NM OIL CONSERVATION DICTRICTS

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FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. MLC0063875A 6. If Indian, Allotee or Tribe Name 326075 7. If Unit or CA Agreement, Name and No. POKER LAKE / NMNM071016X 8. Lease Name and Well No. POKER LAKE UNIT 27 BD 28H 9. API Well No. 30-015-46430 10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 27 / T255 / R30E / NMP							
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PURPLE SAGE WOLFCAMP GAS							
12. County or Parish 13. State DDY NM							
pacing Unit dedicated to this well							
1/BIA Bond No. in file OB000050							
23. Estimated duration 90 days							
draulic Fracturing rule per 43 CFR 3162.3-							
unless covered by an existing bond on file (s							
ation and/or plans as may be requested by the							
Datc 05/17/2019							
Date 08/20/2019							
Office CARLSBAD							
the subject lease which would entitle the							

(Continued on page 2)

APPROVI Approval Date: 08/20/2019

*(Instructions on page 2)

Kup 11-8-19

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-0063875A
WELL NAME & NO.:	Poker Lake Unit 27 BD 128H
SURFACE HOLE FOOTAGE:	2290' FNL & 1033' FEL
BOTTOM HOLE FOOTAGE	0200' FSL & 0330' FEL Sec. 34, T. 25 S., R 30 E.
LOCATION:	Section 27, T. 25 S., R 30 E., NMPM
COUNTY:	County, New Mexico

Commercial Well Determination

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

Unit Wells

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

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

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

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

B. CASING

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

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

Wait on cement (WOC) for Water Basin:

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

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

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

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

- The 18-5/8 inch surface casing shall be set at approximately 1150 feet (in a competent bed <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, * and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 13-3/8 inch 1st intermediate casing, ensure casing is set 25 feet into the basal anhydrite of the Castile, is:

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

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight

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required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

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

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

Operator has proposed DV tool at depth of 3768', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:

- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- □ Cement to surface. If cement does not circulate, contact the appropriate BLM office. Excess calculates to 24% Additional cement may be required.

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 and the mud weight for the bottom of the hole. Report results to BLM office.

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

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

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

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a

larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. **PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.
- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8" 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 1st intermediate 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 9-5/8" casing integrity tests 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.

- 5. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

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 070219

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO PERMIAN OPERATING LLC
WELL NAME & NO.:	Poker Lake Unit 27 BD 128H
SURFACE HOLE FOOTAGE:	2290'/N & 1033'/E
BOTTOM HOLE FOOTAGE	200'/S & 330'/E
LOCATION:	Section 27, T.25 S., R.30 E., NMP
COUNTY:	Eddy County, New Mexico

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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
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)

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 ¹/₂ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

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.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

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 in drainages, playas, wetlands, riparian areas, 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)

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Exclosure Fencing

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

G. ON LEASE ACCESS ROADS

Road Width

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

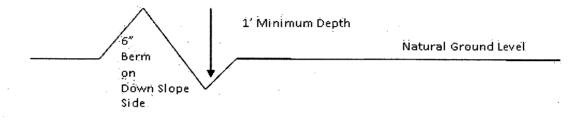
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

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

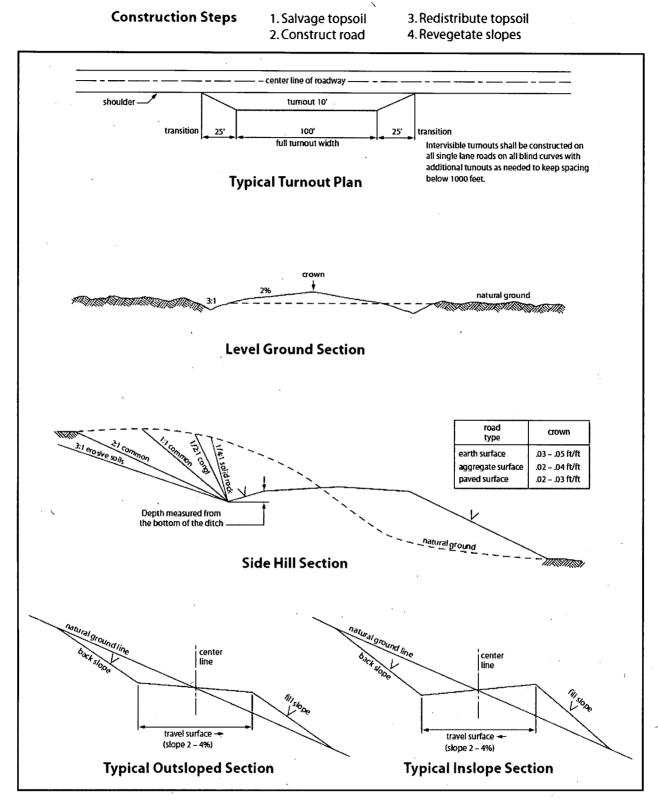
Fence Requirement

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

Public Access

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

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VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

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

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The 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 the 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 the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-ofway width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must 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 must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

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

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

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

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

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

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

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

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

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

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

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

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

BURIED PIPELINE STIPULATIONS

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of

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

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

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

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

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

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

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately <u>6</u> inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The

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holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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

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

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

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

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

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

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

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the

Page 15 of 20

Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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

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

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

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

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

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

Page 16 of 20

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

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

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

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

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

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

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

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8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

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

11. Special Stipulations:

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

VIII. INTERIM RECLAMATION

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

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

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

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

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

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

Seed Mixture 2, for Sandy Sites

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

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

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

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

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

Operator Certification

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

Operator Certification Data Report

08/23/2019

NAME: Stephanie Rabadue		Signed on: 05/17/2019
Title: Regulatory Coordinator		
Street Address: 500 W. Illinoi	s St, Ste 100	
City: Midland	State: TX	Zip: 79701
Phone: (432)620-6714		
Email address: stephanie_rat	oadue@xtoenergy.com	· · · · · · · · · · · · · · · · · · ·
Field Representa	tive	
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		1
Email address:		· · · · · · · · · · · · · · · · · · ·

AFMSS

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

APD ID: 10400041925

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 27 BD

Well Type: CONVENTIONAL GAS WELL

Submission Date: 05/17/2019

Well Number: 128H

Well Work Type: Drill

Highlighted data reflects the most recent changes

08/23/2019

Application Data Report

Show Final Text

Submission Date: 05/17/2019

Title: Regulatory Coordinator

Section 1 - General

APD ID: 10400041925 BLM Office: CARLSBAD

Federal/Indian APD: FED Lease number: NMLC0063875A

Surface access agreement in place?

Agreement in place? YES

Agreement number: NMNM071016X

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

Operator letter of designation:

Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

Operator Address: 6401 Holiday Hill Road, Bldg 5

Operator PO Box:

Operator City: Midland State: TX

Operator Phone: (432)682-8873

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Well Name: POKER LAKE UNIT 27 BD.

Field/Pool or Exploratory? Field and Pool

Master Development Plan name: Master SUPO name:

Master Drilling Plan name:

Well Number: 128H

.

Well API Number:

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

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Page 1 of 3

Zip: 79707

Lease Acres: 1920 Allotted? **Reservation:**

Tie to previous NOS? Y

User: Stephanie Rabadue

Federal or Indian agreement: FEDERAL

APD Operator: XTO PERMIAN OPERATING LLC

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

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 27 BD

1

Well Number: 128H

Desc	cribe o	other	miner	als:									•					
ls th	e proj	oosed	well	in a H	lelium	prod	uctio	n area?	N Use I	Existing W	ell Pa	d? NO	Ne	ew :	surface o	distur	bance) ?
Type of Well Pad: MULTIPLE WELL								pie Well P	. N i	Number: 4								
Well Class: HORIZONTAL								ER LAKE L ber of Leg		7 BD								
Well	Work	Туре	: Drill															
Well	Туре	: CON	IVENT	IONA	LGAS	s wė	_L											
Desc	cribe \	Nell T	ype:															
Well	sub-1	ype:	DELIN	NEATI	ON										÷			
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Rese	ervoir	well s	spacir	ng ass	signed	d acre	s Me	asurem	ent: 480 A	cres								
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SHL		FNL	1	FEL	25S	1	27	Aliquot	32,10221	1	EDD	NEW		F	NMLCO		1	0
Leg #1	0		3					SENE		103.8637 62	Y	MEXI CO	MEXI CO		063875 A	3		
#1 KOP	229	FNL	103	FEL	25S	30E	27	Aliquot	32.10221		EDD		NEW	<u> </u>	NMLCO	43	325	325
Leg	0		3					SENE		103.8637		MEXI	MEXI		063875		0	0
#1		-	000		050	0.0-		Allant		62		CO	CO		A		44-	
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Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP Leg #1	330	FNL	330	FEL	25S	30E	34	Aliquot NENE	32.09324	- 103.8628 6	EDD Y		NEW MEXI CO		NMNM 000503 9A	- 810 0	143 91	113 93
EXIT Leg #1	330	FSL	330	FEL	25S	30E	34	Aliquot SESE	32.0801	- 103.8615 89	EDD Y		NEW MEXI CO		NMNM 000503 9	- 810 0	190 65	113 93
BHL Leg #1	200	FSL	330	FEL	25S	30E	34	Aliquot SESE	32.07974 3	- 103.8615 91	EDD Y		NEW MEXI CO		NMNM 000503 9	- 810 0	191 95	113 93



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

Drilling Plan Data Report

08/23/2019

APD ID: 10400041925

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Submission Date: 05/17/2019

Highlighted data reflects the most recent changes

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured	ę		Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	PERMIAN	3293	0	0	OTHER : Quaternary	NONE	N
х.							
2 ,	RUSTLER	2251	1041	1041	SILTSTONE	USEABLE WATER	N
3	TOP SALT	2001	1291	1291	SALT	OTHER : Produced Water	N
4	BASE OF SALT	-374	3666	3666	SALT	OTHER : Produced Water	N
5	DELAWARE	-599	3891	3891	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	Ň
6	BONE SPRING	-4349	7641	7641	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
7	BONE SPRING 1ST	-5349	8641	8641	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
8	BONE SPRING 2ND	-6124	9416	9416	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
9	BONE SPRING 3RD	-7324	10616	10616	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced , Water	N
10	WOLFCAMP	-7689	10981	10981	SHALE	OTHER,NATURAL GAS,OIL : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11393

Equipment: The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 1115 psi. Once the permanent WH is installed on the 13-3/8" casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4307 psi.

Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint. 13-3/8" Collapse analyzed using 50% evacuation based on regional experience. 9-5/8" Collapse analyzed using 50% evacuation based on regional experience. 9-5/8" Collapse analyzed using 50% evacuation based on regional experience of 0.35

Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 11-3/4" and 8-5/8" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests

Page 1 of 7

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_27_BD_5MCM_20190404112324.pdf

PLU_27_BD_2M3MCM_20190404112311.pdf

BOP Diagram Attachment:

PLU_27_BD_5MBOP_20190404112349.pdf

PLU_27_BD_Multibowl_20190404121132.pdf

PLU_27_BD_2MBOP_20190404112336.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	24	18.625	NEW	API	N	0	1090	0	1090			1090	J-55	87.5	BUTT	1.28	2.02	DRY	14.4 1	DRY	14.4 1
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	3718	0	3718			3718	HCL -80	68	BUTT	2.57	1.8	DRY	11.6 3	DRY	11.6 3
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	9833	0	9833			9833	HCL -80	40	BUTT	1.45	1.28	DRY	3.21	DRY	3.21
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	19195	0	11393			19195	P- 110	23	Βυττ	3.34	1.38	DRY	2.21	DRY	2.21

Casing Attachments

Operator Name: XTO PERMIAN OPERATING LLC
Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Casing Attachments

Casing ID: 1 String Type: SURFACE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
PLU_27_BD_128H_Csg_20190516124826.pdf	
Casing ID: 2 String Type: INTERMEDIATE	· · · ·
Inspection Document:	
·	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
PLU_27_BD_128H_Csg_20190516124835.pdf	
Casing ID: 3 String Type:INTERMEDIATE	······································
Inspection Document:	
Sana Dagumanti	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
PLU_27_BD_128H_Csg_20190516124845.pdf	

Operator Name: XTO PERMIAN OPERATING LLC **Well Name:** POKER LAKE UNIT 27 BD

Well Number: 128H

1

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Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_27_BD_128H_Csg_20190516124903.pdf

Section	t										
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1090	1050	1.87	12.8	1963. 5	100	EconoCem- HLTRRC	None
SURFACE	Tail				550	1.35	14.8	742.5	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	3718	2190	1.88	12.8	4117. 2	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				760	1.35	14.8	1026	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	3768	0	9833	1020	1.87	12.8	1907. 4	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				350	1.35	14.8	472.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead		3818	9833	1670	1.88	12.8	3139. 6	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				470	1.33	14.8	625.1	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	1919 5	1500	1.88	11.5	2820	20	Halcem-C	2% CaCl
PRODUCTION	Tail				2240	1.33	13.2	2979. 2	20	VersaCem	None

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

	Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hď	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
	3718	9833	OTHER : FW / Cut Brine	9.1	9.5						- -	A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
· · · · · · · · · · · · · · · · · · ·	0	1090	OTHER : FW/Native	8.4	8.8		-		,			A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
	1090	3718	OTHER : Brine / Gel Sweeps	9.8	10.2							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate

Page 5 of 7

Operator Name: XTO PERMIAN OPERATING LLC **Well Name:** POKER LAKE UNIT 27 BD

Well Number: 128H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Ha	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics as a closed loool system
9833	1139 3	OTHER : FW / Cut Brine / Polymer / OBM		.11.8							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Section 6 - Test, Logging, Coring

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

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

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

CBL,CNL,DS,GR,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6813

Anticipated Surface Pressure: 4306.54

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geoharzards description:

The necessary mud products for weight addition and fluid loss control will be on location at all times. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid.

Contingency Plans geohazards attachment:

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

PLU_27_BD_H2S_Plan_20190404120345.pdf PLU_27_BD_H2S_Dia_20190404120358.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_27_BD_128H_DD_20190516125231.pdf

Other proposed operations facets description:

The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 1090' (201' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 3718' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 9833' and 9-5/8 inch casing ran and cemented 500' into the 13-3/8 inch casing. An8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 500' into the 9-5/8 inch casing shoe.

Other proposed operations facets attachment:

PLU_27_BD_GCP_20190404120635.pdf

Other Variance attachment:

PLU_27_BD_FH_20190404120439.pdf

GENERAL OFFICES -- MIDLAND, TEXAS

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

HYDROGEN SULFIDE (H2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H2S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas source

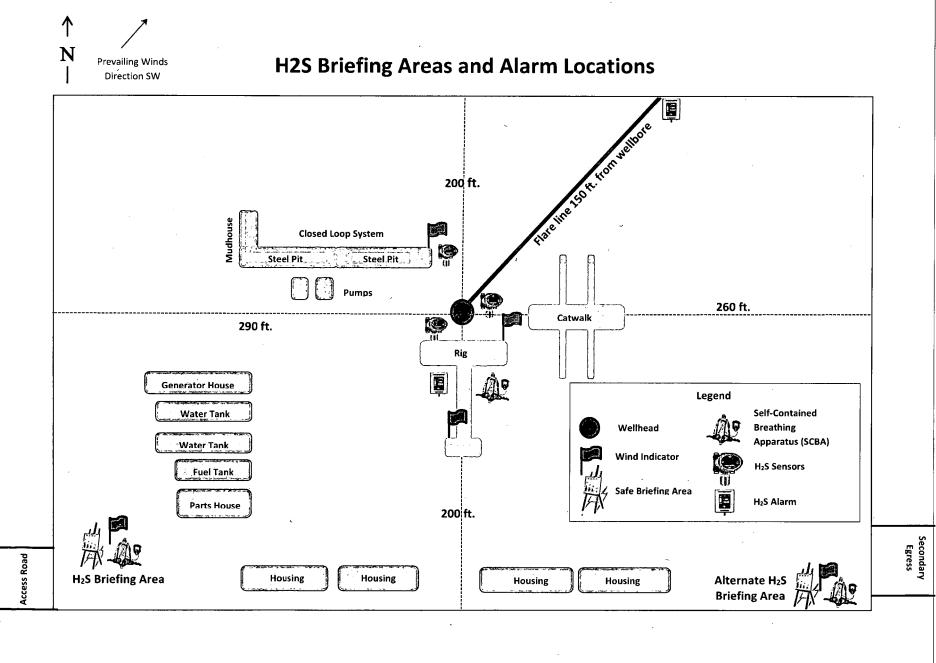
Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident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

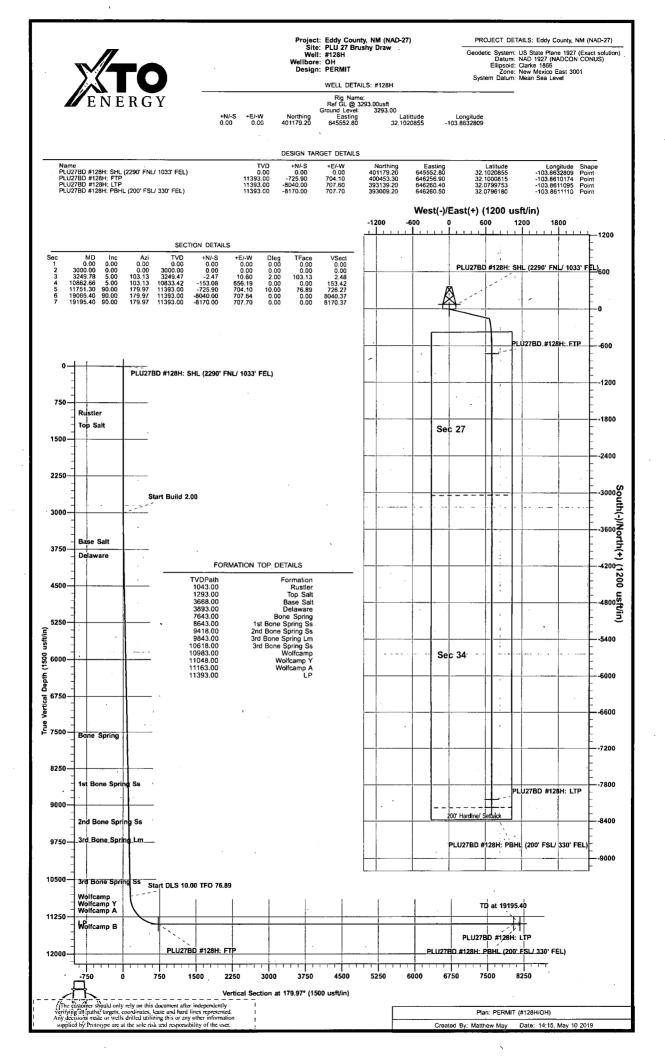
Characteristics of H₂S and SO₂

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

Contacting Authorities

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





District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

· · · ·	API Numbe					EAGE DEDIC			
-		r		² Pool Code			³ Pool Nam	le	
	30-015-								
⁴ Property (Code				⁵ Property N	Name		⁶ V	Vell Number
	POKER LAKE UNIT 27 BD								
⁷ OGRID	No.				⁸ Operator 1	Name			Elevation .
26073	7			XT	O PERMIAN OPI	ERATING, LLC			3,293'
•					¹⁰ Surface I	Location		I	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	27	25 S	30 E		2,290	NORTH	1,033	EAST	EDDY
		•	" Bot	tom Hol	e Location If	Different From	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	34	25 S	30 E		200	SOUTH	-330	EAST	EDDY
12 Dedicated Acres	s ¹³ Joint o	r Infill ¹⁴ C	onsolidation C	Code 15 Or	der No.		I	l	1.000

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

1	<u> </u>					¹⁷ OPERATOR CERTIFICATION
SEC.	28 28	SEC 17259	27 1 R30E ¹ 22 S.H.L., 0	<u>SEC.</u> 26	GEODETIC COORDINATES GEODETIC COORDINATES NAD 27 NME NAD 83 NME SURFACE LOCATION SURFACE LOCATION SURFACE LOCATION Y= 401,179.2 Y= 401,237.2 X= 686,738.0	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including
1	1			B 1.033'	LAT.= 32.102086'N LAT.= 32.102210'N LONG.= 103.863281'W LONG.= 103.863762'W	the proposed bottom hole location or has a right to drill this well at this
 	<u>GRID</u> HORIZ. +	AZ.=135'52'0 DIST.=1,011.3 + 1	2,310 2,314 1,017	F.T.P.	FIRST TAKE POINT FIRST TAKE POINT NAD 27 NME NAD 83 NME Y= 400,453.3 Y= 400,511.3 X= 646,256.9 X= 687,442.2 LAT.= 32.100082'N LAT.= 32.100206'N LONG.= 103.861017'W LONG.= 103.861498'W	location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
 +	 + 	+ SEC. 34			CORNER COORDINATES TABLE NAD 27 NME A - Y= 400,798.8 N, X= 645,259.3 E B - Y= 400,813.2 N, X= 645,858.3 E C - Y= 398,133.4 N, X= 645,262.0 E	Signature Date
SEC		T25S R30E		$\begin{bmatrix} E \\ - \end{bmatrix} \begin{bmatrix} SEC. \\ 35 \\ - \end{bmatrix} \begin{bmatrix} - \\ $	D - Y= 398,146.7 N, X= 646,590.5 E E - Y= 395,463.8 N, X= 645,259.4 E F - Y= 395,474.6 N, X= 646,586.6 E G - Y= 392,801.4 N, X= 645,260.9 E H - Y= 392,811.8 N, X= 646,581.0 E	E-mail Address
		179'58'15" .=7.444.32		.T.P.+ - +-		
HOR 	<u> </u> +	+ T26S R30E SEC. 3	B.H.L- GI GI 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{r} \text{CORNER COORDINATES TABLE} \\ \text{NAD B3 NME} \\ \text{A} &- \text{Y=} 400,856.8 \text{ N}, \text{X=} 686,444.5 \text{ E} \\ \text{B} &- \text{Y=} 400,871.2 \text{ N}, \text{X=} 687,771.6 \text{ E} \\ \text{C} &- \text{Y=} 338,191.3 \text{ N}, \text{X=} 686,447.3 \text{ E} \\ \text{D} &- \text{Y=} 339,524.6 \text{ N}, \text{X=} 687,775.9 \text{ E} \\ \text{E} &- \text{Y=} 395,521.7 \text{ N}, \text{X=} 687,772.0 \text{ E} \\ \text{F} &- \text{Y=} 395,532.5 \text{ N}, \text{X=} 687,772.0 \text{ E} \\ \text{G} &- \text{Y=} 392,859.2 \text{ N}, \text{X=} 686,446.4 \text{ E} \\ \text{H} &- \text{Y=} 392,869.6 \text{ N}, \text{X=} 687,776.5 \text{ E} \\ \end{array}$	18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
 	 + 				LAST TAKE POINT LAST TAKE POINT NAD 27 NME NAD 83 NME Y= 393,139.2 Y= 393,197.0 X= 646,260.4 X= 687,445.9 LAT.= 32.079975'N LAT.= 32.000100'N LONG.= 103.861110'W LONG.=	4-17-2019 Date of Survey Signatue and Seal of Professional Surveyor:
 _ SEC 	• • 9 • • •	SEC		+ - + - + - + - + - + - + - + - + -	BOTTOM HOLE LOCATION NAD 27 NME BOTTOM HOLE LOCATION NAD 27 NME NAD 83 NME Y= 393,009.2 Y= 393,067.0 X= 646,280.5 X= 887,446.0 LAT.= 32.079618'N LAT.= 32.079743'N LONG.= 103.861111'W LONG.= 103.861591'W	ARK DILLON HARP 23786
<u> </u>	I		1 1			Certificate Number JC 2018010102



Database:	FDM	5000.1.13 Si	nole User Dh		l ocal C	o-ordinate Re	forence:	Well #128H		
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Site:		27 Brushy Dra			MD Refe			Ref GL @ 329	3.00usπ	
	•	•	dW			eference:		Grid		
Nell:	#128	H			Survey	Calculation N	lethod:	Minimum Curv	/ature	
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Geo Datum:	NAD 19	27 (NADCON	V CONUS)	,						
Map Zone:	New M	exico East 30	01	· ·						
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Site Position:			North	ning:	385,	019.50 usft	Latitude:			32.057701
From:	Ma	р	Easti	ng:	642,	283.20 usft	Longitude:			-103.874061
Position Uncerta	ainty:	0.00	Dusft Slot I	Radius:		13-3/16 "	Grid Conve	rgence:		0.24
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Wellbore Magnetics	<u>OH</u> Mo	del Name IGRF2015	Sampl	e Date	Declin) 		')		nT)
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Wellbore Magnetics Design Audit Notes: Version:	(OH Mo	del Name IGRF2015 IT	Sampl Sampl Phas epth From (T (usft)	e Date 05/10/19 :e: P	Declin (°) LAN +N/-S (usft)) 6.88 Tie +E. (us	(On Depth: /-W sft)) 59.88 Dire	(0.00 ection (°)	nT)
Wellbore Magnetics Design Audit Notes: Version: Vertical Section	(OH Mo	del Name IGRF2015 IT	Sampl Sampl Phas epth From (T (usft)	e Date 05/10/19 :e: P	Declin (°) LAN +N/-S (usft)	6.88 Tie +E. (us 0.	(On Depth: /-W sft)) 59.88 Dire	(0.00 ection (°)	nT)
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Plan Sections Measured	PERV	del Name IGRF2015 IT De	Sampl Phas epth From (T (usft) 0.00 Vertical	e Date 05/10/19 se: P VD)	Declin (°) LAN +N/-S (usft) 0.00) 6.88 Tie +E. (us 0.1 Dogleg	On Depth: /-W sft) 00 Build) 59.88 Dire 17 Turn	() 0.00 ection (°) '9.97	nT)
Wellbore Magnetics Design Audit Notes: Version: Vertical Sections Plan Sections Measured	(OH Mo	del Name IGRF2015 IT	Sampl Phas epth From (T (usft) 0.00	e Date 05/10/19 :e: P	Declin (°) LAN +N/-S (usft)	6.88 Tie +E. (us 0.	(On Depth: /-W sft) 00) 59.88 Dire 17 Turn Rate	() 0.00 ection (°) '9.97 TFO	nT)
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft)	<u>OH</u> Mo <u>PERM</u>	del Name IGRF2015 IT De Azimuth (°)	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft)	e Date 05/10/19 se: P VD) +N/-S (usft)	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft)	6.88 Tie +E (us 0.1 Dogleg Rate (°/100usft)	(On Depth: /-W sft) 00 Build Rate (°/100usft)) 59.88 Dire 17 Turn Rate (°/100usft)	(0.00 ection (°) 9.97 TFO (°)	nT) 47,642
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	6.88 Tie +E (us 0.1 Dogleg Rate (°/100usft) 0.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00) 59.88 Dire 17 Turn Rate (°/100usft) 0.00	(0.00 ection (°) 9.97 TFO (°) 0.00	nT) 47,642 Target
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00 3,000.00	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00 0.00	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00 3,000.00	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00 0.00	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	6.88 Tie +E (us 0.1 Dogleg Rate (°/100usft) 0.00 0.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00) 59.88 Dire 17 Turn Rate (°/100usft) 0.00 0.00	(0.00 ection (°) 9.97 TFO (°) 0.00 0.00	nT) 47,642 Target
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00 3,000.00 3,249.78	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00 0.00 103.13	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00 3,000.00 3,249.47	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00	6.88 Tie +E (us 0.1 Dogleg Rate (°/100usft) 0.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00) 59.88 Dire 17 Turn Rate (°/100usft) 0.00	(0.00 ection (°) 9.97 TFO (°) 0.00	nT) 47,642 Target
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00 3,000.00	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00 0.00	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00 3,000.00	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00 0.00	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00	6.88 Tie +E (us 0.1 Dogleg Rate (°/100usft) 0.00 0.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00) 59.88 Dire 17 Turn Rate (°/100usft) 0.00 0.00	(0.00 ection (°) 9.97 TFO (°) 0.00 0.00	nT) 47,642 Target
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00 3,000.00 3,249.78	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00 0.00 103.13	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00 3,000.00 3,249.47 10,833.42	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00 0.00 -2.47 -153.08	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 10.60	6.88 Tie +E. (us 0.1 Dogleg Rate (°/100usft) 0.00 0.00 2.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00) 59.88 Dire 17 Turn Rate (°/100usft) 0.00 0.00 0.00	(*) 0.00 ection (*) 9.97 TFO (*) 0.00 0.00 103.13 0.00	nT) 47,642 Target
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00 3,000.00 3,249.78 10,862.66 11,751.30	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00 0.00 103.13 103.13 179.97	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00 3,000.00 3,249.47 10,833.42 11,393.00	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00 0.00 -2.47 -153.08 -725.90	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 10.60 656.19 704.10	6.88 Tie +E. (us 0.1 Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00 10.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00 9.57) 59.88 Dire 17 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 8.65	(*) 0.00 ection (*) 9.97 TFO (*) 0.00 0.00 103.13 0.00 76.89	nT) 47,642 Target PLU27BD #128H:
Wellbore Magnetics Design Audit Notes: Version: Vertical Section Plan Sections Measured Depth Inc (usft) 0.00 3,000.00 3,249.78 10,862.66	<u>OH</u> Mo <u>PERM</u> : : : : : : : : : : : : : : : : : : :	del Name IGRF2015 IT De Azimuth (°) 0.00 0.00 103.13 103.13	Sampl Phas epth From (T (usft) 0.00 Vertical Depth (usft) 0.00 3,000.00 3,249.47 10,833.42	e Date 05/10/19 se: P VD) +N/-S (usft) 0.00 0.00 -2.47 -153.08	Declin (°) LAN +N/-S (usft) 0.00 +E/-W (usft) 0.00 0.00 10.60 656.19	6.88 Tie +E. (us 0.1 Dogleg Rate (°/100usft) 0.00 0.00 2.00 0.00	(* On Depth: /-W sft) 00 Build Rate (*/100usft) 0.00 0.00 2.00 0.00) 59.88 Dire 17 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	() 0.00 ection (°) 9.97 TFO (°) 0.00 0.00 103.13 0.00 76.89 0.00	nT) 47,642 Target



Planned Survey		антана и продата и продата и продата на продата и продата на продата на продата на продата на продата на прод Поста на продата на продата и продата на прод Поста продата на продат	
Design:	PERMIT		
Wellbore:	ОН		
Vell:	#128H	Survey Calculation Method:	Minimum Curvature
Site:	PLU 27 Brushy Draw	North Reference:	Grid
Project:	Eddy County, NM (NAD-27)	MD Reference:	Ref GL @ 3293.00usft
Company:	XTO Energy	TVD Reference:	Ref GL @ 3293.00usft
Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #128H

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00 400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	500.00 600.00 700.00 800.00 900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,000.00 1,043.00 Rustler	0.00	0.00	1,000.00 1,043.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,100.00 1,200.00 1,293.00 Top Salt	0.00 0.00 0.00	0.00 0.00 0.00	1,100.00 1,200.00 1,293.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,300.00 1,400.00 1,500.00 1,600.00 1,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,800.00 1,900.00 2,000.00 2,100.00 2,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,300.00 2,400.00 2,500.00 2,600.00 2,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	2,300.00 2,400.00 2,500.00 2,600.00 2,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
2,800.00 2,900.00 3,000.00 3,100.00 3,200.00	0.00 0.00 2.00 4.00	0.00 0.00 103.13 103.13	2,800.00 2,900.00 3,000.00 3,099.98 3,199.84	0.00 0.00 0.00 -0.40 -1.59	0.00 0.00 0.00 1.70 6.80	0.00 0.00 0.00 0.40 1.59	0.00 0.00 2.00 2.00	0.00 0.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
3,249.78 3,300.00 3,400.00 3,500.00 3,600.00	5.00 5.00 5.00 5.00 5.00 5.00	103.13 103.13 103.13 103.13 103.13 103.13	3,249.47 3,299.49 3,399.11 3,498.73 3,598.35	-2.47 -3.47 -5.44 -7.42 -9.40	10.60 14.86 23.34 31.82 40.30	2.48 3.47 5.46 7.44 9.42	2.00 0.00 0.00 0.00 0.00	2.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,669.91	5.00	103.13	3,668.00	-10.78	46.23	10.81	0.00	0.00	0.00
Base Salt 3,700.00 3,800.00 3,895.77	5.00 5.00 5.00	103.13 103.13 103.13	3,697.97 3,797.59 3,893.00	-11.38 -13.36 -15.25	48.78 57.26 65.38	11.40 13.39 15.29	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Delaware 3,900.00	5.00	103.13	3,897.21	-15.34	6 5.74	15.37	0.00	0.00	0.00
4,000.00 4,100.00 4,200.00 4,300.00 4,400.00	5.00 5.00 5.00 5.00 5.00 5.00	103.13 103.13 103.13 103.13 103.13 103.13	3,996.83 4,096.45 4,196.07 4,295.69 4,395.31	-17.31 -19.29 -21.27 -23.25 -25.23	74.22 82.70 91.18 99.66 108.14	17.35 19.34 21.32 23.30 25.28	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00

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COMPASS 5000.1 Build 74



Database: Company: Project: Site: Well: Well: Design:	XTO Energy	y, NM (NAD-27		TVD MD R North	l Co-ordinate Reference: leference: n Reference: ey Calculatio	، به ۲۰		3293.00usft 3293.00usft		
Planned Survey Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,500.00	5.00	103.13	4,494.93	-27.21	116.62	27.27	0.00	0.00	0.00	
4,600.00	5.00	103.13	4,594.55	-29.18	125.10	29.25	0.00	0.00	0.00	
4,700.00	. 5.00	103.13	4,694.17	-31.16	133.58	31.23	0.00	0.00	0.00	
4,800.00	5.00	103.13	4,793.79	-33.14	142.06	33.21	0.00	0.00	0.00	
4,900.00	5.00	103.13	4,893.42	-35.12	150.54	35.20	0.00	0.00	0.00	
5,000.00	5.00	103.13	4,993.04	-37.10	159.02	37.18	0.00	0.00		
5,100.00	5.00	103.13	4,993.04 5,092.66	-37.10 -39.08	167.50	37.18	0.00	0.00	0.00	
5,200.00	5.00	103.13	5,092.66	-39.08 -41.05	175.98	39.16 41.15	0.00	0.00	0.00 0.00	
5,300.00	5.00	103.13	5,291.90	-43.03	184.46	41.15				
5,400.00	5.00	103.13	5,391.50	-45.03	· 192.94	45.13	0.00	0.00	0.00	
					192.94	45.11	0.00	. 0.00	0.00	
5,500.00	5.00	103.13	5,491. 14	-46.99	201.42	47.09	0.00	0.00	0.00	
5,600.00	5.00	103.13	5,590.76	-48.97	209.90	49.08	0.00	0.00	0.00	
5,700.00	5.00	103.13	5,690.38	-50.94	218.38	51.06	0.00	0.00	0.00	
5,800.00	5.00	103.13	5,790.00	-52.92	226.86	53.04	0.00	0.00	0.00	
5,900.00	5.00	103.13	5,889.62	-54.90	235.34	55.02	0.00	0.00	0.00	
6,000.00	5.00	103.13	5,989.24	-56.88	242.02	57.04	0.00			
6,100.00	5.00	103.13	6,088.86	-56.66 ·	243.82	57.01	0.00	0.00	0.00	
	5.00				252.31	58.99	0.00	0.00	0.00	
6,200.00	, 5.00	103.13	6,188.48	-60.84	260.79	60.97	0.00	0.00	0.00	
6,300.00	5.00	103.13	6,288.10	-62.81	269.27	62.96	0.00	0.00	0.00	
6,400.00	5.00	103.13	6,387.72	-64.79	277.75	64.94	0.00	0.00	0.00	
6,500.00	5.00	103.13	6,487.34	-66.77	286.23	66.92	0.00	0.00	0.00	
6,600.00	5.00	103.13	6,586.96	-68.75	294.71	68.90	0.00	0.00	0.00	
6,700.00	5.00	103.13	6,686.58	-70.73	303.19	70.89	0.00	0.00	0.00	
6,800.00	5.00	103.13	6,786.20	-72.71	311.67	72.87	0.Ò0	0.00	0.00	
6,900.00	5.00	103.13	6,885.82	-74.68	320.15	74.85	0.00	0.00	0.00	
· 7,000.00	5.00	103.13	6,985.44	-76.66	328.63	76.83				
7,000.00	5.00	103.13	6,985.44 7,085.06				0.00	0.00	0.00	
7,200.00	5.00	103.13	7,085.06	-78.64 -80.62	337.11 345.59	78.82	0.00	0.00	0.00	
7,300.00	5.00	103.13	7,184.88	-80.62 -82.60	345.59 354.07	80.80 82.78	0.00 0.00	0.00 0.00	0.00 0.00	
7,400.00	5.00	103.13	7,383.92	-82.60	362.55	84.77	0.00	0.00	0.00	
7,500.00	5.00	103.13	7,483.54	-86.55	371.03	86.75	0.00	0.00	0.00	
7,600.00	5.00	103.13	7,583.16	-88.53	. 379.51	88.73	0.00	0.00	0.00	
7,660.07	5.00	103.13	7,643.00	-89.72	384.60	89.92	0.00	0.00	0.00	-
Bone Spri	ng				· · · · · · · ·					1
7,700.00	5.00	103.13	7,682.78	-90.51	387.99	90.71	0.00	0.00	0.00	•
7,800.00	5.00	103.13	7,782.40	-92.49	396.47	92.70	. 0.00	0.00	0.00	
7,900.00	5.00	103.13	7,882.02	-94.47	404.95	94.68	0.00	0.00	0.00	
8,000.00	5.00	103.13	7,981.64	-94.47 -96.45	413.43	94.66 96.66	0.00	0.00	0.00	
8,000.00	5.00	103.13	· 8.081.26	-96.45	413.43	98.65				
8,200.00	5.00	103:13	· 8,081.26 8,180.88	-98.42 -100.40	421.91 430.39	98.65 100.63	0.00	0.00	0.00 0.00	
8,300.00	5.00	103.13	8,280.50	-100.40	430.39 438.87		0.00	0.00	0.00	
0,000.00		103.13			430.0/	102.61	0.00	0.00	0.00	
8,400.00	5.00	103.13	8,380.12	-104.36	447.35	104.59	0.00	0.00	0.00	
8,500.00	5.00	103.13	8,479.74	-106.34	455.83	106.58	0.00	0.00	0.00	
8,600.00	5.00	103.13	8,579.36	-108.32	464.31	108.56	0.00	0.00	0.00	
8,663.88	5.00	103.13	8,643.00	-109.58	469.73	109.83	0.00	0.00	0.00	

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Database: Company: Project: Site: Well: Wellbore: Design:	XTO Energy	y, NM (NAD-27		TVD MD I Nort	al Co-ordinate Reference: Reference: h Reference: vey Calculatio	•		3293.00usft 3293.00usft		
Planned Survey	s anteres a particularizadas de 1 Fore nacionar na se ay an									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	*
9,400.00 9,441.84 2nd Bone		103.13 103.13	9,376.32 9,418.00	-124.14 -124.97	532.16 535.70	124.42 125.25	0.00 0.00	0.00 0.00	0.00 0.00	· 1
9,500.00 9,600.00	5.00	103.13 103.13	9,475.94 9,575.56	-126.12 -128.10	540.64 549.12	126.40 128.39	0.00 0.00	0.00 0.00	0.00 0.00	
9,700.00 9,800.00 9,868.46 3rd Bone	5.00	103.13 103.13 103.13	9,675.18 9,774.80 9,843.00	-130.08 -132.06 -133.41	557.60 566.08 571.88	130.37 132.35 133.71	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	4
9,900.00 10,000.00	5.00	103.13 103.13	9,874.42 9,974.04	-134.03 -136.01	574.56 583.04	134.33 136.32	0.00 0.00	0.00 0.00	0.00 0.00	_ !
10,100.00 10,200.00 10,300.00 10,400.00 10,500.00	5.00 5.00 5.00	103.13 103.13 103.13 103.13 103.13 103.13	10,073.66 10,173.28 10,272.90 10,372.52 10,472.14	-137.99 -139.97 -141.95 -143.93 -145.90	591.52 600.00 608.48 616.96 625.44	138.30 140.28 142.27 144.25 146.23	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	
10,600.00 10,646.41 3rd Bone	5.00 5.00 Spring Ss	103.13 103.13	10,571.76 10,618.00	-147.88 -148.80	633.92 637.86	148.21 149.13	0.00 0.00 0.00	0.00 0.00 0.00	0.00	
10,700.00 10,800.00 10,862.66	5.00	103.13 103.13 103.13	10,671.38 10,771.00 10,833.42	-149.86 -151.84 -153.08	642.40 650.88 656.19	150.20 152.18 153.42	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	
10,900.00 10,950.00 11,000.00 11,014.99 Wolfcam	10.99 15.63 17.06	135.10 153.99 162.26 163.87	10,870.57 10,919.97 10,968.61 10,983.00	-155.03 -161.44 -172.15 -176.18	659.36 663.56 667.71 668.94	155.38 161.79 172.50 176.53	10.00 10.00 10.00 10.00	5.05 8.23 9.27 9.53	85.63 37.76 16.55 10.73	1
11,050.00 11,084.39	20.43	166.77 168.84	11,016.15 11,048.00	-187.07 -199.72	671.76 674.48	187.42 200.07	10.00 10.00	9.64 9.74	8.28 6.02	. '
Wolfcam) 11,100.00 11,150.00	25.31 30.23	169.60 171.57	11,062.20 11,106.43	-206.09 -229.07	675.69 679.47	206.44 229.42	10.00 10.00	9.79 9.83	4.92 3.94	
11,200.00 11,217.94 Wolfcam	36.94	173.03 173.47	11,148.50 11,163.00	-255.83 -266.31	683.06 684.30	256.18 266.67	10.00 10.00	9.88 9.90	2.92 2.45	
11,250.00 11,300.00 11,350.00 11,400.00 11,450.00	45.08 50.04 55.02	174.17 175.10 175.88 176.56 177.15	11,188.08 11,224.87 11,258.60 11,289.01 11,315.87	-286.16 -319.85 -356.62 -396.21 -438.30	686.44 689.59 692.48 695.09 697.40	286.52 320.21 356.98 396.57 438.66	10.00 10.00 10.00 10.00 10.00	9.91 9.92 9.93 9.94 9.95	2.19 1.86 1.56 1.35 1.19	
11,500.00 11,550.00 11,600.00 11,650.00 11,700.00	69.95 74.93 79.91	177.69 178.19 178.66 179.10 179.54	11,338.96 11,358.13 11,373.21 11,384.10 11,390.71	-482.58 -528.72 -576.35 -625.13 -674.67	699.38 701.04 702.34 703.29 703.88	482.95 529.08 576.72 625.50 675.04	10.00 10.00 10.00 10.00 10.00	9.95 9.96 9.96 9.96 9.96	1.08 1.00 0.93 0.89 0.86	
11,751.30 LP	90.00	179.97	11,393.00	-725.90	704.10	726.27	10.00	9.96	0.85	•
11,800.00 11,900.00 12,000.00 12,100.00	90.00 90.00	179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00	-774.60 -874.60 -974.60 -1,074.60	704.12 704.17 704.22 704.27	774.97 874.97 974.97 1,074.97	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	-
12,200.00 12,300.00		179.97 179.97	11,393.00 11,393.00	-1,174.60 -1,274.60	704.32 704.37	1,174.97 1,274.97	0.00 0.00	0.00 0.00	0.00 0.00	

COMPASS 5000.1 Build 74

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Databa Comp Projec Site: Well: Wellbo Desigi	any: st: pre:	XTO Energy	, NM (NAD-27	•	TVD R MD Re North I	Co-ordinate eference: ference: Reference: Calculation		-	3293.00usft 3293.00usft		
Plann	ed Survey Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate	Turn Rate (°/100usft)	
	12,400.00 12,500.00	90.00 90.00	179.97 179.97	11,393.00 11,393.00	(usft) -1,374.60 -1,474.60	(usft) 704.41 704.46	1,374.97 1,474.97	0.00 0.00	0.00	0.00 0.00	
	12,600.00 12,700.00 12,800.00 12,900.00 13,000.00 13,100.00	90.00 90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-1,574.60 -1,674.60 -1,774.60 -1,874.60 -1,974.60 -2,074.60	704.51 704.56 704.61 704.66 704.70 704.75	1,574.97 1,674.97 1,774.97 1,874.97 1,974.97 2,074.97	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	
-	13,200.00 13,300.00 13,400.00 13,500.00 13,600.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-2,174.60 -2,274.60 -2,374.60 -2,474.60 -2,574.60	704.80 704.85 704.90 704.95 704.99	2,174.97 2,274.97 2,374.97 2,474.97 2,574.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	13,700.00 13,800.00 13,900.00 14,000.00 14,100.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-2,674.60 -2,774.60 -2,874.60 -2,974.60 -3,074.60	705.04 705.09 705.14 705.19 705.24	2,674.97 2,774.97 2,874.97 2,974.97 3,074.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	14,200.00 14,300.00 14,400.00 14,500.00 14,600.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-3,174.60 -3,274.60 -3,374.60 -3,474.60 -3,574.60	705.28 705.33 705.38 705.43 705.48	3,174.97 3,274.97 3,374.97 3,474.97 3,574.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	14,700.00 14,800.00 14,900.00 15,000.00 15,100.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-3,674.60 -3,774.60 -3,874.60 -3,974.60 -4,074.60	705.53 705.57 705.62 705.67 705.72	3,674.97 3,774.97 3,874.97 3,974.97 4,074.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	15,200.00 15,300.00 15,400.00 15,500.00 15,600.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-4,174.60 -4,274.60 -4,374.60 -4,474.60 -4,574.60	705.77 705.82 705.86 705.91 705.96	4,174.97 4,274.97 4,374.97 4,474.97 4,574.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 ~0.00 0.00 0.00 0.00	
	15,700.00 15,800.00 15,900.00 16,000.00 16,100.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-4,674.60 -4,774.60 -4,874.60 -4,974.60 -5,074.60	706.01 706.06 706.11 706.15 706.20	4,674.97 4,774.97 4,874.97 4,974.97 5,074.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	16,200.00 16,300.00 16,400.00 16,500.00 16,600.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-5,174.60 -5,274.60 -5,374.60 -5,474.60 -5,574.60	706.25 706.30 706.35 706.40 706.44	5,174.97 5,274.97 5,374.97 5,474.97 5,574.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	16,700.00 16,800.00 16,900.00 17,000.00 17,100.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-5,674.60 -5,774.60 -5,874.60 -5,974.60 -6,074.60	706.49 706.54 706.59 706.64 706.69	5,674.97 5,774.97 5,874.97 5,974.97 6,074.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	x
	17,200.00 17,300.00 17,400.00 17,500.00 17,600.00	90.00 90.00 90.00 90.00 90.00	179.97 179.97 - 179.97 179.97 179.97 179.97	11,393.00 11,393.00 11,393.00 11,393.00 11,393.00	-6,174.60 -6,274.60 -6,374.60 -6,474.60 -6,574.60	706.74 706.78 706.83 706.88 706.93	6,174.97 6,274.97 6,374.97 6,474.97 6,574.97	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	
	17,700.00	90.00	179.97	11,393.00	-6,674.60	706.98	6,674.97	· 0.00	0.00	0.00	

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COMPASS 5000.1 Build 74



Planned Survey	، بيدينيسين (مان) (مايسينيانين) ((البيغ مايين المناسين) (البيغ مايين المناسين) (a wata manana kata ata pana a ata pana ata barata na ata barata na ata barata da ata ata ata ata ata ata ata a	
Design:	PERMIT		and a state of the
Wellbore:	ОН		
Well:	#128H	Survey Calculation Method:	Minimum Curvature
Site:	PLU 27 Brushy Draw	North Reference:	Grid
Project:	Eddy County, NM (NAD-27)	MD Reference:	Ref GL @ 3293.00usft
Company:	XTO Energy	TVD Reference:	, Ref GL @ 3293.00usft
Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #128H

	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
-	17,800.00	90.00	179.97	11,393.00	-6,774.60	707.03	6,774.97	0.00	0.00	0.00
	17,900.00	90.00	179.97	11,393.00	-6,874.60	707.07	6,874.97	0.00	0.00	0.00
	18,000.00	90.00	179.97	11,393.00	-6,974.60	707.12	6,974.97	0.00	0.00	0.00
	18,100.00	90.00	179.97	11,393.00	-7,074.60	707.17	7,074.97	0.00	0.00	0.00
	18,200.00	90.00	179.97	11,393.00	-7,174.60	707.22	7,174.97	0.00	0.00	0.00
	18,300.00	90.00	179.97	11,393.00	-7,274.60	707.27	7,274.97	0.00	0.00	0.00
	18,400.00	90.00	179.97	11,393.00	-7,374.60	707.32	7,374.97	0.00	0.00	0.00
	18,500.00	90.00	179.97	11,393.00	-7,474.60	707.36	7,474.97	0.00	0.00	0.00
	18,600.00	90.00	179.97	11,393.00	-7,574.60	707.41	7,574.97	0.00	0.00	0.00
	18,700.00	90.00	179.97	11,393.00	-7,674.60	707.46	7,674.97	0.00	0.00	0.00
	18,800.00	90.00	179.97	11,393.00	-7,774.60	707.51	7,774.97	0.00	0.00	0.00
	18,900.00	90.00	179.97	11,393.00	-7,874.60	707.56	7,874.97	0.00	0.00	0.00
	19,000.00	90.00	179.97	11,393.00	-7,974.60	707.61	7,974.97	0.00	0.00	0.00
	19,065.40	90.00	179.97	11,393.00	-8,040.00	707.64	8,040.37	0.00	0.00	0.00
	19,100.00	90.00	179.97	11,393.00	-8,074.60	707.65	8,074.97	0.00	0.00	0.00
	19,195.40	90.00	179.97	11,393.00	-8,170.00	707.70	8,170.37	0.00	0.00	0.00

Design Targets						and the second secon I second secon Second second			
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU27BD #128H: SH - plan hits target co - Point	0.00 enter	0.00	0.00	0.00	0.00	401,179.20	645,552.80	32.1020855	-103.8632809
PLU27BD #128H: PB - plan hits target ca - Point	0.00 enter	0.00	11,393.00	-8,170.00	707.70	393,009:20	646,260.50	32.0796180	-103.8611110
PLU27BD #128H: FTI - plan hits target ca - Point	0.00 enter	0.00	11,393.00	-725.90	704.10	400,453.30	646,256.90	32.1000816	-103.8610174
PLU27BD #128H: LTF - plan misses targe - Point	0.00 et center by		11,393.00 19065.40u	-8,040.00 sft MD (1139	707.60 3.00 TVD, -80	393,139.20 040.00 N, 707.64	646,260.40 4 E)	32.0799754	-103.8611095



Design:	PERMIT		
Wellbore:	OH		
Well:	#128H	Survey Calculation Method:	Minimum Curvature
Site:	PLU 27 Brushy Draw	North Reference:	Grid
Project:	Eddy County, NM (NAD-27)	MD Reference:	Ref GL @ 3293.00usft
Company:	XTO Energy	TVD Reference:	Ref GL @ 3293.00usft
Database:	EDM 5000.1.13 Single User Db	Local Co-ordinate Reference:	Well #128H

					P		
	Measured Depth (usft)	Vertical Depth (usft)	Name		Lithology	Dip Dip Direction (°) (°)	9 8 2
	1,043.00	1,043.00	Rustler	•			
	1,293.00	1,293.00	Top Salt				
	3,669.91	3,668.00	Base Salt				
	3,895.77	3,893.00	Delaware				
	7,660.07	7,643.00	Bone Spring				
	8,663.88	8,643.00	1st Bone Spring Ss				
	9,441.84	9,418.00	2nd Bone Spring Ss*				
	9,868.46	9,843.00	3rd Bone Spring Lm				
	10,646.41	10,618.00	3rd Bone Spring Ss				
	11,014.99	10,983.00	Wolfcamp				
	11,084.39	11,048.00	Wolfcamp Y			,	
	11,217.94	11,163.00	Wolfcamp A				
	11,751.30	11,393.00	LP				

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

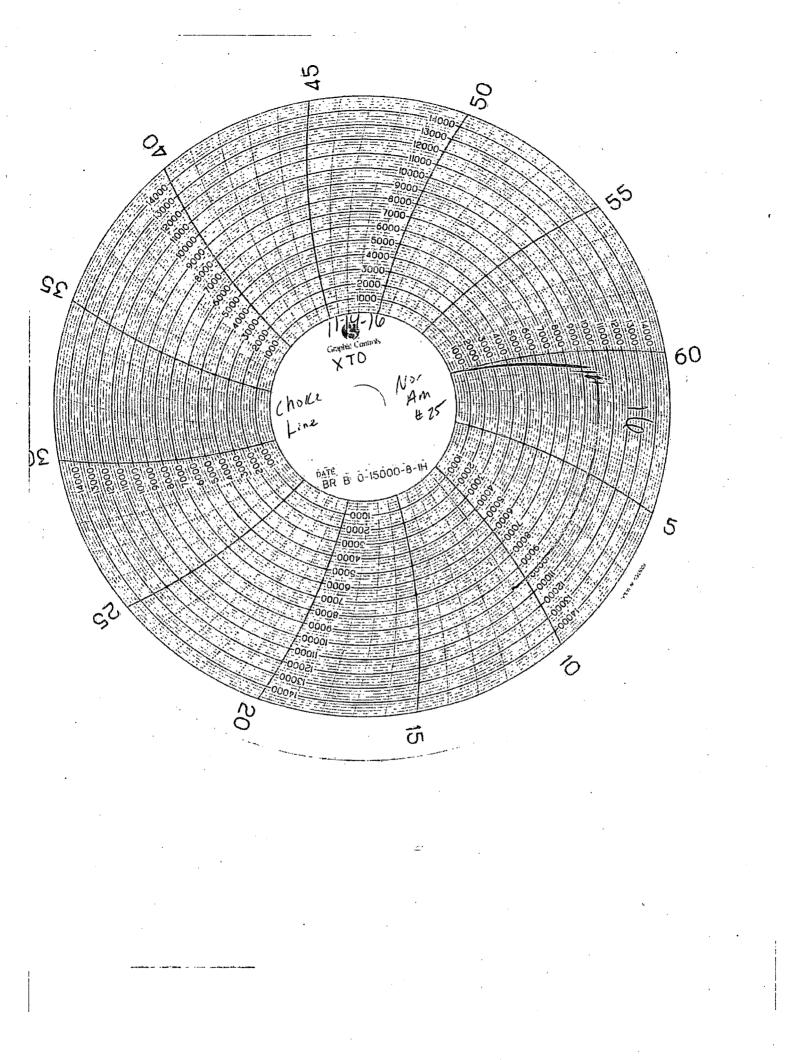
GRADE D PRESSURE TEST CERTIFICATE

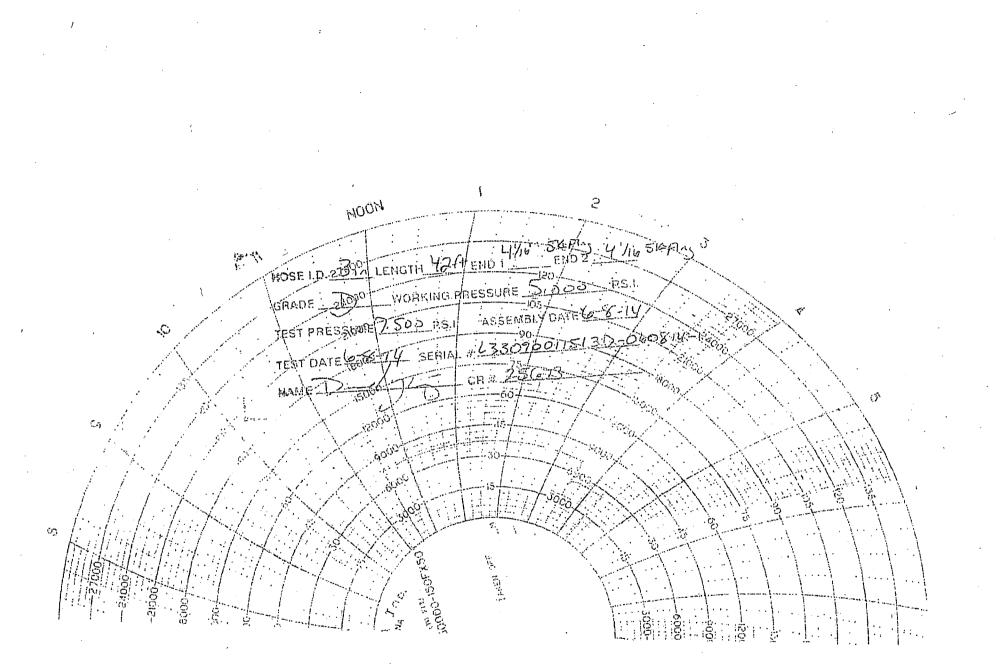
Customer :	AUSTIN DISTRIBUTING	Test Date:	649200	
Customer Ref. :	PENDING	Hose Serial No.:	6/8/2014	
nvoice No. :	201709		D-060814-1 NORI-1A	
		Croated By:		
Product Description:		FD3.042.0R41/16.5KFLGE/	LE	
		FD3.042.0R41/16.5KFLGE/	LE	
nd Fitting 1 :	4 1/16 in 5K FLG	FD3.042.0R41/16.5KFLGE/E		
Product Description:	4 1/16 in.5K FLG 4774-6001 5,000 PSI		LE 4 1/16 in.5K FLG L33090011513D-060814-1	

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.

	 pressure pr	
Quality: Rate : Signature :	Technical Supervisor : Date : Signature :	PRODUCTION 5/8/2014

Form PTC - 01 Rev.0 2





FAFMSS

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

SUPO Data Report

08/23/2019

APD ID: 10400041925

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 27 BD

Well Type: CONVENTIONAL GAS WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

PLU_27_BD_128H_Road_20190516125251.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

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_27_BD_Road_20190404120732.pdf

New road type: RESOURCE

Length: 4851.13

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

Feet

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:

Submission Date: 05/17/2019

Row(s) Exist? YES

Well Number: 128H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Access road engineering design? NO

Access road engineering design attachment:

Turnout? N

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 27 BD 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 right (Southwest) on Rock Dove Road and go approximately 1.2 miles. Turn left (South) on lease road and go approximately 1.4 miles. Turn right (west) on Hedgehog road and go approximately 0.3 miles arriving at the proposed road. Location is to the Northwest. 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 27 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):

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

PLU_27_BD_1_Mile_20190404120925.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: One 900'x900' pad was staked with the BLM for construction and use as Central Tank Battery (CTB), which will be known as the PLU 27 BD CTB. The pad is located in Sec. 27-T25S-R30E, Eddy County, NM. A plat of the proposed facility is attached. Only the area necessary to maintain facilities will be disturbed. Due to air permitting timeframes and anticipated reserves, a facility of this size was necessary for full area development. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment. In the event the wells are found productive, 20-8" composite flexpipe or steel flowlines with a maximum safety pressure rating of 1400psi (operating pressure: 750 psi) will be buried within proposed lease road corridors from the proposed wells to the PLU 27 BD CTB where the oil, gas, and water will be metered and separated. If XTO Permian Operating, LLC decides to run surface lines, 20-4" or less flexpipe or steel flowlines with a max. safety psi rating of 750 (op. psi: 125psi) will be laid within proposed lease road corridors from the proposed wells to the proposed CTBs. An additional 20-22" or less high pressure gas lines will be buried within the proposed lease road corridor with the flowlines for gas lift, fuel gas, and water. The distance of proposed flowlines per well will be approximately 4790.80' or less per well based on the location of the well pad in conjunction with the facility location. All flowlines will follow proposed lease road corridors. A gas and oil purchaser has been identified. One 110' corridor is requested to connect with the Poker Lake Unit Row 5 pipeline extending from the PLU 27 CTB. XTO 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 27 BD GSL Approx. Length: 2401.23'. 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 1 flare associated with the Poker Lake Unit 27 Brushy Draw project. The flare stack will be 50'x50', located on the 900'x900' proposed PLU 27 BD CTB, and 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. 5,075.96' 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_27_BD_GS_20190404121041.pdf PLU_27_BD_OHE_20190404121102.pdf PLU_27_BD_CTB_20190404121014.pdf PLU_27_BD_FL_20190404121026.pdf

Well Name: POKER LAKE UNIT 27 BD

Well Number: 128H

Water Source Table	
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type: Fresh Water; in Section 6, T25S-R29E	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT, PRIVATE CONTRACT, PRIVATE CONTRACT Source land ownership: FEDERAL	
Water source transport method: TRUCKING,TRUCKING,TRUCKIN	G
Source transportation land ownership: FEDERAL	· · · · · · · · · · · · · · · · · · ·
Water source volume (barrels): 335000	Source volume (acre-feet): 43.179188
Source volume (gal): 14070000	
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type: Fresh Water; Section 27, T25S-R30E	Water source type: OTHER
Source latitude:	Source longitude:
Source datum:	
Water source permit type: PRIVATE CONTRACT, PRIVATE CONTRACT, PRIVATE CONTRACT, PRIVATE CONTRACT Source land ownership: FEDERAL	· · · · · · · · · · · · · · · · · · ·
Water source transport method: TRUCKING,TRUCKING,TRUCKING,TRUCKING Source transportation land ownership: FEDERAL	
Water source volume (barrels): 335000	Source volume (acre-feet): 43.179188
Source volume (gal): 14070000	·
ater source and transportation map:	
U_27_BD_128H_Wtr_20190516125315.pdf	
ater source comments: The well will be drilled using a combination of ogram. The water will be obtained from a 3rd party vendor and hauled ing the existing and proposed roads depicted in the attached exhibits. I illing, completion and dust control will be purchased from the following or lling, completion and dust control will be supplied by Texas Pacific Wat 5S-R30E, Eddy County, New Mexico. In the event that Texas Pacific V atter for XTO at time of drilling and completion, then XTO water will com water being in Section 6, T25S-R29E, Eddy County, New Mexico. An timated 35,000 barrels of water to drill a horizontal well in a combinatio	to the anticipated pit in Section 7 by transport truck No water well will be drilled on the location. Water fo company: Texas Pacific Water Resources Water fo ter Resources for sale to XTO. from Section 27, Vater Resources does not have the appropriate e from Intrepid Potash Company with the location of ticipated water usage for drilling includes an

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

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