00	0.00
23,100.00	89.90	179.61	11,847.82	-11,005.85	-122.56	11,004.76	0.00	0.00	0.00
23,200.00	89.90	179.61	11,848.01	-11,105.85	-121.88	11,104.76	0.00	0.00	0.00
23,300.00	89.90	179.61	11,848.19	-11,205.84	-121.19	11,204.76	0.00	0.00	0.00
23,400.00	89.90	179.61	11,848.37	-11,305.84	-120.51	11,304.76	0.00	0.00	0.00
23,500.00	89.90	179.61	11,848.55	-11,405.84	-119.83	11,404.76	0.00	0.00	0.00
23,600.00	89.90	179.61	11,848.73	-11,505.84	-119.14	11,504.76	0.00	0.00	0.00
23,700.00	89.90	179.61	11,848.91	-11,605.83	-118.46	11,604.76	0.00	0.00	0.00
23,800.00	89.90	179.61	11,849.09	-11,705.83	-117.78	11,704.76	0.00	0.00	0.00
23,900.00	89.90	179.61	11,849.28	-11,805.83	-117.09	11,804.76	0.00	0.00	0.00
24,000.00	89.90	179.61	11,849.46	-11,905.83	-116.41	11,904.76	0.00	0.00	0.00
24,100.00	89.90	179.61	11,849.64	-12,005.82	-115.73	12,004.76	0.00	0.00	0.00
24,200.00	89.90	179.61	11,849.82	-12,105.82	-115.04	12,104.76	0.00	0.00	0.00
24,300.00	89.90	179.61	11,850.00	-12,205.82	-114.36	12,204.76	0.00	0.00	0.00
24,400.00	89.90	179.61	11,850.18	-12,305.82	-113.68	12,304.76	0.00	0.00	0.00
24,500.00	89.90	179.61	11,850.36	-12,405.81	-112.99	12,404.76	0.00	0.00	0.00
24,600.00	89.90	179.61	11,850.55	-12,505.81	-112.31	12,504.76	0.00	0.00	0.00
24,700.00	89.90	179.61	11,850.73	-12,605.81	-111.63	12,604.76	0.00	0.00	0.00
24,720.19	89.90	179.61	11,850.76	-12,626.00	-111.49	12,624.95	0.00	0.00	0.00
24,800.00	89.90	179.61	11,850.91	-12,705.81	-110.94	12,704.76	0.00	0.00	0.00
24,850.19	89.90	179.61	11,851.00	-12,756.00	-110.60	12,754.95	0.00	0.00	0.00

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 07/23/18

☒ 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: PLU 17 Twin Wells Ranch West CTB

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
PLU 17 Twin Wells Ranch 701H		D-20-24S-31E	318' FNL & 533' FWL	2900	Flared/Sold	
PLU 17 Twin Wells Ranch 901H		D-20-24S-31E	283' FNL & 533' FWL	3000	Flared/Sold	
PLU 17 Twin Wells Ranch 102H		D-20-24S-31E	283' FNL & 783' FWL	2800	Flared/Sold	
PLU 17 Twin Wells Ranch 121H		D-20-24S-31E	248' FNL & 533' FWL	4800	Flared/Sold	
PLU 17 Twin Wells Ranch 122H		D-20-24S-31E	248' FNL & 783' FWL	4800	Flared/Sold	
PLU 17 Twin Wells Ranch 125H		B-20-24S-31E	5' FNL & 1863' FEL	4300	Flared/Sold	
PLU 17 Twin Wells Ranch 705H		B-20-24S-31E	75' FNL & 1863' FEL	2600	Flared/Sold	
PLU 17 Twin Wells Ranch 905H		B-20-24S-31E	40' FNL & 1863' FEL	2700	Flared/Sold	
PLU 17 Twin Wells Ranch 106H		B-20-24S-31E	40' FNL & 1613' FEL	2600	Flared/Sold	
PLU 17 Twin Wells Ranch 126H		B-20-24S-31E	5' FNL & 1613' FEL	4300	Flared/Sold	
PLU 17 Twin Wells Ranch 104H		C-20-24S-31E	282' FNL & 2272' FWL	2800	Flared/Sold	
PLU 17 Twin Wells Ranch 123H		C-20-24S-31E	247' FNL & 2023' FWL	4800	Flared/Sold	
PLU 17 Twin Wells Ranch 124H		C-20-24S-31E	247' FNL & 2273' FWL	3300	Flared/Sold	
PLU 17 Twin Wells Ranch 703H		C-20-24S-31E	317' FNL & 2023' FWL	2900	Flared/Sold	
PLU 17 Twin Wells Ranch 903H		C-20-24S-31E	282' FNL & 2023' FWL	3000	Flared/Sold	
PLU 17 Twin Wells Ranch 707H		A-20-24S-31E	95' FNL & 1035' FEL	2600	Flared/Sold	
PLU 17 Twin Wells Ranch 907H		A-20-24S-31E	60' FNL & 1035' FEL	2700	Flared/Sold	
PLU 17 Twin Wells Ranch 108H		A-20-24S-31E	60' FNL & 785' FEL	2600	Flared/Sold	
PLU 17 Twin Wells Ranch 127H		A-20-24S-31E	25' FNL & 1035' FEL	4300	Flared/Sold	
PLU 17 Twin Wells Ranch 128H		A-20-24S-31E	25' FNL & 785' FEL	4300	Flared/Sold	

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

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

GRADE D PRESSURE TEST CERTIFICATE

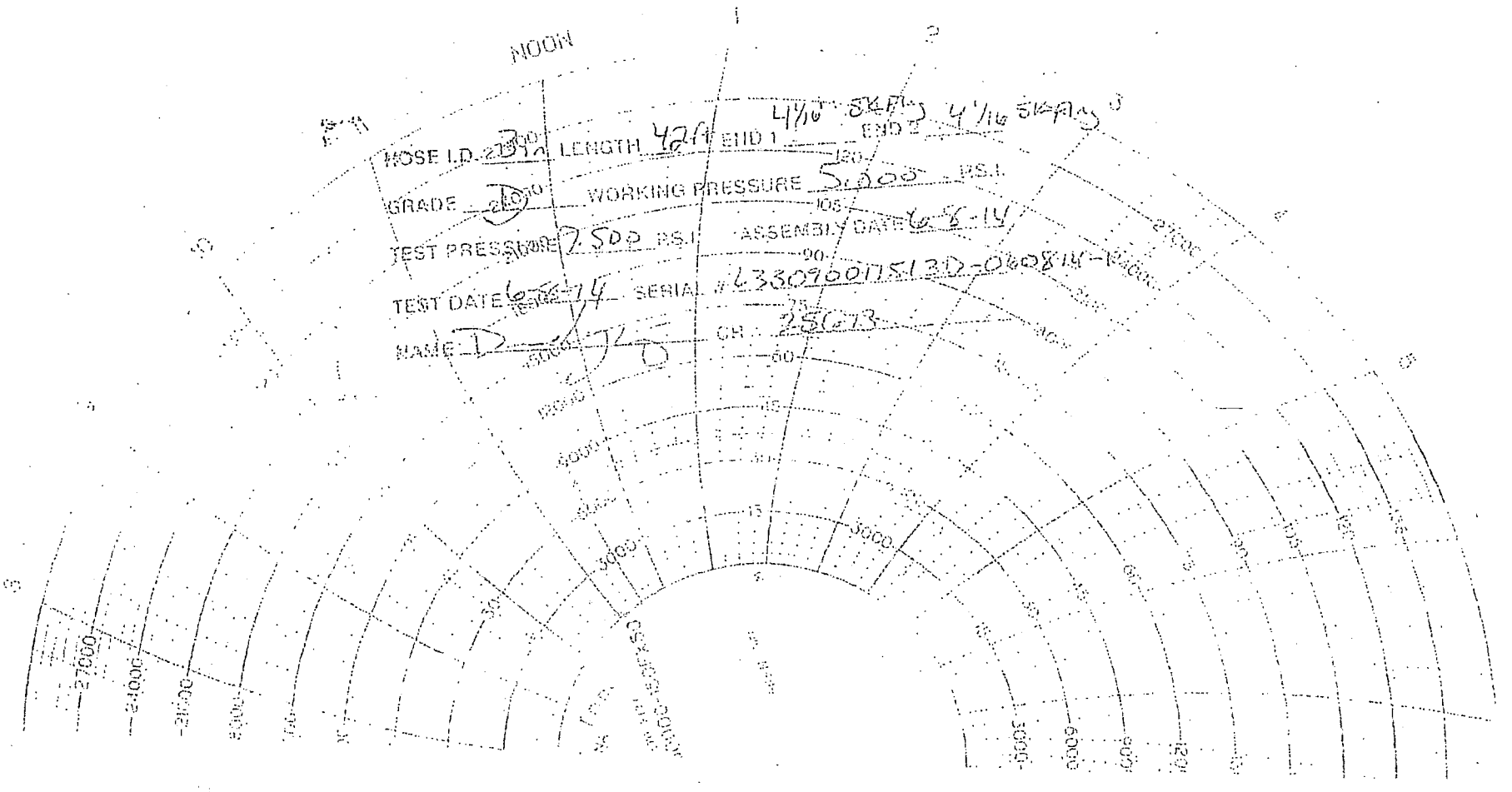
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By.	NORMA

Product Description:	FD3.0-12.0R41/16.5KFLGE/E LE

End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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

Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	


HOSE I.D. 2 1/2"
LENGTH 42"
END 1 4 1/16 SKRP
END 2 4 1/16 SKRP
GRADE D
WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I.
ASSEMBLY DATE 6-5-14
TEST DATE 6-6-14
SERIAL # 433076007513D-060814-1
NAME D
CR 25073

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	**OD**	**Primary Preventer**	**RWP**	**Alternate Preventer(s)**	**RWP**
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
    a. SIDPP & SICP
    b. Pit gain
    c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

ii. Pit gain
iii. Time

h. Regroup and identify forward plan

3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
   a. Sound alarm (alert crew)
   b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
   c. If impossible to pull string clear of the stack:
   d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
   e. Space out drill string with tooljoint just beneath the upper variable bore ram
   f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
   g. Confirm shut-in
   h. Notify toolpusher/company representative
   i. Read and record the following:
      i. SIDPP & SICP
      ii. Pit gain
      iii. Time
   j. Regroup and identify forward plan

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 17 Twin Wells Ranch area is accessed by existing U.S. Hwy 128 and Buck Jackson Rd. Go Southwest on Buck Jackson Rd (gravel) approx. 5.5 miles. Turn right (North) on lease road and go approx. 1.9 miles. Turn left (West) on lease road and go approx. 0.4 miles. Location is to the south. Transportation Plan identifying existing roads that will be used to access the project area is included from Frank's Surveying marked as, 'Topographical and Access Road Map.' 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 12.5 miles to the town of Malaga.
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:

PLU_17_TWR_1_Mile_20180829132923.pdf

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,TRUCKING

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 and transportation map:

PLU_17_TWR_121H_Road_20180829133127.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the 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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

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 FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

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

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

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

Safe containmant attachment:

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

Disposal type description:

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

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

Disposal type description:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

Section 9 - Well Site Layout

Well Site Layout Diagram:

PLU_17_TWR_121H_Layout_20180829133245.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 17 TWR

Multiple Well Pad Number: 1

Recontouring attachment:

PLU_17_TWR_Int_Rec_Pad1_20180829133306.pdf
PLU_17_TWR_Int_Rec_Pad2_20180829133324.pdf
PLU_17_TWR_Int_Rec_Pad3_20180829133335.pdf
PLU_17_TWR_Int_Rec_Pad4_20180829133347.pdf

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

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

Well pad proposed disturbance (acres): 22.84	**Well pad interim reclamation (acres):** 7.56	**Well pad long term disturbance (acres):** 15.28
Road proposed disturbance (acres): 5.29	**Road interim reclamation (acres):** 0	**Road long term disturbance (acres):** 5.29
Powerline proposed disturbance (acres): 0	**Powerline interim reclamation (acres):** 0	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 2.4	**Pipeline interim reclamation (acres):** 2.4	**Pipeline long term disturbance (acres):** 0
Other proposed disturbance (acres): 16.52	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 16.52
Total proposed disturbance: 47.05	**Total interim reclamation:** 9.96	**Total long term disturbance:** 37.09

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: Environmental Setting. The Berino component makes up 60 percent of the map unit. Slopes are 0 to 3 percent. This component is on fan piedmonts, uplands. The parent material consists of mixed alluvium and/or eolian sands. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth)

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

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 source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: 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:

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

Disturbance type: OTHER

Describe: Flowline

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 17 TWR **Well Number:** 121H

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

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 Apln/Fac-FLPMA,289001 ROW- O&G Well Pad,FLPMA (Powerline)

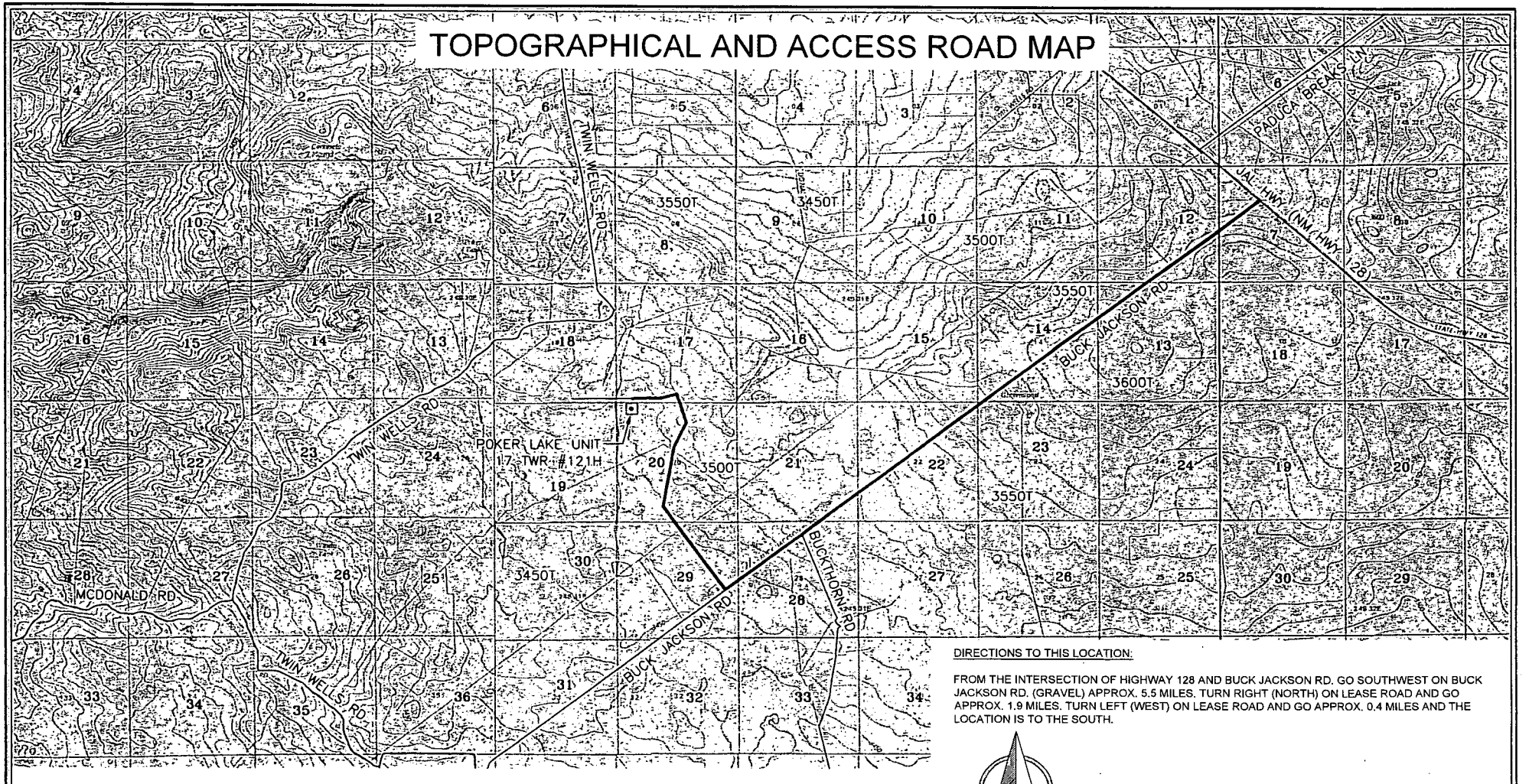
ROW Applications

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 on Federal lands with Fernando Banos, Bureau of Land Management Natural Resource Specialist in attendance. Re-staked pads on lease 5/10/18 with Colleen Cepero-Rios.

Other SUPO Attachment

TOPOGRAPHICAL AND ACCESS ROAD MAP



DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 5.5 MILES. TURN RIGHT (NORTH) ON LEASE ROAD AND GO APPROX. 1.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.4 MILES AND THE LOCATION IS TO THE SOUTH.

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

POKER LAKE UNIT 17 TWR #121H
LOCATED 533 FEET FROM THE WEST LINE
AND 248 FEET FROM THE NORTH LINE OF
SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

DATE:	05-16-2018	PROJECT NO:	2018010200
DRAWN BY:	AW	SCALE:	1" = 5,000'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE/RD	REVISION:	NO

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 00°21'19" W	472.94'

LINE TABLE "B"

L2	S 00°20'35" E	190.40'

LINE TABLE "C"

L3	N 00°22'13" W	473.42'

LINE TABLE "D"

L4	N 89°39'22" E	2015.26'
L5	N 34°17'11" E	377.53'
L6	N 89°39'34" E	131.70'

LINE TABLE "E"

L7	N 00°14'51" W	94.51'

LINE TABLE "F"

L8	N 00°25'10" W	75.03'

LINE TABLE "G"

L9	S 00°04'35" E	10.16'

TOTAL LENGTH = 3,840.95 FEET
OR 232.78 RODS

POKER LAKE UNIT 17 TWR PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 60.0 FEET WIDE AND 3,840.95 FEET, 232.78 RODS, OR 0.73 MILES IN LENGTH CROSSING SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 30.0 FEET RIGHT AND 30.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 5.20 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 NW/4 SECTION 20 = 472.94 FEET = 28.66 RODS = 0.65 ACRES
NE/4 NW/4 SECTION 20 = 663.82 FEET = 40.23 RODS = 0.91 ACRES
NW/4 NE/4 SECTION 20 = 1,133.88 FEET = 68.72 RODS = 1.52 ACRES
NE/4 NE/4 SECTION 20 = 1,560.15 FEET = 94.55 RODS = 2.11 ACRES
SE/4 NE/4 SECTION 20 = 10.16 FEET = 0.62 RODS = 0.01 OF AN ACRE

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

GENERAL NOTES

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

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

DATE:	08-20-2018
DRAWN BY:	AW/AI
CHECKED BY:	DH
FIELD CREW:	DL/MB
PROJECT NO:	2018010197
SCALE:	1" = 500'
SHEET:	2 OF 2
REVISION:	2

PLAT OF:

PROPOSED CENTERLINE OF
ACCESS ROAD FOR:
XTO PERMIAN OPERATING, LLC.
POKER LAKE UNIT 17 TWR
SITUATED IN SECTION 20,
TOWNSHIP 24 SOUTH, RANGE 31 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

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

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

SECTION 20
TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN

SW 4 NE 4 | SE 4 NE 4

POKER LAKE UNIT 17 TWR PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 8.26 acres and being situated in Section 20, Township 24 South, Range 31 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

BEGINNING at the southeast corner of the proposed facility pad from which a found 3/4" iron pipe with a brass cap, being the east quarter-corner of said Section 20, bears N 83°39'46" E 1,091.80 feet;

THENCE over and across said Section 20, the following courses and distances:

S 89°39'24" W, a distance of 600.00 feet to a point;

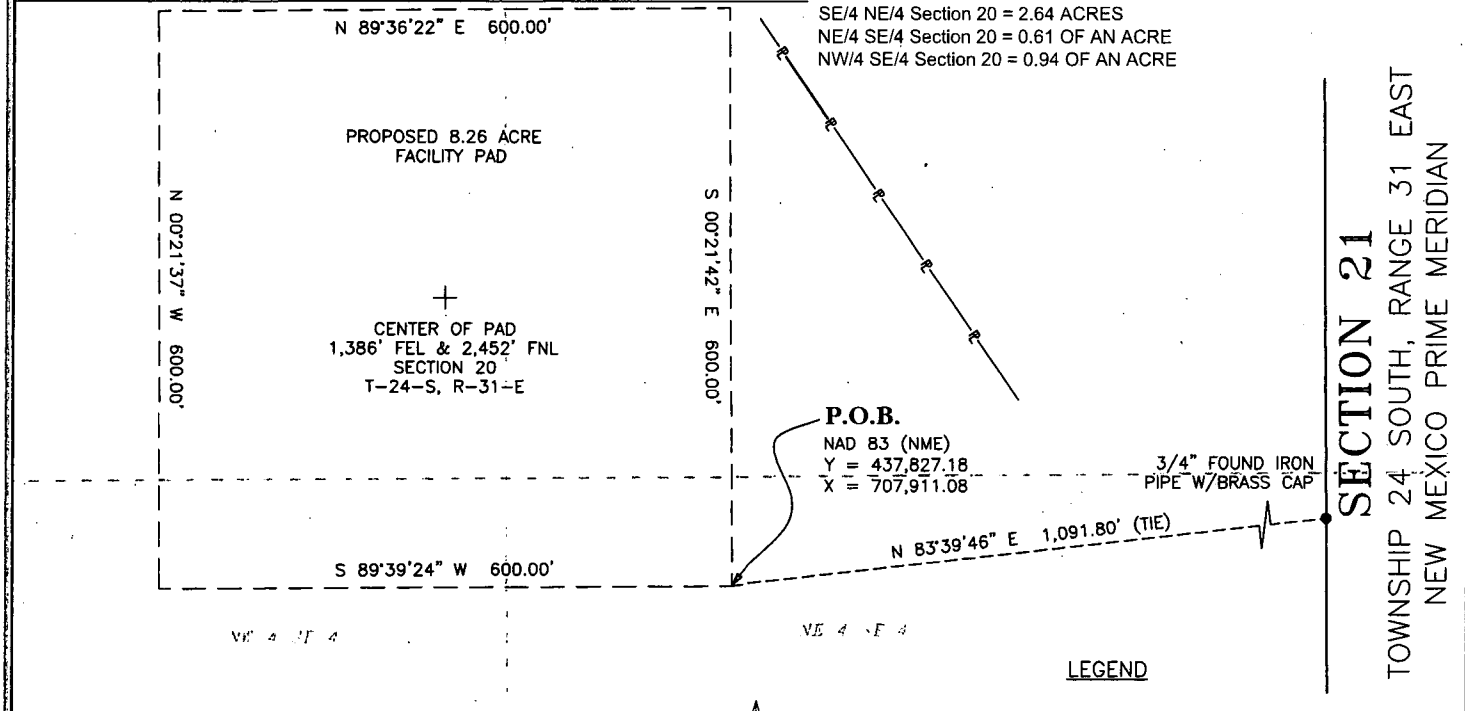
N 00°21'37" W, a distance of 600.00 feet to a point;

N 89°36'22" E, a distance of 600.00 feet to a point;

S 00°21'42" E, a distance of 600.00 feet to the POINT OF BEGINNING containing a total of **8.26 acres**, more or less.

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

SW/4 NE/4 Section 20 = 4.07 ACRES
SE/4 NE/4 Section 20 = 2.64 ACRES
NE/4 SE/4 Section 20 = 0.61 OF AN ACRE
NW/4 SE/4 Section 20 = 0.94 OF AN ACRE



LEGEND

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

0 100' 200'
1" = 200 FEET

GENERAL NOTES

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

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

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

MARK DILLON HARP · NEW MEXICO · 23786 · PROFESSIONAL SURVEYOR

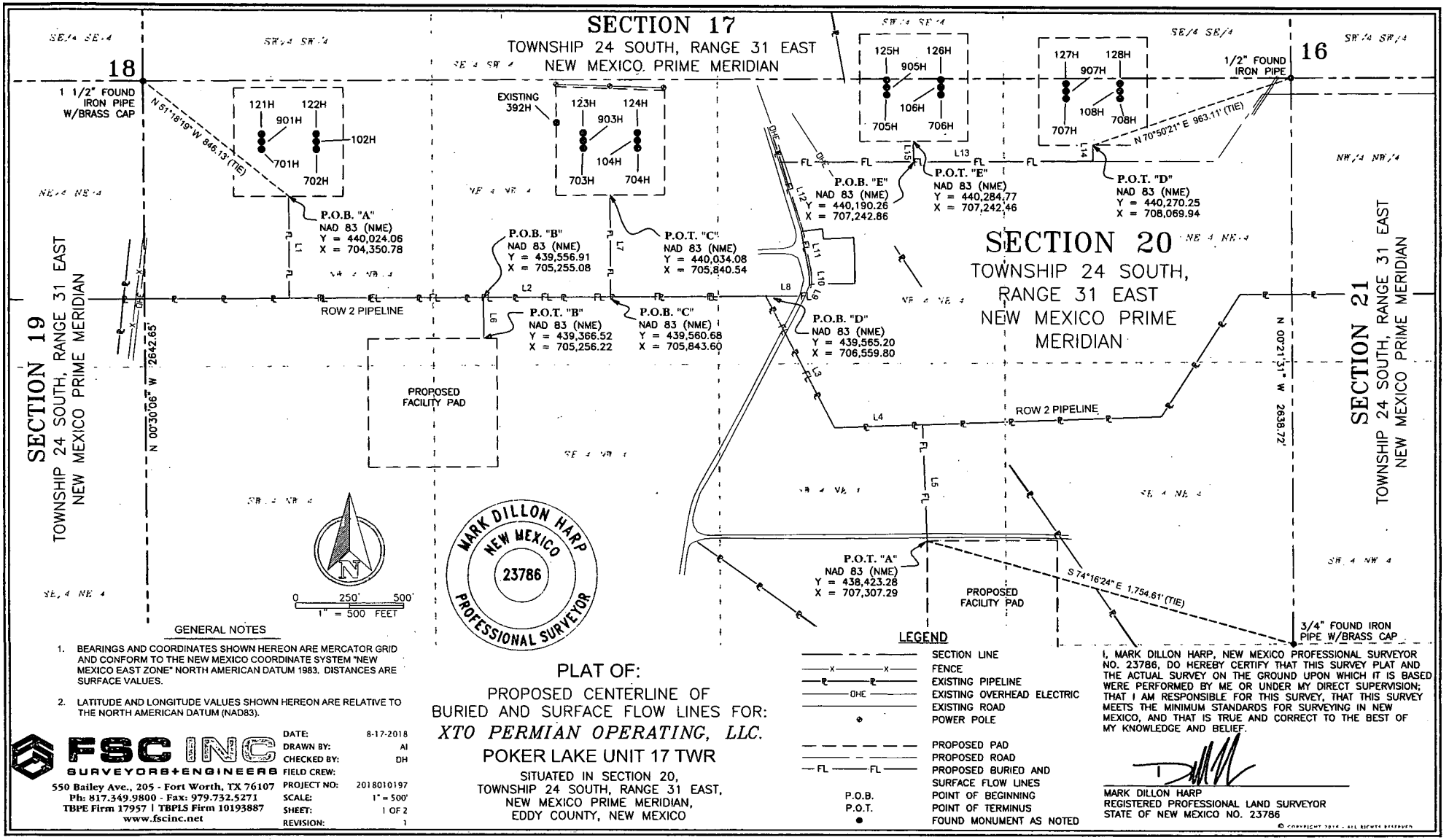
FSC INC SURVEYORS+ENGINEERS
550 Bailey Ave., 205 - Fort Worth, TX 76107
Ph: 817.349.9800 - Fax: 979.732.5271
TBPE Firm 17957 | TBPLS Firm 10193887
www.fscinc.net

XTO PERMIAN OPERATING, LLC.

PROPOSED FACILITY PAD
POKER LAKE UNIT 17 TWR

SURVEY FOR A PROPOSED FACILITY PAD SITUATED IN THE NE/4 & SE/4 OF SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	06-18-2018	PROJECT NO:	2018010197
DRAWN BY:	AW	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	NO



GENERAL NOTES

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

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

DATE:	8-17-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010197
SCALE:	1" = 500'
SHEET:	1 OF 2
REVISION:	1

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

PLAT OF:

PROPOSED CENTERLINE OF BURIED AND SURFACE FLOW LINES FOR:

XTO PERMIAN OPERATING, LLC.

POKER LAKE UNIT 17 TWR

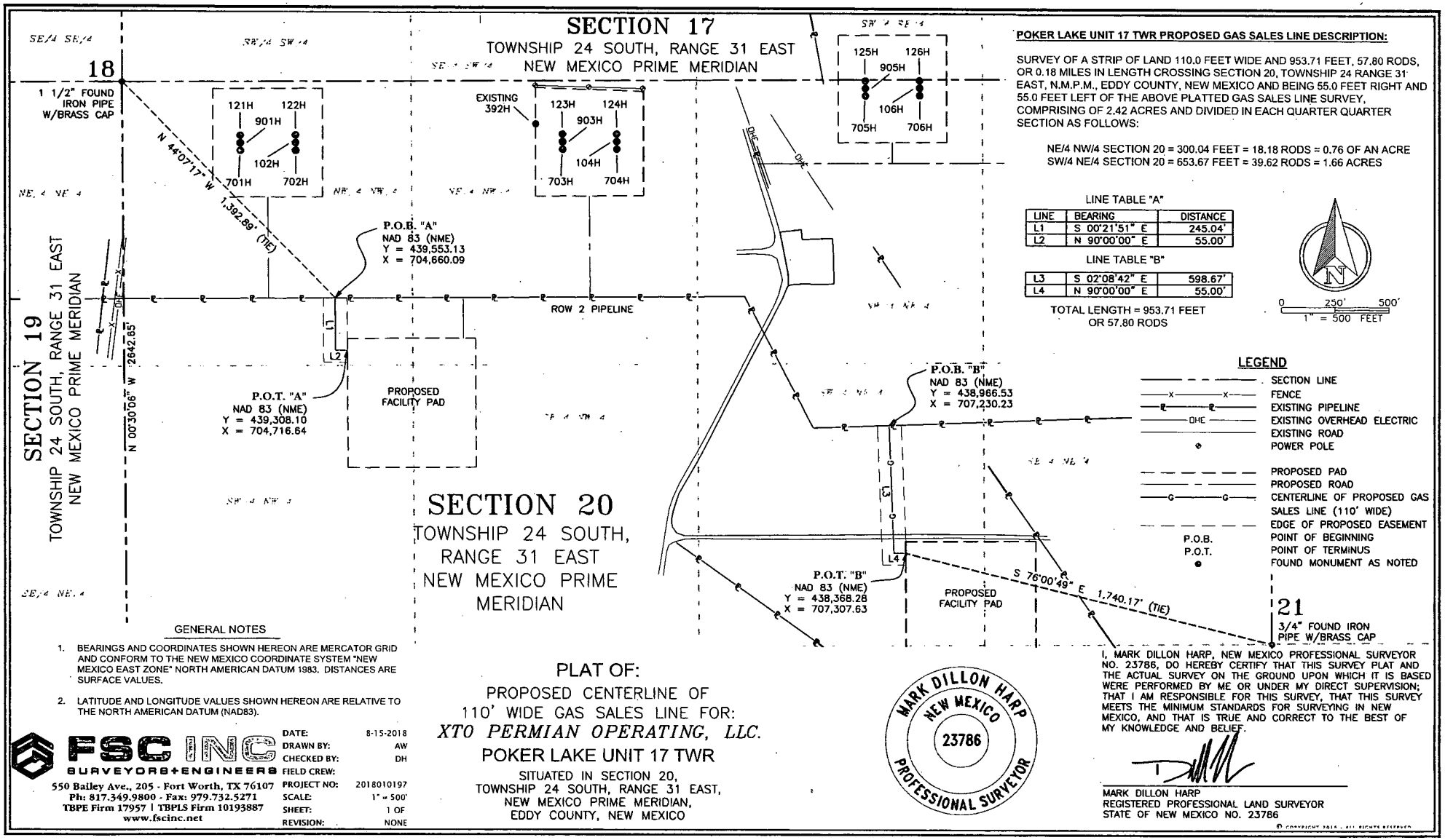
SITUATED IN SECTION 20,
TOWNSHIP 24 SOUTH, RANGE 31 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- FENCE
- EXISTING PIPELINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING ROAD
- POWER POLE
- PROPOSED PAD
- PROPOSED ROAD
- PROPOSED BURIED AND SURFACE FLOW LINES
- P.O.B. POINT OF BEGINNING
- P.O.T. POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

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

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



POKER LAKE UNIT 17 TWR PROPOSED GAS SALES LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 110.0 FEET WIDE AND 953.71 FEET, 57.80 RODS, OR 0.18 MILES IN LENGTH CROSSING SECTION 20, TOWNSHIP 24 RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 55.0 FEET RIGHT AND 55.0 FEET LEFT OF THE ABOVE PLATTED GAS SALES LINE SURVEY, COMPRISING OF 2.42 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NE/4 NW/4 SECTION 20 = 300.04 FEET = 18.18 RODS = 0.76 OF AN ACRE
SW/4 NE/4 SECTION 20 = 653.67 FEET = 39.62 RODS = 1.66 ACRES

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 00°21'51" E	245.04'
L2	N 90°00'00" E	55.00'

LINE TABLE "B"

L3	S 02°08'42" E	598.67'
L4	N 90°00'00" E	55.00'

TOTAL LENGTH = 953.71 FEET
OR 57.80 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).

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

DATE:	8-15-2018
DRAWN BY:	AW
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010197
SCALE:	1" = 500'
SHEET:	1 OF
REVISION:	NONE

PLAT OF:

PROPOSED CENTERLINE OF
110' WIDE GAS SALES LINE FOR:
XTO PERMIAN OPERATING, LLC.
POKER LAKE UNIT 17 TWR
SITUATED IN SECTION 20,
TOWNSHIP 24 SOUTH, RANGE 31 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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

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

LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 00°21'19" W	472.94'

LINE TABLE "B"

L2	S 00°20'35" E	190.40'

LINE TABLE "C"

L3	N 00°58'44" W	485.10'

LINE TABLE "D"

L4	S 02°19'14" E	545.76'

LINE TABLE "E"

L5	N 25°55'02" E	60.92'
L6	N 02°11'40" W	58.49'
L7	N 10°52'03" W	196.71'
L8	N 17°49'11" W	333.64'
L9	N 89°39'22" E	1439.41'
L10	N 00°25'10" W	75.03'

LINE TABLE "F"

L11	N 00°14'51" W	94.51'

TOTAL LENGTH = 3,952.91 FEET
OR 239.57 RODS

POKER LAKE UNIT 17 TWR PROPOSED OVERHEAD ELECTRIC LINES DESCRIPTION:

SURVEY OF A STRIP OF LAND 3,952.91 FEET, 239.57 RODS, OR 0.75 MILES IN LENGTH CROSSING SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 NW/4 SECTION 20 = 472.94 FEET = 28.66 RODS
NE/4 NW/4 SECTION 20 = 675.50 FEET = 40.94 RODS
NW/4 NE/4 SECTION 20 = 1,773.11 FEET = 107.46 RODS
NE/4 NE/4 SECTION 20 = 485.60 FEET = 29.43 RODS
SW/4 NE/4 SECTION 20 = 545.76 FEET = 33.08 RODS

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

GENERAL NOTES

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

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

DATE:	8-17-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010197
SCALE:	1" = 500'
SHEET:	2 OF 2
REVISION:	1

PLAT OF:

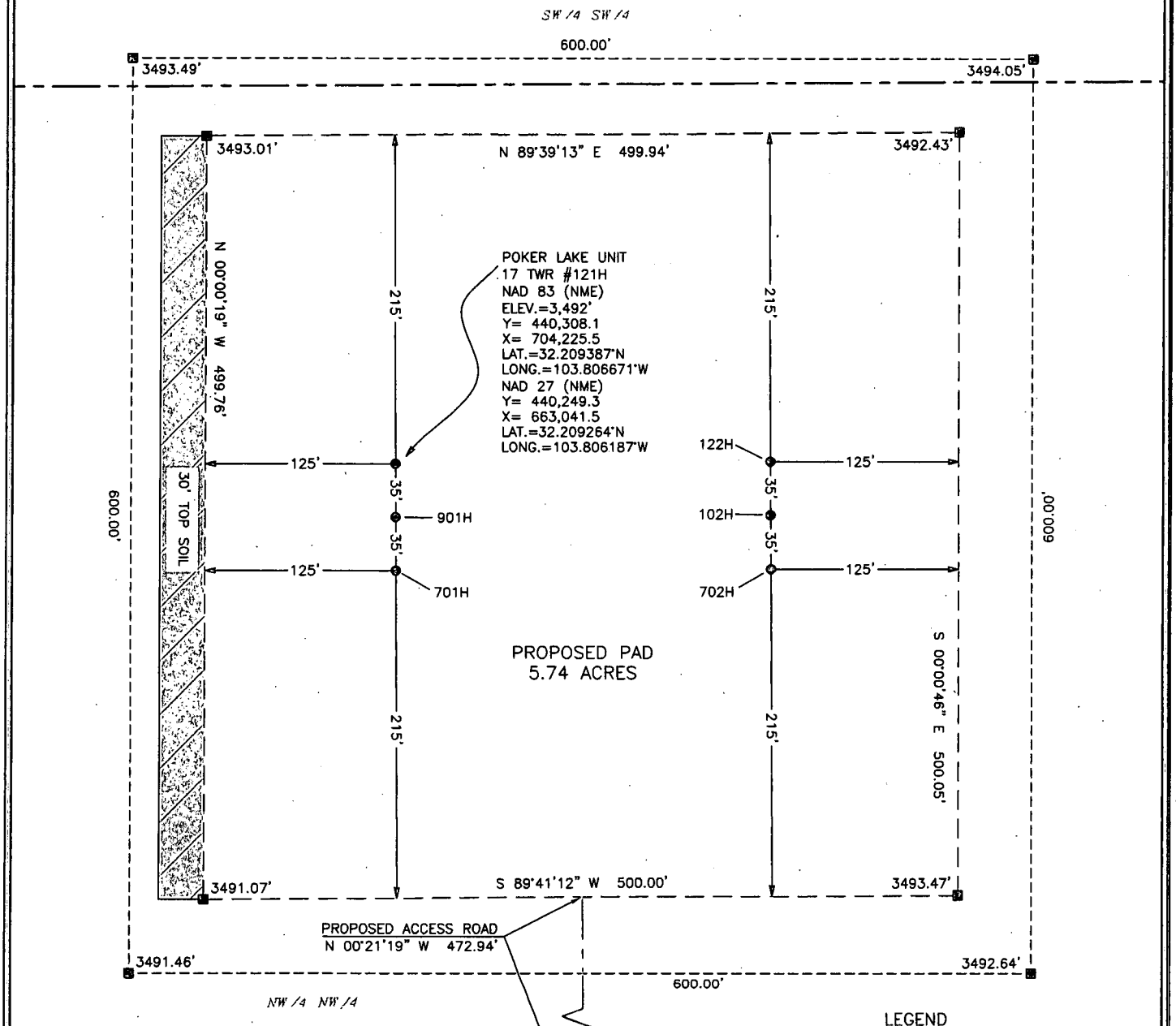
PROPOSED CENTERLINE OF
OVERHEAD ELECTRIC LINES FOR:
XTO PERMIAN OPERATING, LLC.
POKER LAKE UNIT 17 TWR
SITUATED IN SECTION 20,
TOWNSHIP 24 SOUTH, RANGE 31 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

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

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

SECTION 17

TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN



SECTION 20

TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN

LEGEND

- PROPOSED ACCESS RD.
- PROPOSED PAD
- SECTION LINE

NOTE:

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

0 50' 100'
1" = 100 FEET

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 5.5 MILES. TURN RIGHT (NORTH) ON LEASE ROAD AND GO APPROX. 1.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.4 MILES AND THE LOCATION IS TO THE SOUTH.

XTO PERMIAN OPERATING, LLC.

WELL SITE PLAN

POKER LAKE UNIT 17 TWR #121H
LOCATED 533 FEET FROM THE WEST LINE AND 248 FEET FROM THE NORTH LINE OF SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

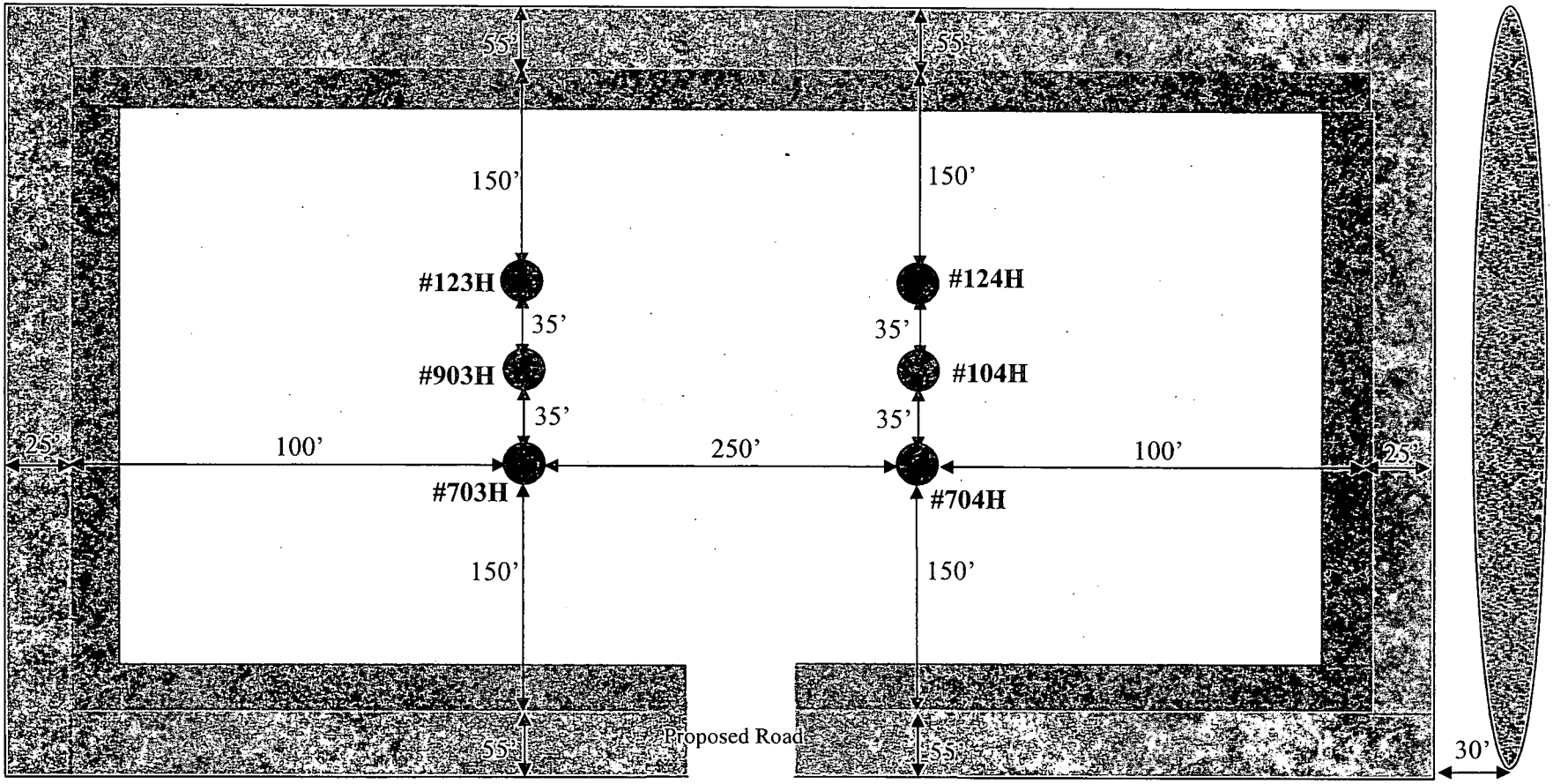
DATE:	07-13-2018	PROJECT NO:	2018010200
DRAWN BY:	AW/TM	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	2

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

Interim Reclamation Diagram

Poker Lake Unit 17 TWR 703H, 903H, 123H, 704H, 104H, 124H

V-Door North: 703H, 903H, 123H; **V-Door South**: 704H, 104H, 124H



LEGEND

N

Wellbore

Interim Reclamation

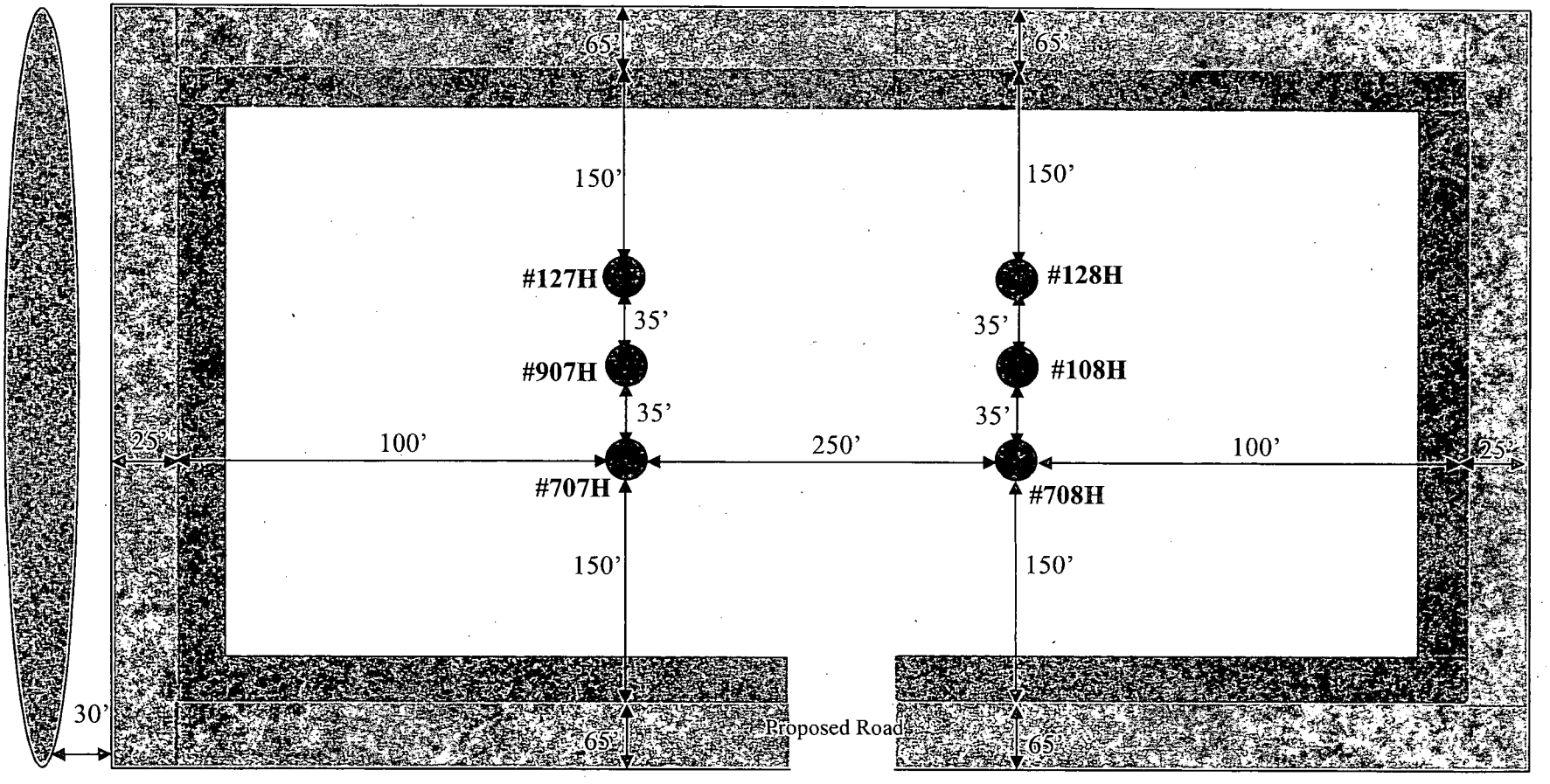
Ditch & Berm

Topsoil

Interim Reclamation Diagram

Poker Lake Unit 17 TWR 707H, 907H, 127H, 708H, 108H, 128H

V-Door North: 707H, 907H, 127H; **V-Door South**: 708H, 108H, 128H



LEGEND

N

Wellbore

Interim Reclamation

Ditch & Berm

Topsoil

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 Western most facility is the PLU 17 TWR West CTB and the Eastern most facility is the PLU 17 TWR East CTB. The pads are located in Section 20-T24S-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, 24-6" composite flexpipe or steel flowlines with a maximum safety pressure rating of 750psi (operating pressure: 125psi) will be buried within proposed lease road corridors from the proposed wells to the PLU 17 TWR East CTB and the PLU 17 TWR West CTB where the oil, gas, and water will be metered and appropriately separated. An additional 24-6" high pressure gas lines will be buried within the proposed lease road corridors for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately

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

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

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

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

Reclamation Standards:

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

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

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

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

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

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

Seeding:

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

11. Surface Ownership

A. Within the Poker Lake Unit 17 Twin Wells Ranch: 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

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB000050**Operator's Representatives**:

The XTO representatives for ensuring compliance of the surface use plan are listed below:

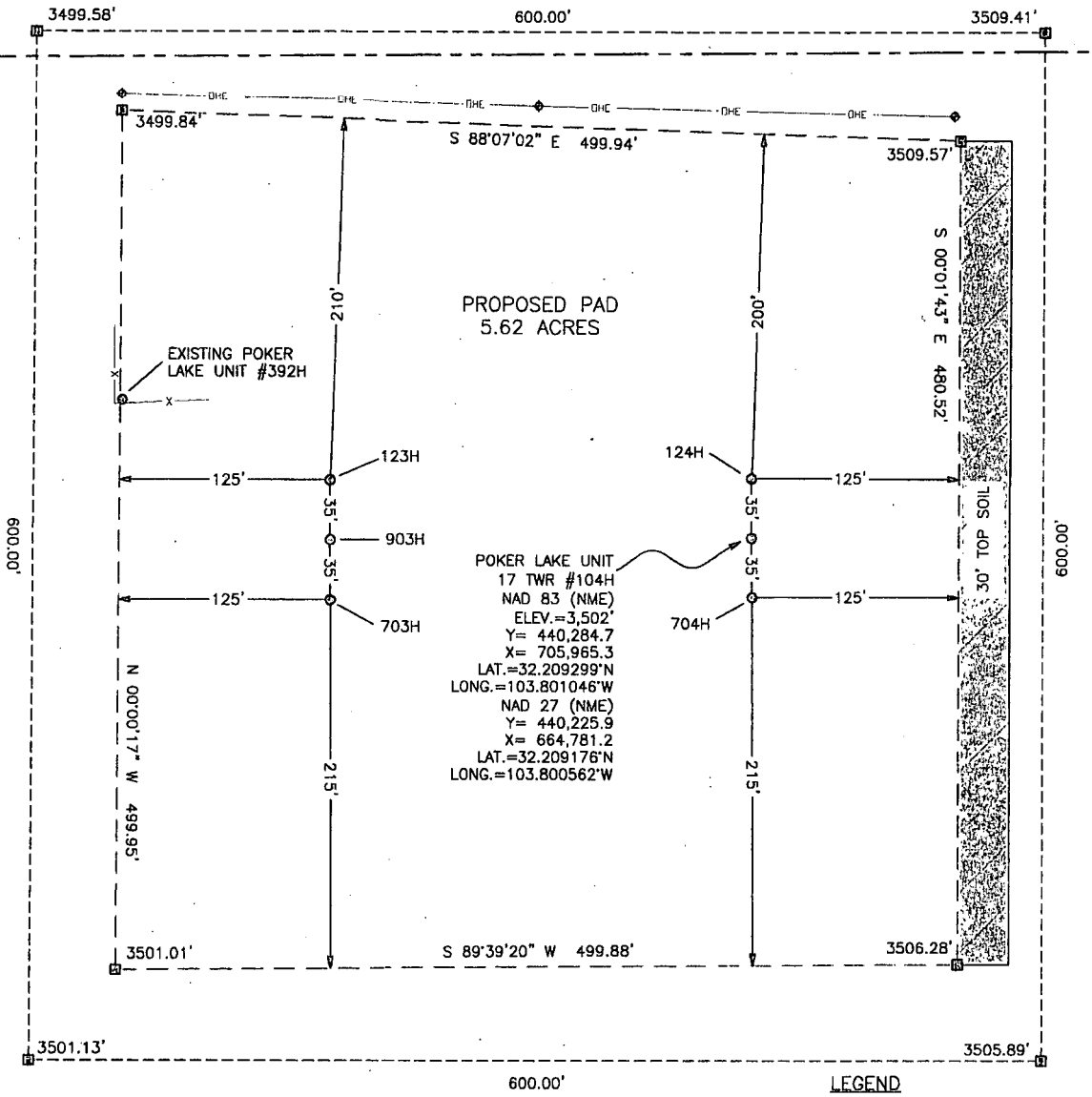
Surface:

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

Jeff Raines
Construction Superintendent
XTO Energy, Incorporated
500 W. Illinois St., Suite 100
Midland, Texas 79701
432-620-4349
jeff_raines@xtoenergy.com

SECTION 17

TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN

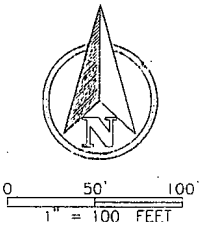


SECTION 20

TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN

LEGEND

- PROPOSED PAD
- SECTION LINE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- POWER POLE



NOTE:

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

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 5.5 MILES. TURN RIGHT (NORTH) ON LEASE ROAD AND GO APPROX. 1.9 MILES. TURN LEFT (WEST) ON LEASE ROAD AND GO APPROX. 0.1 MILES AND THE LOCATION IS TO THE SOUTH.

XTO PERMIAN OPERATING, LLC.

WELL SITE PLAN

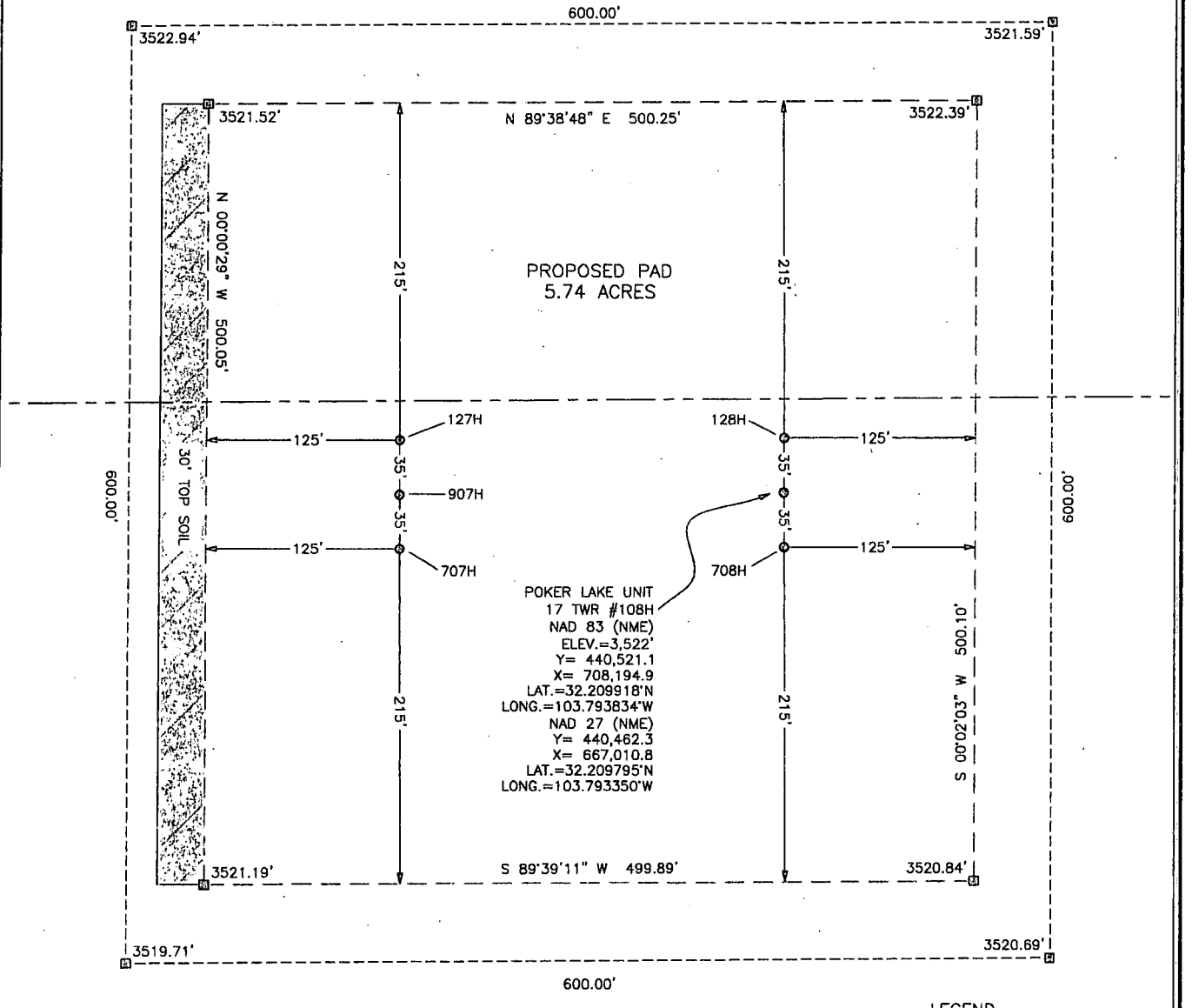
POKER LAKE UNIT 17 TWR #104H
LOCATED 2,272 FEET FROM THE WEST LINE AND 282 FEET FROM THE NORTH LINE OF SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

DATE:	05-21-2018	PROJECT NO:	2018010207
DRAWN BY:	AW	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	0

SECTION 17

TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN



SECTION 20

TOWNSHIP 24 SOUTH, RANGE 31 EAST
NEW MEXICO PRIME MERIDIAN

LEGEND

PROPOSED PAD

SECTION LINE

NOTE:

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

0 50' 100'
1" = 100 FEET

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 5.5 MILES. TURN RIGHT (NORTH) ON LEASE ROAD AND GO APPROX. 1.8 MILES AND THE LOCATION IS TO THE EAST.

XTO PERMIAN OPERATING, LLC.

WELL SITE PLAN

POKER LAKE UNIT 17 TWR #108H
LOCATED 785 FEET FROM THE EAST LINE
AND 60 FEET FROM THE NORTH LINE OF
SECTION 20, TOWNSHIP 24 SOUTH, RANGE 31
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

DATE:	05-21-2018	PROJECT NO:	2018010213
DRAWN BY:	AW	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	0

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

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

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

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

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

AFMSS

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

Bond Info Data Report

03/22/2019

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?

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: