

**PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL**

HOBBS OCD

MAY 23 2018

OPERATOR'S NAME:	XTO Energy	RECEIVED
LEASE NO.:	NMNM-016353	
WELL NAME & NO.:	Outrider Federal 1H	
SURFACE HOLE FOOTAGE:	0274' FSL & 0660' FWL	
BOTTOM HOLE FOOTAGE:	0200' FNL & 0660' FWL Sec. 21, T. 24 S., R 32 E.	
LOCATION:	Section 28, T. 24 S., R 32 E., NMPM	
COUNTY:	County, New Mexico	

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)

Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 3933612

A. Hydrogen Sulfide

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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

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

Wait on cement (WOC) for Water Basin:

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

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

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

Possibility of water flows in the Salado and Castile.

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

1. The **13-3/8** inch surface casing shall be set at approximately **1100** feet (**in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt**) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

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

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

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

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

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

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

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.
 - a. **For surface casing only:** If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
4. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- 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.

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

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

JAM 051618

**PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	XTO ENERGY INC.
LEASE NO.:	NMNM016353
WELL NAME & NO.:	1H -OUTRIDER FEDERAL
SURFACE HOLE FOOTAGE:	274'/S & 660'/W
BOTTOM HOLE FOOTAGE	200'/N & 660'/W
LOCATION:	Section 28., T24S., R.32E., NMP
COUNTY:	LEA 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.

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I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. SPECIAL REQUIREMENT(S)

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

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

Ground-level Abandoned Well Marker to avoid raptor perching:

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

Watershed/Water Quality:

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

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

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

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

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

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

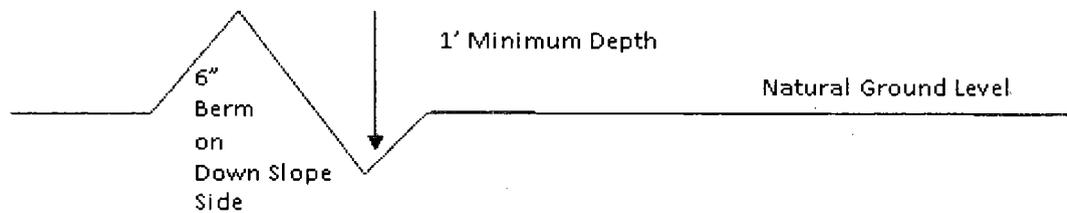
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Livestock Watering Requirement

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

Public Access

Public access on this road shall not be restricted by the operator without specific written

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

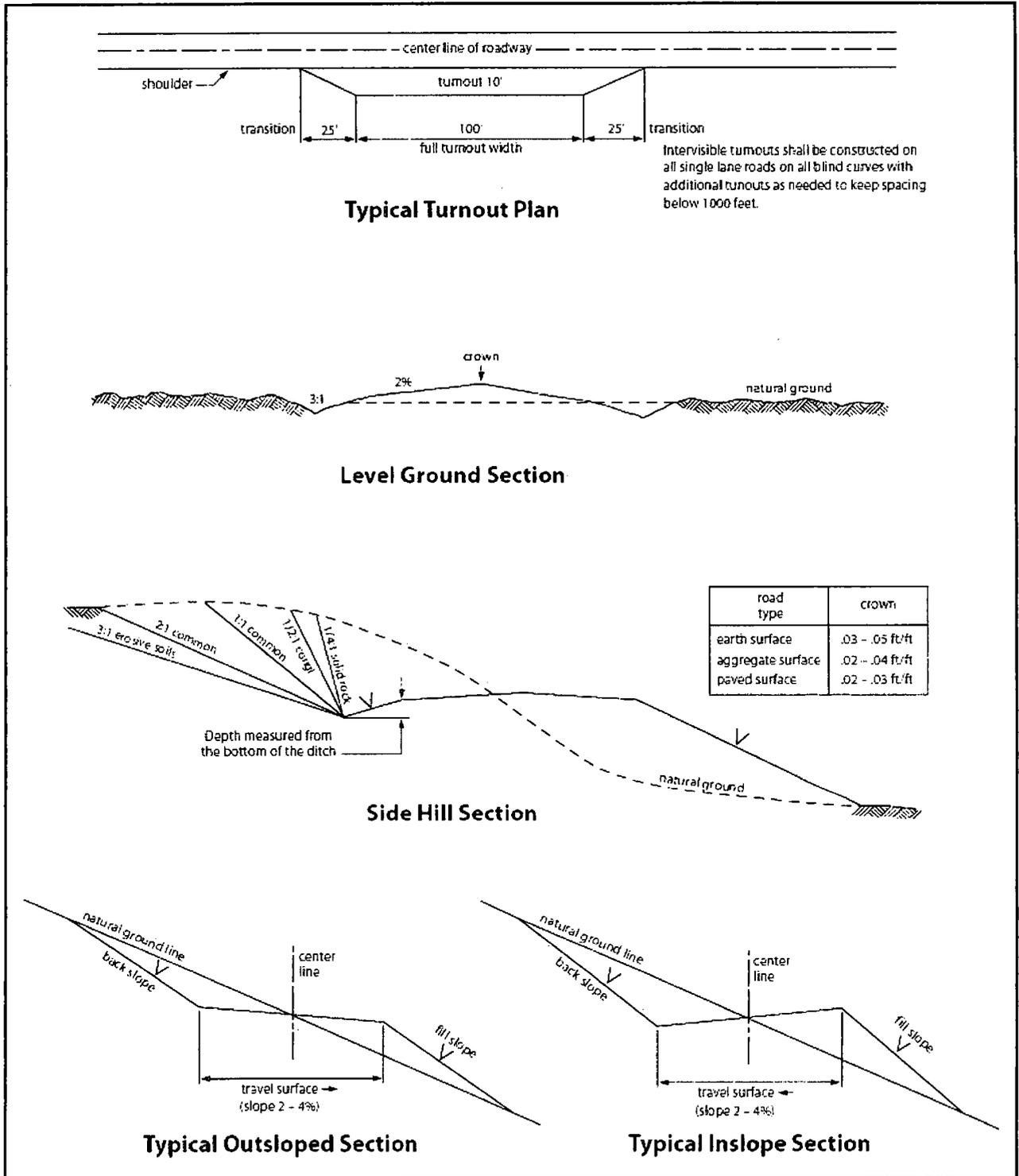


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads. approval granted by the Authorized Officer.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

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

Exclosure Netting (Open-top Tanks)

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

Chemical and Fuel Secondary Containment and Exclosure Screening

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

Open-Vent Exhaust Stack Exclosures

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

Containment Structures

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

Painting Requirement

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

VRM

There are no mitigation measures for this project as currently proposed.

B. PIPELINES

BURIED PIPELINE STIPULATIONS

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

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

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

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

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 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 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 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)

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

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

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

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

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

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

- | | |
|--|--|
| <input type="checkbox"/> seed mixture 1 | <input type="checkbox"/> seed mixture 3 |
| <input type="checkbox"/> seed mixture 2 | <input type="checkbox"/> seed mixture 4 |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> 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 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. Escape Ramps - 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.

19. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping; which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

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

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

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

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

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42

U.S.C. 9601, 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.

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

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

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

11. Special Stipulations:

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

VIII. INTERIM RECLAMATION

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

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

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

loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

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

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

IX. FINAL ABANDONMENT & RECLAMATION

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

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

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

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

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

Seed Mixture for LPC Sand/Shinnery Sites

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

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

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

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

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



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 NMOC 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 = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

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

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

XTO Energy, Inc. PERSONNEL:

Kendall Decker, Drilling Manager	903-521-6477
Milton Turman, Drilling Superintendent	817-524-5107
Jeff Raines, Construction Foreman	432-557-3159
Toady Sanders, EH & S Manager	903-520-1601
Wes McSpadden, Production Foreman	575-441-1147

SHERIFF DEPARTMENTS:

Eddy County	575-887-7551
Lea County	575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

Carlsbad	911
Eunice	575-885-2111
Hobbs	575-394-2111
Jal	575-397-9308
Lovington	575-395-2221
	575-396-2359

HOSPITALS:

Carlsbad Medical Emergency	911
Eunice Medical Emergency	575-885-2111
Hobbs Medical Emergency	575-394-2112
Jal Medical Emergency	575-397-9308
Lovington Medical Emergency	575-395-2221
	575-396-2359

AGENT NOTIFICATIONS:

For Lea County:

Bureau of Land Management – Hobbs	575-393-3612
New Mexico Oil Conservation Division – Hobbs	575-393-6161

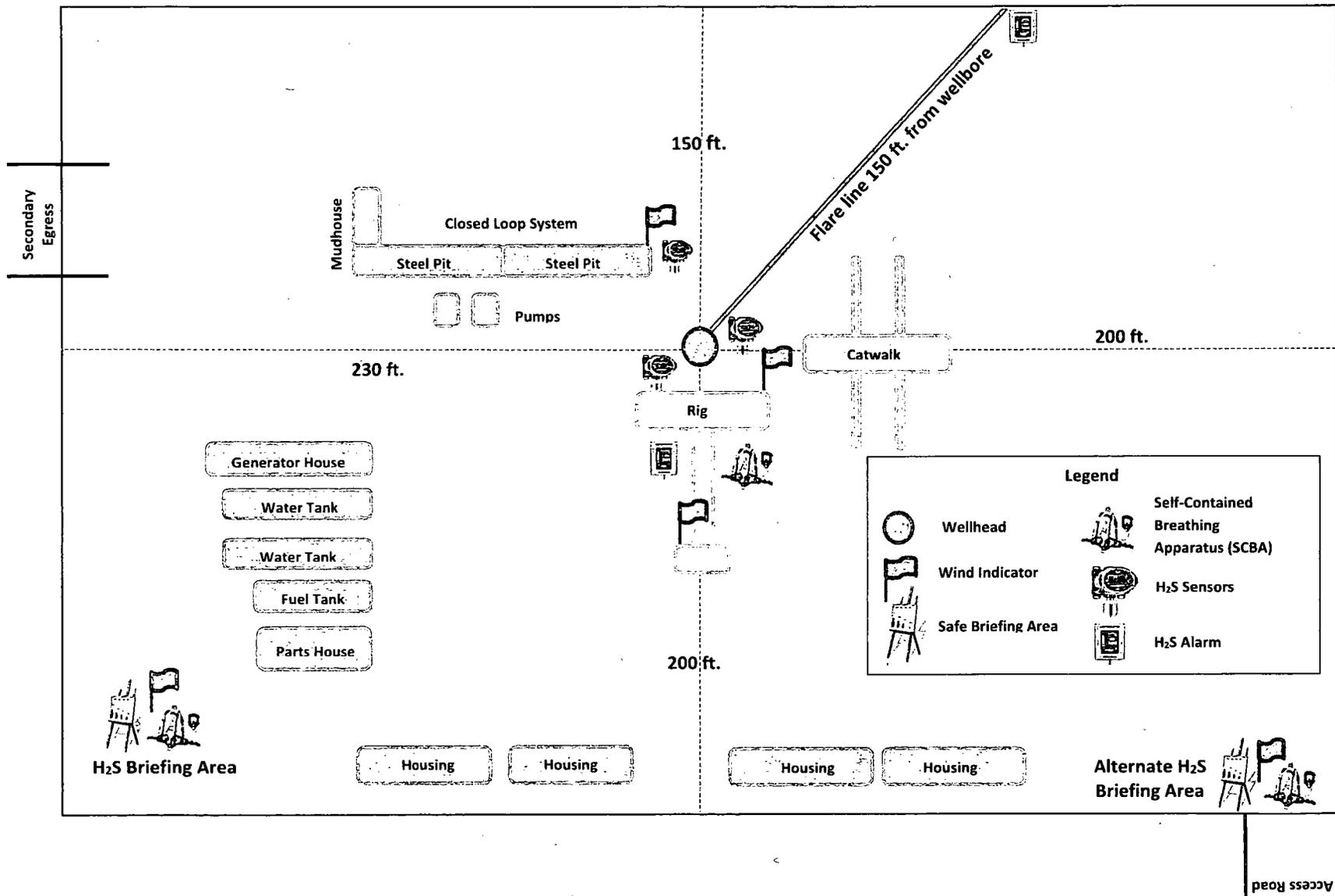
For Eddy County:

Bureau of Land Management - Carlsbad	575-234-5972
New Mexico Oil Conservation Division - Artesia	575-748-1283



↗
Prevailing Winds
Direction SW

H2S Briefing Areas and Alarm Locations





XTO ENERGY, INC.

**Lea County, NM
Outrider Federal 1H
Outrider Federal 1H**

Wellbore #1

Plan: Design #1

QES Well Planning Report

31 January, 2017





Well Planning Report



Database:	EDM5002	Local Co-ordinate Reference:	Well Outrider Federal 1H
Company:	XTO ENERGY, INC.	TVD Reference:	RKB @ 3541.0usft (Scan Producer)
Project:	Lea County, NM	MD Reference:	RKB @ 3541.0usft (Scan Producer)
Site:	Outrider Federal 1H	North Reference:	Grid
Well:	Outrider Federal 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	Outrider Federal 1H				
Site Position:		Northing:	430,480.30 usft	Latitude:	32° 10' 54.655 N
From:	Map	Easting:	700,416.30 usft	Longitude:	103° 41' 7.952 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.35 °

Well:	Outrider Federal 1H					
Well Position	+N/-S	0.0 usft	Northing:	430,480.30 usft	Latitude:	32° 10' 54.655 N
	+E/-W	0.0 usft	Easting:	700,416.30 usft	Longitude:	103° 41' 7.952 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft	Ground Level:	3,514.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/27/2017	7.04	60.01	47,931

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.56

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,156.0	0.00	0.00	10,156.0	0.0	0.0	0.00	0.00	0.00	0.00	
11,056.0	90.00	359.56	10,729.0	572.9	-4.4	10.00	10.00	0.00	359.56	
20,574.4	90.00	359.56	10,729.0	10,091.0	-76.8	0.00	0.00	0.00	0.00	0.00 PBHL Outrider Fed.



Well Planning Report



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 Company: XTO ENERGY, INC.
 Project: Lea County, NM
 Site: Outrider Federal 1H
 Well: Outrider Federal 1H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Outrider Federal 1H
 TVD Reference: RKB @ 3541.0usft (Scan Producer)
 MD Reference: RKB @ 3541.0usft (Scan Producer)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler									
825.0	0.00	0.00	825.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
1,130.0	0.00	0.00	1,130.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Salt									
4,468.0	0.00	0.00	4,468.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00



Well Planning Report



Database: EDM5002
 Company: XTO ENERGY, INC.
 Project: Lea County, NM
 Site: Outrider Federal 1H
 Well: Outrider Federal 1H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Outrider Federal 1H
 TVD Reference: RKB @ 3541.0usft (Scan Producer)
 MD Reference: RKB @ 3541.0usft (Scan Producer)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Delaware									
4,695.0	0.00	0.00	4,695.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Cherry Canyon									
5,597.0	0.00	0.00	5,597.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Brushy Canyon									
7,150.0	0.00	0.00	7,150.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Basal Brushy Canyon									
8,332.0	0.00	0.00	8,332.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Bone Spring									
8,571.0	0.00	0.00	8,571.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00



Well Planning Report



Database: EDM5002
 Company: XTO ENERGY, INC.
 Project: Lea County, NM
 Site: Outrider Federal 1H
 Well: Outrider Federal 1H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Outrider Federal 1H
 TVD Reference: RKB @ 3541.0usft (Scan Producer)
 MD Reference: RKB @ 3541.0usft (Scan Producer)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1st Bone Spring Ss										
9,682.0	0.00	0.00	9,682.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
Build 10.00°/100'										
10,156.0	0.00	0.00	10,156.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,200.0	4.40	359.56	10,200.0	1.7	0.0	1.7	10.00	10.00	0.00	
10,250.0	9.40	359.56	10,249.6	7.7	-0.1	7.7	10.00	10.00	0.00	
2nd Bone Spring Ss										
10,299.5	14.35	359.56	10,298.0	17.9	-0.1	17.9	10.00	10.00	0.00	
10,300.0	14.40	359.56	10,298.5	18.0	-0.1	18.0	10.00	10.00	0.00	
10,350.0	19.40	359.56	10,346.3	32.5	-0.2	32.5	10.00	10.00	0.00	
10,400.0	24.40	359.56	10,392.7	51.2	-0.4	51.2	10.00	10.00	0.00	
10,450.0	29.40	359.56	10,437.3	73.8	-0.6	73.8	10.00	10.00	0.00	
2nd Bone Spring "T/B"										
10,497.9	34.19	359.56	10,478.0	99.0	-0.8	99.0	10.00	10.00	0.00	
10,500.0	34.40	359.56	10,479.7	100.2	-0.8	100.2	10.00	10.00	0.00	
10,550.0	39.40	359.56	10,519.7	130.2	-1.0	130.2	10.00	10.00	0.00	
10,600.0	44.40	359.56	10,556.9	163.6	-1.2	163.6	10.00	10.00	0.00	
2nd Bone Spring "B1"										
10,642.3	48.63	359.56	10,586.0	194.2	-1.5	194.3	10.00	10.00	0.00	
10,650.0	49.40	359.56	10,591.0	200.1	-1.5	200.1	10.00	10.00	0.00	
10,700.0	54.40	359.56	10,621.9	239.4	-1.8	239.4	10.00	10.00	0.00	
10,750.0	59.40	359.56	10,649.2	281.3	-2.1	281.3	10.00	10.00	0.00	
10,800.0	64.40	359.56	10,672.7	325.3	-2.5	325.4	10.00	10.00	0.00	
2nd Bone Spring "C"										
10,832.7	67.66	359.56	10,686.0	355.2	-2.7	355.2	10.00	10.00	0.00	
10,850.0	69.40	359.56	10,692.3	371.3	-2.8	371.3	10.00	10.00	0.00	
10,900.0	74.40	359.56	10,707.9	418.8	-3.2	418.8	10.00	10.00	0.00	
10,950.0	79.40	359.56	10,719.2	467.5	-3.6	467.5	10.00	10.00	0.00	
11,000.0	84.40	359.56	10,726.3	517.0	-3.9	517.0	10.00	10.00	0.00	
11,050.0	89.40	359.56	10,729.0	566.9	-4.3	566.9	10.00	10.00	0.00	
EOC @ 90.00° Inc / 359.56° Azm / 10729.0' TVD										
11,056.0	90.00	359.56	10,729.0	572.9	-4.4	573.0	10.00	10.00	0.00	
11,100.0	90.00	359.56	10,729.0	616.9	-4.7	616.9	0.00	0.00	0.00	
11,200.0	90.00	359.56	10,729.0	716.9	-5.5	716.9	0.00	0.00	0.00	
11,300.0	90.00	359.56	10,729.0	816.9	-6.2	816.9	0.00	0.00	0.00	
11,400.0	90.00	359.56	10,729.0	916.9	-7.0	916.9	0.00	0.00	0.00	
11,500.0	90.00	359.56	10,729.0	1,016.9	-7.7	1,016.9	0.00	0.00	0.00	
11,600.0	90.00	359.56	10,729.0	1,116.9	-8.5	1,116.9	0.00	0.00	0.00	
11,700.0	90.00	359.56	10,729.0	1,216.9	-9.3	1,216.9	0.00	0.00	0.00	
11,800.0	90.00	359.56	10,729.0	1,316.9	-10.0	1,316.9	0.00	0.00	0.00	
11,900.0	90.00	359.56	10,729.0	1,416.9	-10.8	1,416.9	0.00	0.00	0.00	
12,000.0	90.00	359.56	10,729.0	1,516.9	-11.5	1,516.9	0.00	0.00	0.00	



Well Planning Report



Database: EDM5002
 Company: XTO ENERGY, INC.
 Project: Lea County, NM
 Site: Outrider Federal 1H
 Well: Outrider Federal 1H
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Outrider Federal 1H
 TVD Reference: RKB @ 3541.0usft (Scan Producer)
 MD Reference: RKB @ 3541.0usft (Scan Producer)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,100.0	90.00	359.56	10,729.0	1,616.9	-12.3	1,616.9	0.00	0.00	0.00
12,200.0	90.00	359.56	10,729.0	1,716.9	-13.1	1,716.9	0.00	0.00	0.00
12,300.0	90.00	359.56	10,729.0	1,816.9	-13.8	1,816.9	0.00	0.00	0.00
12,400.0	90.00	359.56	10,729.0	1,916.9	-14.6	1,916.9	0.00	0.00	0.00
12,500.0	90.00	359.56	10,729.0	2,016.9	-15.3	2,016.9	0.00	0.00	0.00
12,600.0	90.00	359.56	10,729.0	2,116.9	-16.1	2,116.9	0.00	0.00	0.00
12,700.0	90.00	359.56	10,729.0	2,216.9	-16.9	2,216.9	0.00	0.00	0.00
12,800.0	90.00	359.56	10,729.0	2,316.8	-17.6	2,316.9	0.00	0.00	0.00
12,900.0	90.00	359.56	10,729.0	2,416.8	-18.4	2,416.9	0.00	0.00	0.00
13,000.0	90.00	359.56	10,729.0	2,516.8	-19.2	2,516.9	0.00	0.00	0.00
13,100.0	90.00	359.56	10,729.0	2,616.8	-19.9	2,616.9	0.00	0.00	0.00
13,200.0	90.00	359.56	10,729.0	2,716.8	-20.7	2,716.9	0.00	0.00	0.00
13,300.0	90.00	359.56	10,729.0	2,816.8	-21.4	2,816.9	0.00	0.00	0.00
13,400.0	90.00	359.56	10,729.0	2,916.8	-22.2	2,916.9	0.00	0.00	0.00
13,500.0	90.00	359.56	10,729.0	3,016.8	-23.0	3,016.9	0.00	0.00	0.00
13,600.0	90.00	359.56	10,729.0	3,116.8	-23.7	3,116.9	0.00	0.00	0.00
13,700.0	90.00	359.56	10,729.0	3,216.8	-24.5	3,216.9	0.00	0.00	0.00
13,800.0	90.00	359.56	10,729.0	3,316.8	-25.2	3,316.9	0.00	0.00	0.00
13,900.0	90.00	359.56	10,729.0	3,416.8	-26.0	3,416.9	0.00	0.00	0.00
14,000.0	90.00	359.56	10,729.0	3,516.8	-26.8	3,516.9	0.00	0.00	0.00
14,100.0	90.00	359.56	10,729.0	3,616.8	-27.5	3,616.9	0.00	0.00	0.00
14,200.0	90.00	359.56	10,729.0	3,716.8	-28.3	3,716.9	0.00	0.00	0.00
14,300.0	90.00	359.56	10,729.0	3,816.8	-29.0	3,816.9	0.00	0.00	0.00
14,400.0	90.00	359.56	10,729.0	3,916.8	-29.8	3,916.9	0.00	0.00	0.00
14,500.0	90.00	359.56	10,729.0	4,016.8	-30.6	4,016.9	0.00	0.00	0.00
14,600.0	90.00	359.56	10,729.0	4,116.8	-31.3	4,116.9	0.00	0.00	0.00
14,700.0	90.00	359.56	10,729.0	4,216.8	-32.1	4,216.9	0.00	0.00	0.00
14,800.0	90.00	359.56	10,729.0	4,316.8	-32.9	4,316.9	0.00	0.00	0.00
14,900.0	90.00	359.56	10,729.0	4,416.8	-33.6	4,416.9	0.00	0.00	0.00
15,000.0	90.00	359.56	10,729.0	4,516.8	-34.4	4,516.9	0.00	0.00	0.00
15,100.0	90.00	359.56	10,729.0	4,616.8	-35.1	4,616.9	0.00	0.00	0.00
15,200.0	90.00	359.56	10,729.0	4,716.8	-35.9	4,716.9	0.00	0.00	0.00
15,300.0	90.00	359.56	10,729.0	4,816.8	-36.7	4,816.9	0.00	0.00	0.00
15,400.0	90.00	359.56	10,729.0	4,916.8	-37.4	4,916.9	0.00	0.00	0.00
15,500.0	90.00	359.56	10,729.0	5,016.8	-38.2	5,016.9	0.00	0.00	0.00
15,600.0	90.00	359.56	10,729.0	5,116.8	-38.9	5,116.9	0.00	0.00	0.00
15,700.0	90.00	359.56	10,729.0	5,216.8	-39.7	5,216.9	0.00	0.00	0.00
15,800.0	90.00	359.56	10,729.0	5,316.8	-40.5	5,316.9	0.00	0.00	0.00
15,900.0	90.00	359.56	10,729.0	5,416.8	-41.2	5,416.9	0.00	0.00	0.00
16,000.0	90.00	359.56	10,729.0	5,516.8	-42.0	5,516.9	0.00	0.00	0.00
16,100.0	90.00	359.56	10,729.0	5,616.8	-42.7	5,616.9	0.00	0.00	0.00
16,200.0	90.00	359.56	10,729.0	5,716.7	-43.5	5,716.9	0.00	0.00	0.00
16,300.0	90.00	359.56	10,729.0	5,816.7	-44.3	5,816.9	0.00	0.00	0.00
16,400.0	90.00	359.56	10,729.0	5,916.7	-45.0	5,916.9	0.00	0.00	0.00
16,500.0	90.00	359.56	10,729.0	6,016.7	-45.8	6,016.9	0.00	0.00	0.00
16,600.0	90.00	359.56	10,729.0	6,116.7	-46.6	6,116.9	0.00	0.00	0.00
16,700.0	90.00	359.56	10,729.0	6,216.7	-47.3	6,216.9	0.00	0.00	0.00
16,800.0	90.00	359.56	10,729.0	6,316.7	-48.1	6,316.9	0.00	0.00	0.00
16,900.0	90.00	359.56	10,729.0	6,416.7	-48.8	6,416.9	0.00	0.00	0.00
17,000.0	90.00	359.56	10,729.0	6,516.7	-49.6	6,516.9	0.00	0.00	0.00
17,100.0	90.00	359.56	10,729.0	6,616.7	-50.4	6,616.9	0.00	0.00	0.00
17,200.0	90.00	359.56	10,729.0	6,716.7	-51.1	6,716.9	0.00	0.00	0.00
17,300.0	90.00	359.56	10,729.0	6,816.7	-51.9	6,816.9	0.00	0.00	0.00
17,400.0	90.00	359.56	10,729.0	6,916.7	-52.6	6,916.9	0.00	0.00	0.00



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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)
17,500.0	90.00	359.56	10,729.0	7,016.7	-53.4	7,016.9	0.00	0.00	0.00
17,600.0	90.00	359.56	10,729.0	7,116.7	-54.2	7,116.9	0.00	0.00	0.00
17,700.0	90.00	359.56	10,729.0	7,216.7	-54.9	7,216.9	0.00	0.00	0.00
17,800.0	90.00	359.56	10,729.0	7,316.7	-55.7	7,316.9	0.00	0.00	0.00
17,900.0	90.00	359.56	10,729.0	7,416.7	-56.4	7,416.9	0.00	0.00	0.00
18,000.0	90.00	359.56	10,729.0	7,516.7	-57.2	7,516.9	0.00	0.00	0.00
18,100.0	90.00	359.56	10,729.0	7,616.7	-58.0	7,616.9	0.00	0.00	0.00
18,200.0	90.00	359.56	10,729.0	7,716.7	-58.7	7,716.9	0.00	0.00	0.00
18,300.0	90.00	359.56	10,729.0	7,816.7	-59.5	7,816.9	0.00	0.00	0.00
18,400.0	90.00	359.56	10,729.0	7,916.7	-60.3	7,916.9	0.00	0.00	0.00
18,500.0	90.00	359.56	10,729.0	8,016.7	-61.0	8,016.9	0.00	0.00	0.00
18,600.0	90.00	359.56	10,729.0	8,116.7	-61.8	8,116.9	0.00	0.00	0.00
18,700.0	90.00	359.56	10,729.0	8,216.7	-62.5	8,216.9	0.00	0.00	0.00
18,800.0	90.00	359.56	10,729.0	8,316.7	-63.3	8,316.9	0.00	0.00	0.00
18,900.0	90.00	359.56	10,729.0	8,416.7	-64.1	8,416.9	0.00	0.00	0.00
19,000.0	90.00	359.56	10,729.0	8,516.7	-64.8	8,516.9	0.00	0.00	0.00
19,100.0	90.00	359.56	10,729.0	8,616.7	-65.6	8,616.9	0.00	0.00	0.00
19,200.0	90.00	359.56	10,729.0	8,716.7	-66.3	8,716.9	0.00	0.00	0.00
19,300.0	90.00	359.56	10,729.0	8,816.7	-67.1	8,816.9	0.00	0.00	0.00
19,400.0	90.00	359.56	10,729.0	8,916.7	-67.9	8,916.9	0.00	0.00	0.00
19,500.0	90.00	359.56	10,729.0	9,016.7	-68.6	9,016.9	0.00	0.00	0.00
19,600.0	90.00	359.56	10,729.0	9,116.7	-69.4	9,116.9	0.00	0.00	0.00
19,700.0	90.00	359.56	10,729.0	9,216.6	-70.1	9,216.9	0.00	0.00	0.00
19,800.0	90.00	359.56	10,729.0	9,316.6	-70.9	9,316.9	0.00	0.00	0.00
19,900.0	90.00	359.56	10,729.0	9,416.6	-71.7	9,416.9	0.00	0.00	0.00
20,000.0	90.00	359.56	10,729.0	9,516.6	-72.4	9,516.9	0.00	0.00	0.00
20,100.0	90.00	359.56	10,729.0	9,616.6	-73.2	9,616.9	0.00	0.00	0.00
20,200.0	90.00	359.56	10,729.0	9,716.6	-74.0	9,716.9	0.00	0.00	0.00
20,300.0	90.00	359.56	10,729.0	9,816.6	-74.7	9,816.9	0.00	0.00	0.00
20,400.0	90.00	359.56	10,729.0	9,916.6	-75.5	9,916.9	0.00	0.00	0.00
20,500.0	90.00	359.56	10,729.0	10,016.6	-76.2	10,016.9	0.00	0.00	0.00
TD @ 20574.4' MD, 10729.0' TVD									
20,574.4	90.00	359.56	10,729.0	10,091.0	-76.8	10,091.3	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TP2 Outrider Federal - hit/miss target - plan hits target center - Shape - Point	0.00	0.01	10,729.0	9,961.0	-75.8	440,441.30	700,340.50	32° 12' 33.231 N	103° 41' 8.136 W
TP1 Outrider Federal - plan hits target center - Point	0.00	0.00	10,729.0	599.8	-4.6	431,080.10	700,411.70	32° 11' 0.590 N	103° 41' 7.964 W
PBHL Outrider Federal - plan hits target center - Point	0.00	0.00	10,729.0	10,091.0	-76.8	440,571.30	700,339.50	32° 12' 34.518 N	103° 41' 8.139 W

SURFACE USE PLAN

XTO Energy, Inc.
Outrider Federal #1H
Lea County, NM

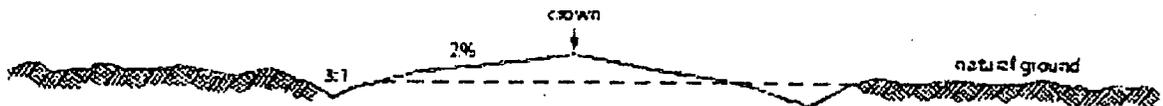
This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures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

1. EXISTING ROADS:

- a. DIRECTIONS: From the intersection of Hwy 128 and Co Rd. J1 (Orla Rd), go South on Co. Rd. J1 approximately 2.3 miles. Turn right and go west approximately .9 miles to the proposed access road. Follow staked road North 52.8' to the Southeast corner of this location.
- b. See attached plats and maps provided by John West Surveying Company.
- c. The access route from Co. Road J1 (Orla Rd) to the well location is depicted on the Topographic & Access Road map provided by John West Surveying Company. The route highlighted in red will be the access and no ROW is required for this well.
- d. The existing 2-track road access route will be improved and maintained to the standard set forth in Section 2 of this Surface Use Plan of Operations.

2. NEW OR RECONSTRUCTED ACCESS ROADS:

- a. 52.8 of new road will be required to access the location. Below regards any upgrading of the existing caliche road system to the proposed well location.
- b. The maximum width of the driving surface will be 14 feet. The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.



Level Ground Section

- c. Surface material will be native caliche. The average grade of the entire road will be approximately 3%.
- d. Fence Cuts: No.
- e. Cattle Guards: No
- f. Turnouts: No
- g. Culverts: No
- h. Cuts and Fills: Not significant
- i. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be

spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.

- j. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
- k. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. LOCATION OF EXISTING WELLS:

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

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- a. No additional production facility (CTB) is required. An existing CTB was approved and built under the Outrider Federal #6H APD located at the North end of Section 28-T24S-R32E. See attached plat for additional details. CTB was staked with Trish Bad Bear, Natural Resource Specialist, and approved by Bob Ballard.
- b. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted to BLM specifications.
- c. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.
- d. Flowlines: 2 lines no more than 6756' will be run across the approved well pad, headed West, then North following existing disturbance to the CTB. Flowlines will be buried. One flowline is to take production from WH to CTB, will be 4" and 125psi or less. The second flowline will be a HP gas lift line.
- e. Electrical: Approximately 5410' of 12,740 volt electrical line will be run from the well pad headed West, then North following existing disturbance to the CTB.
- f. Gas Sales Line: No gas sales line is needed for this facility. Gas sales line is installed at the CTB.

5. LOCATION AND TYPE OF WATER SUPPLY:

The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to an available frac pit in the area (shared by operators) by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

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

Water for drilling, completion and dust control will be supplied by Rockhouse for sale to XTO Energy, Inc. from Section 13-26S-35E, New Mexico. In the event that Rockhouse does not have

the appropriate water for XTO at time of drilling and completion, then XTO water will come from Rockhouse Water with the location of the water being in Section 7-23S-34E, New Mexico.

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

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

6. SOURCE OF CONSTRUCTION MATERIALS:

Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from Federal lands without prior approval from the appropriate surface management agency. All roads will be constructed of 6" rolled and compacted caliche.

Source 1: State Pit, 633-Lea, Sec 2-T24S-R33E

Source 2: State Pit, 636-Lea, Sec 7-T24S-R33E

7. METHODS OF HANDLING WASTE DISPOSAL:

- a. The well will be drilled utilizing a closed loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to an NMOCD approved disposal site.
- b. Drilling fluids will be contained in steel mud pits.
- c. Water produced from the well during completion will be held temporarily in steel tanks and then taken to an NMOCD approved commercial disposal facility.
- d. Oil produced during operations will be stored in tanks until sold.
- e. Portable, self-contained chemical toilets will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- f. All trash, junk, and other waste materials will be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
- g. Hazardous Materials.
 - i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location and not reused at another drilling location will be disposed of at a

hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).

- ii. XTO Energy, Incorporated and its contractors will comply with all applicable Federal, State and local laws and regulations, existing or hereafter enacted promulgated, with regard to any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C 9601 et seq., and its regulation. The definition of hazardous substances under CERLCA includes any 'hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.C.S. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.
- iii. No hazardous substances or wastes will be stored on the location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

8. ANCILLARY FACILITIES:

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

9. WELL SITE LAYOUT:

- a. The included plat by John West Surveying shows the dimensions of the proposed well pad.
- b. The proposed dual pad size will be 430'x380', including topsoil storage and facility. There will be no reserve pit due to the well being drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.
- c. John West Surveying Company's plat, Form C-102, shows the direction of the pad at a V-Door East.
- d. A 600' x 600' area has been staked and flagged.
- e. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road, well pad and topsoil storage areas).

10. PLANS FOR SURFACE RECLAMATION:

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

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

Reclamation Standards:

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

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

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

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

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

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

Seeding:

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

11. SURFACE OWNERSHIP:

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

12. OTHER INFORMATION:

- a. The project area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinnery oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, soapweed yucca, four-wing saltbrush, althorn, and desert grasses and forbs. The project is located on a relatively flat landscape with small dunes (1-3ft), approximately 7.75 miles north of Paduca Breaks and 12.45 miles west of Woodley Flat.
- b. There is no permanent or live water in the area.
- c. There are no dwellings within 2 miles of this location.
- d. A Class III Cultural Resources Examination has been completed by Boone Archaeological Services and the results will be forwarded to the BLM office.

13. BOND COVERAGE:

- a. Bond Coverage is Nationwide; Bond Number UTB000138.

OPERATORS REPRESENTATIVE:

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

Surface:

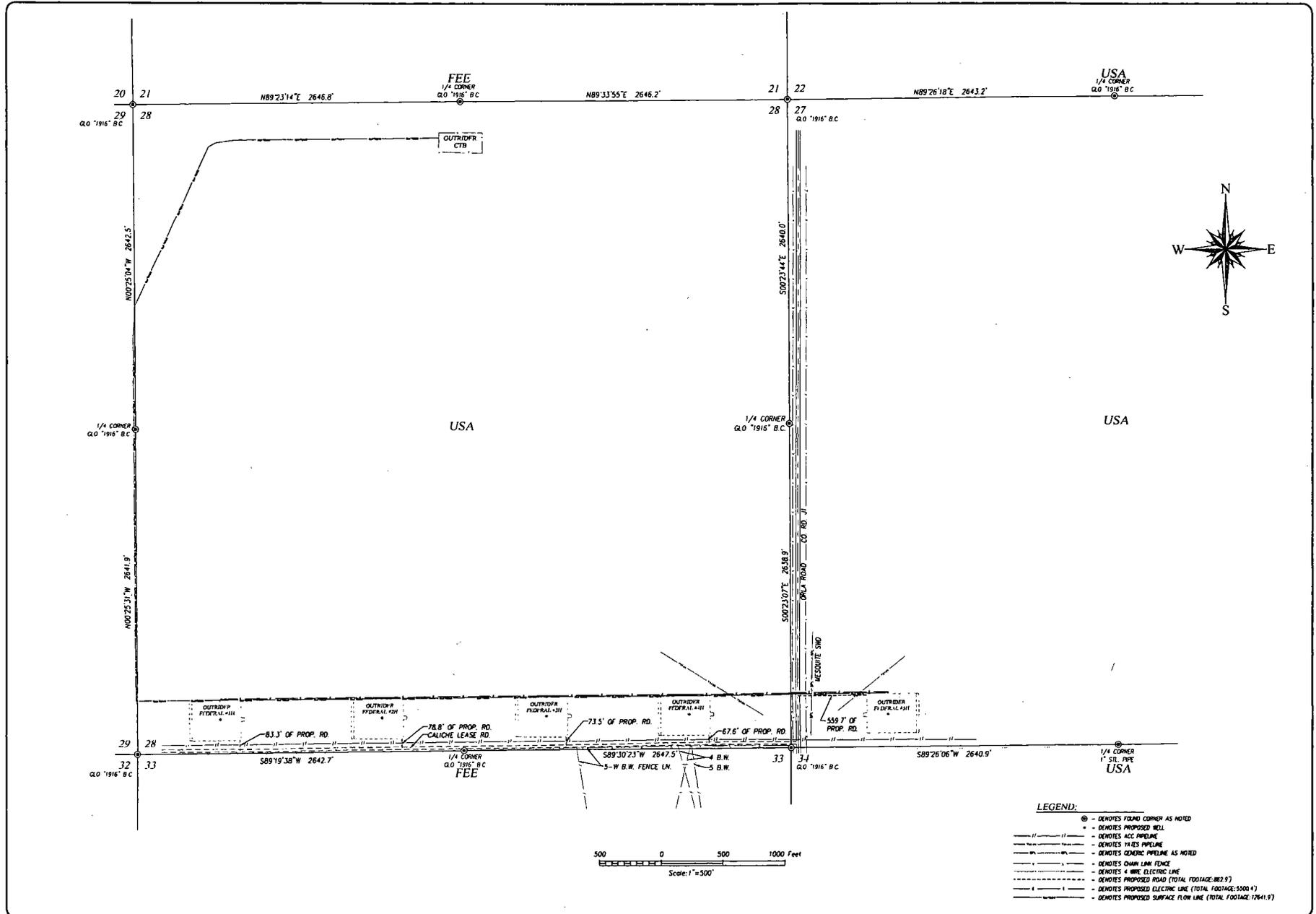
Jeff Raines
XTO Energy, Inc
500 W. Illinois St, Suite 100
Midland, TX 79701
432-620-4349 (Office)

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

Onsite performed 12/15/2016. Location moved due to new P/L running E&W. V-door E, Topsoil W, Downsize W&N, road into SE corner.

PRESET AT ON-SITE:

Brooke Wilson, Bureau of Land Management
Rebecca Hill, Boone Arch Surveying
Jimie Scott, Contract Representative for XTO Energy, Inc
John West Surveying Company



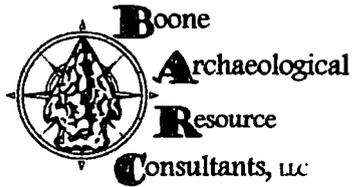
Survey Date: 9/22/16	Work Order No.: 16.11.0706 & 16.13.0780
CAD Drafter & Date: ACK 9/29/16	Revised Date: 10/4/16
Anipica\2016\XTO ENERGY\Lease Flow Maps\16130780 Update Lease Flow Map for Outrider Federal #1H-#5H Wells in Secs 21,27,28, 1245, R.32E	
Scale: One Inch = One Hundred Feet	JWSC File No. D-

XTO ENERGY

**LEASE FLOW DIAGRAM FOR THE OUTRIDER FEDERAL #1H THROUGH #5H
WELLS LOCATED IN SECTIONS 27 & 28, TOWNSHIP 24 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO**

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBBS, NEW MEXICO 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000



506 E. Chapman Road
Carlsbad, NM 88220
575.885.1352
boonearch@yahoo.com

Stephanie Rabadue
XTO Energy
Midland Division
500 W. Illinois Street, Suite 100
Midland, TX 79701

Re: XTO Outrider Fed #1H Well Pad
Legal Description: S28, T24S R32E, Lea County, NM
USGS Quadrangle Paduca Breaks NW, 32103-B6
Project No.: BARC 12-16-27

Dear Ms. Rabadue:

Our records search was conducted on December 27, 2016 at the Bureau of Land Management, Carlsbad Field Office for a proposed well pad which lies in Section 28 of T24S R32E. During the consultation with archaeologist Bruce Boeke, it was determined that no further action is required because the location is covered under previous survey NMCRIS 131223.

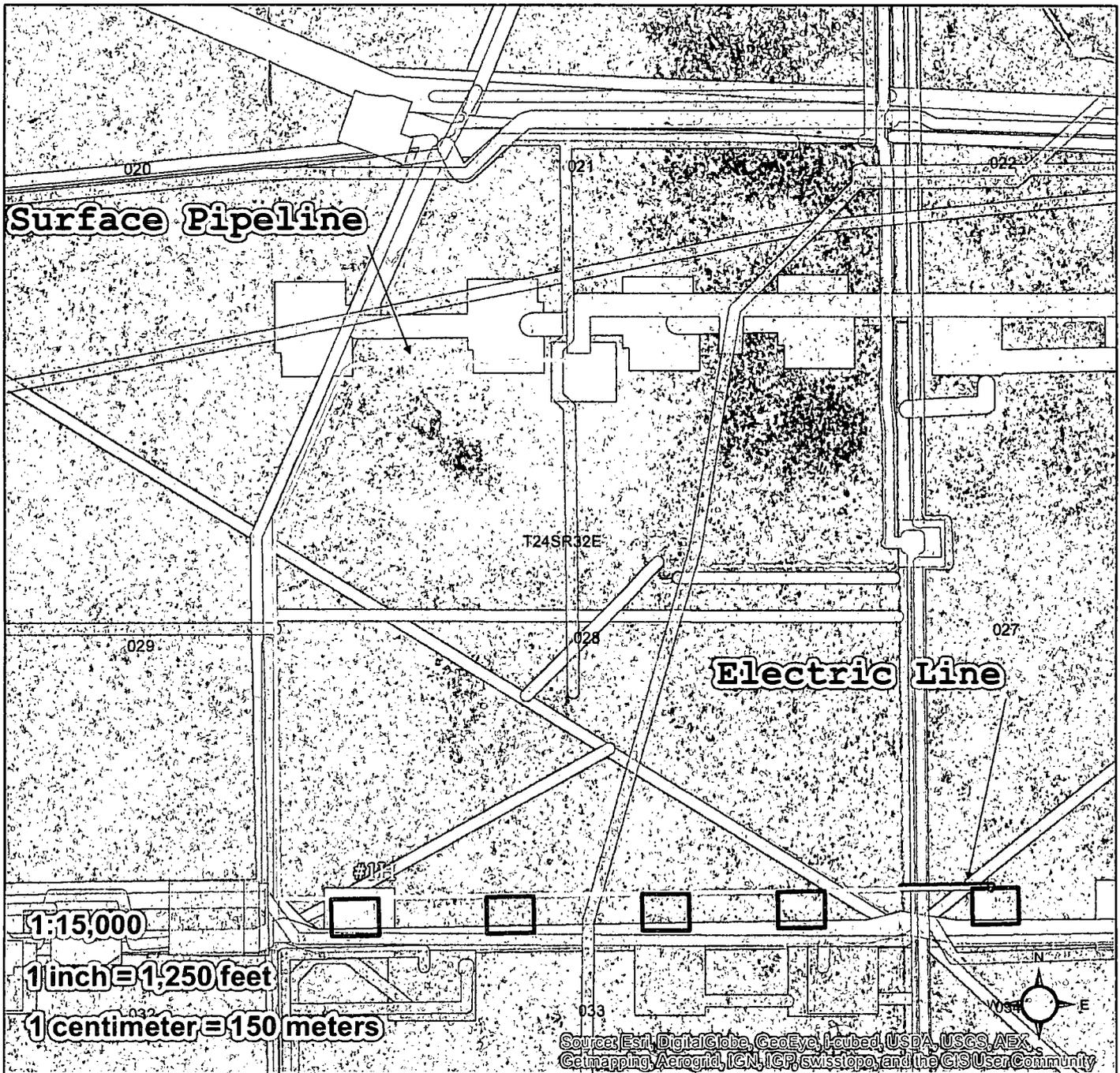
Sincerely,

A handwritten signature in cursive script that reads "Stacy K. Galassini".

Stacy K. Galassini
Owner/Principal Investigator
Boone Archaeological Resource Consultants, LLC

Encl: (1) Project map
(2) ARMS map
(3) Prefield form
(4) BLM map
(5) Plats

XTO
 Outrider Federal Wells #1H-5H
 Electric Line & Surface Pipeline

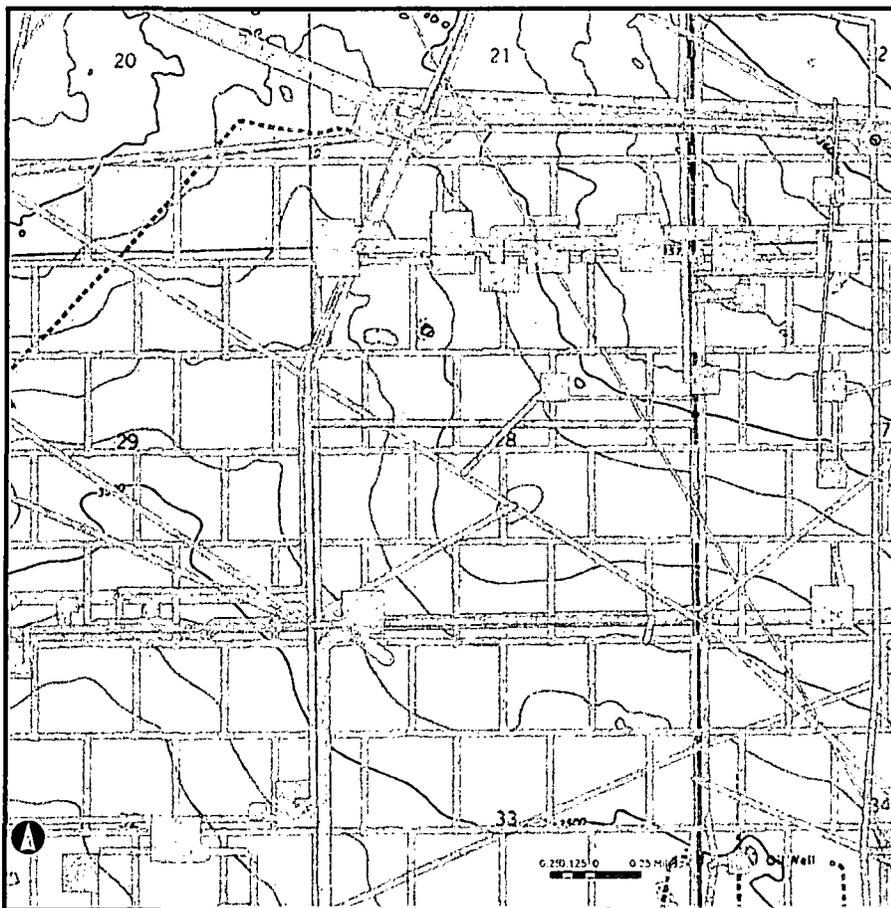


Legend	
5H Pad	<all other values>
4H Pad	Eligibility
3H Pad	Eligible
2H Pad	Not Eligible
1H Pad	Undetermined
SURFACE PL	PA
ELECTRIC LINE	Surveyed Space - Daily Updates

Paduca Breaks NW
 32103-B6
 T24S R32E S27-29
 1:15,000
 BARC 12-16-27

Source: Esri, DigitalGlobe, GeoEye, Igubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

ARMS Map



PLSS

- Site Labels
- ◆ Site Boundaries (Edit)
- Site Boundaries
- Not Defined
- Proposed
- Approved
- ◆ Building Labels
- ◆ Object Labels
- ◆ Linear Resource Labels
- ◆ Historic Structure Labels
- Historic Structures (Edit)
- Buildings (Edit)
- Objects (Edit)

Historic Structures

- Not Defined
- Proposed
- Approved
- Buildings**
- Not Defined
- Proposed
- Approved
- Objects**
- Not Defined
- Proposed
- Approved
- Linear Resources**
- Not Defined
- Proposed
- Approved
- District Labels**
- ◆ Districts (Edit)
- Districts

Register Properties

- Not Defined
- Proposed
- Approved
- Archaeological Surveys (Edit)**
- Archaeological Surveys
- Not Defined
- Proposed
- Approved
- Highways**
- Primary Limited Access or Interstate
- Primary US and State Highways
- Secondary State and County
- Local - Rural
- Ramp, other
- New Mexico**
- Counties
- Towns

 Linear Resources (Edit)

Not Defined
 Proposed
 Approved
Register Properties (Edit)


 NGS USA Topographic Maps

NMCRIS

Background Reference Layers

DRGs: Copyright: © 2013 National Geographic Society
NGS USA Topographic Maps: Copyright: © 2013 National Geographic Society

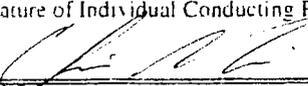
Satellite Imagery

ESRI_Imagery_World_2D: Copyright: © 2013 ESRI, i-cubed, GeoEye
World Imagery: Copyright: © 2013 ESRI, i-cubed, GeoEye

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FIELDWORK AUTHORIZATION REQUEST

To Conduct Specific Cultural Resource Work Under the Authority of a Cultural Resource Use Permit Issued by the Bureau of Land Management
Pursuant to Sec. 392(b) of P.L. 94-579, October 21, 1976, 43 U.S.C. 1712 and Sec. 4 of P.L. 96-95, October 31, 1979, 16 U.S.C. 470cc

1. Name of Permittee and Company Stacy K. Galassini - Boone Archaeological Resource Consultants, LLC	
2. Date Permit Issued 7-27-16	
3. Contact Telephone Number 575-885-1352	
4. Project Name and Client Name XTO Outrider Fed #1H Well Pad (BARC 12-16-27) Client Contact: Stephanie Rabadue	
5. Location of Work or Legal Description (Include map) a. Description of Public Lands Involved T24S R32E S28 BLM-CFO Lea County, NM	
6. Nature of Cultural Resource Work (Survey, APE, etc.) a. Identification of Previous Surveys and Sites (if applicable) NO SURVEY	
7. Name of Individual(s) Responsible for Planning & Supervising Field Work, & Approving Reports, Evaluations, & Recommendations Stacy K. Galassini	
8. Signature of Individual Conducting Pre-Field Consultation 	9. Date 27 DEC 2016

The individual named in item 7 above shall be present during the conduct of field work authorized herein, or shall notify the authorized officer of the need for any extended absence, and shall make provision that the work will be carried out under supervision of equal quality, by an individual approved by the authorized officer.

All terms and conditions of the permit continue to apply; any special conditions attached hereto have the same force and effect as conditions of the permit.

Permittee shall immediately notify the authorized officer of any change in items 3 through 7 above.

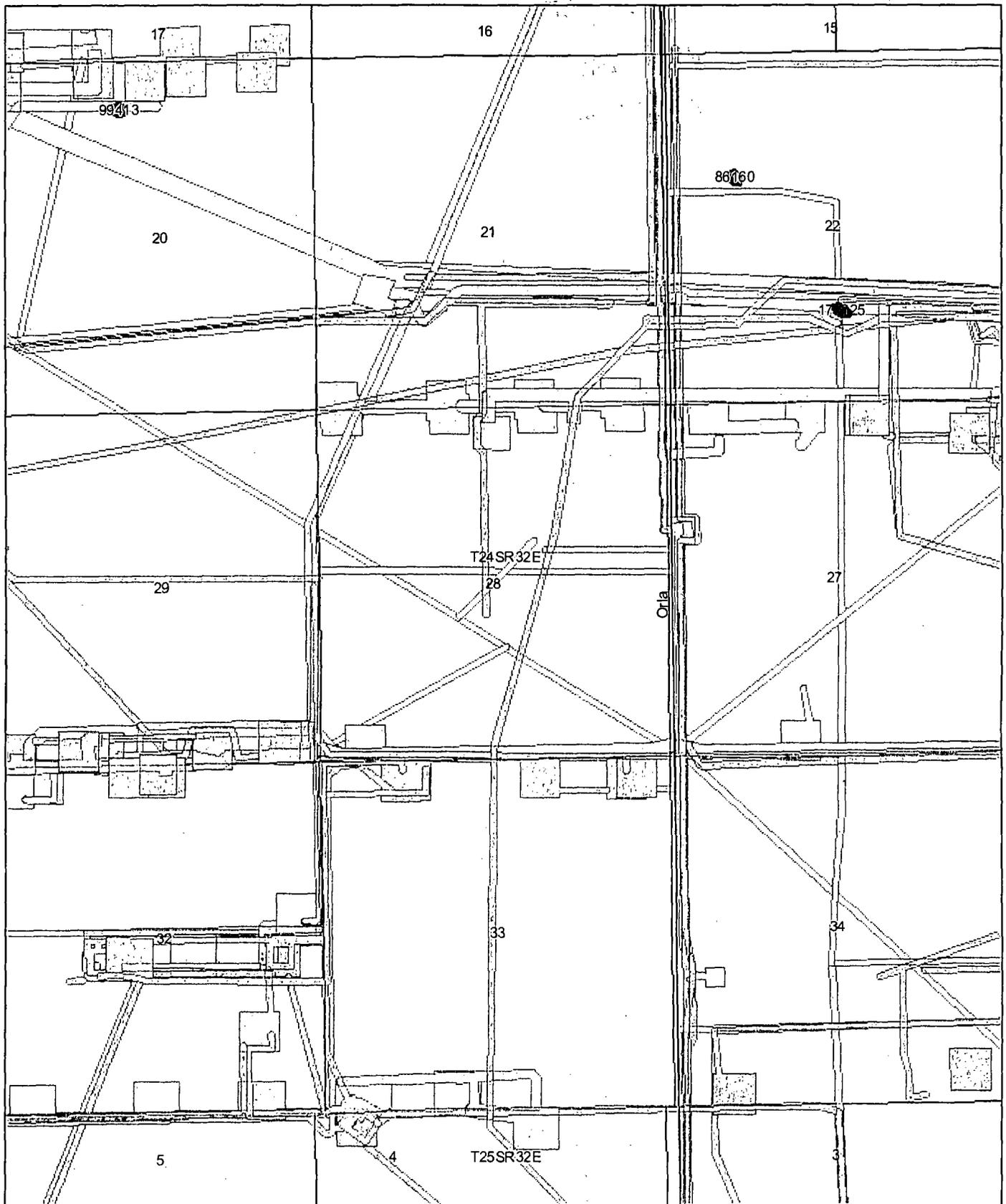
Fieldwork Authorization Request approved by:



(Signature of BLM Authorized Officer)

Date:

12-27-16



1:24,000

BLM Map

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) 748-1285 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
Minerals & Natural Resources Department
HOBBS OGD
OIL CONSERVATION DIVISION
MAY 23 2016
2020 South St. Francis Dr.
Santa Fe, New Mexico 87505

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

□ AMENDED REPORT

RECEIVED
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name OUTRIDER FEDERAL	
OGRID No.	Well Number 1H	
	Operator Name XTO ENERGY	
	Elevation 3514'	

Surface Location

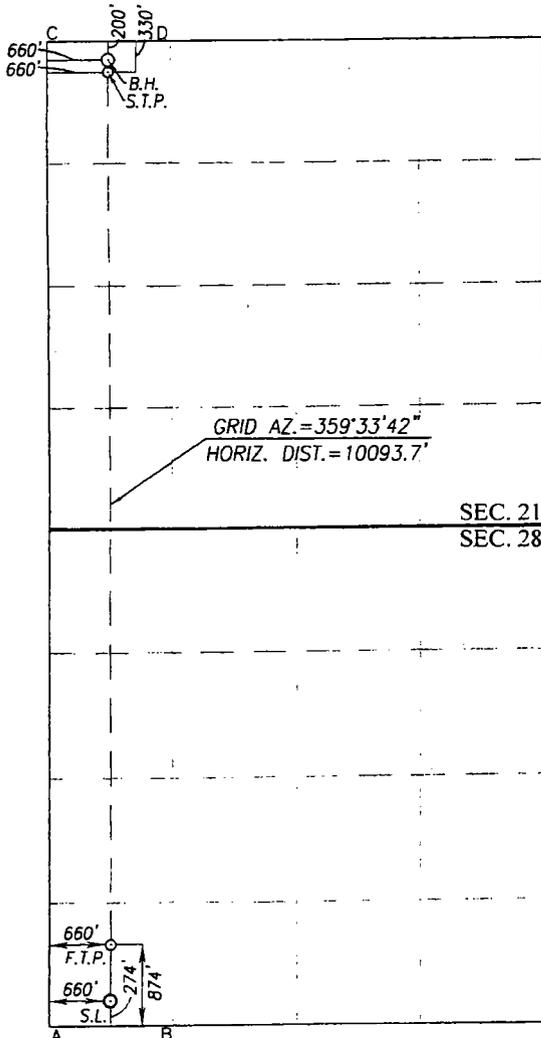
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	24-S	32-E		274	SOUTH	660	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	24-S	32-E		200	NORTH	660	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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



SCALE: 1"=2000'

<p>GEODETTIC COORDINATES NAD 27 NME BOTTOM HOLE LOCATION Y=440571.3 N X=700339.5 E LAT.=32.209588° N LONG.=103.685594° W</p> <p>SECOND TAKE POINT NAD 27 NME Y=440441.3 N X=700340.5 E LAT.=32.209231° N LONG.=103.685593° W</p> <p>CORNER COORDINATES TABLE NAD 27 NME A - Y=430198.5 N, X=699758.4 E B - Y=430214.1 N, X=701079.4 E C - Y=440766.0 N, X=699678.0 E D - Y=440776.6 N, X=701005.5 E</p> <p>CORNER COORDINATES TABLE NAD 83 NME A - Y=430257.0 N, X=740943.3 E B - Y=430272.5 N, X=742264.2 E C - Y=440824.7 N, X=740862.4 E D - Y=440835.3 N, X=742189.9 E</p> <p>GEODETTIC COORDINATES NAD 27 NME FIRST TAKE POINT Y=431080.1 N X=700411.7 E LAT.=32.183497° N LONG.=103.685546° W</p> <p>SURFACE LOCATION NAD 27 NME Y=430480.3 N X=700416.3 E LAT.=32.181848° N LONG.=103.685542° W</p>	<p>GEODETTIC COORDINATES NAD 83 NME BOTTOM HOLE LOCATION Y=440630.0 N X=741523.9 E LAT.=32.209712° N LONG.=103.686074° W</p> <p>SECOND TAKE POINT NAD 83 NME Y=440500.1 N X=741524.9 E LAT.=32.209355° N LONG.=103.686074° W</p> <p>GEODETTIC COORDINATES NAD 83 NME FIRST TAKE POINT Y=431138.6 N X=741596.5 E LAT.=32.183621° N LONG.=103.686024° W</p> <p>SURFACE LOCATION NAD 83 NME Y=430538.7 N X=741601.1 E LAT.=32.181972° N LONG.=103.686021° W</p>
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OPERATOR CERTIFICATION

I hereby certify that the information 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 the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

SURVEYOR 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.

SEPTEMBER 8, 2016

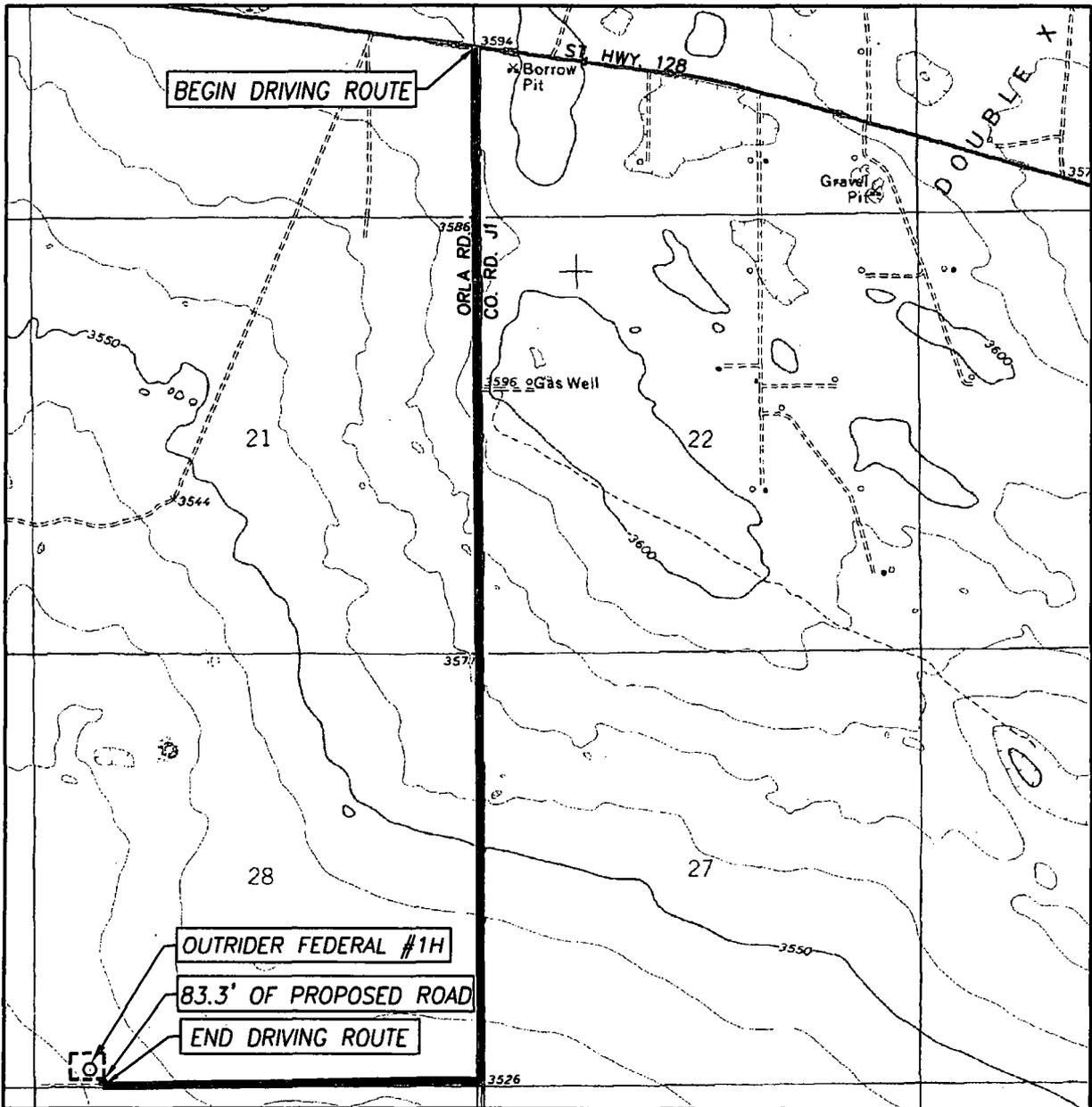
Date of Survey
Signature & Seal of Professional Surveyor:

Ronald J. Eidson 9/29/2016

Certificate Number	Gary C. Eidson	12641
	Ronald J. Eidson	5239

ACK REL. W.O. 14111231 JWSC W.O. 16.11.0679

TOPOGRAPHIC AND ACCESS ROAD MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
PADUCA BREAKS NW, N.M. - 10'

SEC. 28 TWP. 24-S RGE. 32-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 274' FSL & 660' FWL
 ELEVATION 3514'

OPERATOR XTO ENERGY
 LEASE OUTRIDER FEDERAL
 U.S.G.S. TOPOGRAPHIC MAP
 PADUCA BREAKS NW, N.M.

DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF ST. HWY. 128 AND CO. RD. J1 (ORLA ROAD), GO SOUTH ON CO. RD. J1 (ORLA ROAD), APPROX. 2.3 MILES. TURN RIGHT AND GO WEST APPROX. 0.9 MILES TO PROPOSED ACCESS ROAD. FOLLOW STAKED ROAD NORTH 83.3 FEET TO THE SOUTHEAST CORNER OF THIS LOCATION.



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 TBPLS# 10021000