

# NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-3  
(June 2015)

MAR 29 2019

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. NMLC0063079A  6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No. POKER LAKE / NMNM071016X 8. Lease Name and Well No. POKER LAKE UNIT 25 BD 9. API Well No. 30-015-45851
2. Name of Operator XTO PERMIAN OPERATING LLC  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 GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 25 / T2S5 / R30E / NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SENE / 2310 FNL / 630 FEL / LAT 32.102169 / LONG -103.828055 At proposed prod. zone SENE / 2440 FNL / 360 FEL / LAT 32.057932 / LONG -103.827325		
14. Distance in miles and direction from nearest town or post office*  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 1762.82 17. Spacing Unit dedicated to this well 960 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet 19. Proposed Depth 11710 feet / 27454 feet 20. BLM/BIA Bond No. in file FED: COB000050 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3366 feet 22. Approximate date work will start* 03/01/2019 23. Estimated duration 90 days		12. County or Parish EDDY 13. State NM

### 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.<br>2. A Drilling Plan.<br>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).<br>5. Operator certification.<br>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 10/29/2018
Title Regulatory Coordinator		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 03/27/2019
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

(Continued on page 2)

Approval Date: 03/27/2019

\*(Instructions on page 2)

RWP 4-12-19

## INSTRUCTIONS

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

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

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

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

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

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

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

## NOTICES

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

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

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

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

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

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

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

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

## Additional Operator Remarks

### Location of Well

1. SHL: SENE / 2310 FNL / 630 FEL / TWSP: 25S / RANGE: 30E / SECTION: 25 / LAT: 32.102169 / LONG: -103.828055 ( TVD: 0 feet, MD: 0 feet )  
PPP: SENE / 1650 FNL / 360 FEL / TWSP: 26S / RANGE: 30E / SECTION: 1 / LAT: 32.07498 / LONG: -103.82831 ( TVD: 11710 feet, MD: 21297 feet )  
PPP: NENE / 330 FNL / 360 FEL / TWSP: 26S / RANGE: 30E / SECTION: 1 / LAT: 32.07887 / LONG: -103.82844 ( TVD: 11710 feet, MD: 19977 feet )  
PPP: NESE / 2310 FSL / 360 FEL / TWSP: 25S / RANGE: 30E / SECTION: 25 / LAT: 32.100254 / LONG: -103.827198 ( TVD: 11710 feet, MD: 12057 feet )  
PPP: NENE / 330 FNL / 360 FEL / TWSP: 25S / RANGE: 30E / SECTION: 36 / LAT: 32.09298 / LONG: -103.82921 ( TVD: 11710 feet, MD: 14697 feet )  
BHL: SENE / 2440 FNL / 360 FEL / TWSP: 26S / RANGE: 30E / SECTION: 12 / LAT: 32.057932 / LONG: -103.827325 ( TVD: 11710 feet, MD: 27454 feet )

## BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

## **Review and Appeal Rights**

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

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>XTO Permian Operating, LLC</b>
<b>LEASE NO.:</b>	<b>NMLC-0063079A</b>
<b>WELL NAME &amp; NO.:</b>	<b>Poker Lake Unit 25 BD 128H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>2310' FNL &amp; 0630' FEL</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>2440' FNL &amp; 0360' FEL Sec. 12, T. 26 S., R 30 E.</b>
<b>LOCATION:</b>	<b>Section 25, T. 25 S., R 30 E., NMPM</b>
<b>COUNTY:</b>	<b>County, New Mexico</b>

### **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 (H<sub>2</sub>S) monitors shall be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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.**

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

#### **B. CASING**

**Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.**

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

#### **Wait on cement (WOC) for Water Basin:**

**After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.**

**Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.**

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

#### **Medium Cave/Karst**

**Possibility of water flows in the Salado and Castile.**

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

**Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.**

1. The 13-3/8 inch surface casing shall be set at approximately 1137 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Formation below the 13-3/8" shoe to be tested according to Onshore Order**

**2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.**

**Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.**

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

- ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

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

**Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.**

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

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

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

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

## **C. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored



according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

3. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.**
  - a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
  - b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
  - c. **Manufacturer representative shall install the test plug for the initial BOP test.**
  - d. **Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.**
  - e. **If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**

**5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

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

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test 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 25 BD 128H
SURFACE HOLE FOOTAGE:	2310'/N & 630'/E
BOTTOM HOLE FOOTAGE:	2440'/N & 360'/E
LOCATION:	Section 25, T.25 S., R.30 E., NMPM
COUNTY:	Eddy County, New Mexico

## TABLE OF CONTENTS

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

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

## **I. GENERAL PROVISIONS**

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

## **II. PERMIT EXPIRATION**

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

## **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

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

## **IV. NOXIOUS WEEDS**

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

## **V. SPECIAL REQUIREMENT(S)**

### **Cave/Karst Surface Mitigation**

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

#### **Construction:**

##### **General Construction:**

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

##### **Pad Construction:**

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

- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

**Tank Battery Construction:**

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

**Road Construction:**

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

**Buried Pipeline/Cable Construction:**

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

**Powerline Construction:**

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

**Surface Flowlines Installation:**

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

**Leak Detection System:**

- A method of detecting leaks is required. The method could incorporate gauges to measure loss, siting valves and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present.
- A leak detection plan will be submitted to BLM that incorporates an automatic shut off system (see below) to minimize the effects of an undesirable event that could negatively sensitive cave/karst resources.

- Well heads, pipelines (surface and buried), storage tanks, and all supporting equipment should be monitored regularly after installation to promptly identify and fix leaks.

**Automatic Shut-off Systems:**

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

**Cave/Karst Subsurface Mitigation**

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

**Closed Loop System:**

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

**Rotary Drilling with Fresh Water:**

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

**Directional Drilling:**

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

**Lost Circulation:**

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

**Abandonment Cementing:**

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

**Pressure Testing:**

- The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice.



- If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

**Hydrology:**

The entire well pad(s) 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.

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

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

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

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be

taken to prevent future erosion. A power pole should not be placed drainages or floodplains and must span across the features at a distance away that would not promote further erosion.

## **VI. CONSTRUCTION**

### **A. NOTIFICATION**

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

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

### **B. TOPSOIL**

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

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

### **C. CLOSED LOOP SYSTEM**

Tanks are required for drilling operations: No Pits.

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

### **D. FEDERAL MINERAL MATERIALS PIT**

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

### **E. WELL PAD SURFACING**

Surfacing of the well pad is not required.

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

### **F. EXCLOSURE FENCING (CELLARS & PITS)**

**Exclosure Fencing**

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

**G. ON LEASE ACCESS ROADS****Road Width**

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

**Surfacing**

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

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

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

**Crowning**

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

**Ditching**

Ditching shall be required on both sides of the road.

**Turnouts**

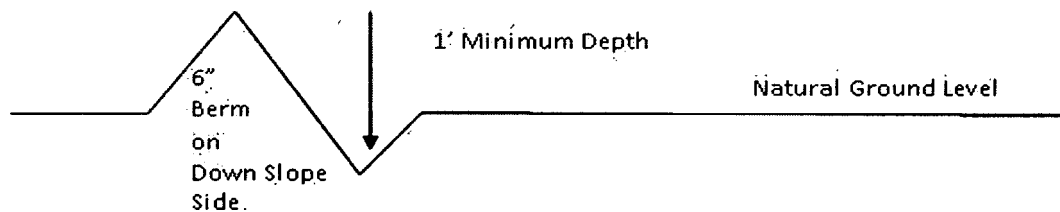
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

**Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing 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:

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

#### **Cattle guards**

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

#### **Fence Requirement**

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

#### **Public Access**

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

### Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

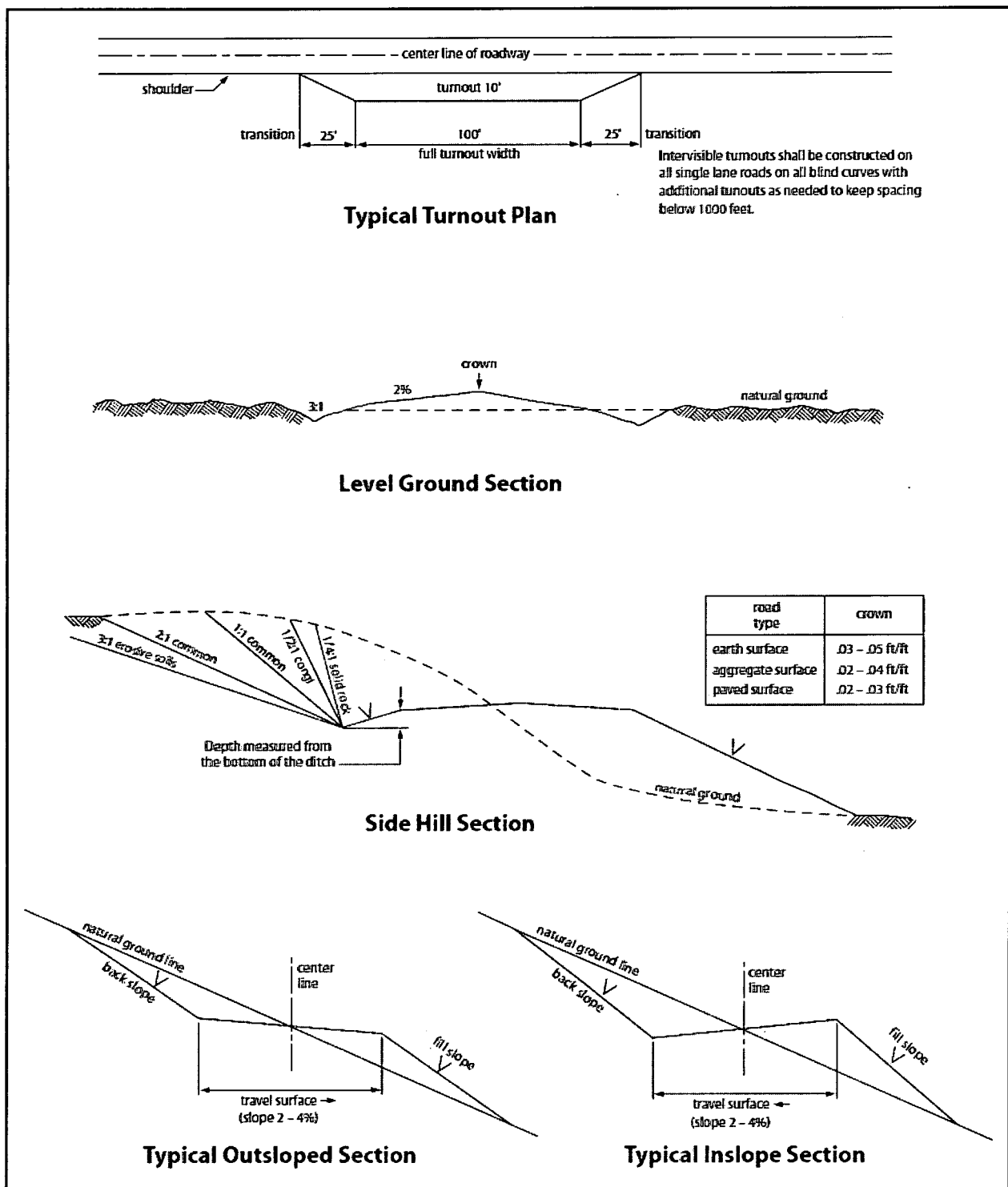


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## **VII. PRODUCTION (POST DRILLING)**

### **A. WELL STRUCTURES & FACILITIES**

#### **Placement of Production Facilities**

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

#### **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 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**

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

#### **Painting Requirement**

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

### **B. PIPELINES**

#### **STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES**

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

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

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without



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

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

writing by the Authorized Officer.

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

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

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

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

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

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

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

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

### **Gathering System and Pipeline Notification**

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Lucid and will be connected to Lucid low/high pressure gathering system located in Eddy County, New Mexico. It will require 851.19' of pipeline to connect the facility to low/high pressure gathering system. BOPCO provides (periodically) to Lucid a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, BOPCO and Lucid have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Red Hills Plant, Sec. 13, T24S, R33E or Roadrunner, Sec. 32, T32S, R28E, Eddy County. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

### **Flowback Strategy**

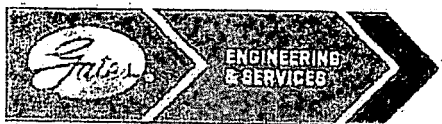
After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities.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

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

### **Alternatives to Reduce Flaring**

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

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



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

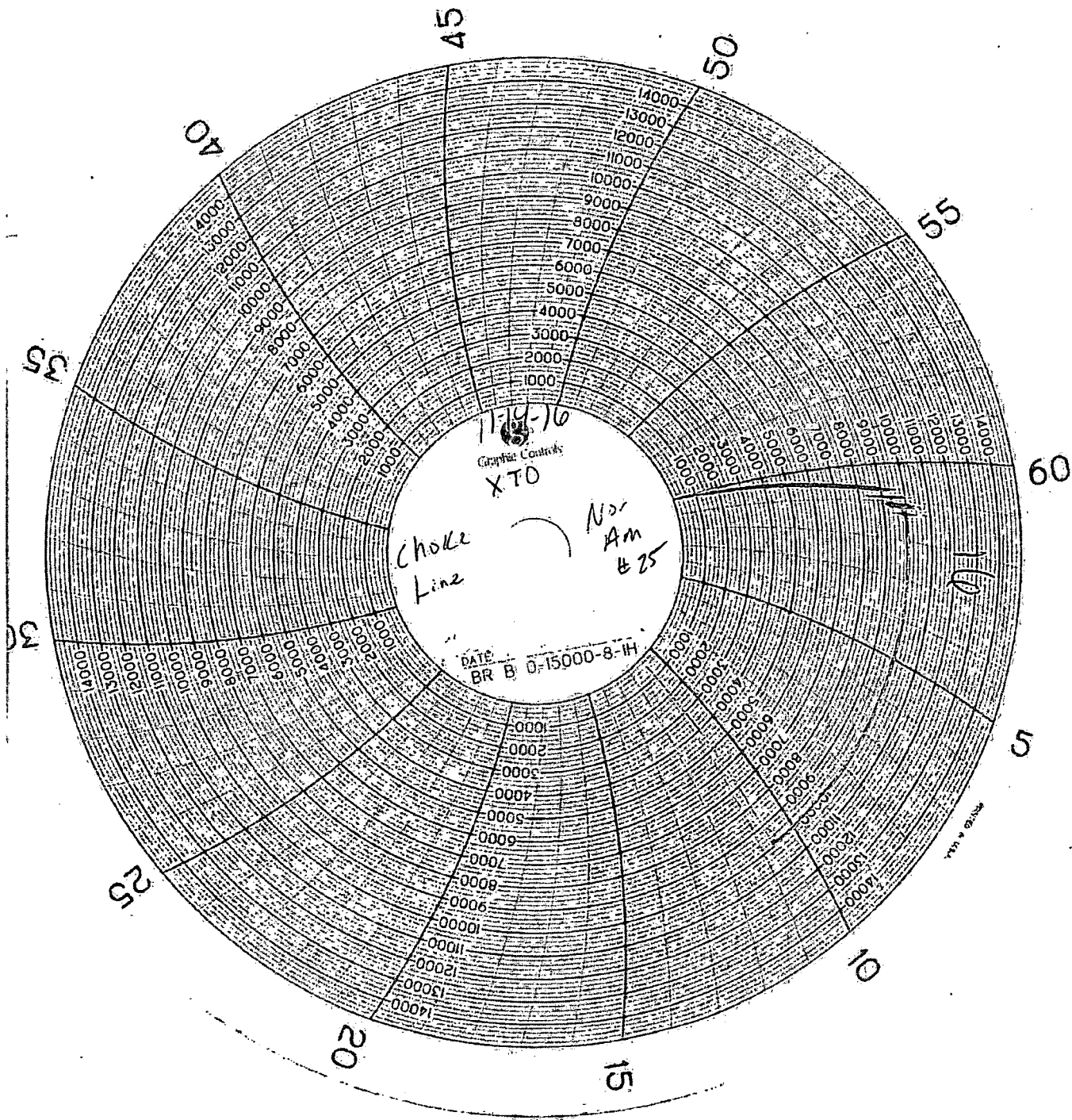
PHONE: 361-887-9807  
FAX: 361-887-0812  
EMAIL: crpe&s@gates.com  
WEB: www.gates.com

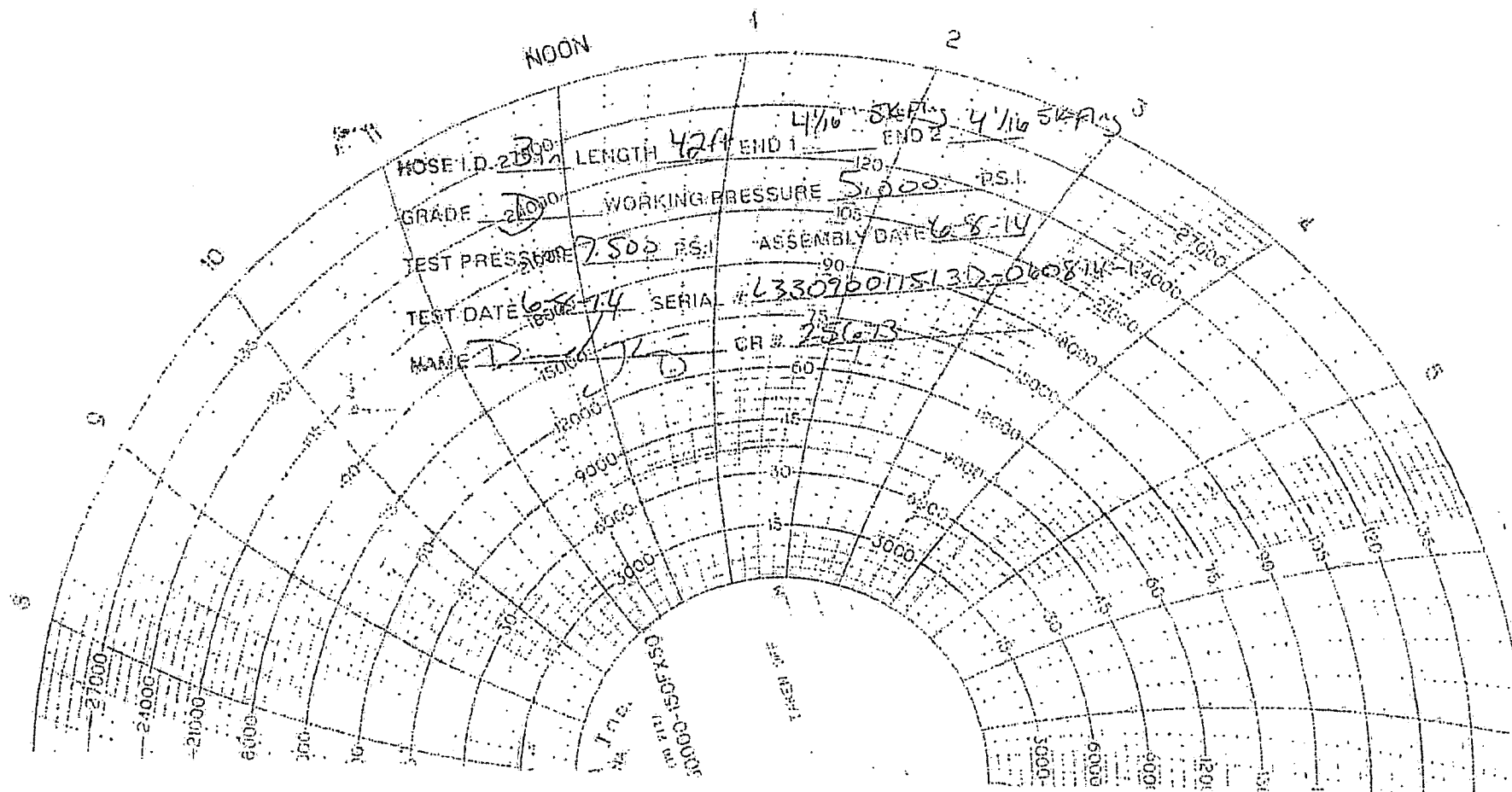
### GRADE D PRESSURE TEST CERTIFICATE

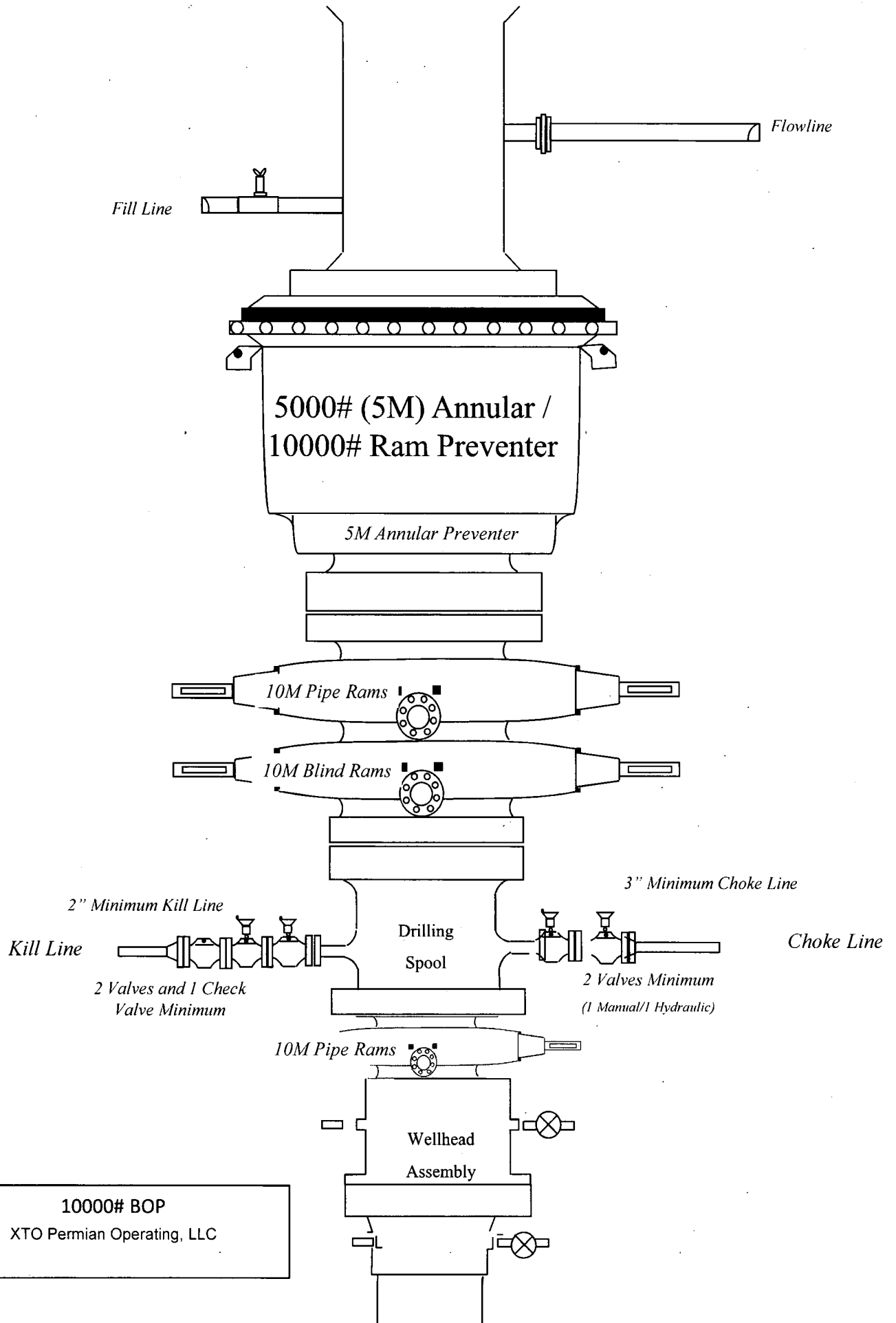
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORIYA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure.:	7,500 PSI

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

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









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

## SUPO Data Report

03/28/2019

APD ID: 10400034832

Submission Date: 10/03/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 25 BD

Well Number: 123H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PLU\_25\_BD\_123H\_Road\_20181003120807.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? YES

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

PLU\_25\_BD\_Access\_20180924074627.pdf

New road type: RESOURCE

Length: 4048.78 Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

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

**New road access plan or profile prepared?** NO

**New road access plan attachment:**



**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**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 25 Brushy Draw area is accessed from the intersection of Highway 128 and Buck Jackson Road. Go Southwest on Buck Jackson Rd (Gravel) approximately 11.5 miles to a "Y" intersection. Turn left (Southeast) to stay on Buck Jackson Road and go approximately 2.1 miles, arriving at the proposed road. Location is to the South. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, 'Topographical and Access Road Map.' There are no existing access roads to the proposed Poker Lake Unit 25 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed. The project is located approximately 27 miles to the town of Loving, New Mexico.

**Number of access turnouts:** 0

**Access turnout map:**

### Drainage Control

**New road drainage crossing:** OTHER

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

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

**Road Drainage Control Structures (DCS) attachment:**

### Access Additional Attachments

**Additional Attachment(s):**

### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

PLU\_25\_BD\_1\_Mile\_20180924074905.pdf

**Existing Wells description:**

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

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Two 600' x 600' pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The pads are located in Section 25-T25S-R30E NMPM, Eddy County, New Mexico. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, two facilities are anticipated to be necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. In the event the wells are found productive, 22-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the PLU 25 BD East CTB and the PLU 25 BD West CTB where the oil, gas, and water will be metered and separated. If XTO Permian Operating, LLC decides to run surface lines, 22-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed CTBs. An additional 10-22" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 8,859.32 or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. Approximately 4,271.03' falls within the Poker Lake Unit Row 5 MSO corridor (BLM-NM-P020-2018-0620-EA). A gas and oil purchaser has been identified. Two 110' corridors are requested to connect with the PLU Row 5 pipeline extending from the PLU 25 BD East CTB and the PLU 25 BD West CTB. XTO Permian Operating, LLC. will be installing the line with anticipated risers located on the CTB. The gas and oil purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. PLU 25 BD East GSL Approx. Length: 851.19'. PLU 25 BD West GSL Approx. Length: 847.85'. Produced water will be piped from location to a disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7. There will be 2 flares associated with the Poker Lake Unit 25 Brushy Draw project. The flare stacks will be 50'x50'. 1 will be located on the PLU 25 BD East CTB. 1 will be located on the PLU 25 BD West CTB. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas. All electrical poles and lines will be run off of the MSO corridor, extending to CTBs and well locations. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 4,049.04' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area.

**Production Facilities map:**

PLU\_25\_BD\_CTBE\_20180924075116.pdf

PLU\_25\_BD\_GS\_20180924075226.pdf

PLU\_25\_BD\_FL\_20180924075212.pdf

PLU\_25\_BD\_OHE\_20180924075247.pdf

PLU\_25\_BD\_CTBW\_20180924075129.pdf

#### Section 5 - Location and Types of Water Supply

##### Water Source Table

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**Water source use type:** INTERMEDIATE/PRODUCTION CASING,  
STIMULATION, SURFACE CASING

**Water source type:** OTHER

**Describe type:** Fresh Water; in Section 6, T25S-R29E

**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

**Water source type:** OTHER

**Describe type:** Fresh Water; Section 27, T25S-R30E

**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\_25\_BD\_123H\_Wtr\_20181003120927.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 ~1.5bbbls 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 25 BD

**Well Number:** 123H

### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

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

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

### Section 6 - Construction Materials

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

**Construction Materials source location attachment:**

### Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** Fluid

**Amount of waste:** 500 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Steel mud pits

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY

**Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**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 25 BD

**Well Number:** 123H

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

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)**

**Reserve pit width (ft.)**

**Reserve pit depth (ft.)**

**Reserve pit volume (cu. yd.)**

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

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

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

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

### Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

## Section 9 - Well Site Layout

### Well Site Layout Diagram:

PLU\_25\_BD\_123H\_Well\_20181003120959.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 25 BD

**Multiple Well Pad Number:** 2

### Recontouring attachment:

PLU\_25\_BD\_Int\_Rec\_Pad\_4\_20180924075624.pdf

PLU\_25\_BD\_Int\_Rec\_Pad\_3\_20180924075607.pdf

PLU\_25\_BD\_Int\_Rec\_Pad\_2\_20180924075554.pdf

PLU\_25\_BD\_Int\_Rec\_Pad\_1\_20180924075541.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):** 21.58  
**Road proposed disturbance (acres):** 2.79  
**Powerline proposed disturbance (acres):** 0  
**Pipeline proposed disturbance (acres):** 4.29  
**Other proposed disturbance (acres):** 16.54  
**Total proposed disturbance:** 45.2

**Well pad interim reclamation (acres):** 8.16  
**Road interim reclamation (acres):** 0  
**Powerline interim reclamation (acres):** 0  
**Pipeline interim reclamation (acres):** 4.29  
**Other interim reclamation (acres):** 0  
**Total interim reclamation:** 12.45

**Well pad long term disturbance (acres):** 13.42  
**Road long term disturbance (acres):** 2.79  
**Powerline long term disturbance (acres):** 0  
**Pipeline long term disturbance (acres):** 0  
**Other long term disturbance (acres):** 16.54  
**Total long term disturbance:** 32.75

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

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

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

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

**Existing Vegetation at the well pad attachment:**

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

**Existing Vegetation Community at the road attachment:**

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

**Existing Vegetation Community at the pipeline attachment:**

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

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

## Seed Management

### Seed Table

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**



**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

Seed Summary	
Seed Type	Pounds/Acre

**Total 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:**

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

**Weed treatment plan attachment:**

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

**Monitoring plan attachment:**

**Success standards:** 100% compliance with applicable regulations.

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

**Pit closure attachment:**

**Section 11 - Surface Ownership**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**Disturbance type:** OTHER

**Describe:** CTB

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** OTHER

**Describe:** 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:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

**Disturbance type:** OTHER

**Describe:** Electric

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** XTO PERMIAN OPERATING LLC

**Well Name:** POKER LAKE UNIT 25 BD

**Well Number:** 123H

## Section 12 - Other Information

**Right of Way needed?** YES

**Use APD as ROW?** YES

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

### ROW Applications

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

**Use a previously conducted onsite?** YES

**Previous Onsite information:** Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Frank Surveying, a registered professional land surveyor. Center stake surveys with access roads have been completed on State and Federal lands with Colleen Cepero-Rios, Bureau of Land Management Natural Resource Specialist in attendance.

### Other SUPO Attachment

PLU\_25\_BD\_All\_Pads\_20180924080003.pdf

PLU\_25\_BD\_Arch\_MIT\_PA\_20180924080043.pdf

PLU\_25\_BD\_Fed\_SUPO\_20180924075947.pdf

PLU\_25\_BD\_LF\_20180924080030.pdf

# TOPOGRAPHICAL AND ACCESS ROAD MAP

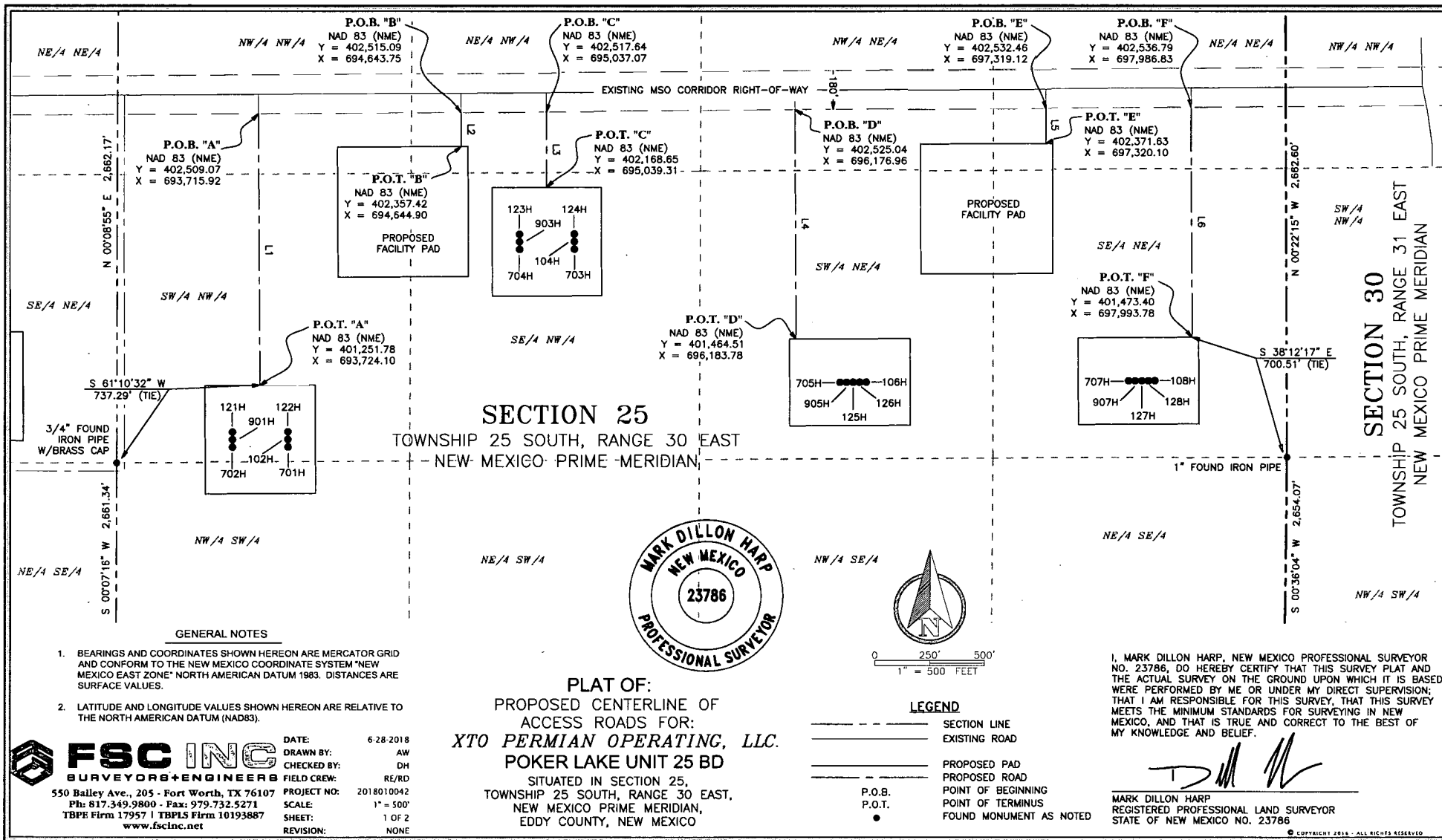
## DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 11.5 MILES TO A "Y" INTERSECTION. TURN LEFT (SOUTHEAST) TO STAY ON BUCK JACKSON RD. AND GO APPROX. 2.1 MILES, ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fbcinc.net  
© COPYRIGHT 2018 - ALL RIGHTS RESERVED

DATE:	04-18-2018	PROJECT NO.:	2018010050
DRAWN BY:	AW	SCALE:	1" = 5,000'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE/PH	REVISION:	NO



LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 00°22'21" E	1257.32'

LINE TABLE "B"

L2	S 00°25'09" E	157.67'
----	---------------	---------

LINE TABLE "C"

L3	S 00°22'03" E	349.00'
----	---------------	---------

LINE TABLE "D"

L4	S 00°22'05" E	1060.55'
----	---------------	----------

LINE TABLE "E"

L5	S 00°20'53" E	160.83'
----	---------------	---------

LINE TABLE "F"

L6	S 00°22'27" E	1063.41'
----	---------------	----------

TOTAL LENGTH = 4,048.78 FEET  
OR 245.38 RODS

**POKER LAKE UNIT 25 BD PROPOSED ACCESS ROADS DESCRIPTION:**

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 4,048.78 FEET, 245.38 RODS, OR 0.77 MILES IN LENGTH CROSSING SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 2.79 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 NW/4 SECTION 25 = 278.44 FEET = 16.88 RODS = 0.19 OF AN ACRE  
SW/4 NW/4 SECTION 25 = 978.88 FEET = 59.33 RODS = 0.67 OF AN ACRE  
NE/4 NW/4 SECTION 25 = 437.94 FEET = 26.54 RODS = 0.30 OF AN ACRE  
SE/4 NW/4 SECTION 25 = 68.73 FEET = 4.16 RODS = 0.05 OF AN ACRE  
NW/4 NE/4 SECTION 25 = 281.92 FEET = 17.09 RODS = 0.19 OF AN ACRE  
SW/4 NE/4 SECTION 25 = 778.63 FEET = 47.19 RODS = 0.54 OF AN ACRE  
NE/4 NE/4 SECTION 25 = 445.54 FEET = 27.00 RODS = 0.31 OF AN ACRE  
SE/4 NE/4 SECTION 25 = 778.70 FEET = 47.19 RODS = 0.54 OF AN ACRE

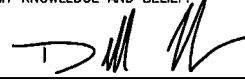
**GENERAL NOTES**

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

PLAT OF:  
PROPOSED CENTERLINE OF  
ACCESS ROADS FOR:  
**XTO PERMIAN OPERATING, LLC.**  
**POKER LAKE UNIT 25 BD**

SITUATED IN SECTION 25,  
TOWNSHIP 25 SOUTH, RANGE 30 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.

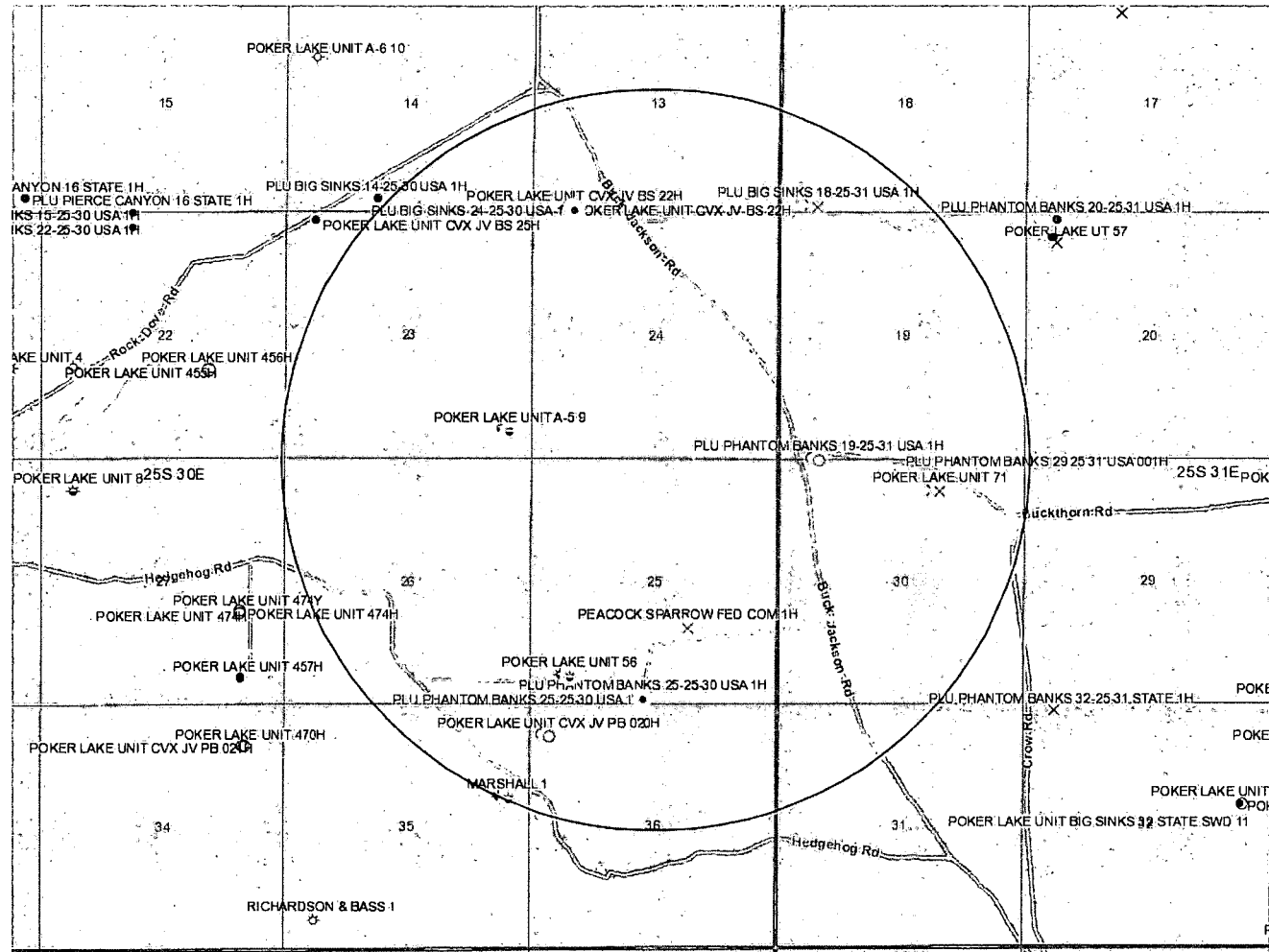
  
MARK DILLON HARP  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 23786

**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: 6-28-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW: RE/RD  
PROJECT NO: 2018010042  
SCALE: 1" = 500'  
SHEET: 2 OF 2  
REVISION: NONE

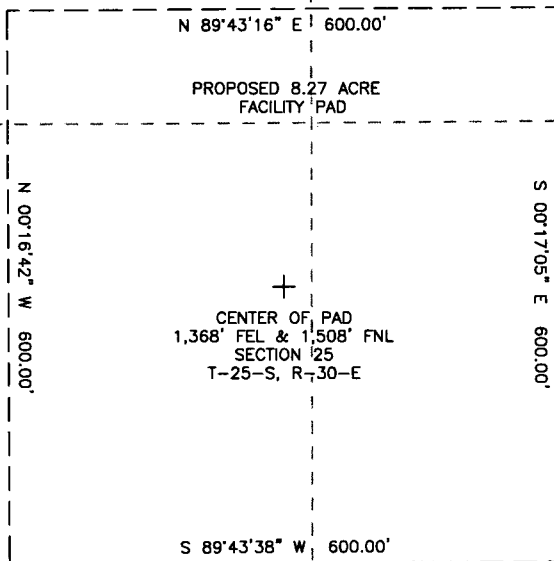


# Poker Lake Unit 25 BD 1-Mile Map



NW/4 NE/4

NE/4 NE/4



SW/4 NE/4

**P.O.B.**  
NAD 83 (NME)  
Y = 401,771.81  
X = 697,353.07

## SECTION 25

TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN

### POKER LAKE UNIT 25 BD PROPOSED FACILITY PAD DESCRIPTION:

Description of a proposed facility pad totaling 8.27 acres and being situated in Section 25, Township 25 South, Range 30 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 1" iron pipe with brass disk, being the east quarter-corner of said Section 25, bears S 51°40'36" E 1,368.94 feet;

**THENCE** over and across said Section 25, the following courses and distances:

S 89°43'38" W, a distance of 600.00 feet to a point;

N 00°16'42" W, a distance of 600.00 feet to a point;

N 89°43'16" E, a distance of 600.00 feet to a point;

S 00°17'05" E, a distance of 600.00 feet to the POINT OF BEGINNING containing a total of **8.27 acres**, more or less.

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

NW/4 NE/4 Section 25 = 0.93 OF AN ACRE

NE/4 NE/4 Section 25 = 0.76 OF AN ACRE

SW/4 NE/4 Section 25 = 3.62 ACRES

SE/4 NE/4 Section 25 = 2.96 ACRES

SE/4 NE/4

S 51°40'36" E 1,368.94' (TIE)

1" FOUND  
IRON PIPE  
W/BRASS DISK

SECTION 30  
TOWNSHIP 25 SOUTH,  
RANGE 31 EAST  
NEW MEXICO PRIME  
MERIDIAN

### 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



0 100' 200'  
1" = 200' FEET



### LEGEND

—— SECTION LINE  
--- PROPOSED FACILITY PAD

P.O.B. POINT OF BEGINNING

● FOUND MONUMENT AS NOTED

**XTO PERMIAN  
OPERATING, LLC.**

**PROPOSED FACILITY PAD  
POKER LAKE UNIT 25 BD**

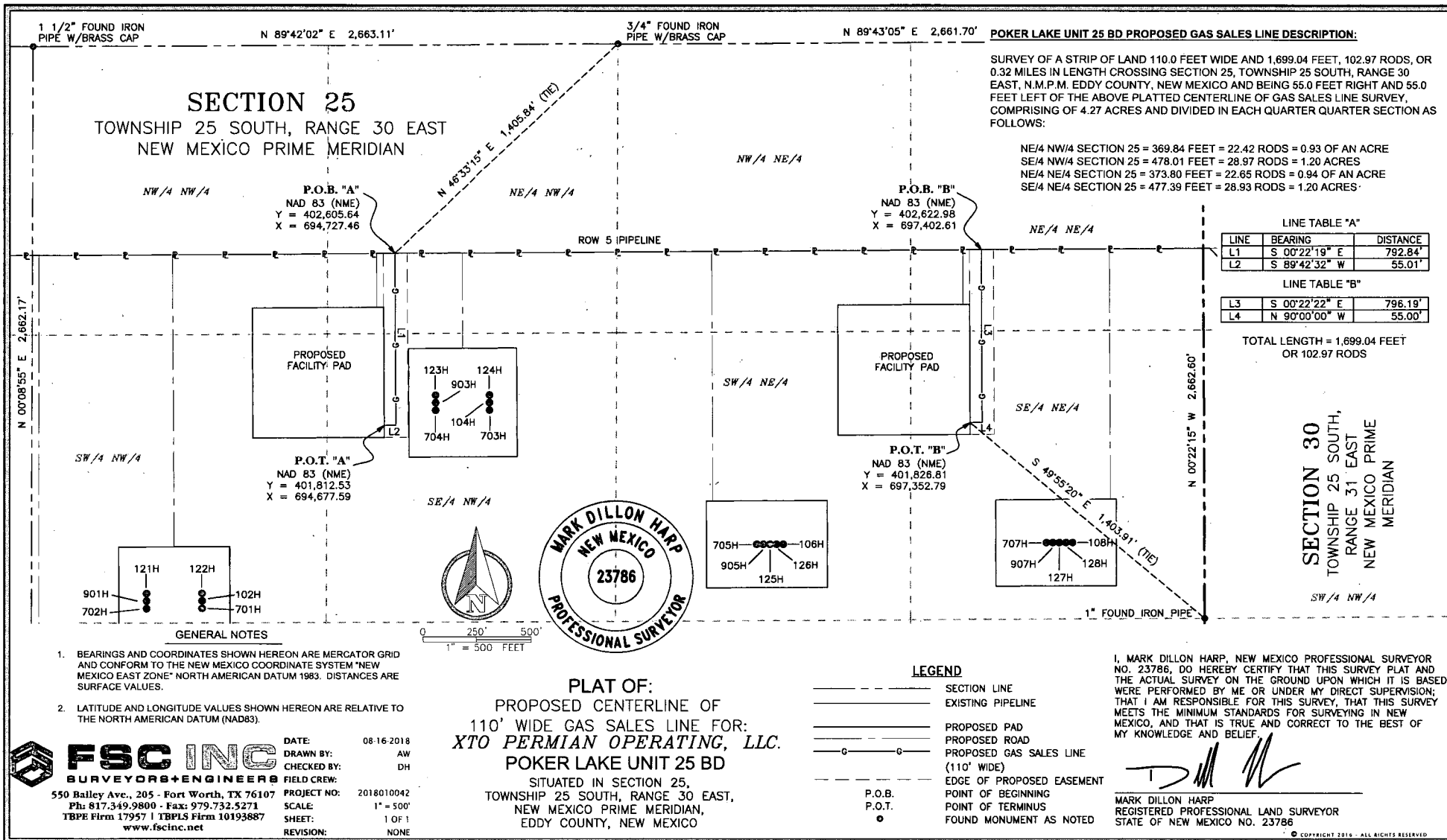
SURVEY FOR A PROPOSED FACILITY PAD  
SITUATED IN THE NE/4 OF SECTION 25,  
TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	06-18-2018	PROJECT NO:	2018010042
DRAWN BY:	AW	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	KN	REVISION:	NO



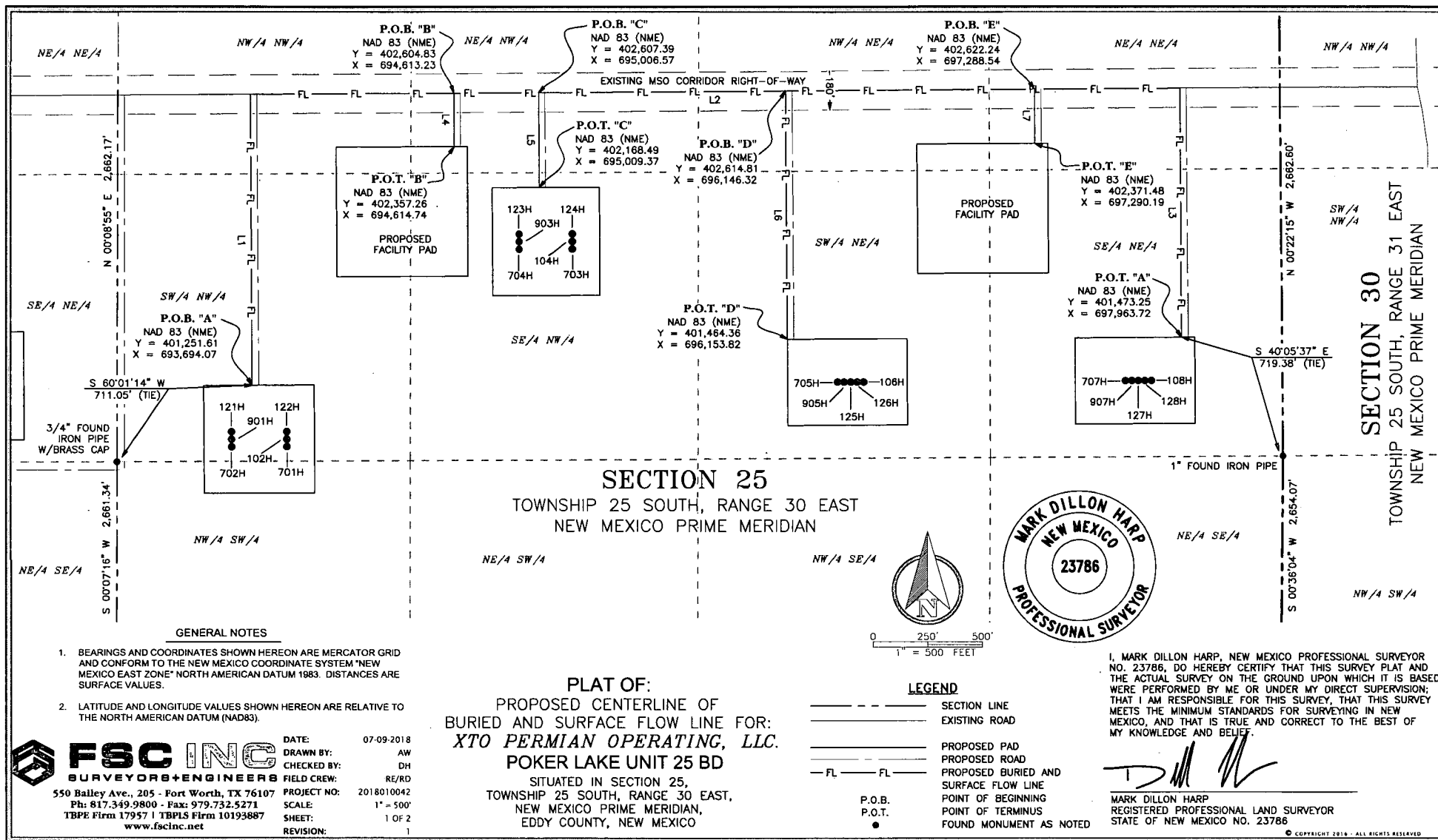
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

© COPYRIGHT 2016 - ALL RIGHTS RESERVED



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: 08-16-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW:  
PROJECT NO: 2018010042  
SCALE: 1" = 500'  
SHEET: 1 OF 1  
REVISION: NONE



LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 00°22'28" W	1347.21'
L2	N 89°37'38" E	4271.03'
L3	S 00°22'23" E	1153.36'

LINE TABLE "B"

L4	S 00°20'57" E	247.57'
----	---------------	---------

LINE TABLE "C"

L5	S 00°21'53" E	438.91'
----	---------------	---------

LINE TABLE "D"

L6	S 00°22'24" E	1150.47'
----	---------------	----------

LINE TABLE "E"

L7	S 00°22'35" E	250.77'
----	---------------	---------

TOTAL LENGTH = 8,859.32 FEET  
OR 536.93 RODS

**POKER LAKE UNIT 25 BD PROPOSED BURIED AND SURFACE FLOW LINE DESCRIPTION:**

SURVEY OF A STRIP OF LAND 8,859.32 FEET, 536.93 RODS, OR 1.68 MILES IN LENGTH  
CROSSING SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY,  
NEW MEXICO AND THE ABOVE PLATTED CENTERLINE OF BURIED AND SURFACE FLOW LINE  
SURVEY DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 NW/4 SECTION 25 = 1,097.17 FEET = 66.49 RODS  
SW/4 NW/4 SECTION 25 = 978.89 FEET = 59.33 RODS  
NE/4 NW/4 SECTION 25 = 1,949.32 FEET = 118.14 RODS  
SE/4 NW/4 SECTION 25 = 68.73 FEET = 4.17 RODS  
NW/4 NE/4 SECTION 25 = 1,707.05 FEET = 103.46 RODS  
SW/4 NE/4 SECTION 25 = 778.63 FEET = 47.19 RODS  
NE/4 NE/4 SECTION 25 = 1,500.84 FEET = 90.98 RODS  
SE/4 NE/4 SECTION 25 = 778.69 FEET = 47.19 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).



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: 07-09-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW: RE/RD  
PROJECT NO: 2018010042  
SCALE: 1" = 500'  
SHEET: 2 OF 2  
REVISION: 1

PLAT OF:  
PROPOSED CENTERLINE OF  
BURIED AND SURFACE FLOW LINE FOR:  
**XTO PERMIAN OPERATING, LLC.**  
**POKER LAKE UNIT 25 BD**

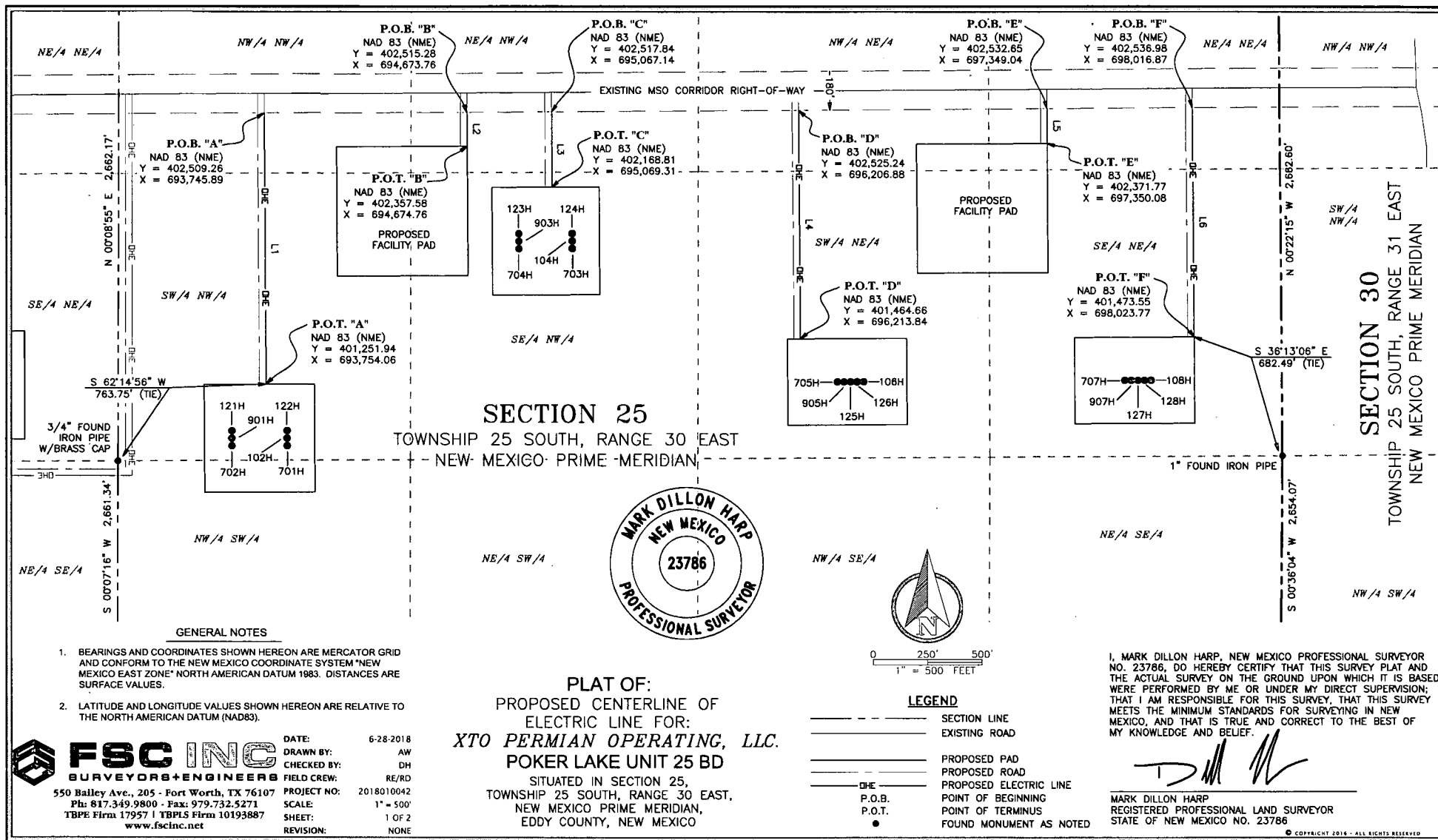
SITUATED IN SECTION 25,  
TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
NEW MEXICO PRIME MERIDIAN,  
EDDY COUNTY, NEW MEXICO



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.

*[Signature]*

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



LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 00°22'21" E	1257.35'

LINE TABLE "B"

L2	S 00°20'40" E	157.71'
----	---------------	---------

LINE TABLE "C"

L3	S 00°21'22" E	349.04'
----	---------------	---------

LINE TABLE "D"

L4	S 00°22'33" E	1060.60'
----	---------------	----------

LINE TABLE "E"

L5	S 00°22'20" E	160.88'
----	---------------	---------

LINE TABLE "F"

L6	S 00°22'18" E	1063.46'
----	---------------	----------

TOTAL LENGTH = 4,049.04 FEET  
OR 245.40 RODS

**POKER LAKE UNIT 25 BD PROPOSED ELECTRIC LINE DESCRIPTION:**

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 4,049.04 FEET, 245.40 RODS, OR 0.77 MILES IN LENGTH CROSSING SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY, COMPRISING OF 2.79 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 NW/4 SECTION 25 = 278.48 FEET = 16.88 RODS = 0.19 OF AN ACRE  
SW/4 NW/4 SECTION 25 = 978.87 FEET = 59.32 RODS = 0.67 OF AN ACRE  
NE/4 NW/4 SECTION 25 = 438.02 FEET = 26.55 RODS = 0.30 OF AN ACRE  
SE/4 NW/4 SECTION 25 = 68.73 FEET = 4.17 RODS = 0.05 OF AN ACRE  
NW/4 NE/4 SECTION 25 = 281.97 FEET = 17.09 RODS = 0.19 OF AN ACRE  
SW/4 NE/4 SECTION 25 = 778.63 FEET = 47.19 RODS = 0.54 OF AN ACRE  
NE/4 NE/4 SECTION 25 = 445.64 FEET = 27.01 RODS = 0.31 OF AN ACRE  
SE/4 NE/4 SECTION 25 = 778.70 FEET = 47.19 RODS = 0.54 OF AN ACRE

**GENERAL NOTES**

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

PLAT OF:  
PROPOSED CENTERLINE OF  
ELECTRIC LINE FOR:  
**XTO PERMIAN OPERATING, LLC.**  
POKER LAKE UNIT 25 BD  
SITUATED IN SECTION 25,  
TOWNSHIP 25 SOUTH, RANGE 30 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



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: 6-28-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW: RE/RD  
PROJECT NO: 2018010042  
SCALE: 1" = 500'  
SHEET: 2 OF 2  
REVISION: NONE

**POKER LAKE UNIT 25 BD PROPOSED FACILITY PAD DESCRIPTION:**

Description of a proposed facility pad totaling 8.27 acres and being situated in Section 25, Township 25 South, Range 30 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

**BEGINNING** at the southwest corner of the proposed facility pad from which a found 3/4" iron pipe with brass disk, being the west quarter-corner of said Section 25, bears S 49°21'36" E 1,317.48 feet;

**THENCE** over and across said Section 25, the following courses and distances:

N 00°18'05" W, a distance of 600.00 feet to a point;

N 89°42'01" E, a distance of 600.00 feet to a point;

S 00°17'52" E, a distance of 600.00 feet to a point;

S 89°42'02" W, a distance of 600.00 feet to the POINT OF BEGINNING containing a total of **8.27 acres**, more or less.

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

NW/4 NW/4 Section 25 = 0.95 OF AN ACRE

NE/4 NW/4 Section 25 = 0.73 OF AN ACRE

SE/4 NW/4 Section 25 = 3.69 ACRES

SW/4 NW/4 Section 25 = 2.90 ACRES

**SECTION 25**  
TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN

SECTION 26

3/4" FOUND IRON  
PIPE W/BRASS DISK

S 49°21'36" W 1,317.48' (ME)

SW/4 NW/4

NW/4 NW/4

NE/4 NW/4

N 89°42'01" E 600.00'

PROPOSED 8.27 ACRE  
FACILITY PAD

CENTER OF PAD  
1,295' FWL & 1,509' FNL  
SECTION 25  
T-25-S, R-30-E

N 00°18'05" W 600.00'

S 00°17'52" E 600.00'

S 89°42'02" W 600.00'

**P.O.B.**  
NAD 83 (NME)  
Y = 401,754.39  
X = 694,077.88

SE/4 NW/4

**LEGEND**

SECTION LINE

PROPOSED FACILITY PAD

P.O.B. POINT OF BEGINNING

● FOUND MONUMENT AS NOTED

**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



0 100' 200'  
1" = 200 FEET



**XTO PERMIAN  
OPERATING, LLC.**

**PROPOSED FACILITY PAD  
POKER LAKE UNIT 25 BD**

SURVEY FOR A PROPOSED FACILITY PAD  
SITUATED IN THE NW/4 OF SECTION 25,  
TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO



**FSC INC**  
SURVEYORS+ENGINEERS

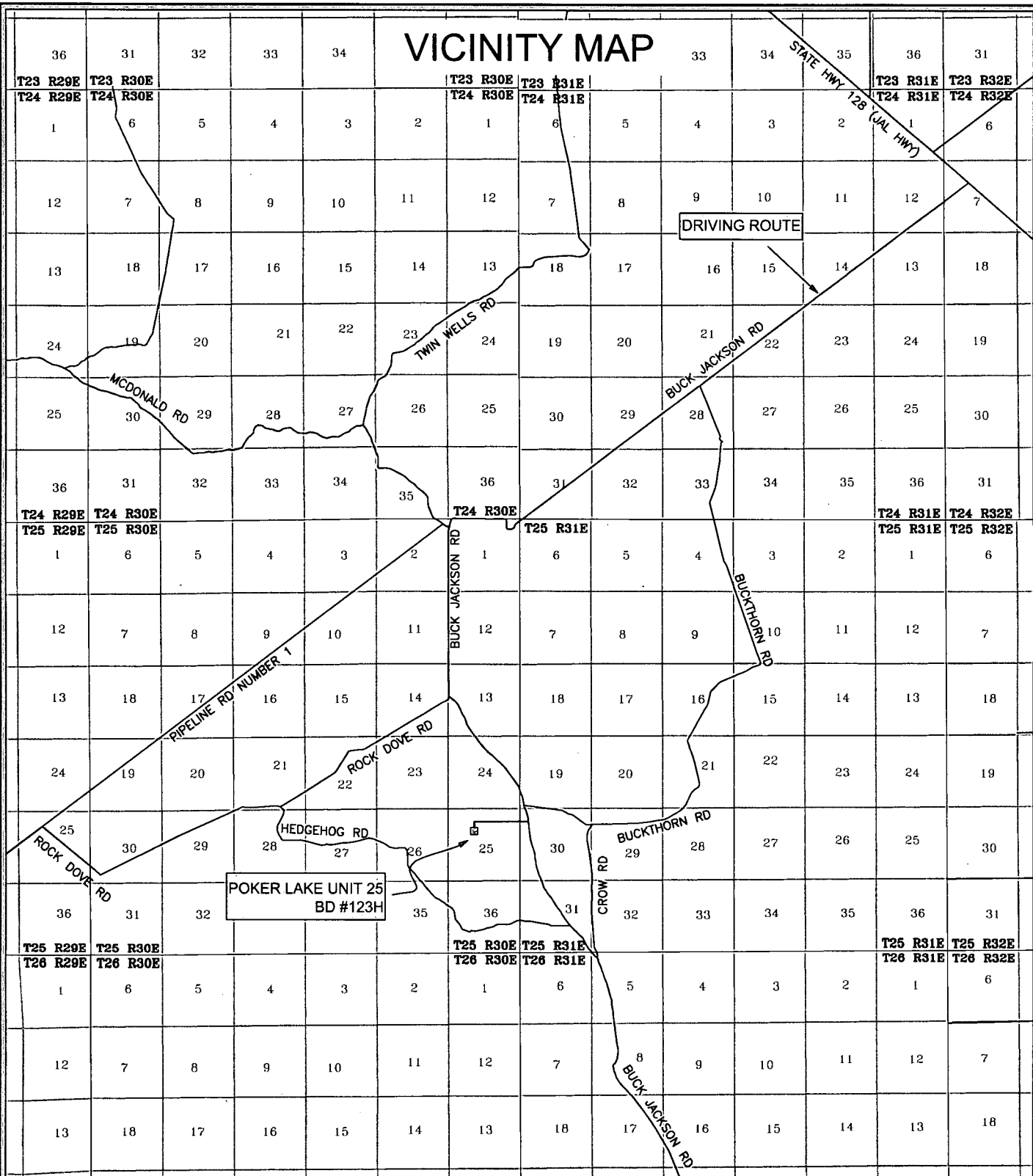
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

© COPYRIGHT 2018 - ALL RIGHTS RESERVED

DATE:	6-18-2018	PROJECT NO:	2018010042
DRAWN BY:	AW	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	KN	REVISION:	NO



# VICINITY MAP



NOTE:

1). SEE "TOPOGRAPHICAL AND ACCESS ROAD MAP" FOR DRIVING DIRECTIONS

POKER LAKE UNIT 25 BD #123H  
LOCATED 1,835 FEET FROM THE WEST LINE  
AND 1,615 FEET FROM THE NORTH LINE OF  
SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30  
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



0 5,000' 10,000'  
1" = 10,000 FEET



**FSC INC**  
SURVEYORS+ENGINEERS

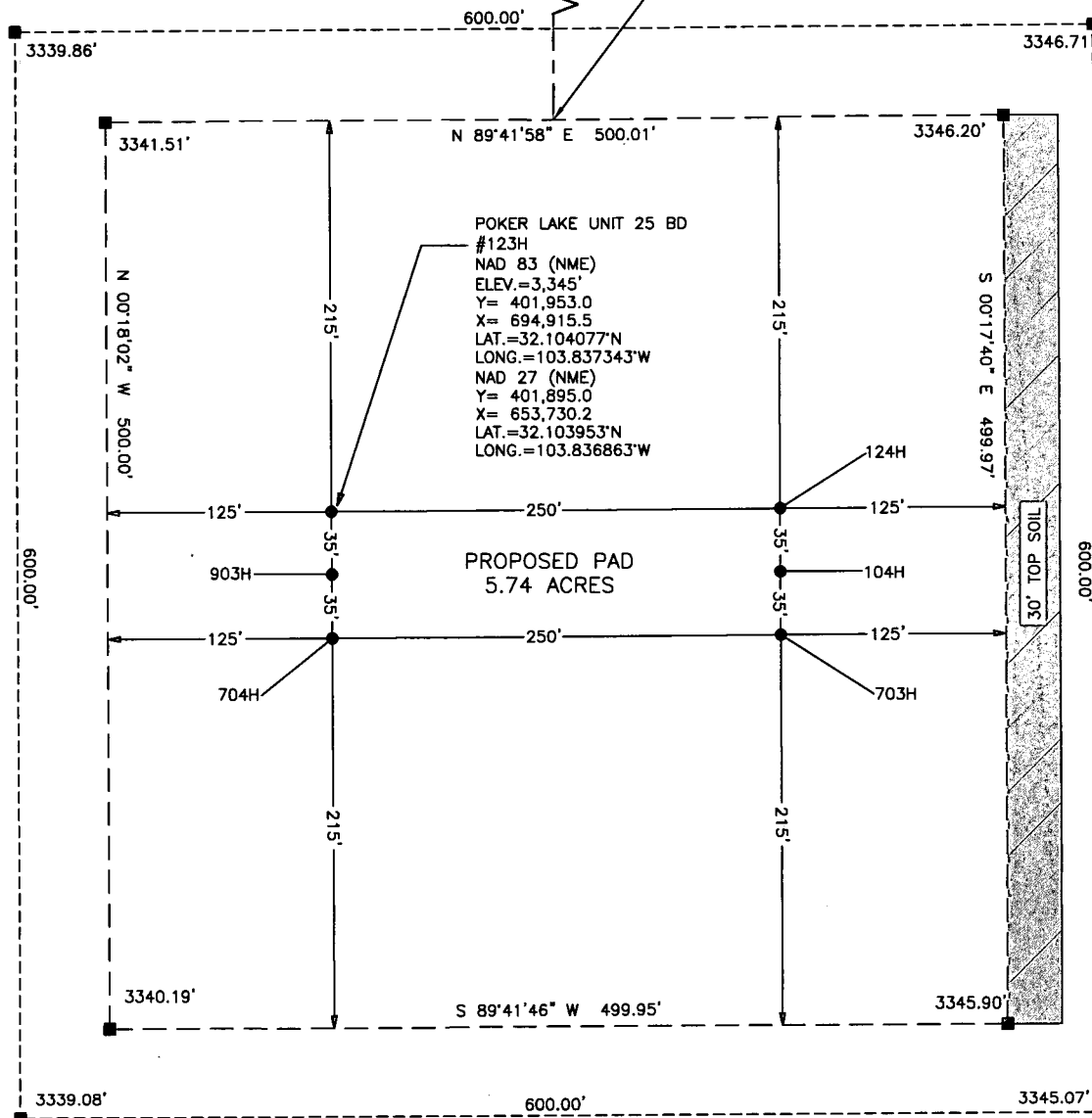
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

DATE: 04-18-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW:  
PROJECT NO: 2018010050  
SCALE: 1" = 10,000'  
SHEET: 1 OF 1  
REVISION: NO

# SECTION 25

TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN

PROPOSED ACCESS ROAD  
S 00°22'03" E 349.00'



## NOTE:

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

## DIRECTIONS TO THIS LOCATION:

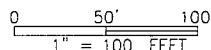
FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 11.5 MILES TO A "Y" INTERSECTION. TURN LEFT (SOUTHEAST) TO STAY ON BUCK JACKSON RD. AND GO APPROX. 2.1 MILES, ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



**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

© COPYRIGHT 2016 - ALL RIGHTS RESERVED



## LEGEND

- PROPOSED ACCESS RD.
- PROPOSED PAD

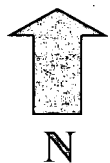
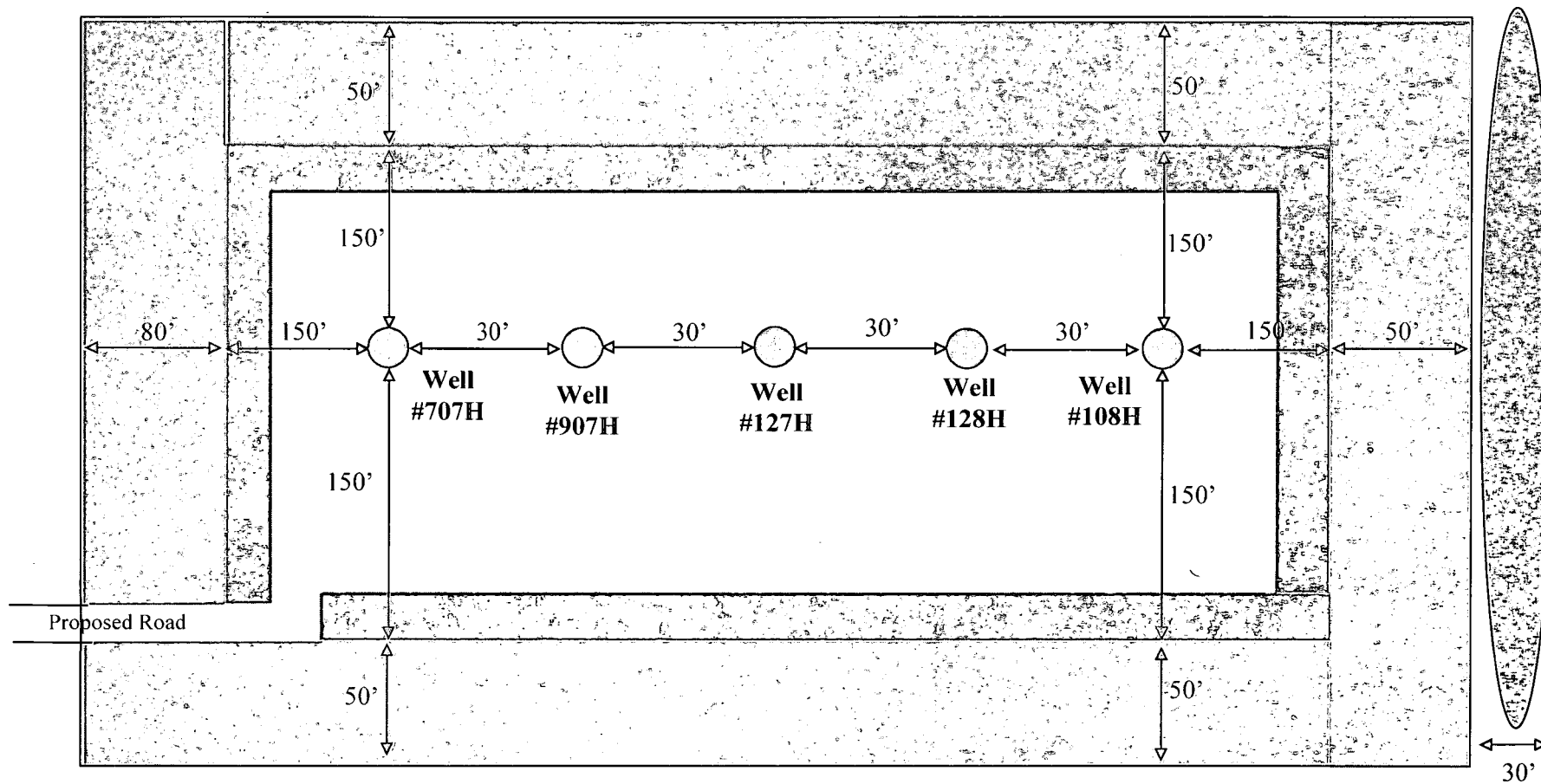
**XTO PERMIAN OPERATING, LLC.**

## WELL SITE PLAN

POKER LAKE UNIT 25 BD #123H  
LOCATED 1,835 FEET FROM THE WEST LINE  
AND 1,615 FEET FROM THE NORTH LINE OF  
SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30  
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	07-27-2018	PROJECT NO:	2018010050
DRAWN BY:	RR/TM	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1

**Interim Reclamation Diagram**  
Poker Lake Unit 25 BD #707H, 907H, 127H, 128H, 108H  
V-Door East (All Wells)



Wellbore

Interim Reclamation

**LEGEND**

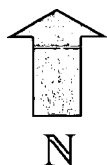
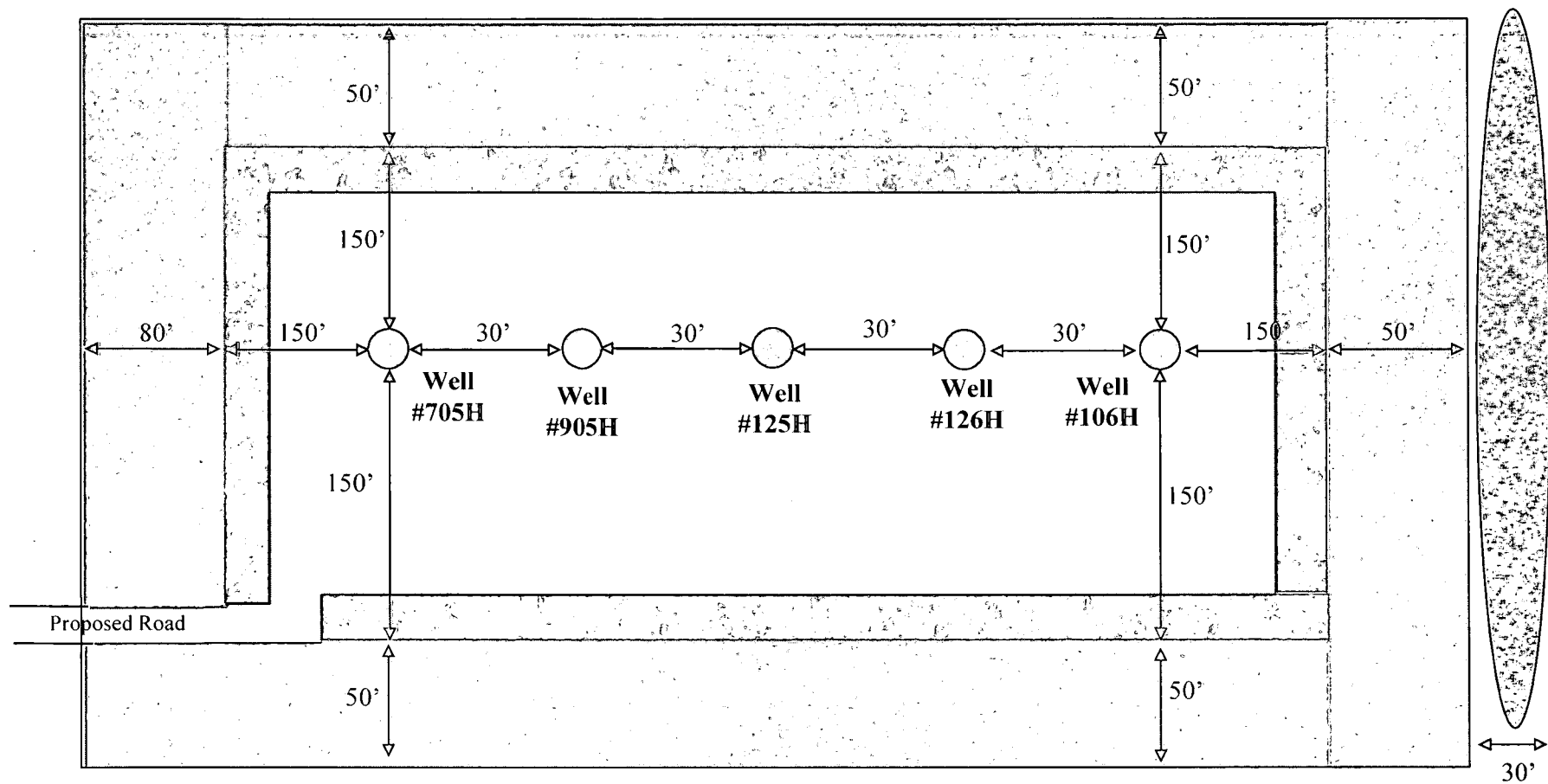


Ditch & Berm



Topsoil

**Interim Reclamation Diagram**  
Poker Lake Unit 25 BD #705H, 905H, 125H, 126H, 106H  
V-Door East (All Wells)



Wellbore

Interim Reclamation

**LEGEND**



Ditch & Berm

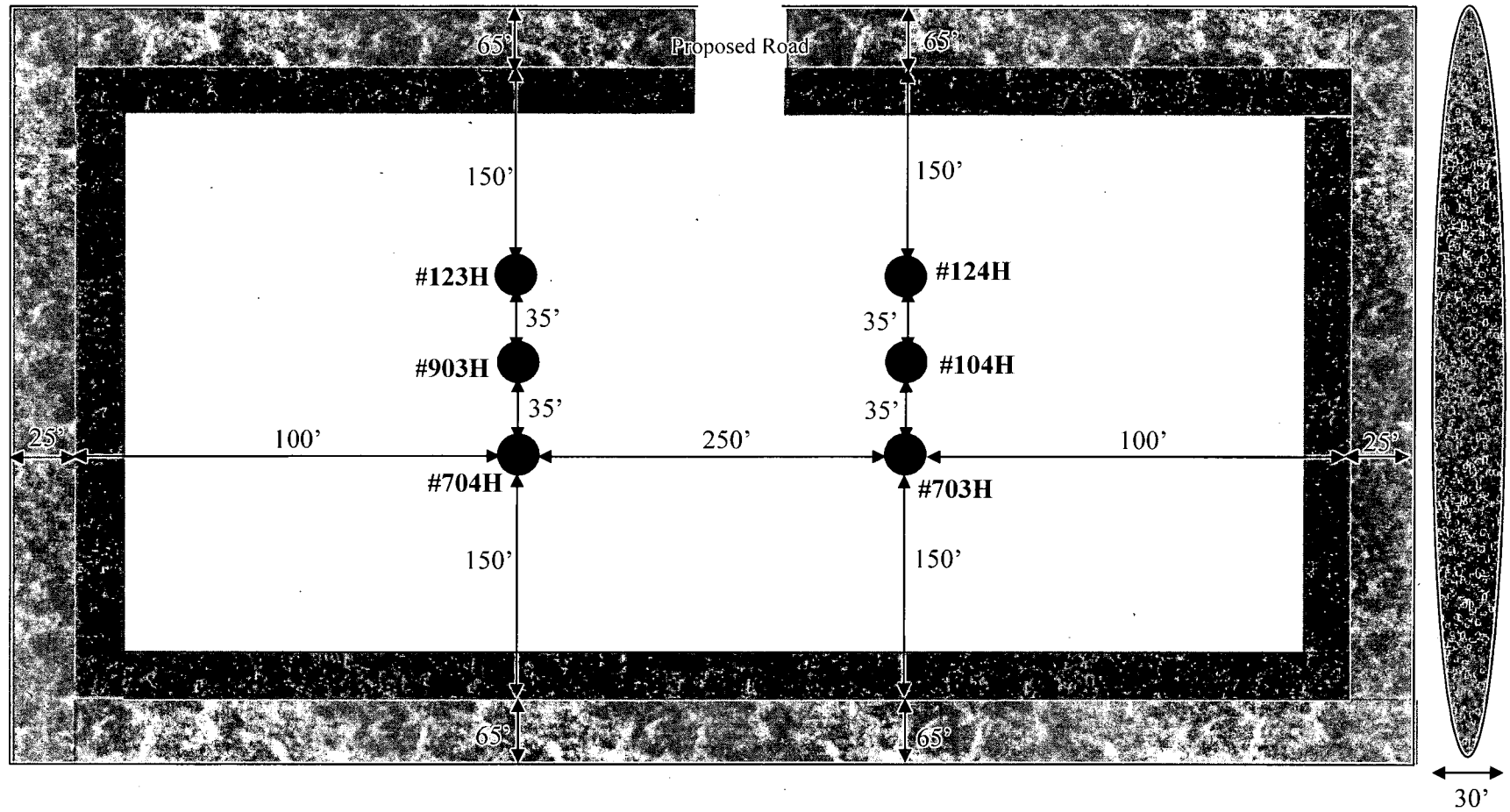


Topsoil

### Interim Reclamation Diagram

Poker Lake Unit 25 BD 703H, 704H, 903H, 104H, 123H, 124H

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



### LEGEND



Wellbore



Interim Reclamation



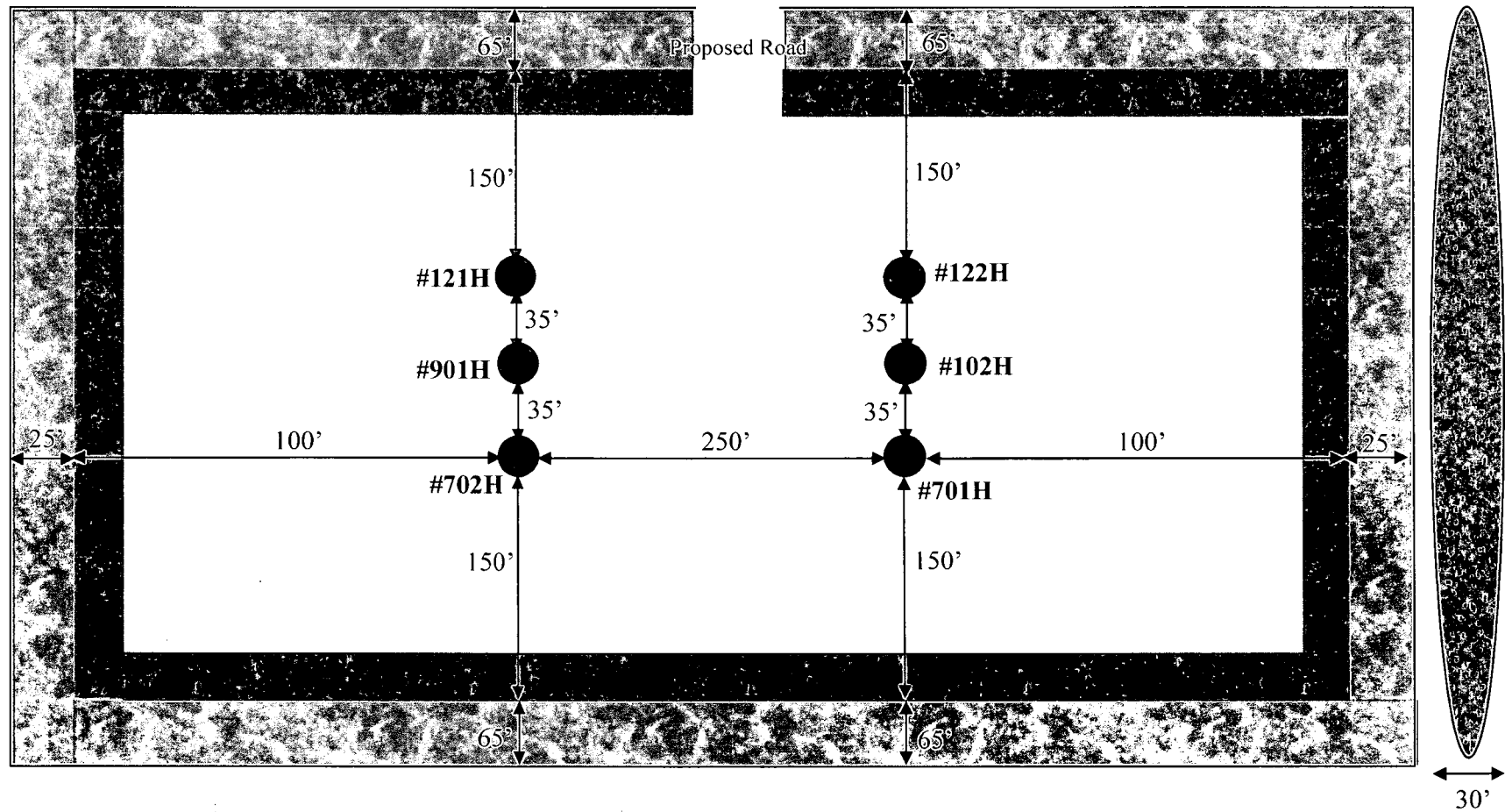
Ditch & Berm



Topsoil

### Interim Reclamation Diagram

Poker Lake Unit 25 BD 701H, 702H, 901H, 102H, 121H, 122H  
V-Door North: 702H, 901H, 121H; V-Door South: 701H, 102H, 122H



### LEGEND



Wellbore

Interim Reclamation



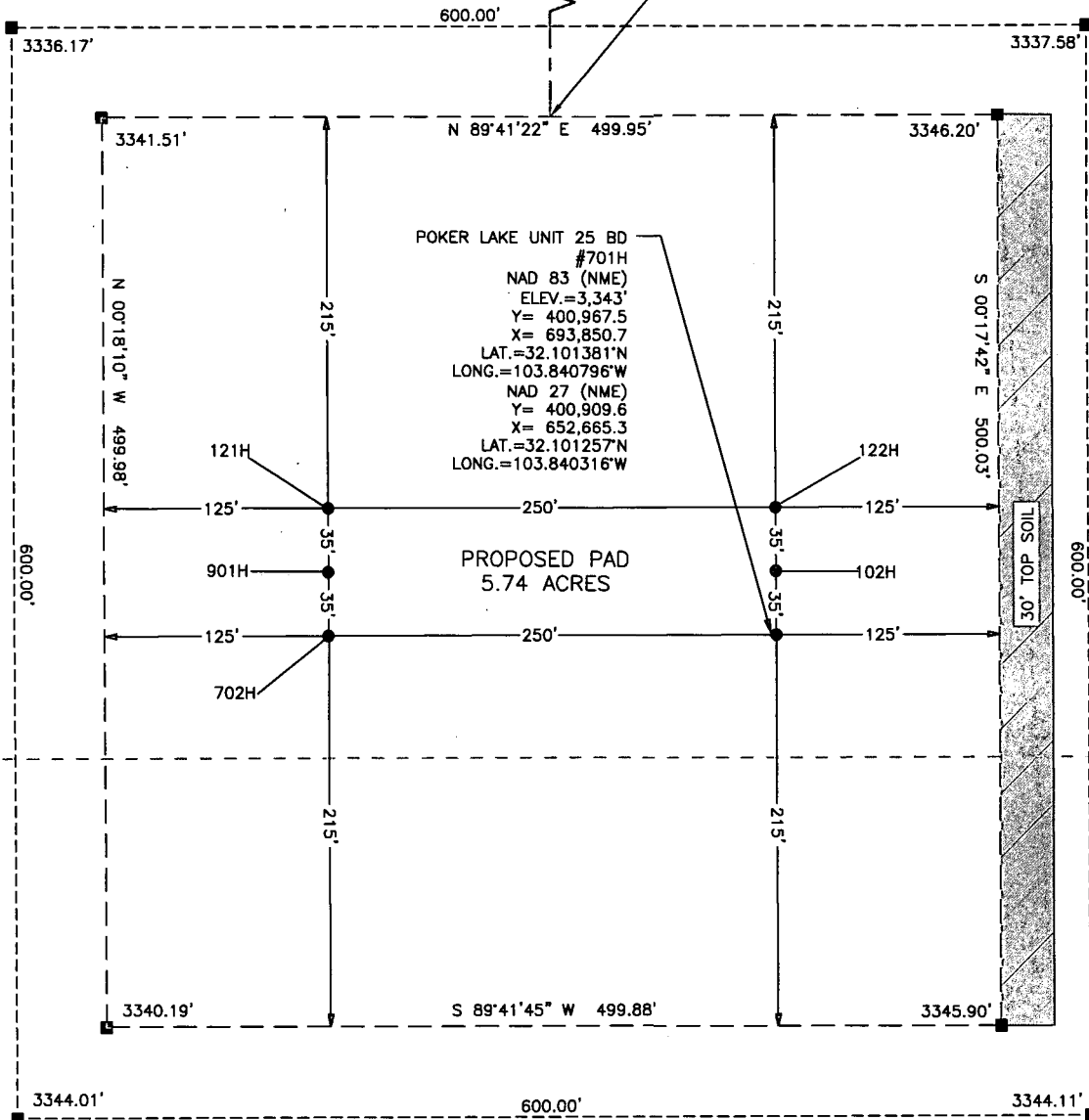
Ditch & Berm



Topsoil

SW/4 NW/4

PROPOSED ACCESS ROAD  
S 00°22'21" E 1257.32'



NW/4 SW/4

# SECTION 25

TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN

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. 11.5 MILES TO A "Y" INTERSECTION. TURN LEFT (SOUTHEAST) TO STAY ON BUCK JACKSON RD. AND GO APPROX. 2.1 MILES, ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



0 50' 100'  
1" = 100' FEET

## LEGEND

- PROPOSED ACCESS RD.
- PROPOSED PAD

**XTO PERMIAN OPERATING, LLC.**

## WELL SITE PLAN

POKER LAKE UNIT 25 BD #701H  
LOCATED 772 FEET FROM THE WEST LINE  
AND 2,595 FEET FROM THE NORTH LINE OF  
SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30  
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

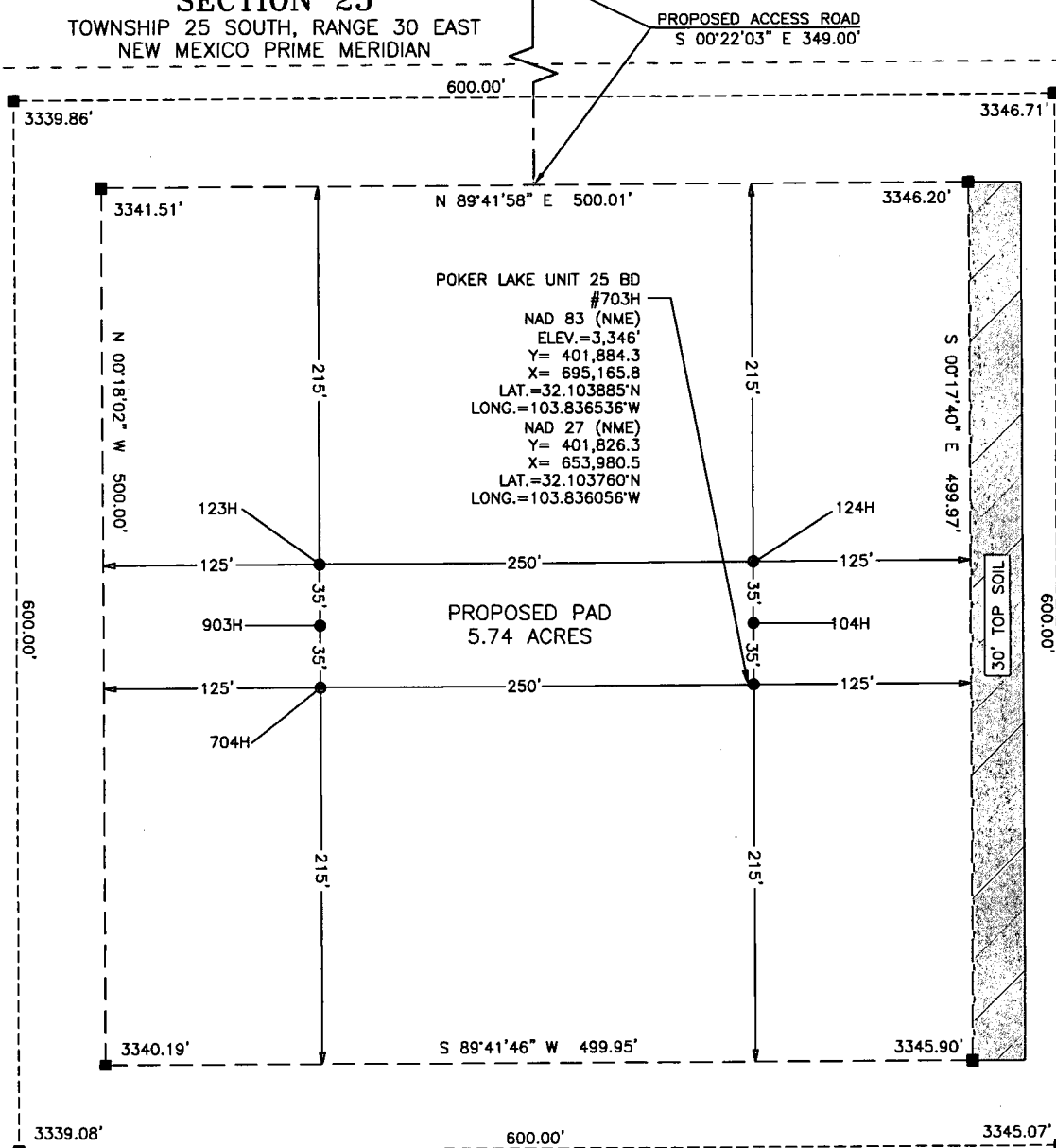


550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

© COPYRIGHT 2016 - ALL RIGHTS RESERVED

DATE:	07-27-2018	PROJECT NO:	2018010043
DRAWN BY:	RR/TM	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1

**SECTION 25**  
TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN



SE/4 NW/4

**LEGEND**

----- PROPOSED ACCESS RD.  
----- PROPOSED PAD

**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. 11.5 MILES TO A "Y" INTERSECTION. TURN LEFT (SOUTHEAST) TO STAY ON BUCK JACKSON RD. AND GO APPROX. 2.1 MILES, ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



0 50' 100'  
1" = 100 FEET

**XTO PERMIAN OPERATING, LLC.**

**WELL SITE PLAN**

POKER LAKE UNIT 25 BD #703H  
LOCATED 2,085 FEET FROM THE WEST LINE  
AND 1,685 FEET FROM THE NORTH LINE OF  
SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30  
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO



**FSC INC**  
SURVEYORS+ENGINEERS

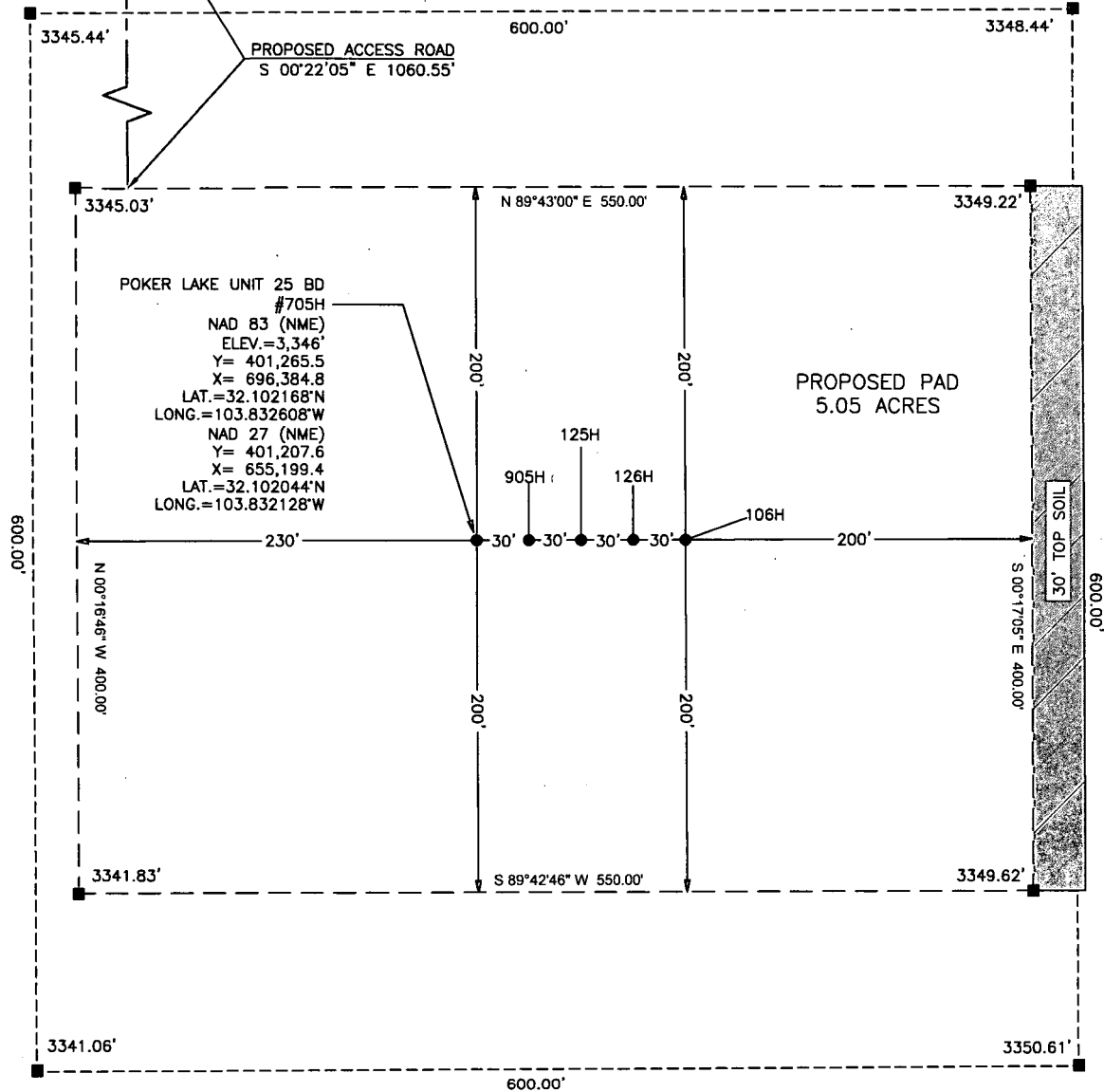
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

© COPYRIGHT 2016 - ALL RIGHTS RESERVED

DATE:	07-27-2018	PROJECT NO:	2018010048
DRAWN BY:	RR/TM	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1



**SECTION 25**  
TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN



SW/4 NE/4

**LEGEND**

———— PROPOSED ACCESS RD.  
- - - - - PROPOSED PAD

**XTO PERMIAN OPERATING, LLC.**

**WELL SITE PLAN**

POKER LAKE UNIT 25 BD #705H  
LOCATED 2,040 FEET FROM THE EAST LINE  
AND 2,310 FEET FROM THE NORTH LINE OF  
SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30  
EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

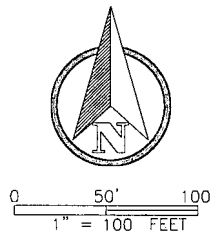
DATE:	07-27-2018	PROJECT NO:	2018010057
DRAWN BY:	RR/TM	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1

**NOTE:**

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

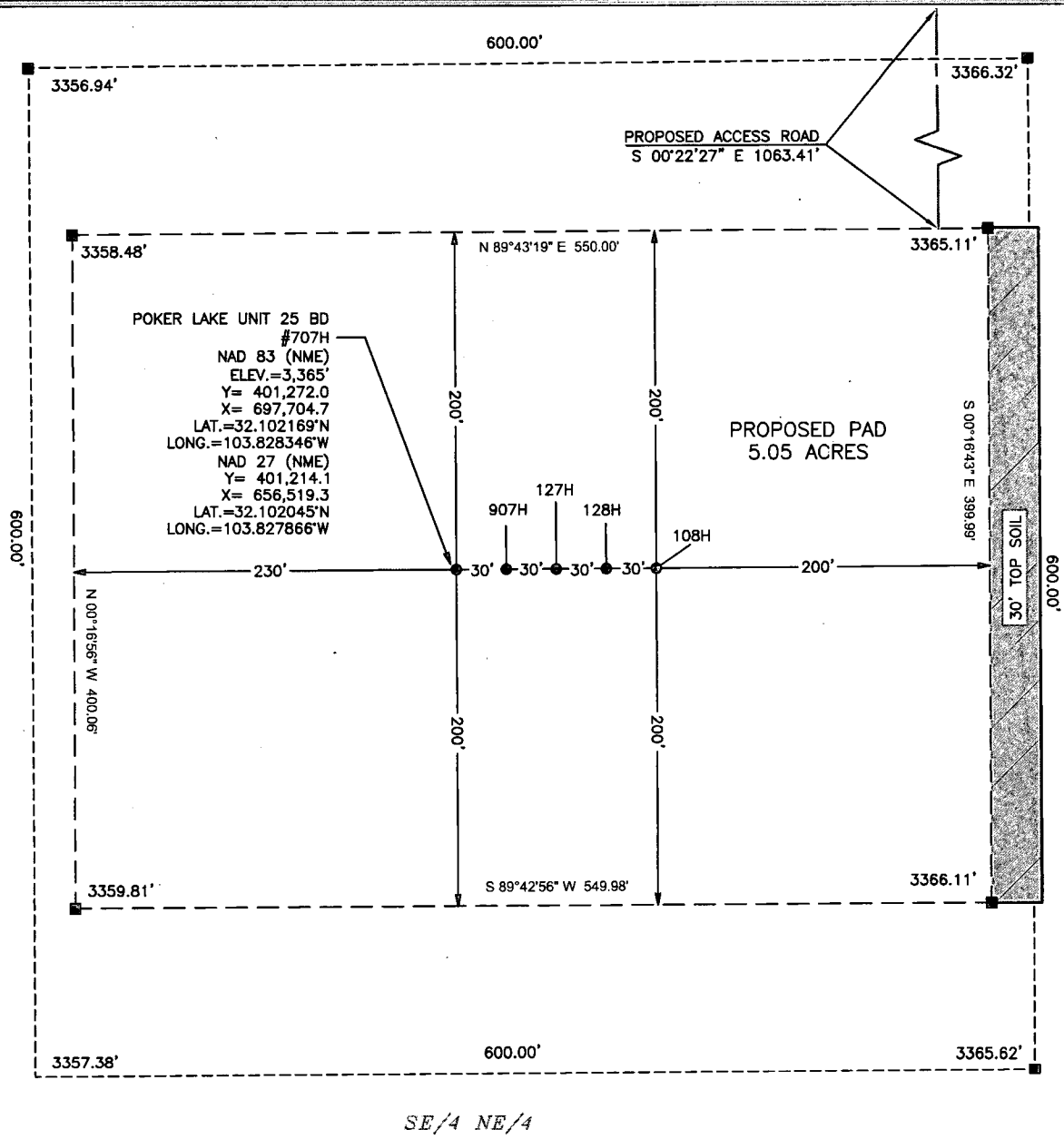
**DIRECTIONS TO THIS LOCATION:**

FROM THE INTERSECTION OF HIGHWAY 128 AND BUCK JACKSON RD. GO SOUTHWEST ON BUCK JACKSON RD. (GRAVEL) APPROX. 11.5 MILES TO A "Y" INTERSECTION. TURN LEFT (SOUTHEAST) TO STAY ON BUCK JACKSON RD. AND GO APPROX. 2.1 MILES, ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



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

© COPYRIGHT 2016 - ALL RIGHTS RESERVED



**SECTION 25**  
 TOWNSHIP 25 SOUTH, RANGE 30 EAST  
 NEW MEXICO PRIME MERIDIAN

**LEGEND**

- PROPOSED ACCESS RD.
- PROPOSED PAD

**XTO PERMIAN OPERATING, LLC.**

**WELL SITE PLAN**

POKER LAKE UNIT 25 BD #707H  
 LOCATED 720 FEET FROM THE EAST LINE  
 AND 2,310 FEET FROM THE NORTH LINE OF  
 SECTION 25, TOWNSHIP 25 SOUTH, RANGE 30  
 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

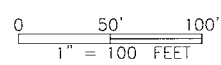
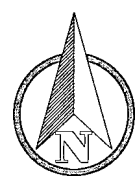
DATE:	07-27-2018	PROJECT NO:	2018010062
DRAWN BY:	RR/TM	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1

**NOTE:**

- 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. 11.5 MILES TO A "Y" INTERSECTION. TURN LEFT (SOUTHEAST) TO STAY ON BUCK JACKSON RD. AND GO APPROX. 2.1 MILES, ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTH.



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  
 © COPYRIGHT 2015 - ALL RIGHTS RESERVED

## Confirmation of Payment

Form NM 8140-9

(March 2008)

United States Department of the Interior  
Bureau of Land Management  
New Mexico State Office

### Permian Basin Cultural Resource Mitigation Fund

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

Company Name: BOPCO, LP

Address: 6401 Holiday Hill Rd

Midland, TX 79707

Project description:

Poker Lake Unit 25 Brushy Draw APDs & associated facilities.

T. 25S, R. 30E, Section 25 NMPM, Eddy County, New Mexico

Amount of contribution: \$ 12,162.57

4 Well Pads: 21.58 acres x \$197 = \$4251.26

2 CTBs: 16.52 acres x \$197 = \$3254.44

Gas Sales Line: 1699.04' x \$0.28 = \$475.73

Flowline: 8859.32' x \$0.28 = \$2480.61

Road: 4048.78' x \$0.28 = \$1133.66

OHE: 4049.04' x \$0.14 = \$566.87

## Confirmation of Payment Page 2

### Provisions of the PA:

- A. No new Class III inventories are required of industry within the project area for those projects where industry elects to contribute to the mitigation fund.
- B. The amount of funds contributed was derived from the rate schedule established within Appendix B of the PA. The amount of the funding contribution acknowledged on this form reflects those rates.
- C. The BLM will utilize the funding to carry out a program of mitigation at high-priority sites whose study is needed to answer key questions identified within the Regional Research Design.
- D. Donating to the fund is voluntary. Industry acknowledges that it is aware it has the right to pay for a Class III survey rather than contributing to the mitigation fund. Industry must avoid or fund data recovery at those sites already recorded that are eligible for nomination to the National Register or whose eligibility is unknown. Any such payments are independent of the mitigation funds established by this PA.
- E. Previously recorded archaeological sites determined eligible for nomination to the National Register, or whose eligibility remains undetermined, must be avoided or mitigated.
- F. If any skeletal remains that might be human or funerary objects are discovered by any activities, the land-use applicant will cease activities in the area of discovery, protect the remains, and notify the BLM within 24 hours. The BLM will determine the appropriate treatment of the remains in consultation with culturally-affiliated Indian Tribe(s) and lineal descendants. Applicants will be required to pay for treatment of the cultural items, independent and outside of the mitigation fund.

Keey Hardos  
Company-Authorized Officer

8/13/18  
Date

\_\_\_\_\_  
BLM-Authorized Officer

\_\_\_\_\_  
Date

United States Department of the Interior  
Bureau of Land Management  
CARLSBAD FIELD OFFICE  
620 E. GREENE  
CARLSBAD, NM 88220 -6292  
Phone: (575) 234-5972

Receipt

No: 4233005

<b>Transaction #:</b> 4348317	
<b>Date of Transaction:</b> 08/13/2018	
<b>CUSTOMER:</b>	
	BOPCO LP 6401 HOLIDAY HILL RD BLDG 5 ST MIDLAND, TX 79707-2156 US

LINE #	QTY	DESCRIPTION	REMARKS	UNIT PRICE	TOTAL
1	1.00	CONTRIBUTED FUNDS-ALL OTHER / 7122 FLPMA / ALL OTHER RES DEV, PROTECT & MGMT <b>PROJECT:</b> LVTFG09G6180	MOA: BOPCO LP POKER LAKE UNIT 25 BRUSHY DRAW & ASSOCIATED FACILITIES	12162.57	12162.57
<b>TOTAL:</b>					<b>\$12,162.57</b>

PAYMENT INFORMATION				
NOTE: Items will appear on credit card statement as "Bureau of Land Mgmt CO".				
1	AMOUNT:	12162.57	POSTMARKED:	N/A
	TYPE:	CREDIT CARD	RECEIVED:	08/13/2018
	NAME:	BOPCO LP 6401 HOLIDAY HILL RD BLDG 5 ST MIDLAND TX 79707-2156 US		
	CARD NO:	XXXXXXXXXXXX4200	AUTH CODE:	040974
	NAME ON CARD:	STEPHANIE RABADUE		
	SIGNATURE:			

REMARKS

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

**PAID**  
TRAN # 4348317  
08/13/18

## Well Site Locations

---

The results of the Poker Lake Unit 25 Brushy Draw Development Program will develop economic quantities of oil and gas in the 'Poker Lake Unit 25 Brushy Draw' area with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones.

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

## Surface Use Plan

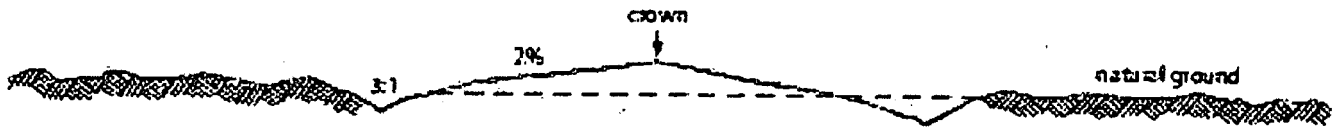
---

### 1. Existing Roads

- A. The Poker Lake Unit 25 Brushy Draw area is accessed from the intersection of Highway 128 and Buck Jackson Road. Go Southwest on Buck Jackson Rd (Gravel) approximately 11.5 miles to a "Y" intersection. Turn left (Southeast) to stay on Buck Jackson Road and go approximately 2.1 miles, arriving at the proposed road. Location is to the South. Transportation Plan identifying existing roads that will be used to access the project area is included from FSC, Inc. marked as, 'Topographical and Access Road Map.'
- B. There are no existing access roads to the proposed Poker Lake Unit 25 Brushy Draw well locations. All equipment and vehicles will be confined to the routes shown on the Topographical and Access Road Map as provided by FSC, Inc. Maintenance of the access roads will continue until abandonment and reclamation of the well pads is completed.
- C. The project is located approximately 27 miles to the town of Loving, New Mexico.

### 2. New or Upgraded Access Roads

- A. **New Roads.** There is a total of approximately 4,048.78 feet or .77 miles of proposed and staked access roads in the Poker Lake Unit 25 Brushy Draw lease area.
- B. **Well Pads.** The well pads selected for development will determine which existing roads will be upgraded and which new roads will be built. The lease flow diagram shows the location of proposed roads that will need to be constructed to access the well pads.
- C. **Anticipated Traffic.** After well completion, travel to each well site will include one lease operator truck and two oil trucks per day until the Central Tank Battery is completed. Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery only for oil hauling. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.
- D. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the Topographical and Access Road Map provided by FSC, Inc. unless otherwise approved by the BLM and applied for by XTO Permian Operating, LLC.
- E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



## Level Ground Section

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

### 3. Location of Existing Wells

- A. See attached 1-mile radius well map.

### 4. Ancillary Facilities

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

### 5. Location of Proposed Production Facilities

- A. **Production Facilities.** Two 600' x 600' pads were staked with the BLM for construction and use as Central Tank Batteries (CTB). The Western most facility is the PLU 25 BD West CTB and the Eastern most facility is the PLU 25 BD East CTB. The pads are located in Section 25-T25S-R30E 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, 22-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the PLU 25 BD East CTB and the PLU 25 BD West CTB where the oil, gas, and water will be metered and separated. If XTO Permian Operating, LLC decides to run surface lines, 22-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the

proposed CTBs. An additional 10-22" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 8,859.32 or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. Approximately 4,271.03' falls within the Poker Lake Unit Row 5 MSO corridor (BLM-NM-P020-2018-0620-EA). A plat of the proposed flowline route for the lease is attached.

- C. **Gas & Oil Pipeline.** A gas and oil purchaser has been identified. Two 110' corridors are requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 25 BD East CTB and the PLU 25 BD West CTB. XTO Permian Operating, LLC. will be installing the line with anticipated risers located on the CTB. The gas and oil purchaser will be responsible for permitting their own gas lines and compressor station, where applicable, through private, state, and federal lands. PLU 25 BD East GSL Approx. Length: 851.19'. PLU 25 BD West GSL Approx. Length: 847.85'.
- D. **Disposal Facilities.** Produced water will be piped from location to a disposal facility as needed. Once wells are drilled and completed, a 3160-5 sundry notification will be submitted to BLM in compliance with Onshore Order 7.
- E. **Flare.** There will be 2 flares associated with the Poker Lake Unit 25 Brushy Draw project. The flare stacks will be 50'x50'. 1 will be located on the PLU 25 BD East CTB. 1 will be located on the PLU 25 BD West CTB. Both will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.
- F. **Aboveground Structures.** All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' that reduce the visual impacts of the built environment.
- G. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- H. **Electrical.** All electrical poles and lines will be run off of the MSO corridor, extending to CTBs and well locations. All lines will be primary 12,740 volt to properly run expected production equipment. Approx. 4,049.04' of electrical will be run from the anticipated tie-in point with a request for 30' ROW construction and maintenance buffer. This distance is a max. approximation and may vary based on lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.

## 6. Location and Types of Water Supply

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

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

Texas Pacific Water Resources

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

Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are



calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

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

## **7. Construction Activities**

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

## **8. Methods for Handling Waste**

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

stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.

- iii. No hazardous substances or wastes will be stored on the location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

## 9. Well Site Layout

- A. **Rig Plat Diagrams:** There are 4 anticipated multi-well pads in the Poker Lake Unit 25 Brushy Draw lease. This will allow enough space for cuts and fills, topsoil storage, and storm water control. Interim reclamation of these pads is anticipated after the drilling and completion of all wells on the pad. Well site layouts for all pads are attached. From West to East:

- 1. Pad 1 is a 6-well pad expected to be 500'x500'.
- 2. Pad 2 is a 6-well pad expected to be 500'x500'.
- 3. Pad 3 is a 5-well pad expected to be 550'x400'.
- 4. Pad 4 is a 5-well pad expected to be 550'x400'.

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

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

- 1. Pad 1 has a Dual V-Door Orientation.
  - a. Western Row of Wells: North [Wells: 702H, 901H, 121H]
  - b. Eastern Row of Wells: South [Wells: 701H, 102H, 122H]
- 2. Pad 2 has a Dual V-Door Orientation.
  - a. Western Row of Wells: North [Wells: 704H, 903H, 123H]
  - b. Eastern Row of Wells: South [Wells: 703H, 104H, 124H]
- 3. Pad 3 has a V-Door Orientation of East.
- 4. Pad 4 has a V-Door Orientation of East.

- C. A 600' x 600' area has been staked and flagged around each well pad. A plat for the well has been attached.
- D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

## 10. Plans for Surface Reclamation:

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

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

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

*Reclamation Standards:*

The portions of the pad not essential to production facilities or space required for workover operations will be reclaimed and seeded as per BLM requirements for interim reclamation. (See Interim Reclamation plans 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) plant 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 25 Brushy Draw project area: 100% of the surface is under the administrative jurisdiction of the Bureau of Land Management.
- B. The surface is multiple-use with the primary uses of the region for grazing and for the production of oil and gas.

**12. Other Information**

Changes from Notice of Staking / Onsite

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

See reference table for appropriate well number changes.

Notice of Staking Well Number	APD Well Number
1002H	102H
1004H	104H
1006H	106H
1008H	108H
1201H	121H
1202H	122H
1203H	123H
1204H	124H
1205H	121H
1206H	124H
1207H	127H
1208H	128H

#### Surveying

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

#### Soils and Vegetation

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

### **13. Bond Coverage**

Bond Coverage is Nationwide. Bond Number: COB000050

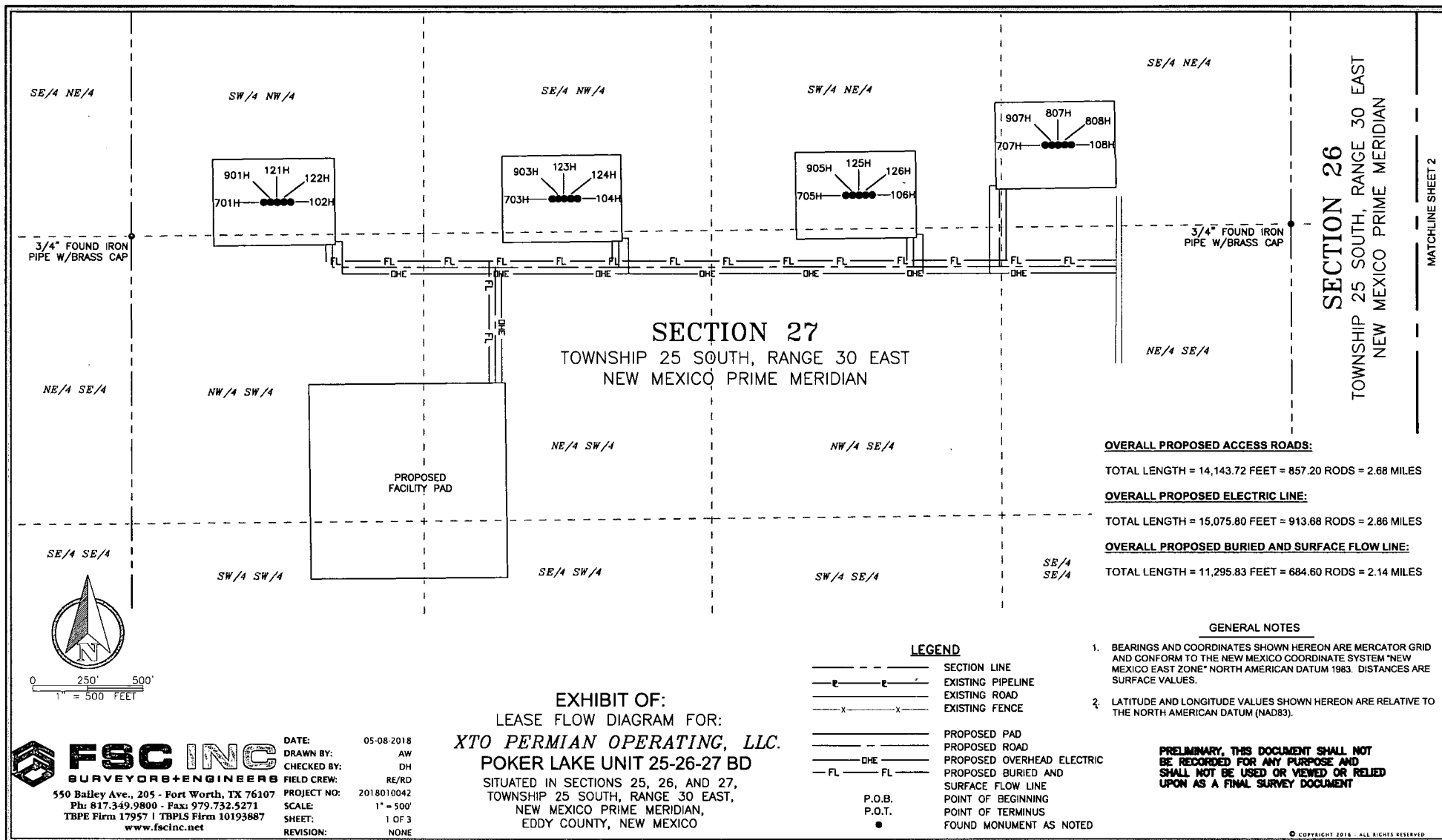
**Operator's Representatives:**

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

**Surface:**

Jimie Scott  
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



**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: 05-08-2018  
 DRAWN BY: AW  
 CHECKED BY: DH  
 FIELD CREW: RE/RD  
 PROJECT NO: 2018010042  
 SCALE: 1" = 500'  
 SHEET: 1 OF 3  
 REVISION: NONE

EXHIBIT OF:  
 LEASE FLOW DIAGRAM FOR:  
**XTO PERMIAN OPERATING, LLC.**  
**POKER LAKE UNIT 25-26-27 BD**  
 SITUATED IN SECTIONS 25, 26, AND 27,  
 TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
 NEW MEXICO PRIME MERIDIAN,  
 EDDY COUNTY, NEW MEXICO

**LEGEND**

---	SECTION LINE
---	EXISTING PIPELINE
---	EXISTING ROAD
---	EXISTING FENCE
---	PROPOSED PAD
---	PROPOSED ROAD
---	PROPOSED OVERHEAD ELECTRIC
---	PROPOSED BURIED AND SURFACE FLOW LINE
---	POINT OF BEGINNING
---	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED

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

**PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT**

MATCHLINE SHEET 1

## SECTION 27

TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN3/4" FOUND IRON  
PIPE W/BRASS CAP

SW/4 NW/4

NW/4 NW/4

121H 122H  
901H  
102H 701H  
702HPROPOSED  
FACILITY PAD

NE/4 NW/4

SE/4 NW/4

123H 124H  
903H  
104H 703H  
704HMSO ROAD DESCRIBED  
ON SEPARATE PLAT

NW/4 SW/4

NE/4 SW/4

SECTION 26  
TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN

SW/4 NE/4

125H 126H  
905H  
106H 705H  
706HPROPOSED  
FACILITY PAD

NW/4 SE/4

NE/4 NE/4

SE/4 NE/4

127H 128H  
907H  
108H 707H  
708H3/4" FOUND  
IRON PIPE  
W/BRASS CAP

NE/4 SE/4

NW/4  
SW/40 250' 500'  
1" = 500 FEET

## SECTION 25

TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN

MATCHLINE SHEET 3

**OVERALL PROPOSED ACCESS ROADS:**

TOTAL LENGTH = 14,143.72 FEET = 857.20 RODS = 2.68 MILES

**OVERALL PROPOSED ELECTRIC LINE:**

TOTAL LENGTH = 15,075.80 FEET = 913.68 RODS = 2.86 MILES

**OVERALL PROPOSED BURIED AND SURFACE FLOW LINE:**

TOTAL LENGTH = 11,295.83 FEET = 684.60 RODS = 2.14 MILES

**EXHIBIT OF:**

LEASE FLOW DIAGRAM FOR:

**XTO PERMIAN OPERATING, LLC.**  
**POKER LAKE UNIT 25-26-27 BD**SITUATED IN SECTIONS 25, 26, AND 27,  
TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
NEW MEXICO PRIME MERIDIAN,  
EDDY COUNTY, NEW MEXICO**LEGEND**

---	SECTION LINE
---	EXISTING PIPELINE
---	EXISTING ROAD
---	EXISTING FENCE
---	PROPOSED PAD
---	PROPOSED ROAD
---	PROPOSED OVERHEAD ELECTRIC
---	PROPOSED BURIED AND
---	SURFACE FLOW LINE
---	POINT OF BEGINNING
---	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED

P.O.B.  
P.O.T.**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).

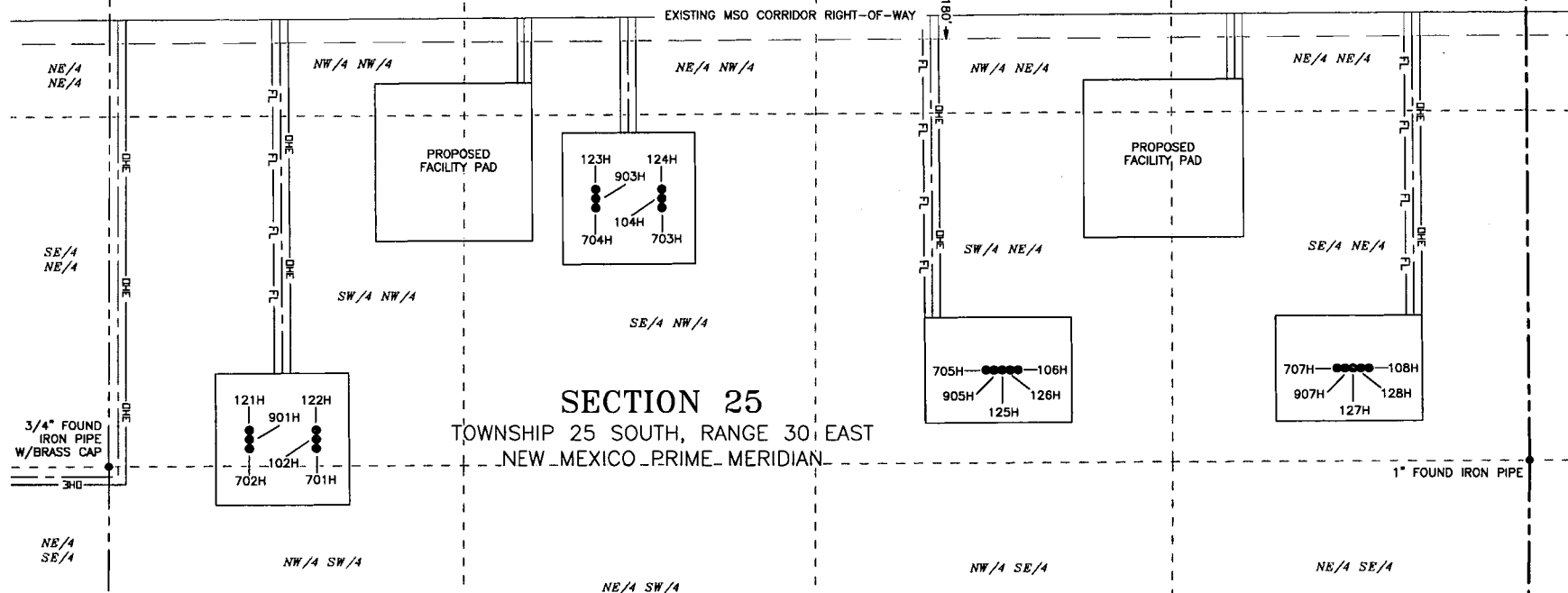
**PRELIMINARY, THIS DOCUMENT SHALL NOT  
BE RECORDED FOR ANY PURPOSE AND  
SHALL NOT BE USED OR VIEWED OR RELIED  
UPON AS A FINAL SURVEY DOCUMENT**

© COPYRIGHT 2018 - ALL RIGHTS RESERVED

550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.netDATE: 05-08-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW: RE/RO  
PROJECT NO: 2018010042  
SCALE: 1" = 500'  
SHEET: 2 OF 3  
REVISION: NONE

MATCHLINE SHEET 2

**SECTION 26**  
TOWNSHIP 25 SOUTH, RANGE 30 EAST  
NEW MEXICO PRIME MERIDIAN



**OVERALL PROPOSED ACCESS ROADS:**

TOTAL LENGTH = 14,143.72 FEET = 857.20 RODS = 2.68 MILES

**OVERALL PROPOSED ELECTRIC LINE:**

TOTAL LENGTH = 15,075.80 FEET = 913.68 RODS = 2.86 MILES

**OVERALL PROPOSED BURIED AND SURFACE FLOW LINE:**

TOTAL LENGTH = 11,295.83 FEET = 684.60 RODS = 2.14 MILES



0 250' 500'  
1" = 500' FEET

**EXHIBIT OF:**

LEASE FLOW DIAGRAM FOR:

**XTO PERMIAN OPERATING, LLC.**

**POKER LAKE UNIT 25-26-27 BD**

SITUATED IN SECTIONS 25, 26, AND 27,  
TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
NEW MEXICO PRIME MERIDIAN,  
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: 05-08-2018  
DRAWN BY: AW  
CHECKED BY: DH  
FIELD CREW: RE/RD  
PROJECT NO: 2018010042  
SCALE: 1" = 500'  
SHEET: 3 OF 3  
REVISION: NONE

**LEGEND**

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

**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).

**PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT**





## Section 1 - General

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

## Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

### **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:

Describe 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:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

### **Section 5 - Surface Discharge**

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

### **Section 6 - Other**

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

## Bond Info Data Report

03/28/2019

### 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: