Form 3160-3
(March 2012)

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM111533

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.:

1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: ROADHOUSE FEDERAL 2H 321172

2. Name of Operator: XTO ENERGY INCORPORATED 5380

9. API Well No.: 30-015 44279

3a. Address: 810 Houston St. Ft. Worth TX 76102

3b. Phone No. *(include area code)*: (432)620-6700

10. Field and Pool, or Exploratory: PURPLE-SAGE WOLFCAMP GAS

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SWSE / 180 FSL / 2040 FEL / LAT 32.152461 / LONG -104.021796

At proposed prod. zone: NWSW / 2440 FSL / 2040 FEL / LAT 32.173191 / LONG -104.021702

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 6 / T25S / R29E / NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 180 feet

16. No. of acres in lease: 360

17. Spacing Unit dedicated to this well: 480

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 30 feet

19. Proposed Depth: 10022 feet / 17317 feet

20. BLM/BIA Bond No. on file: FED: UTB000138

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2905 feet

22. Approximate date work will start*: 02/28/2018

23. Estimated duration: 90 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

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

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	Stephanie Rabadue / Ph: (432)620-6714	11/02/2017

Title: Regulatory Compliance Analyst

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	03/22/2018

Title	Office
Supervisor Multiple Resources	CARLSBAD

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

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

(Continued on page 2)

*(Instructions on page 2)

APPROVED WITH CONDITIONS

Approval Date: 03/22/2018

NM OIL CONSERVATION
ARTESIA DISTRICT
APR 05 2018
RECEIVED

RWP 4-9-18

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy, INC.
LEASE NO.:	NMNM111533
WELL NAME & NO.:	Roadhouse Federal 2H
SURFACE HOLE FOOTAGE:	180'/S & 2040'/E
BOTTOM HOLE FOOTAGE	2440'/E & 2040'/E
LOCATION:	Section 6, T.25 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

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

Approval Date: 03/22/2018

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)

Commingling

The wells oil and gas production will be required metered at the surface well pad location, these meters will be designated as the Facility Measurement Point (FMP) for royalty purposes.

Cave/Karst Surface Mitigation

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

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately. Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

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

Tank Battery Liners and Berms:
Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:
A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

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

Cave/Karst Subsurface Mitigation
The following stipulations will be applied to protect cave/karst and ground water concerns:
Rotary Drilling with Fresh Water:
Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

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

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

Abandonment Cementing:
Upon well abandonment in cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:
Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Range

Fence Requirement

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

Watershed

- 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.

Surface Pipeline COAs Only:

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

VI. CONSTRUCTION

A. NOTIFICATION

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

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

B. TOPSOIL

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

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

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

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

D. FEDERAL MINERAL MATERIALS PIT

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

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

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

F. EXCLOSURE FENCING (CELLARS & PITS)

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

G. ON LEASE ACCESS ROADS

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

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

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

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

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

Ditching
Ditching shall be required on both sides of the road.

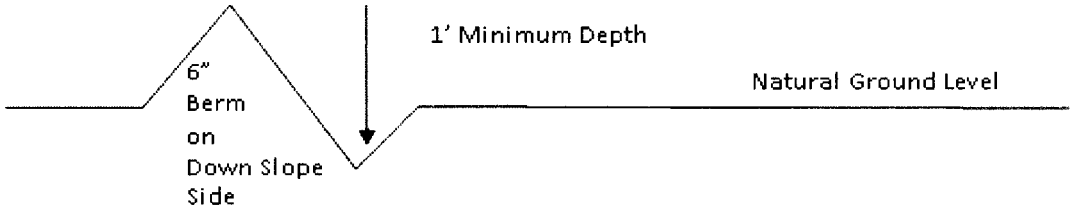
Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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

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

Cross Section of a Typical Lead-off Ditch



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

Formula for Spacing Interval of Lead-off Ditches

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

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

Cattle guards

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

Fence Requirement

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

Public Access

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

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

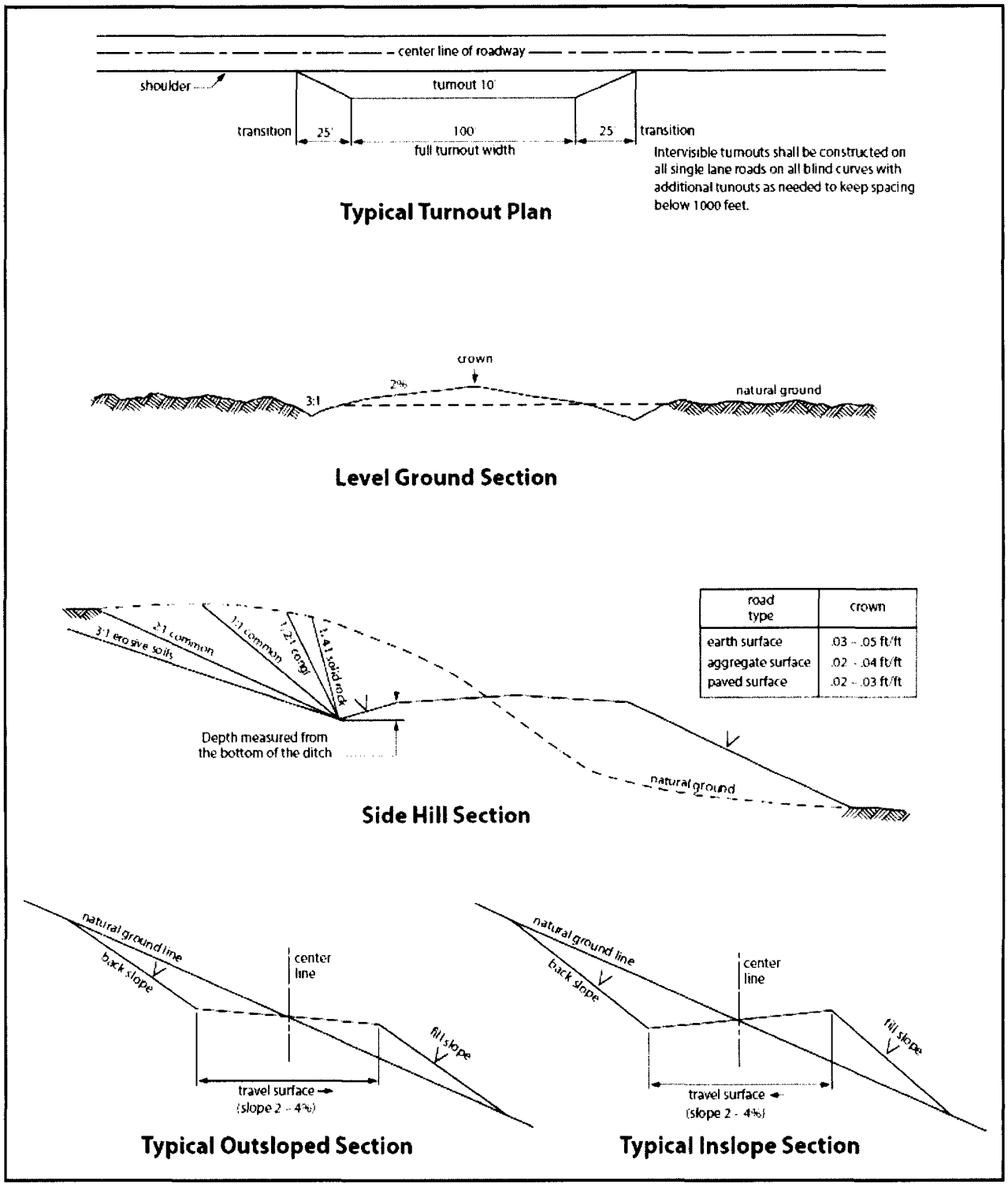


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

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

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

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

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

Containment Structures

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

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

B. PIPELINES

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.

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

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

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

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

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

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

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

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

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

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

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

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

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

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

c. Acts of God.

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

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

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

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of **20** feet. If the pipeline route follows an existing road or buried pipeline

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

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

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

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

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

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

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

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

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

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

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

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

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

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).

Seed Mixture 2, for Sandy Sites

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

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

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

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

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BUREAU OF LAND MANAGEMENT

ator Certification Data Report

03/22/2018

Operator Certification

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

NAME: Stephanie Rabadue **Signed on:** 11/02/2017

Title: Regulatory Compliance Analyst

Street Address: 500 W. Illinois St, Ste 100

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

Phone: (432)620-6714

Email address: stephanie_rabadue@xtoenergy.com

Field Representative

Representative Name:

Street Address:

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

Phone:

Email address:

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

Application Data Report
03/22/2018

APD ID: 10400024217 **Submission Date:** 11/02/2017

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

APD ID: 10400024217 **Tie to previous NOS?** **Submission Date:** 11/02/2017

BLM Office: CARLSBAD **User:** Stephanie Rabadue **Title:** Regulatory Compliance Analyst

Federal/Indian APD: FED **Is the first lease penetrated for production Federal or Indian?** FED

Lease number: NMNM111533 **Lease Acres:** 360

Surface access agreement in place? **Allotted?** **Reservation:**

Agreement in place? NO **Federal or Indian agreement:**

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO **APD Operator:** XTO ENERGY INCORPORATED

Operator letter of designation: Roadhouse_Fed_2H_Op_Rights_20171102060113.pdf

Operator Info

Operator Organization Name: XTO ENERGY INCORPORATED

Operator Address: 810 Houston St. **Zip:** 76102

Operator PO Box:

Operator City: Ft. Worth **State:** TX

Operator Phone: (432)620-6700

Operator Internet Address: Richard_redus@xtoenergy.com

Section 2 - Well Information

Well in Master Development Plan? NO **Mater Development Plan name:**

Well in Master SUPO? NO **Master SUPO name:**

Well in Master Drilling Plan? NO **Master Drilling Plan name:**

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** PURPLE-SAGE WOLFCAMP GAS **Pool Name:**

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

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** YES **New surface disturbance?** Y

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** STEAKHOUSE **Number:** 2

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

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: DELINEATION

Describe sub-type:

Distance to town: **Distance to nearest well:** 30 FT **Distance to lease line:** 180 FT

Reservoir well spacing assigned acres Measurement: 480 Acres

Well plat: Roadhouse_Fed_2H_C102_20171102060237.pdf

Well work start Date: 02/28/2018 **Duration:** 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number:

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	180	FSL	2040	FEL	25S	29E	6	Aliquot SWSE	32.152461	-104.021796	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	2905	17317	10050
KOP Leg #1	180	FSL	2040	FEL	25S	29E	6	Aliquot SWSE	32.152461	-104.021796	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	-6544	9449	9449
PPP Leg #1	800	FSL	2043	FEL	25S	29E	6	Aliquot SWSE	32.154165	-104.021788	EDDY	NEW MEXICO	NEW MEXICO	S	STATE	-7117	10400	10022

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	2310	FSL	2041	FEL	24S	29E	31	Aliquot NWSE	32.172834	-104.021704	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 111533	-7117	17187	10022
BHL Leg #1	2440	FSL	2040	FEL	24S	29E	31	Aliquot NWSW	32.173191	-104.021702	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 111533	-7117	17317	10022

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Drilling Plan Data Report
03/22/2018

APD ID: 10400024217
Submission Date: 11/02/2017
Highlighted data reflects the most recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL
Well Number: 2H
Show Final Text

Well Type: CONVENTIONAL GAS WELL
Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	---	2905	0	0	ALLUVIUM,OTHER : Quaternary	NONE	No
2	RUSTLER	2630	275	275	SANDSTONE	USEABLE WATER	No
3	TOP SALT	2281	624	624	SALT	NONE	No
4	BASE OF SALT	374	2531	2531	SALT	NONE	No
5	DELAWARE	175	2730	2730	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
6	CHERRY CANYON	-732	3637	3637	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
7	BRUSHY CANYON	-2301	5206	5206	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
8	BONE SPRING 1ST	-3278	6183	6183	SANDSTONE	NATURAL GAS,POTASH,OTHER : Produced Water	No
9	BONE SPRING 2ND	-5314	8219	8219	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	No
10	BONE SPRING 3RD	-5568	8473	8473	SANDSTONE	NATURAL GAS,OIL,OTHER : Produced Water	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 10050

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. Max bottom hole pressure should not exceed 3945 psi.
Requesting Variance? YES

Variance request: A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.
Testing Procedure: All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

Roadhouse_Fed_2H_5MCM_20171102063751.pdf

BOP Diagram Attachment:

Roadhouse_Fed_2H_5MBOP_20171102063803.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	600	0	600			600	H-40	48	STC	2.7	5.77	DRY	11.18	DRY	11.18
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	2575	0	2575			2575	J-55	36	LTC	1.48	2.71	DRY	4.89	DRY	4.89
3	PRODUCTION	8.75	5.5	NEW	API	N	0	10250	0	10250			10250	P-110	17	BUTT	1.74	1.18	DRY	2.68	DRY	2.68
4	LINER	6.125	4.5	NEW	API	N	9420	17317	9420	17317			7897	P-110	13.5	BUTT	1.74	1.31	DRY	2.05	DRY	2.05

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Roadhouse_Fed_2H_Csg_20171102063858.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Casing Attachments

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Roadhouse_Fed_2H_Csg_20171102063908.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Roadhouse_Fed_2H_Csg_20171102063916.pdf

Casing ID: 4 **String Type:** LINER

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Roadhouse_Fed_2H_Csg_20171102063924.pdf

Section 4 - Cement

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	600	617	1.35	14.8	832.95	100	HalCem-C	+ 2% CaCl
INTERMEDIATE	Lead		0	2575	522	2.49	11.9	1299.78	100	EconoCem-HLC	3lbm/sk Kol-Seal + .025lbm D-air 5000
INTERMEDIATE	Tail				235	1.33	14.8	312.55	100	Halcem-C	none
PRODUCTION	Lead		0	10250	450	2.99	10.5	1345.5	30	Tuned Light	2lbm/sk Kol-Seal + 0.3lbm/sk CFR-3
PRODUCTION	Tail				210	1.33	14.5	279.3	30	VersaCem	2lbm/sk Kol-Seal + 0.3lbm/sk CFR-3 + 0.4% Halad 344 + 0.3% Super CBL + 0.25lbm/sk D-air 5000
LINER	Lead		9420	17317	610	1.59	13.2	969.9	30	VersaCem PBHS2	0.25lbm/sk D-air 5000 + 0.5% Halad 344 + 0.3% CFR-3

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

Circulating Medium Table

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
10250	17317	OIL-BASED MUD	10	13.5							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
0	600	OTHER : FW/Native	8.4	8.8							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
600	2575	OTHER : Brine/Gel Sweeps	9.8	10.2							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
2575	10250	OTHER : FW/Cut Brine/Gel-Sweeps	8.4	9.2							A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Section 6 - Test, Logging, Coring

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

Mud Logger: Mud Logging Unit (2 man) on @ 2575'.
Catch 100' samples from 2575' to TD

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

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

CBL,CNL,DS,GR,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3945 **Anticipated Surface Pressure:** 1734

Anticipated Bottom Hole Temperature(F): 180

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

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geoharzards description:

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

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Roadhouse_Fed_2H_H2S_Dia_20171102062438.pdf

Roadhouse_Fed_2H_H2S_Plan_20171102062445.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Roadhouse_Fed_2H_DS_20171102062457.pdf

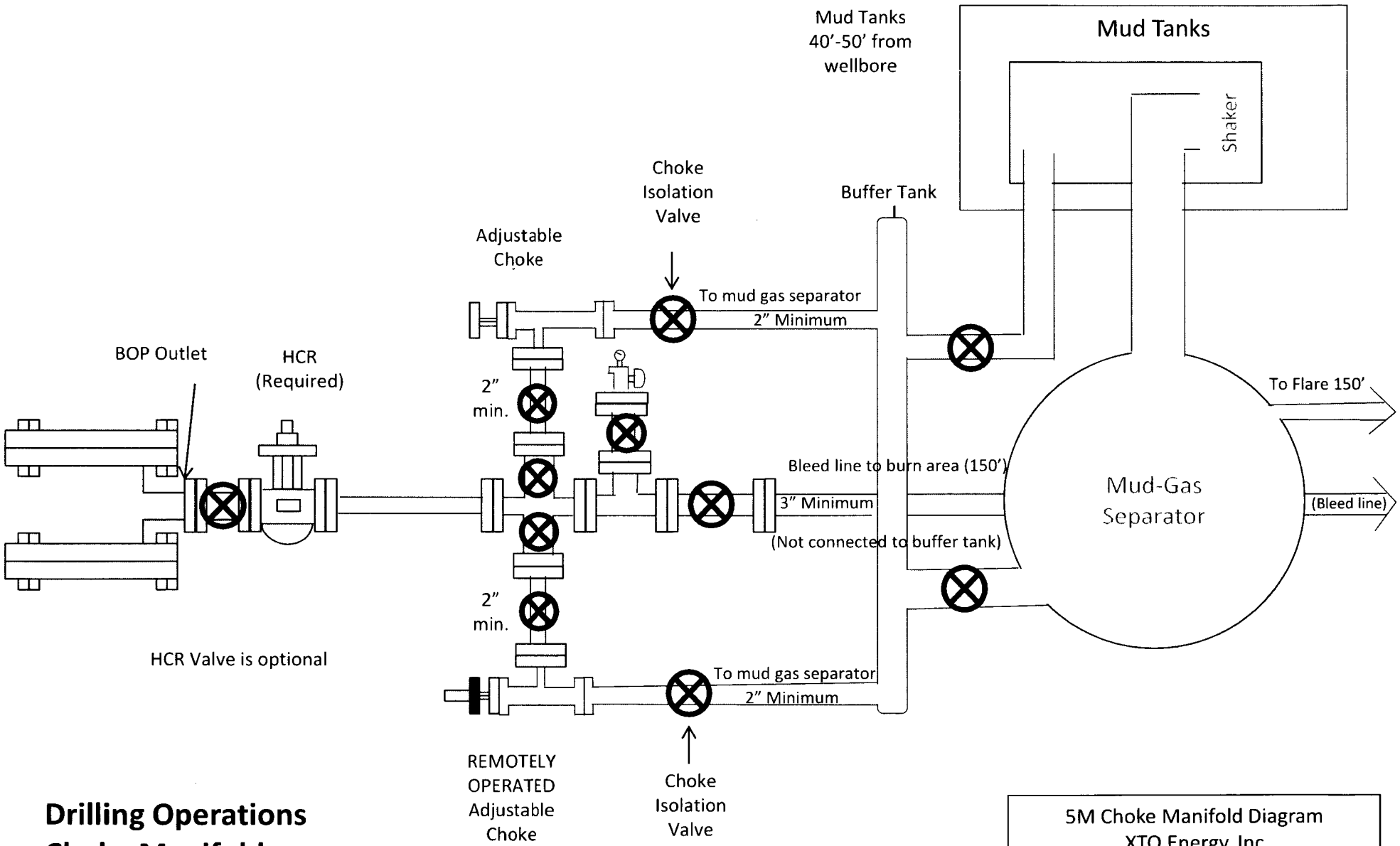
Other proposed operations facets description:

Other proposed operations facets attachment:

Roadhouse_Fed_2H_GCP_20171102062504.pdf

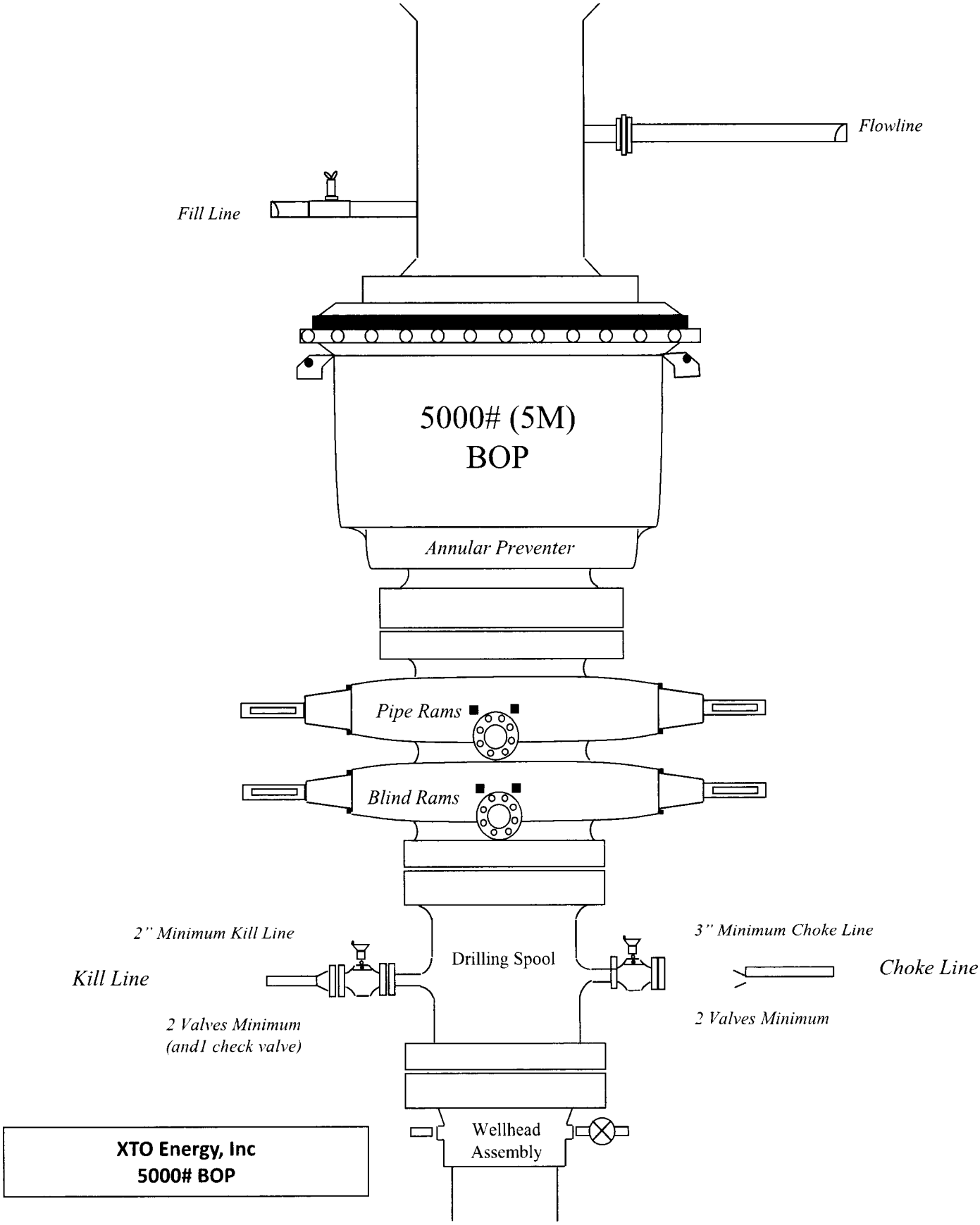
Other Variance attachment:

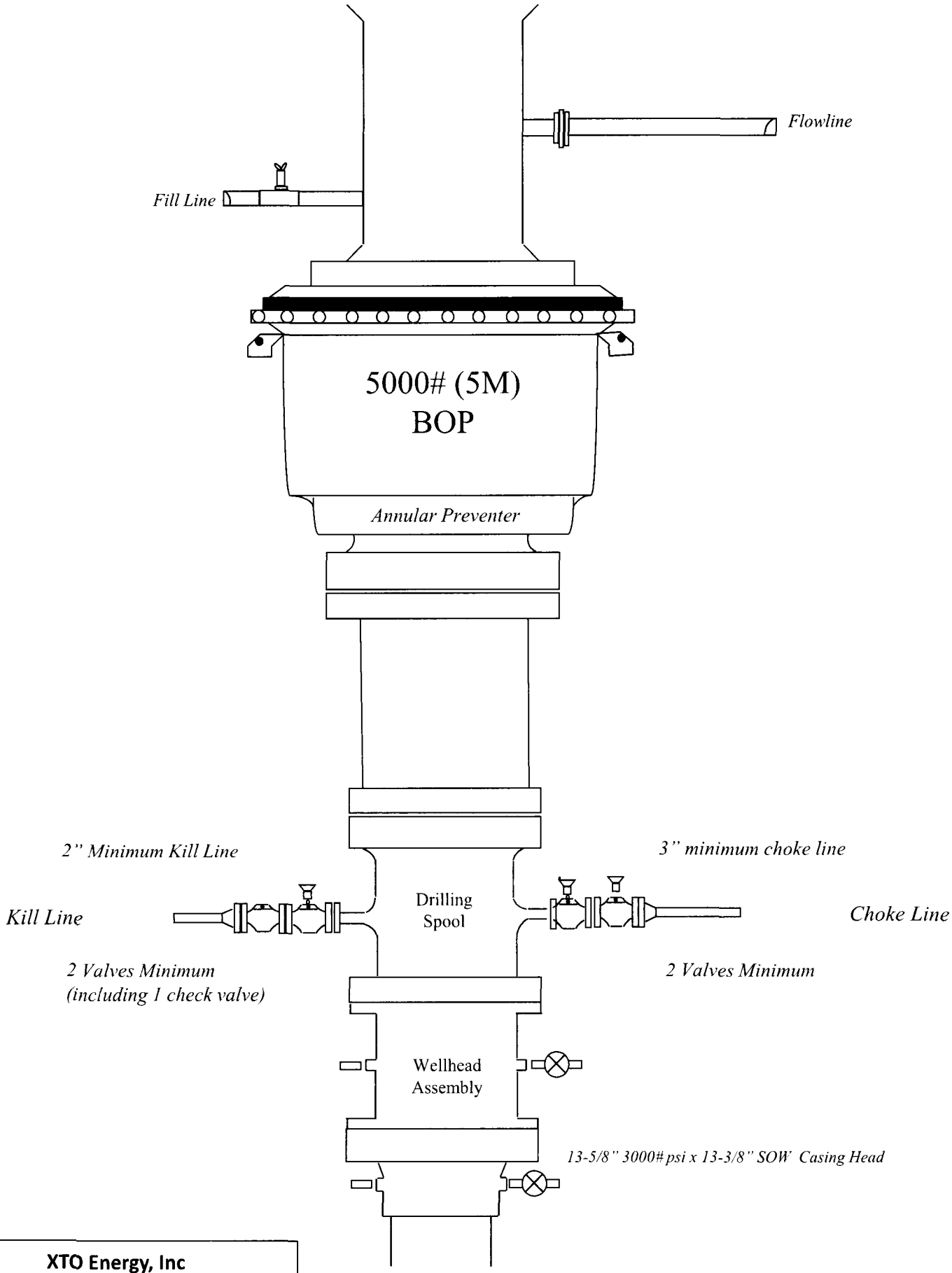
Roadhouse_Fed_2H_FH_20171102062512.pdf



Drilling Operations
Choke Manifold
5M Service

5M Choke Manifold Diagram
XTO Energy, Inc


Flowline
Fill Line
5000# (5M)
BOP
Annular Preventer
Pipe Rams
Blind Rams
2" Minimum Kill Line
Kill Line
Drilling Spool
3" Minimum Choke Line
Choke Line
2 Valves Minimum
(and1 check valve)
2 Valves Minimum
Wellhead
Assembly
XTO Energy, Inc
5000# BOP



XTO Energy, Inc
5000# BOP

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
Roadhouse Federal 2H
Projected TD: 17317' MD / 10050' TVD
SHL: 180' FSL & 2040' FEL, SECTION 6, T25S, R29E
BHL: 2440' FSL & 2040' FEL, SECTION 31, T24S, R29E
Eddy County, NM

CASING PROGRAM:

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 600'	13-3/8"	48#	STC	H-40	New	5.77	2.70	11.18
12-1/4"	0' – 2575'	9-5/8"	36#	LTC	J-55	New	2.71	1.48	4.89
8-3/4"	0' – 10250'	7"	29#	LTC	P-110	New	1.18	1.74	2.68
6-1/8"	9420' – 17317'	4-1/2"	13.5#	BTC	P-110	New	1.31	1.74	2.05

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12-1/4"	0' – 2575'	9-5/8"	36#	LTC	J-55	New	2.71	1.48	4.89
8-3/4"	0' – 10250'	7"	29#	LTC	P-110	New	1.18	1.74	2.68
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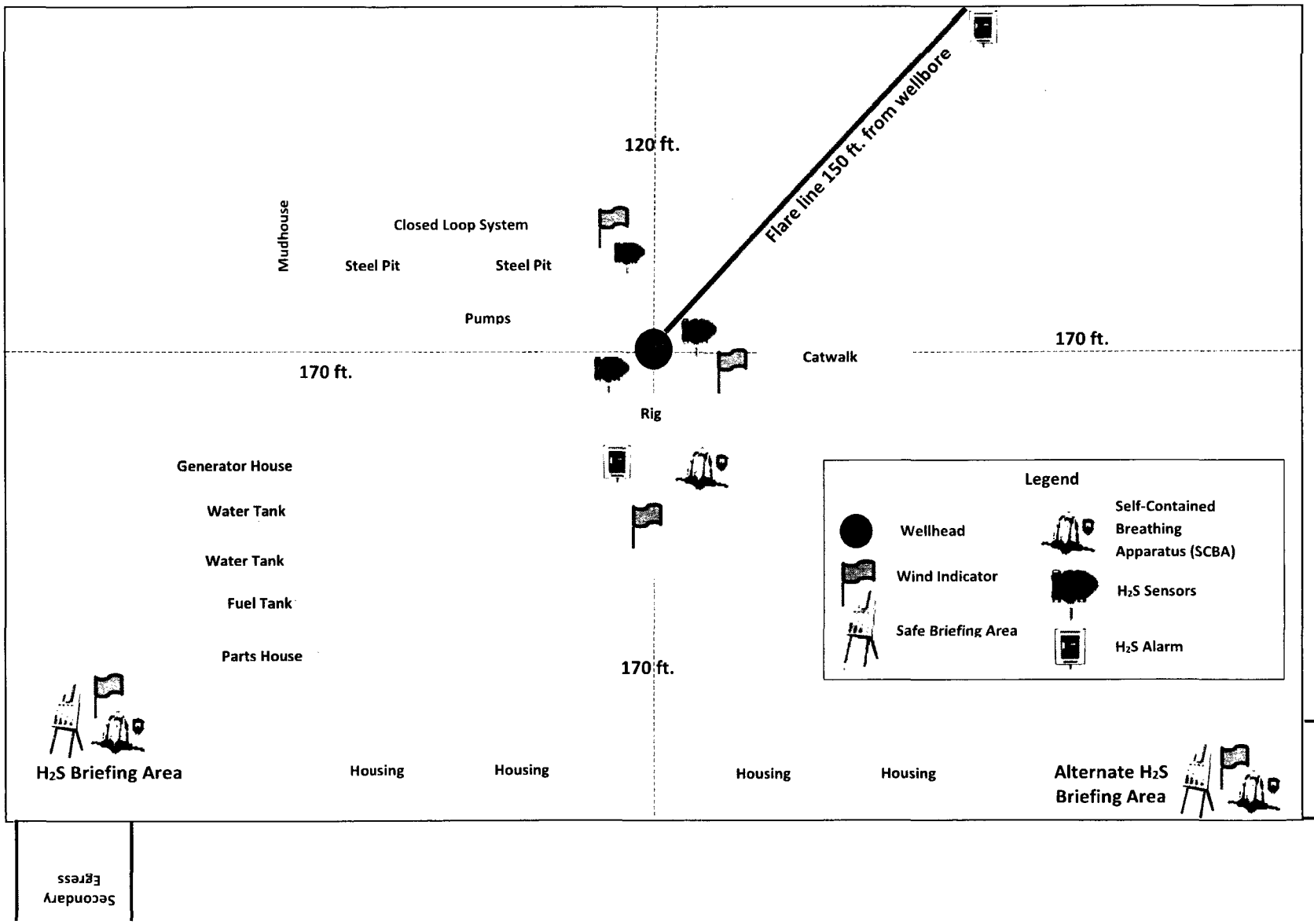
8-3/4"	0' – 10250'	7"	29#	LTC	P-110	New	1.18	1.74	2.68
6-1/8"	9420' – 17317'	4-1/2"	13.5#	BTC	P-110	New	1.31	1.74	2.05

H2S Briefing Areas and Alarm Locations



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 H_2S, 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 H_2S 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 H_2S, 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 (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

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

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

AGENT NOTIFICATIONS:

For Lea County:

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

For Eddy County:

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

XTO ENERGY

5D Plan Report

XTO Energy

Field Name:	*Eddy Co., NM (NAD 27 NME)*
Site Name:	*Roadhouse State #2H*
Well Name:	*Roadhouse State #2H*
Plan:	*P1:V2*

11 July 2017

Weatherford®

Plan Surveys for Roadhouse State #2H

Field Name: Eddy Co., NM (NAD 27 NME)

Map Units: US ft
Company Name: XTO Energy
Vertical Reference Datum (VRD):
Projected Coordinate System: NAD27 / New Mexico East
Comment:

Site: Roadhouse State #2H

Units: US ft
North Reference: Grid
Convergence Angle: 0.17
Position:
Northing: 419281.90 US ft
Latitude: 32° 9' 8.42"
Easting: 596566.00 US ft
Longitude: -104° 1' 16.71"
Elevation above Field Reference: 2905.00 US ft
Comment:

Slot: Roadhouse State #2H

Position (Relative to Site Centre)
+N/-S: 0.00 US ft
Northing: 419281.90 US ft
Latitude: 32°9'8.42"
+E/-W: 0.00 US ft
Easting: 596566.00 US ft
Longitude: -104°1'16.71"
Slot TVD Reference: Ground Elevation
Elevation above Field Reference: 2905.00 US ft
Comment:

Well: Roadhouse State #2H

Type: Main well
UWI:
Plan: P1:V2
File Number:
Comment:
Closure Distance: 7541US ft
Closure Azimuth: 0.06°
Vertical Section: Position of Origin (Relative to Slot centre)
+N/-S: 0.00 US ft
+E/-W: 0.00 US ft
Az: 0.06°
Magnetic Parameters:
Model: bggm2016
Field Strength: 47965.4nT
Declination: 7.24°
Dip: 59.92°
Date: 30/Apr/2017

Drill floor: Plan: P1:V2

Rig Height (Drill Floor): 25.00us ft
Elevation above Field Reference: 2930.00us ft
Inclination: 0.00°
Azimuth: 0.00°

Target set: Roadhouse State #2H Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	C.Pt.Distance (US ft)	C.Pt.MD (USFt)	C.Pt.TVD (US ft)	Comment
FTP	Point	10022.00	619.90	0.60	419901.80	596566.60	0.01	10395.98	10022.00	

Target set: Roadhouse State #2H Comment:										
Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	C.Pt.Distance (US ft)	C.Pt.MD (USFt)	C.Pt.TVD (US ft)	Comment
LTP	Point	10022.00	7411.00	7.30	426692.90	596573.30	0.03	17187.09	10022.00	
PBHL 2H	Cuboid	10022.00	7541.00	7.40	426822.90	596573.40	0.00	17317.09	10022.00	

Wellpath created using minimum curvature.

Tie Point:

MD: 0.00USFt **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** 0.00USFt **North Offset:** 0.00USFt **East Offset:** 0.00USFt

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9449.04	0.00	0.00	9449.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP-Build @ 10° DLS
10349.04	90.00	0.06	10022.00	572.96	572.96	0.56	0.06	10.00	0.00	10.00	Landing Pt
17187.00	90.00	0.06	10022.00	7410.92	7410.91	7.27	0.00	0.00	0.00	0.00	LTP
17218.00	90.00	0.06	10022.00	7441.92	7441.91	7.30	0.00	0.00	0.00	0.00	330' Offset Crossing
17317.09	90.00	0.06	10022.00	7541.00	7541.00	7.40	0.00	0.00	0.00	0.00	PBHL 2H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)													
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
275.00	0.00	0.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	Rustler :
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
624.00	0.00	0.00	624.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	Top Salt :
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2531.00	0.00	0.00	2531.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	Base Salt :
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2732.00	0.00	0.00	2732.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	Delaware :
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6185.00	0.00	0.00	6185.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	Basal Brushy Canyon :
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6465.00	0.00	0.00	6465.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	Bone Spring :
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7415.00	0.00	0.00	7415.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	1st Bone Spring Ss :
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8219.00	0.00	0.00	8219.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	2nd Bone Spring Ss :
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8800.00	0.00	0.00	8800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
9000.00	0.00	0.00	9000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9100.00	0.00	0.00	9100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
9200.00	0.00	0.00	9200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
9323.00	0.00	0.00	9323.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	3rd Bone Spring Ss :
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	
9449.04	0.00	0.00	9449.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	419281.90	596566.00	KOP-Build @ 10° DLS
9500.00	5.10	0.06	9499.93	2.26	2.26	0.00	0.06	10.00	0.00	10.00	419284.16	596566.00	
9600.00	15.10	0.06	9598.26	19.77	19.77	0.02	0.00	10.00	0.00	10.00	419301.67	596566.02	
9612.20	16.32	0.06	9610.00	23.07	23.07	0.02	0.00	10.00	0.00	10.00	419304.97	596566.02	3rd Bone Spring "Red Hills" :
9683.48	23.44	0.06	9677.00	47.30	47.30	0.05	0.00	10.00	-0.00	10.00	419329.20	596566.05	Wolfcamp :
9700.00	25.10	0.06	9692.05	54.09	54.09	0.05	0.00	10.00	0.00	10.00	419335.99	596566.05	
9713.27	26.42	0.06	9704.00	59.85	59.85	0.06	0.00	10.00	-0.00	10.00	419341.75	596566.06	Wolfcamp X :
9792.14	34.31	0.06	9772.00	99.69	99.69	0.10	0.00	10.00	0.00	10.00	419381.59	596566.10	Wolfcamp Y :
9800.00	35.10	0.06	9778.46	104.17	104.17	0.10	0.00	10.00	0.00	10.00	419386.07	596566.10	
9849.91	40.09	0.06	9818.00	134.61	134.61	0.13	0.00	10.00	-0.00	10.00	419416.51	596566.13	Wolfcamp "A" Shale Top :
9900.00	45.10	0.06	9854.86	168.49	168.49	0.17	0.00	10.00	-0.00	10.00	419450.39	596566.17	
10000.00	55.10	0.06	9918.93	245.11	245.11	0.24	0.00	10.00	0.00	10.00	419527.01	596566.24	
10100.00	65.10	0.06	9968.72	331.69	331.69	0.33	0.00	10.00	-0.00	10.00	419613.59	596566.33	
10200.00	75.10	0.06	10002.72	425.59	425.59	0.42	0.00	10.00	0.00	10.00	419707.49	596566.42	
10300.00	85.10	0.06	10019.90	523.98	523.98	0.51	0.00	10.00	0.00	10.00	419805.88	596566.51	
10347.93	89.89	0.06	10022.00	571.85	571.85	0.56	0.00	10.00	-0.00	10.00	419853.75	596566.56	LP :
10349.04	90.00	0.06	10022.00	572.96	572.96	0.56	0.00	10.00	-0.00	10.00	419854.86	596566.56	Landing Pt
10400.00	90.00	0.06	10022.00	623.92	623.92	0.61	0.00	0.00	0.00	0.00	419905.82	596566.61	
10500.00	90.00	0.06	10022.00	723.92	723.92	0.71	0.00	0.00	0.00	0.00	420005.82	596566.71	
10600.00	90.00	0.06	10022.00	823.92	823.92	0.81	0.00	0.00	0.00	0.00	420105.82	596566.81	
10700.00	90.00	0.06	10022.00	923.92	923.92	0.91	0.00	0.00	0.00	0.00	420205.82	596566.91	
10800.00	90.00	0.06	10022.00	1023.92	1023.92	1.00	0.00	0.00	0.00	0.00	420305.82	596567.00	
10900.00	90.00	0.06	10022.00	1123.92	1123.92	1.10	0.00	0.00	0.00	0.00	420405.82	596567.10	
11000.00	90.00	0.06	10022.00	1223.92	1223.92	1.20	0.00	0.00	0.00	0.00	420505.82	596567.20	
11100.00	90.00	0.06	10022.00	1323.92	1323.92	1.30	0.00	0.00	0.00	0.00	420605.82	596567.30	
11200.00	90.00	0.06	10022.00	1423.92	1423.92	1.40	0.00	0.00	0.00	0.00	420705.82	596567.40	
11300.00	90.00	0.06	10022.00	1523.92	1523.92	1.50	0.00	0.00	0.00	0.00	420805.82	596567.50	
11400.00	90.00	0.06	10022.00	1623.92	1623.92	1.59	0.00	0.00	0.00	0.00	420905.82	596567.59	
11500.00	90.00	0.06	10022.00	1723.92	1723.92	1.69	0.00	0.00	0.00	0.00	421005.82	596567.69	
11600.00	90.00	0.06	10022.00	1823.92	1823.92	1.79	0.00	0.00	0.00	0.00	421105.82	596567.79	
11700.00	90.00	0.06	10022.00	1923.92	1923.92	1.89	0.00	0.00	0.00	0.00	421205.82	596567.89	
11800.00	90.00	0.06	10022.00	2023.92	2023.92	1.99	0.00	0.00	0.00	0.00	421305.82	596567.99	
11900.00	90.00	0.06	10022.00	2123.92	2123.92	2.08	0.00	0.00	0.00	0.00	421405.82	596568.08	

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
12000.00	90.00	0.06	10022.00	2223.92	2223.92	2.18	0.00	0.00	0.00	0.00	421505.82	596568.18	
12100.00	90.00	0.06	10022.00	2323.92	2323.92	2.28	0.00	0.00	0.00	0.00	421605.82	596568.28	
12200.00	90.00	0.06	10022.00	2423.92	2423.92	2.38	0.00	0.00	0.00	0.00	421705.82	596568.38	
12300.00	90.00	0.06	10022.00	2523.92	2523.92	2.48	0.00	0.00	0.00	0.00	421805.82	596568.48	
12400.00	90.00	0.06	10022.00	2623.92	2623.92	2.57	0.00	0.00	0.00	0.00	421905.82	596568.57	
12500.00	90.00	0.06	10022.00	2723.92	2723.92	2.67	0.00	0.00	0.00	0.00	422005.82	596568.67	
12600.00	90.00	0.06	10022.00	2823.92	2823.92	2.77	0.00	0.00	0.00	0.00	422105.82	596568.77	
12700.00	90.00	0.06	10022.00	2923.92	2923.92	2.87	0.00	0.00	0.00	0.00	422205.82	596568.87	
12800.00	90.00	0.06	10022.00	3023.92	3023.92	2.97	0.00	0.00	0.00	0.00	422305.82	596568.97	
12900.00	90.00	0.06	10022.00	3123.92	3123.92	3.07	0.00	0.00	0.00	0.00	422405.82	596569.07	
13000.00	90.00	0.06	10022.00	3223.92	3223.92	3.16	0.00	0.00	0.00	0.00	422505.82	596569.16	
13100.00	90.00	0.06	10022.00	3323.92	3323.92	3.26	0.00	0.00	0.00	0.00	422605.82	596569.26	
13200.00	90.00	0.06	10022.00	3423.92	3423.92	3.36	0.00	0.00	0.00	0.00	422705.82	596569.36	
13300.00	90.00	0.06	10022.00	3523.92	3523.92	3.46	0.00	0.00	0.00	0.00	422805.82	596569.46	
13400.00	90.00	0.06	10022.00	3623.92	3623.92	3.56	0.00	0.00	0.00	0.00	422905.82	596569.56	
13500.00	90.00	0.06	10022.00	3723.92	3723.92	3.65	0.00	0.00	0.00	0.00	423005.82	596569.65	
13600.00	90.00	0.06	10022.00	3823.92	3823.92	3.75	0.00	0.00	0.00	0.00	423105.82	596569.75	
13700.00	90.00	0.06	10022.00	3923.92	3923.92	3.85	0.00	0.00	0.00	0.00	423205.82	596569.85	
13800.00	90.00	0.06	10022.00	4023.92	4023.92	3.95	0.00	0.00	0.00	0.00	423305.82	596569.95	
13900.00	90.00	0.06	10022.00	4123.92	4123.92	4.05	0.00	0.00	0.00	0.00	423405.82	596570.05	
14000.00	90.00	0.06	10022.00	4223.92	4223.92	4.14	0.00	0.00	0.00	0.00	423505.82	596570.14	
14100.00	90.00	0.06	10022.00	4323.92	4323.92	4.24	0.00	0.00	0.00	0.00	423605.82	596570.24	
14200.00	90.00	0.06	10022.00	4423.92	4423.92	4.34	0.00	0.00	0.00	0.00	423705.82	596570.34	
14300.00	90.00	0.06	10022.00	4523.92	4523.92	4.44	0.00	0.00	0.00	0.00	423805.82	596570.44	
14400.00	90.00	0.06	10022.00	4623.92	4623.92	4.54	0.00	0.00	0.00	0.00	423905.82	596570.54	
14500.00	90.00	0.06	10022.00	4723.92	4723.92	4.64	0.00	0.00	0.00	0.00	424005.82	596570.64	
14600.00	90.00	0.06	10022.00	4823.92	4823.92	4.73	0.00	0.00	0.00	0.00	424105.82	596570.73	
14700.00	90.00	0.06	10022.00	4923.92	4923.92	4.83	0.00	0.00	0.00	0.00	424205.82	596570.83	
14800.00	90.00	0.06	10022.00	5023.92	5023.92	4.93	0.00	0.00	0.00	0.00	424305.82	596570.93	
14900.00	90.00	0.06	10022.00	5123.92	5123.92	5.03	0.00	0.00	0.00	0.00	424405.82	596571.03	
15000.00	90.00	0.06	10022.00	5223.92	5223.92	5.13	0.00	0.00	0.00	0.00	424505.82	596571.13	
15100.00	90.00	0.06	10022.00	5323.92	5323.92	5.22	0.00	0.00	0.00	0.00	424605.82	596571.22	
15200.00	90.00	0.06	10022.00	5423.92	5423.92	5.32	0.00	0.00	0.00	0.00	424705.82	596571.32	
15300.00	90.00	0.06	10022.00	5523.92	5523.92	5.42	0.00	0.00	0.00	0.00	424805.82	596571.42	
15400.00	90.00	0.06	10022.00	5623.92	5623.92	5.52	0.00	0.00	0.00	0.00	424905.82	596571.52	
15500.00	90.00	0.06	10022.00	5723.92	5723.92	5.62	0.00	0.00	0.00	0.00	425005.82	596571.62	
15600.00	90.00	0.06	10022.00	5823.92	5823.91	5.72	0.00	0.00	0.00	0.00	425105.81	596571.72	
15700.00	90.00	0.06	10022.00	5923.92	5923.91	5.81	0.00	0.00	0.00	0.00	425205.81	596571.81	
15800.00	90.00	0.06	10022.00	6023.92	6023.91	5.91	0.00	0.00	0.00	0.00	425305.81	596571.91	
15900.00	90.00	0.06	10022.00	6123.92	6123.91	6.01	0.00	0.00	0.00	0.00	425405.81	596572.01	
16000.00	90.00	0.06	10022.00	6223.92	6223.91	6.11	0.00	0.00	0.00	0.00	425505.81	596572.11	

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	T.Face (°)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
16100.00	90.00	0.06	10022.00	6323.92	6323.91	6.21	0.00	0.00	0.00	0.00	425605.81	596572.21	
16200.00	90.00	0.06	10022.00	6423.92	6423.91	6.30	0.00	0.00	0.00	0.00	425705.81	596572.30	
16300.00	90.00	0.06	10022.00	6523.92	6523.91	6.40	0.00	0.00	0.00	0.00	425805.81	596572.40	
16400.00	90.00	0.06	10022.00	6623.92	6623.91	6.50	0.00	0.00	0.00	0.00	425905.81	596572.50	
16500.00	90.00	0.06	10022.00	6723.92	6723.91	6.60	0.00	0.00	0.00	0.00	426005.81	596572.60	
16600.00	90.00	0.06	10022.00	6823.92	6823.91	6.70	0.00	0.00	0.00	0.00	426105.81	596572.70	
16700.00	90.00	0.06	10022.00	6923.92	6923.91	6.79	0.00	0.00	0.00	0.00	426205.81	596572.79	
16800.00	90.00	0.06	10022.00	7023.92	7023.91	6.89	0.00	0.00	0.00	0.00	426305.81	596572.89	
16900.00	90.00	0.06	10022.00	7123.92	7123.91	6.99	0.00	0.00	0.00	0.00	426405.81	596572.99	
17000.00	90.00	0.06	10022.00	7223.92	7223.91	7.09	0.00	0.00	0.00	0.00	426505.81	596573.09	
17100.00	90.00	0.06	10022.00	7323.92	7323.91	7.19	0.00	0.00	0.00	0.00	426605.81	596573.19	
17187.00	90.00	0.06	10022.00	7410.92	7410.91	7.27	0.00	0.00	0.00	0.00	426692.81	596573.27	LTP
17200.00	90.00	0.06	10022.00	7423.92	7423.91	7.29	0.00	0.00	0.00	0.00	426705.81	596573.29	
17218.00	90.00	0.06	10022.00	7441.92	7441.91	7.30	0.00	0.00	0.00	0.00	426723.81	596573.30	330' Offset Crossing
17300.00	90.00	0.06	10022.00	7523.92	7523.91	7.38	0.00	0.00	0.00	0.00	426805.81	596573.38	
17317.09	90.00	0.06	10022.00	7541.00	7541.00	7.40	0.00	0.00	0.00	0.00	426822.90	596573.40	PBHL 2H

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD below Slot (US ft)	Comment
Wolfcamp "A" Shale Base	N/A	0.00	0.00	10126.00	10126.00	
Rustler	275.00	0.00	0.00	275.00	275.00	
Top Salt	624.00	0.00	0.00	624.00	624.00	
Base Salt	2531.00	0.00	0.00	2531.00	2531.00	
Delaware	2732.00	0.00	0.00	2732.00	2732.00	
Basal Brushy Canyon	6185.00	0.00	0.00	6185.00	6185.00	
Bone Spring	6465.00	0.00	0.00	6465.00	6465.00	
1st Bone Spring Ss	7415.00	0.00	0.00	7415.00	7415.00	
2nd Bone Spring Ss	8219.00	0.00	0.00	8219.00	8219.00	
3rd Bone Spring Ss	9323.00	0.00	0.00	9323.00	9323.00	
3rd Bone Spring "Red Hills"	9612.20	16.32	0.06	9610.00	9610.00	
Wolfcamp	9683.48	23.44	0.06	9677.00	9677.00	
Wolfcamp X	9713.27	26.42	0.06	9704.00	9704.00	
Wolfcamp Y	9792.14	34.31	0.06	9772.00	9772.00	
Wolfcamp "A" Shale Top	9849.91	40.09	0.06	9818.00	9818.00	
LP	10347.93	89.89	0.06	10022.00	10022.00	

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

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

GRADE D PRESSURE TEST CERTIFICATE

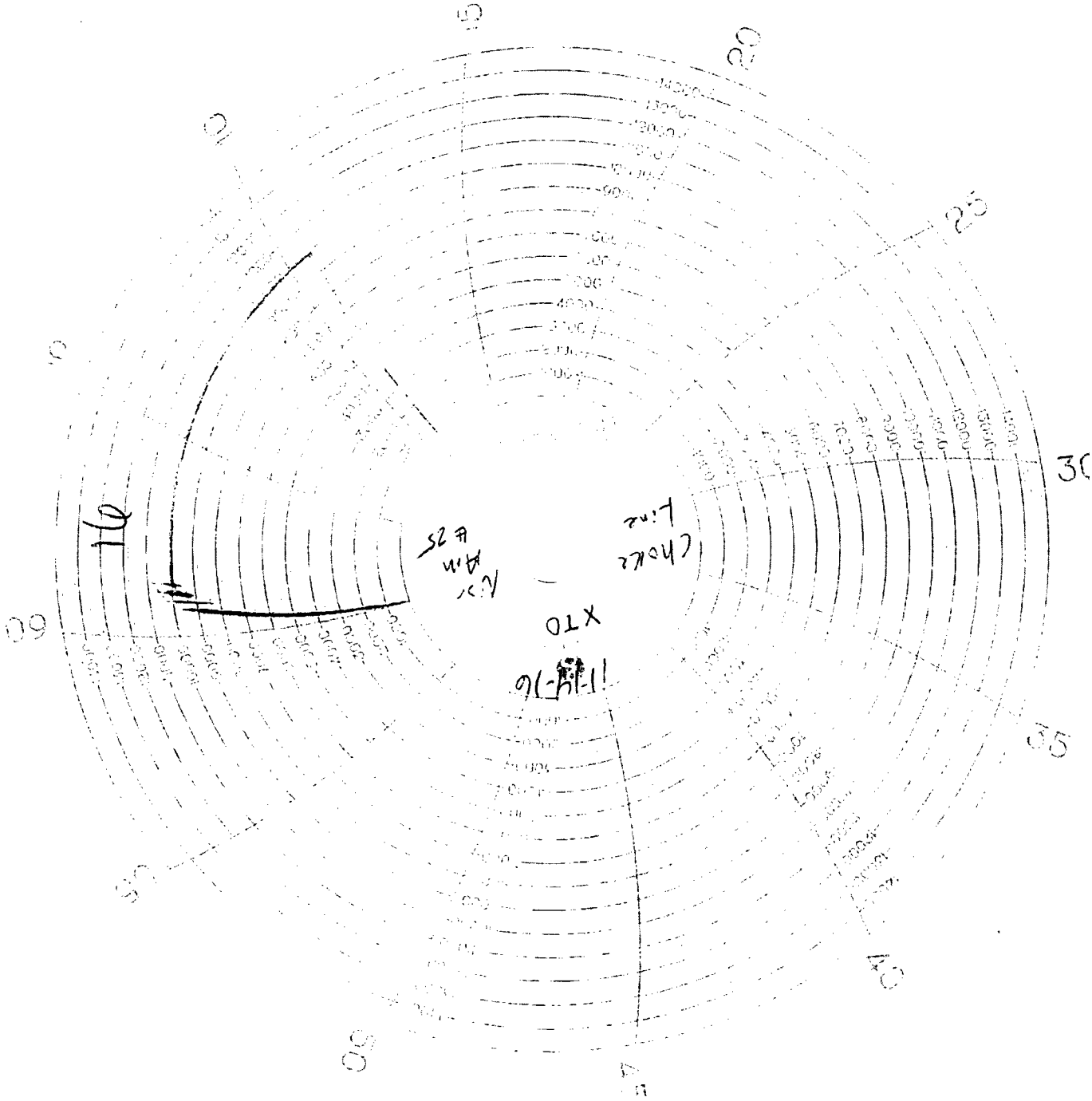
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/6/2014
Customer Ref. :	PENDING	Hose Serial No..	D-060814-1
Invoice No. :	201709	Created By.	NORMA

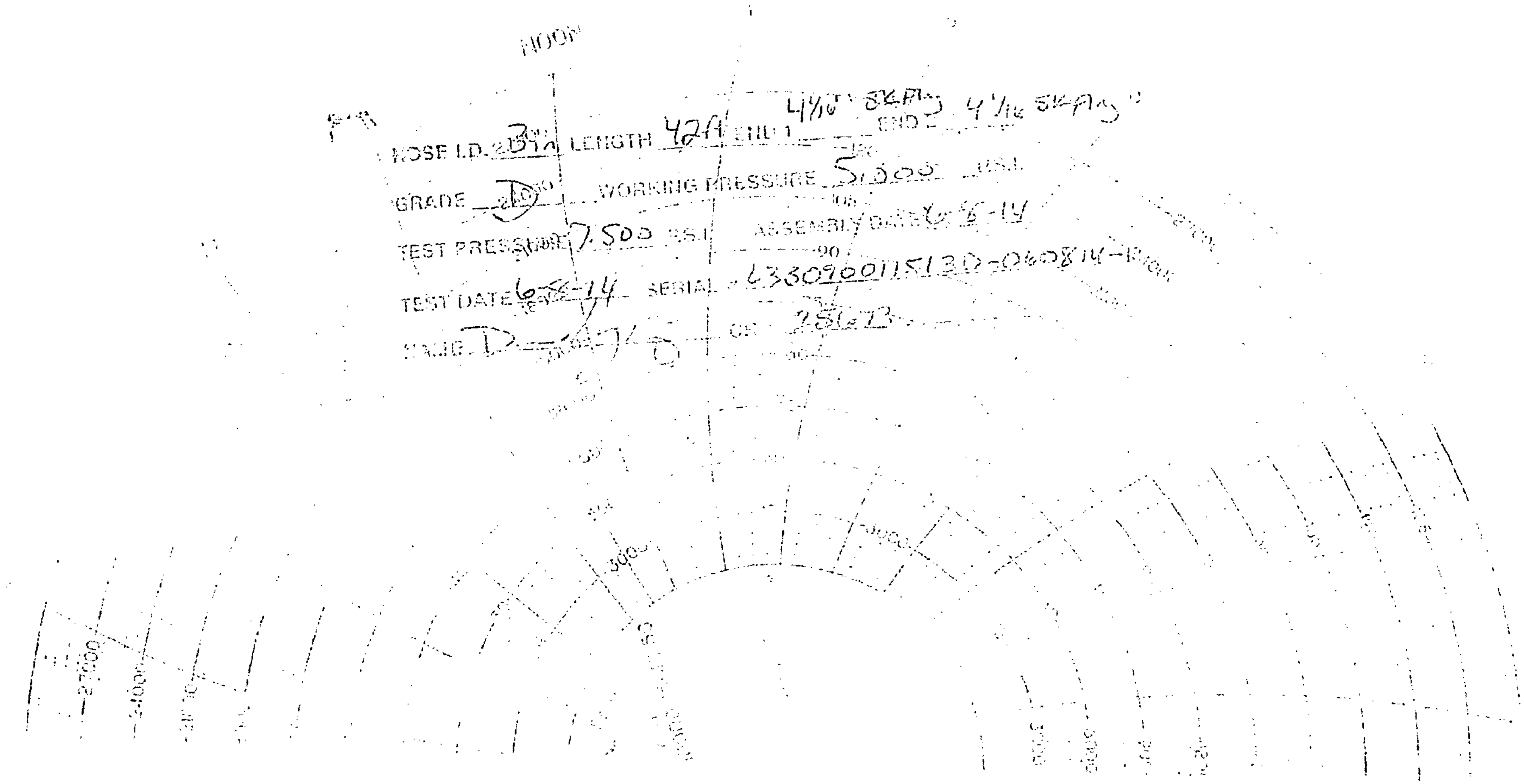
Product Description:	FD3.0-2.0R41/16.5KFLGE/E LE

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

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

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




NOON
HOSE I.D. 3" LENGTH 42ft END 1 4 1/16" 5K Flg END 2 4 1/16 5K Flg
GRADE D WORKING PRESSURE 5,000 P.S.I.
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-6-14
TEST DATE 6-6-14 SERIAL 6330960115130-060814-R
OR 28673
27000
24000
3000
3000

APD ID: 10400024217 **Submission Date:** 11/02/2017

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Well Type: CONVENTIONAL GAS WELL **Well Work Type:** Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Roadhouse_Fed_2H_Vic_20180227052949.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT **Row(s) Exist?** NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Roadhouse_Fed_2H_Road_20180227053002.pdf

New road type: RESOURCE

Length: 303 Feet **Width (ft.):** 30

Max slope (%): 2 **Max grade (%):** 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

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

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Surface material will be native caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
Access other construction information: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.
Access miscellaneous information:

Number of access turnouts: 1 **Access turnout map:**

Drainage Control

New road drainage crossing: OTHER

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

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Roadhouse_Fed_2H_1_Mile_20171102062928.pdf

Existing Wells description:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production facilities are located in Section 6-T25S-R29E and are already built as a state land facility. No additional surface disturbance is associated with this facility. The facility location did not require an onsite at the time of permitting as it was originally staked and permitted as a state facility. No new surface disturbance is associated with this facility.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. 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. Flowlines: 5 surface flowlines will be necessary for the wells located on the pad. All surface flowlines will be 4" or less made of flexpipe or steel with a maximum operating pressure of 125psi and a safety rating of 750psi for full-stream (transporting: oil, gas, water). An additional 5 HP (Operating: 725psi, Max: 1250psi) flowlines will be buried a min. of 36" within the existing road corridors for gas lift purposes (transporting: gas). The total approximate distance of each surface and buried flowline is as follows: i. Cattle Baron Federal 2H: 2375' ii. Roadhouse Federal 1H: 2375' iii. Roadhouse Federal 2H: 2375' iv. Golden Corral Federal 2H: 2375' v. Sizzler Federal 2H: 2375' Electrical: All electrical poles and lines will be placed within existing and proposed lease roads corridors. Approximately 2545' of12,740 volt electrical will be run from the anticipated tie-in point from an existing well pad going cross-country then joining with proposed road corridors with a request for 30' ROW construction and maintenance buffer; 15' on either side of the electrical centerline. This distance is a maximum approximation and may vary based on the lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached. Gas Sales Line: The Goldenchild Tank Battery is already connected to a gas sales line. No additional disturbance is necessary for gas sales purposes.

Production Facilities map:

Roadhouse_Fed_1H_CTB_20180227053029.pdf

Roadhouse_Fed_2H_FL_20180227053038.pdf

Roadhouse_Fed_2H_OHE_20180227053046.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

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

Water source type: OTHER

Describe type: Fresh Water; 6-T26S-R30E

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT,PRIVATE CONTRACT

Source land ownership: FEDERAL

Water source transport method: TRUCKING,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 85000

Source volume (acre-feet): 10.955914

Source volume (gal): 3570000

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING
Describe type: Fresh Water; 5-T26S-R30E

Water source type: OTHER

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT,PRIVATE CONTRACT,PRIVATE CONTRACT
Source land ownership: FEDERAL

Water source transport method: TRUCKING,TRUCKING,TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 85000

Source volume (acre-feet): 10.955914

Source volume (gal): 3570000

Water source and transportation map:

Roadhouse_Fed_2H_Vic_20180227053121.pdf

Water source comments: The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to the anticipated pit in Section 6 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. Water for drilling, completion and dust control will be supplied by Rockhouse Water for sale to XTO Energy, Inc. from Section 5-T26S-R30E, Eddy County, New Mexico. In the event that the well 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 well being in Section 6-T26S-R30E, Eddy County, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.
New water well? NO

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

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

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

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

New water well casing? **Used casing source:**

Drilling method: **Drill material:**

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche. Anticipated Caliche Locations: a. Pit 1: Federal Caliche Pit, Section 2-T24S-R29E b. Pit 2: State Caliche Pit, Section 22-T25S-R28E
Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Cuttings

Amount of waste: 2100 pounds

Waste disposal frequency : One Time Only

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

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

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

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 250 gallons

Waste disposal frequency : Weekly

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

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

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of human waste.

Waste type: GARBAGE

Waste content description: Garbage, junk and non-flammable waste materials

Amount of waste: 250 pounds

Waste disposal frequency : Weekly

Safe containment description: All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approve sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.
Safe containmant attachment:

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

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

Waste type: DRILLING

Waste content description: Fluid

Amount of waste: 500 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel mud pits

Safe containmant attachment:

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

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

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

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

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

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

Cuttings area length (ft.) **Cuttings area width (ft.)**

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

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Roadhouse_Fed_2H_Well_20180227053145.pdf

Roadhouse_Fed_2H_Topo_20180227053153.pdf

Comments: This location is already built as was originally permitted as a New Mexico State land well. XTO Energy, Inc. built the location as permitted under State conditions. The decision was later made to extend the lateral into a 40-acre Federal mineral tract so as to not strand Federal acreage. Original New Mexico State permits for all wells on the pad are attached as issued by the NMOCD.

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** STEAKHOUSE

Multiple Well Pad Number: 2

Recontouring attachment:

Roadhouse_Fed_2H_Int_Rec_20171102063130.pdf

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

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

Well pad proposed disturbance (acres): 6.24
Road proposed disturbance (acres): 0.208
Powerline proposed disturbance (acres): 0
Pipeline proposed disturbance (acres): 0
Other proposed disturbance (acres): 0
Total proposed disturbance: 6.448

Well pad interim reclamation (acres): 0.063
Road interim reclamation (acres): 0
Powerline interim reclamation (acres): 0
Pipeline interim reclamation (acres): 0
Other interim reclamation (acres): 0
Total interim reclamation: 0.063

Well pad long term disturbance (acres): 6.177
Road long term disturbance (acres): 0.208
Powerline long term disturbance (acres): 0
Pipeline long term disturbance (acres): 0
Other long term disturbance (acres): 0
Total long term disturbance: 6.385

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

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

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

Existing Vegetation at the well pad: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.
Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.
Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type: **Seed source:**

Seed name:

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre: **Proposed seeding season:**

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Jeff **Last Name:** Raines

Phone: (432)620-4349 **Email:** jeffrey_raines@xtoenergy.com

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

Existing invasive species treatment description:

Existing invasive species treatment attachment:

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

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

Success standards: 100% compliance with applicable regulations.

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

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

Operator Name: XTO ENERGY INCORPORATED

Well Name: ROADHOUSE FEDERAL **Well Number:** 2H

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: NEW MEXICO STATE LAND OFFICE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

Section 12 - Other Information

Right of Way needed? YES **Use APD as ROW?** YES

ROW Type(s): 281001 ROW - ROADS,289001 ROW- O&G Well Pad

ROW Applications

SUPO Additional Information: See Attached. NMOCD permit was issued when well was a 1-mile lateral. XTO decided to extend lateral to a 1.5 mile lateral to prevent stranding acreage. Federal minerals are associated only with the 'toe' of the well or the last 40-acre tract.This location is already built as was originally permitted as a New Mexico State land well. XTO Energy, Inc. built the location as permitted under State conditions. The decision was later made to extend the lateral into a 40-acre Federal mineral tract so as to not strand Federal acreage. Original New Mexico State permits for all wells on the pad are attached as issued by the NMOCD

Use a previously conducted onsite? NO

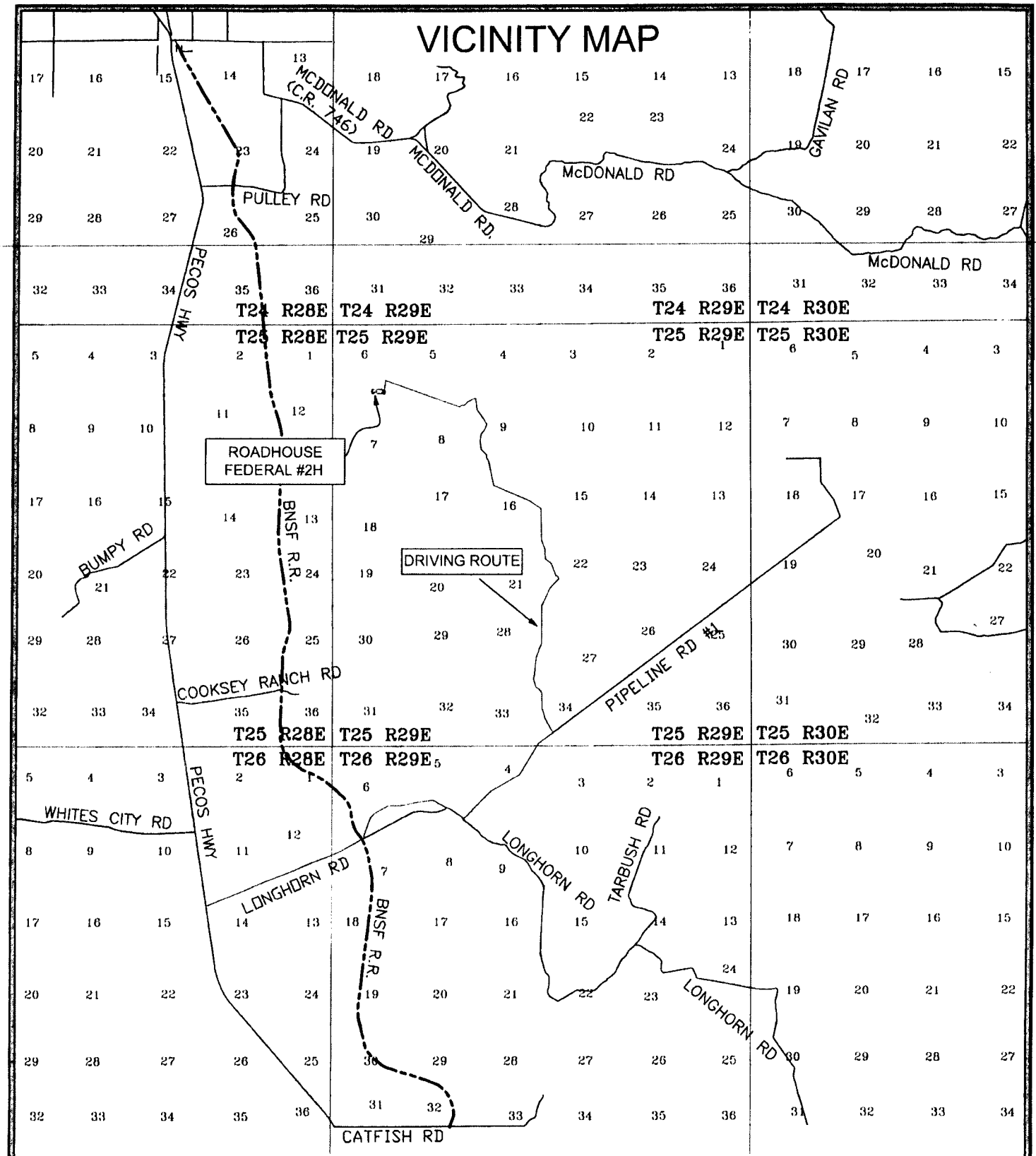
Previous Onsite information:

Other SUPO Attachment

Roadhouse_Fed_2H_NM_Per_20171102063251.pdf

Roadhouse_Fed_2H_SUPO1_20180305115758.pdf

VICINITY MAP

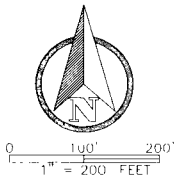


ROADHOUSE FEDERAL #2H LOCATED 180 FEET FROM THE SOUTH LINE AND 2,040 FEET FROM THE EAST LINE OF SECTION 6, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

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

DATE:	2-21-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	RE/RR
PROJECT NO:	2017081416
SCALE:	1"= 10,000'
SHEET:	1 OF 1
REVISION:	NO



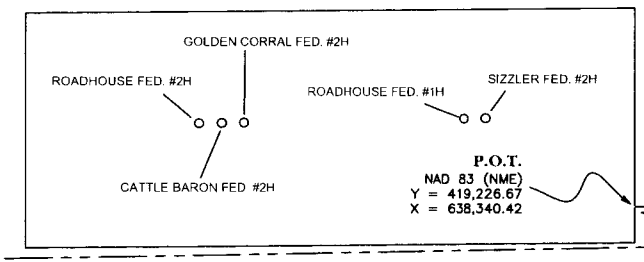
SECTION 6
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

RESTAURANT ROW FEDERAL PROPOSED ACCESS ROAD DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 303 FEET, 18.36 RODS, OR 0.06 MILES IN LENGTH CROSSING SECTION 6, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 0.20 OF AN ACRE.

LEGEND

	SECTION LINE
	EXISTING ROAD
	PROPOSED PAD
	PROPOSED ROAD CENTERLINE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED



P.O.B.
NAD 83 (NME)
Y = 419,409.38
X = 638,461.38

183'

120'

S 80°54'21" E 1,344.82' (TIE)

1" CAPPED IRON PIPE FOUND IN ROCK MOUND

5

8

S 88°49'11" E
1,449.18' (TIE)

SECTION 7
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).
3. SECTION LINES AND SURFACE HOLES WERE DONE BY AN ON THE GROUND SURVEY, ALL OTHER INFORMATION SHOWN ON THIS PLAT WAS PROVIDED BY XTO ENERGY, INC.

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

DATE:	2-21-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010380
SCALE:	1" = 200'
SHEET:	1 OF 1
REVISION:	NONE

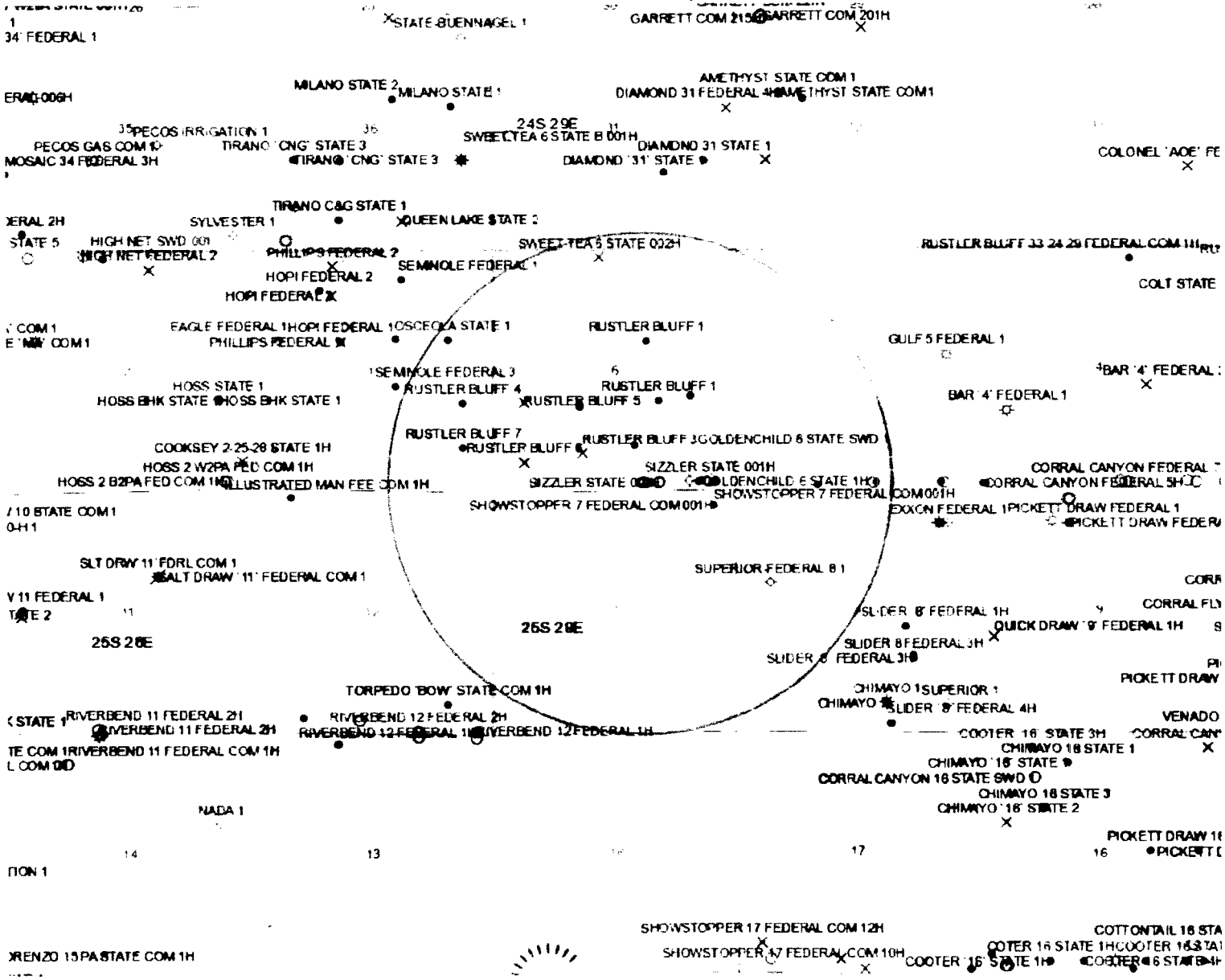
PLAT OF:
PROPOSED CENTERLINE OF ACCESS ROAD FOR:
XTO ENERGY, INC.
RESTAURANT ROW FEDERAL
SITUATED IN SECTION 6, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO

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

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

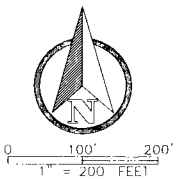
Roadhouse Federal 2H

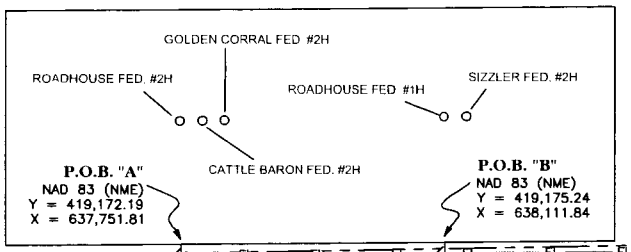
1-Mile Radius Map



RESTAURANT ROW FEDERAL PROPOSED FLOW LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 2,375 FEET, 143.94 RODS, OR 0.45 MILES IN LENGTH CROSSING SECTIONS 6 AMD 7, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF FLOW LINE SURVEY, COMPRISING OF 1.67 ACRES.





FACILITY PAD

P.O.T. "A"
NAD 83 (NME)
Y = 419,843.30
X = 639,523.43

S 22°21'17" E 699.01' (TIE)

TOTAL DISTANCE OF FLOW LINE 2,375'

1" CAPPED IRON PIPE FOUND IN ROCK MOUND

5

8

15'

15'

P.O.T. "B"
NAD 83 (NME)
Y = 419,160.24
X = 638,111.97

N 89°18'26" E
2,037.64' (TIE)

SECTION 6
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

SECTION 7
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).
3. SECTION LINES AND SURFACE HOLES WERE DONE BY AN ON THE GROUND SURVEY, ALL OTHER INFORMATION SHOWN ON THIS PLAT WAS PROVIDED BY XTO ENERGY, INC.

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

DATE:	2-23-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010380
SCALE:	1" = 200'
SHEET:	1 OF 1
REVISION:	NONE

PLAT OF:
PROPOSED CENTERLINE OF BURIED AND SURFACE FLOW LINES FOR:
XTO ENERGY, INC.
RESTAURANT ROW FEDERAL
SITUATED IN SECTIONS 6 AND 7, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO

LEGEND

— — — —	SECTION LINE
————	EXISTING ROAD
————	PROPOSED PAD
— FL — FL —	PROPOSED BURIED AND SURFACE FLOW LINE CENTERLINE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED

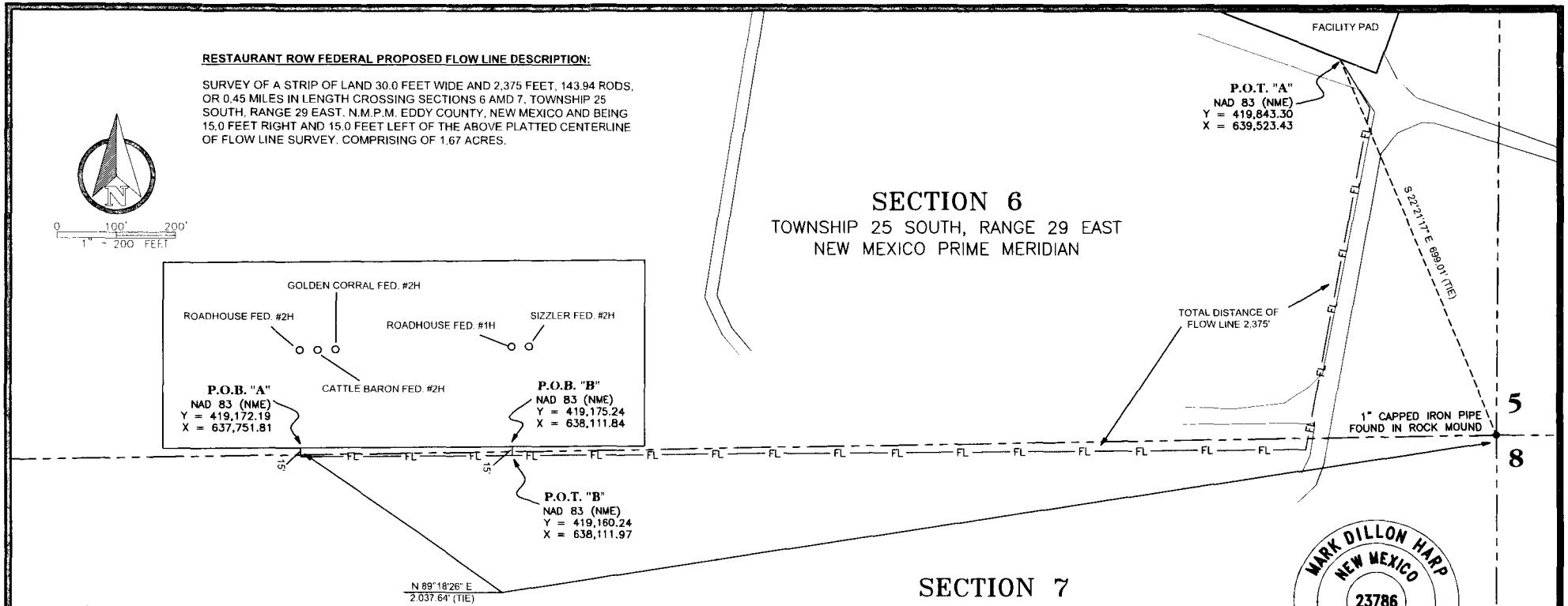
MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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

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

RESTAURANT ROW FEDERAL PROPOSED FLOW LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 2,375 FEET, 143.94 RODS, OR 0.45 MILES IN LENGTH CROSSING SECTIONS 6 AMD 7, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF FLOW LINE SURVEY. COMPRISING OF 1.67 ACRES.



SECTION 6
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

SECTION 7
TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

GENERAL NOTES

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

DATE:	2-23-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010380
SCALE:	1" = 200'
SHEET:	1 OF 1
REVISION:	NONE

PLAT OF:
PROPOSED CENTERLINE OF BURIED AND SURFACE FLOW LINES FOR:

XTO ENERGY, INC.

RESTAURANT ROW FEDERAL

SITUATED IN SECTIONS 6 AND 7, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRIME MERIDIAN, EDDY COUNTY, NEW MEXICO

LEGEND

——— - - ———	SECTION LINE
——— - - ———	EXISTING ROAD
———	PROPOSED PAD
—FL——FL—	PROPOSED BURIED AND SURFACE FLOW LINE CENTERLINE
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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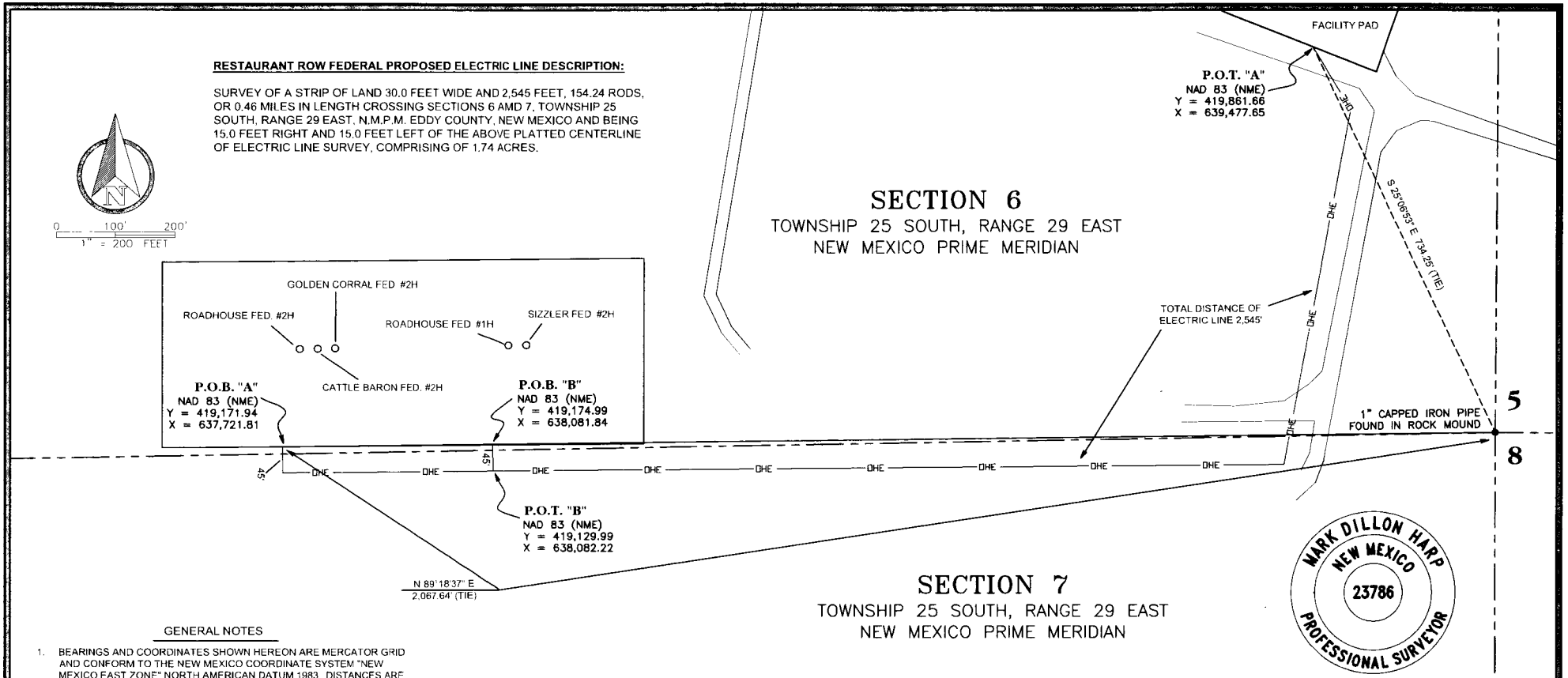
MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

RESTAURANT ROW FEDERAL PROPOSED ELECTRIC LINE DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 2,545 FEET, 154.24 RODS, OR 0.46 MILES IN LENGTH CROSSING SECTIONS 6 AMD 7, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ELECTRIC LINE SURVEY, COMPRISING OF 1.74 ACRES.



GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).
3. SECTION LINES AND SURFACE HOLES WERE DONE BY AN ON THE GROUND SURVEY. ALL OTHER INFORMATION SHOWN ON THIS PLAT WAS PROVIDED BY XTO ENERGY, INC.

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

DATE:	2-23-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	
PROJECT NO:	2018010380
SCALE:	1" = 200'
SHEET:	1 OF 1
REVISION:	NONE

PLAT OF:
PROPOSED CENTERLINE OF
ELECTRIC LINE EASEMENT FOR:

XTO ENERGY, INC.

RESTAURANT ROW FEDERAL

SITUATED IN SECTIONS 6 AND 7,
TOWNSHIP 25 SOUTH, RANGE 29 EAST,
NEW MEXICO PRIME MERIDIAN,
EDDY COUNTY, NEW MEXICO

LEGEND

———	SECTION LINE
———	EXISTING ROAD
———	PROPOSED PAD
——OHE——	PROPOSED OVERHEAD ELECTRIC
P.O.B.	POINT OF BEGINNING
P.O.T.	POINT OF TERMINUS
●	FOUND MONUMENT AS NOTED

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

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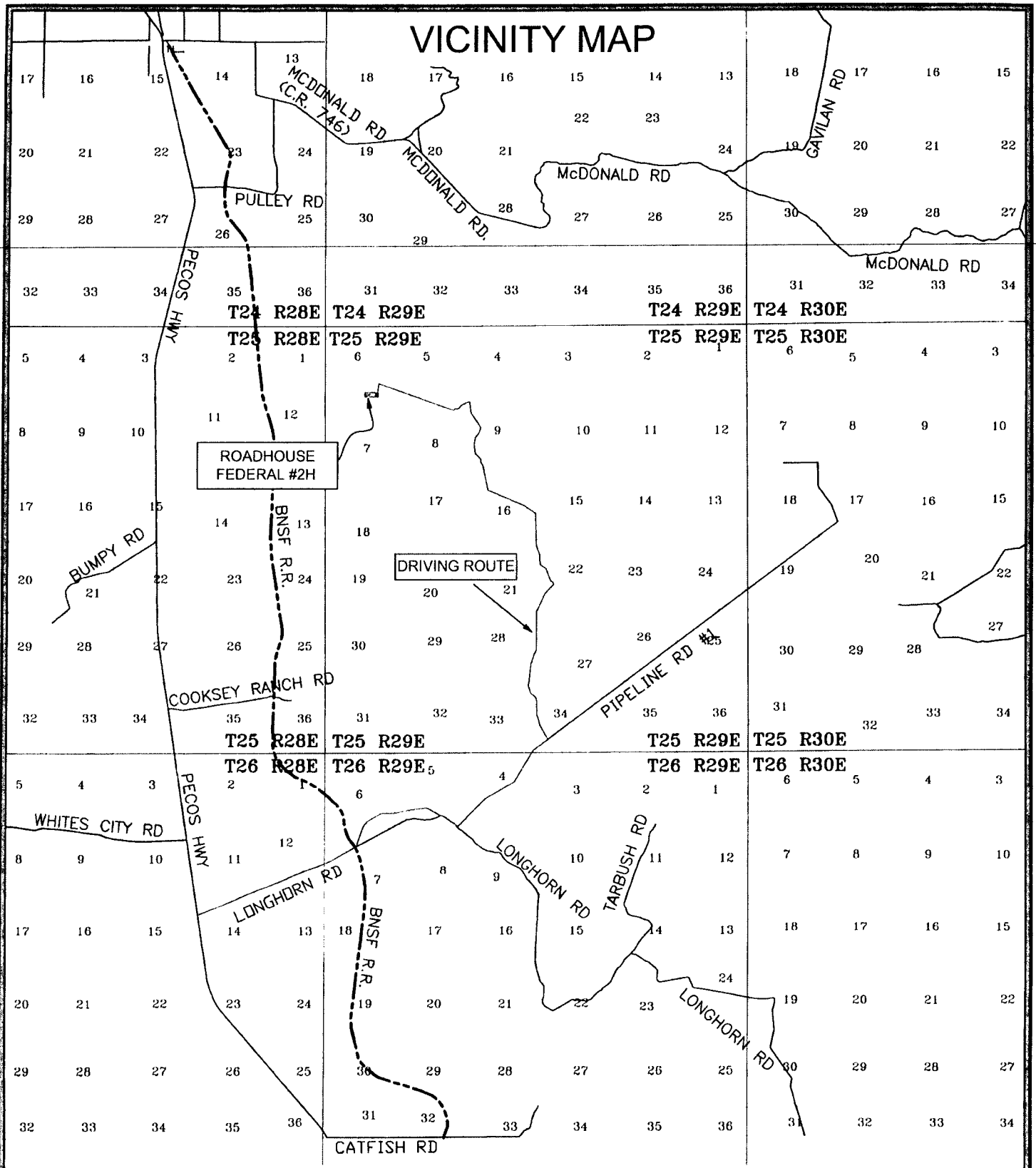
MARK DILLON HARP
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO NO. 23786

VICINITY MAP



ROADHOUSE FEDERAL #2H LOCATED 180 FEET FROM THE SOUTH LINE AND 2,040 FEET FROM THE EAST LINE OF SECTION 6, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

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

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TBPE Firm 17957 | TBPLS Firm 10193887
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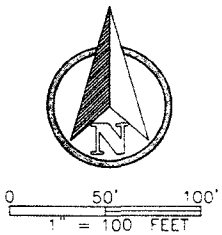
DATE:	2-21-2018
DRAWN BY:	AI
CHECKED BY:	DH
FIELD CREW:	RE/RR
PROJECT NO:	2017081416
SCALE:	1"= 10,000'
SHEET:	1 OF 1
REVISION:	NO

WELL SITE PLAN



LEGEND

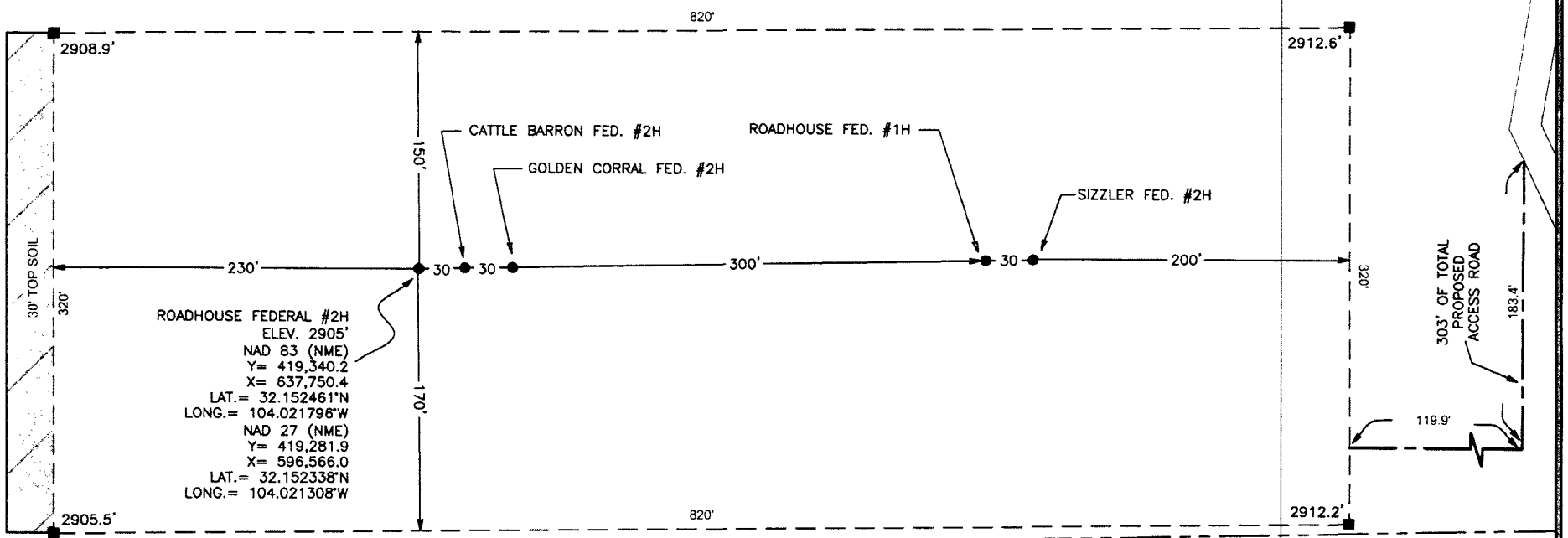
PROPOSED ACCESS RD.

PROPOSED PAD

EXISTING ROAD

SECTION 6

TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN



SECTION 7

TOWNSHIP 25 SOUTH, RANGE 29 EAST
NEW MEXICO PRIME MERIDIAN

NOTE:

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

DIRECTIONS TO THIS LOCATION:

FROM THE INTERSECTION OF HIGHWAY 285 (PECOS HWY.) AND CO. RD. 725 (LONGHORN ROAD), GO NORTHEAST ON CO. RD. 725 APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ONTO LONGHORN RD. AND GO APPROX. 1.8 MILES. TURN LEFT AT "Y" AND GO NORTH-NORTHEASTERLY ALONG MEANDERING ROAD APPROX. 1.8 MILES. TURN LEFT AND GO NORTH APPROX. 3.4 MILES TO "Y" INTERSECTION. TURN LEFT AND GO NORTHWEST THEN NORTH APPROX. 2.2 MILES. TURN LEFT AND GO SOUTHWEST APPROX. 0.2 MILES TO A "Y" INTERSECTION. TURN RIGHT AND GO NORTHWEST APPROX. 1.1 MILES. TURN LEFT AND GO SOUTH APPROX. 0.1 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHWEST.

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XTO ENERGY, INC.

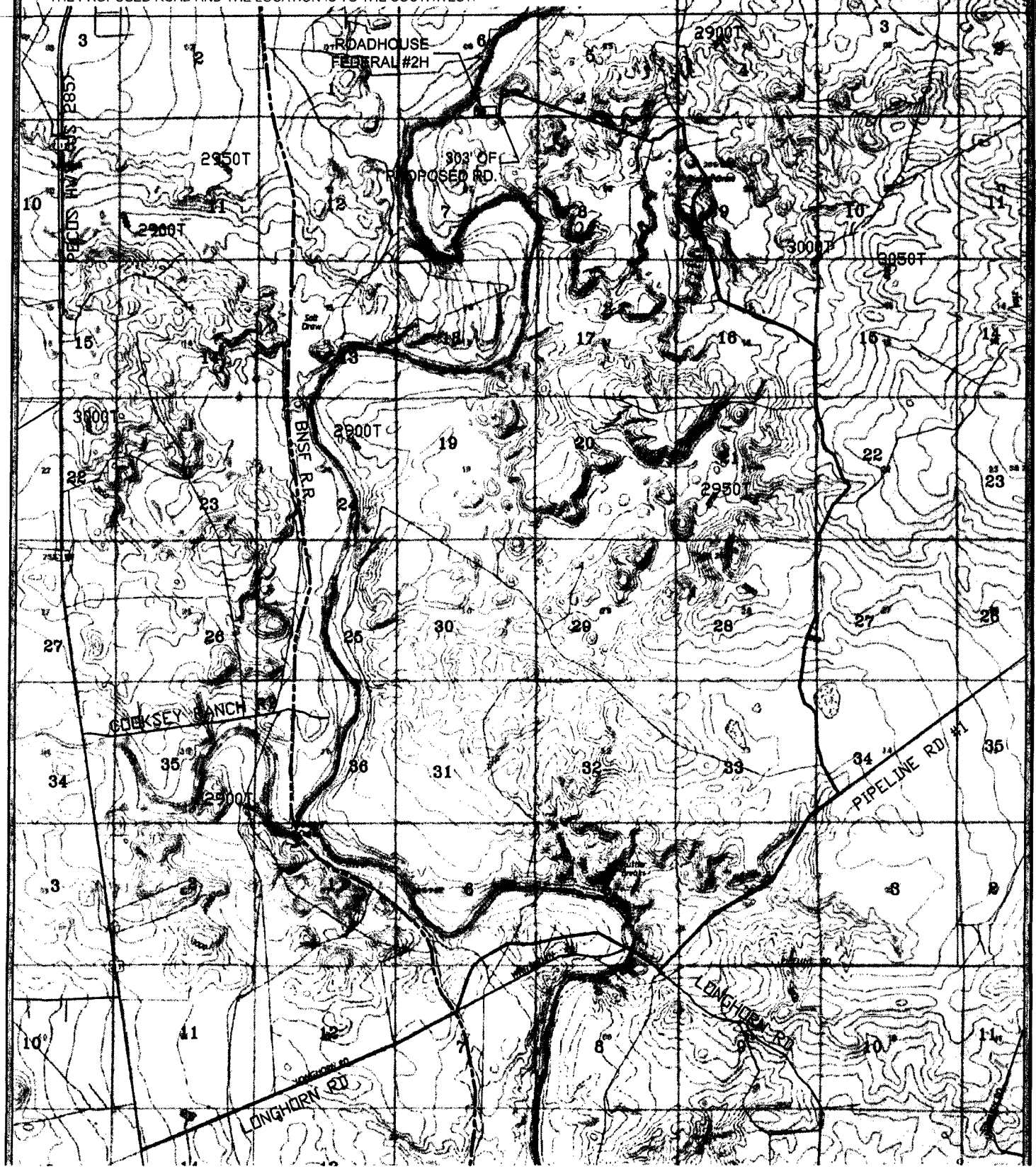
ROADHOUSE FEDERAL #2H LOCATED 180 FEET FROM THE SOUTH LINE AND 2,040 FEET FROM THE EAST LINE OF SECTION 6, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO

DATE:	02-20-2018	PROJECT NO:	2017081416
DRAWN BY:	AI	SCALE:	1" = 100'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:		REVISION:	NO

TOPOGRAPHICAL AND ACCESS ROAD MAP

DIRECTIONS TO THIS LOCATION:

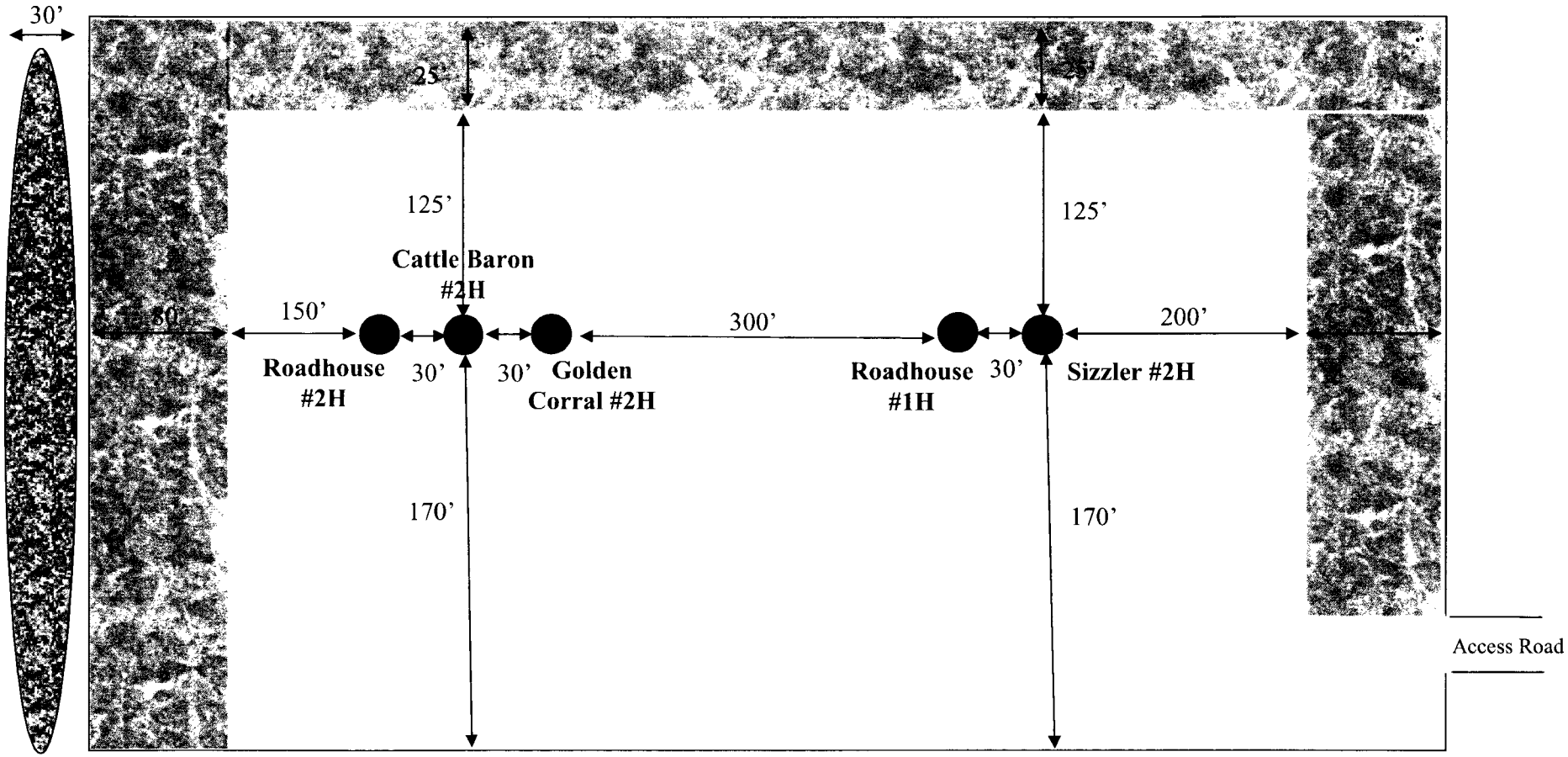
FROM THE INTERSECTION OF HIGHWAY 285 (PECOS HWY.) AND CO. RD. 725 (LONGHORN ROAD), GO NORTHEAST ON CO. RD. 725 APPROX. 4.2 MILES. TURN LEFT (NORTHEAST) ONTO LONGHORN RD. AND GO APPROX. 1.8 MILES. TURN LEFT AT "Y" AND GO NORTH-NORTHEASTERLY ALONG MEANDERING ROAD APPROX. 1.8 MILES. TURN LEFT AND GO NORTH APPROX. 3.4 MILES TO "Y" INTERSECTION. TURN LEFT AND GO NORTHWEST THEN NORTH APPROX. 2.2 MILES. TURN LEFT AND GO SOUTHWEST APPROX. 0.2 MILES TO A "Y" INTERSECTION. TURN RIGHT AND GO NORTHWEST APPROX. 1.1 MILES. TURN LEFT AND GO SOUTH APPROX. 0.1 MILES ARRIVING AT THE PROPOSED ROAD AND THE LOCATION IS TO THE SOUTHWEST.



Interim Reclamation Diagram

Roadhouse Federal #2H, Cattle baron Federal #2H, Golden Corral Federal #2H, Roadhouse Federal #1H, Sizzler Federal #2H

V-Door East (All Wells)



N

LEGEND

Wellbore

Interim Reclamation

Ditch & Berm

Topsoil

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 238086

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address		2. OGRID Number
XTO ENERGY, INC 9193 S. Jamaica St. Englewood, CO 80155		5380
		3. API Number 30-015-44279
4. Property Code 318096	5. Property Name ROADHOUSE STATE	6. Well No. 002H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	6	25S	29E		180	S	2040	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	6	25S	29E	2	200	N	2040	E	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		State	2905
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	14484	Wolfcamp		
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

X **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	574	543	0
Int1	12.25	9.625	36	2682	635	0
Prod	8.5	5.5	17	14484	1848	2182

Casing/Cement Program: Additional Comments

Production: 8-3/4" hole fr/0-10322'. 8-1/2" hole fr/10322-14484'. 5-1/2" P-110 csg will be run fr/0-14484' & cemented to surf.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC X and/or 19.15.14.9 (B) NMAC X, if applicable.** Signature:		**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Janice Farnsworth	Approved By:	Raymond Podany	
Title:	Regulatory Compliance Tech	Title:	Geologist	
Email Address:	Janice_Farnsworth@xtoenergy.com	Approved Date:	6/27/2017	Expiration Date: 6/27/2019
Date:	6/22/2017 Phone: 303-397-3676	Conditions of Approval Attached		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011

Permit 238086

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code	3. Pool Name
30-015-44279	98220	PURPLE SAGE;WOLFCAMP (GAS)
4. Property Code	**5. Property Name**	**6. Well No.**
318096	ROADHOUSE STATE	002H
7. OGRID No.	**8. Operator Name**	**9. Elevation**
5380	XTO ENERGY, INC	2905

10. Surface Location

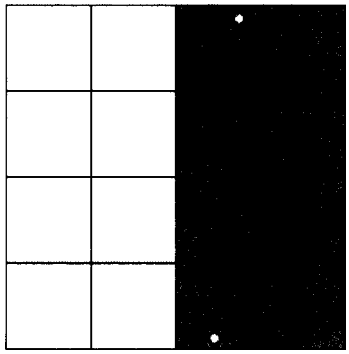
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	6	25S	29E		180	S	2040	E	Eddy

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	6	25S	29E	2	200	N	1680	E	Eddy

12. Dedicated Acres	13. Joint or Infill	14. Consolidation Code	15. Order No.
320.00			

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Janice Farnsworth
Title: Regulatory Compliance Tech
Date: 6/22/2017

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.

Surveyed By: Ronald Eidson
Date of Survey: 6/9/2017
Certificate Number: 3239

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PERMIT COMMENTS

Operator Name and Address:	API Number:
XTO ENERGY, INC [5380] 9193 S. Jamaica St. Englewood, CO 80155	30-015-44279
	Well: ROADHOUSE STATE #002H

Created By	Comment	Comment Date
srabadue	Unable to attach C-102; file size too large. C-102 was sent via email to Karen Sharp and Raymond Podany at NMOCD District 2 Artesia office.	6/22/2017

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Santa Fe, NM 87505

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
XTO ENERGY, INC [5380] 9193 S. Jamaica St. Englewood, CO 80155	30-015-44279
	Well: ROADHOUSE STATE #002H

OCD Reviewer	Condition

SURFACE USE PLAN

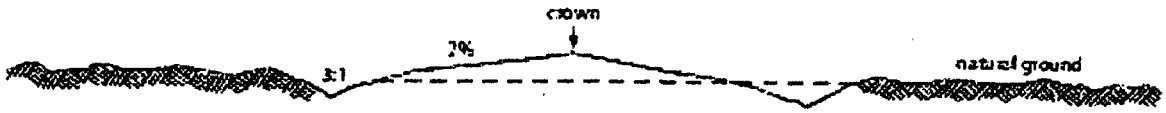
XTO Energy, Inc.
Roadhouse Federal 2H
Eddy County, NM

This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described wells. The purpose of this plan is to describe the location of the proposed wells, 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.

This location is already built as was originally permitted as a New Mexico State land well. XTO Energy, Inc. built the location as permitted under State conditions. The decision was later made to extend the lateral into a 40-acre Federal mineral tract so as to not strand Federal acreage. Original New Mexico State permits for all wells on the pad are attached as issued by the NMOCD.

1. EXISTING ROADS:
    a. DIRECTIONS: From the intersection of Hwy 285 (Pecos Hwy) and Co. Rd 725 (Longhorn Rd), go Northeast on Co. Rd. 725 approximately 4.2 miles passed the Pecos River and go to a "Y" intersection. Turn left and go Northeast approximately 1.8 miles. Turn left and go North approximately 3.4 miles to "Y" intersection. Turn left and go Northwest, then North approximately 2.2 Miles. Turn left and go Southwest approximately 0.2 miles to "Y" intersection. Turn right and go Northwest approximately 0.9 miles. Turn left and go South approximately 550' to begin road survey, follow staked road 183' South, then 119' West to the Southeast corner of this location pad.
    b. See attached plats and maps provided by John West Surveying Company.
    c. The access route from Co. Road 725 (Longhorn 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 ROW is applied for with this well.

2. NEW OR RECONSTRUCTED ACCESS ROADS:
    a. Approximately 303' of new road will be needed for this location. This location is already built as the associated wells were originally permitted as a New Mexico State wells. XTO Energy, Inc. built the location as permitted under State conditions. The decision was later made to extend the lateral into a 40-acre Federal mineral tract so as to not strand Federal acreage. Original New Mexico State permits for all wells on the pad are attached as issued by the NMOCD. 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. Production facilities are located in Section 6-T25S-R29E and are already built as a state land facility. No additional surface disturbance is associated with this facility.
   b. The facility location did not require an onsite at the time of permitting as it was originally staked and permitted as a state facility. No new surface disturbance is associated with this facility.
   c. 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.
   d. 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.
   e. Flowlines: 5 surface flowlines will be necessary for the wells located on the pad. All surface flowlines will be 4" or less made of flexpipe or steel with a maximum operating pressure of 125psi and a safety rating of 750psi for full-stream (transporting: oil, gas,

water). An additional 5 HP (Operating: 725psi, Max: 1250psi) flowlines will be buried a min. of 36" within the existing road corridors for gas lift purposes (transporting: gas). The total approximate distance of each surface and buried flowline is as follows:

i. Cattle Baron Federal 2H: 2375'
ii. Roadhouse Federal 1H: 2375'
iii. Roadhouse Federal 2H: 2375'
iv. Golden Corral Federal 2H: 2375'
v. Sizzler Federal 2H: 2375'

f. Electrical: All electrical poles and lines will be placed within existing and proposed lease roads corridors. Approximately 2545' of12,740 volt electrical will be run from the anticipated tie-in point from an existing well pad going cross-country then joining with proposed road corridors with a request for 30' ROW construction and maintenance buffer; 15' on either side of the electrical centerline. This distance is a maximum approximation and may vary based on the lease road corridors, varying elevations and terrain in the area. A plat of the proposed electrical is attached.
g. Gas Sales Line: The Goldenchild Tank Battery is already connected to a gas sales line. No additional disturbance is necessary for gas sales purposes.

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 the anticipated pit in Section 6 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.

Water for drilling, completion and dust control will be supplied by Rockhouse Water for sale to XTO Energy, Inc. from Section 5-T26S-R30E, Eddy County, New Mexico. In the event that the well 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 well being in Section 5-T26S-R30E, Eddy County, New Mexico.

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

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

6. SOURCE OF CONSTRUCTION MATERIALS:

Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.

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

Anticipated Caliche Locations:

a. Pit 1: Federal Caliche Pit, Section 2-T24S-R29E
b. Pit 2: State Caliche Pit, Section 22-T25S-R28E

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 existing 5-well pad that is 820'x320'.
   b. This location is already built as was originally permitted as a New Mexico State land well. XTO Energy, Inc. built the location as permitted under State conditions. The decision was later made to extend the lateral into a 40-acre Federal mineral tract so as to not strand Federal acreage.
   c. Original New Mexico State permits for all wells on the pad are attached as issued by the NMOCD.
   d. Wells Associated with this SUPO/Well Pad:
      i. Cattle Baron Federal 2H
      ii. Roadhouse Federal 1H
      iii. Roadhouse Federal 2H
      iv. Sizzler Federal 2H
      v. Golden Corral 2H
   e. 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.
   f. All 5 wells on the pad have a V-Door orientation of East.
   g. A 600' x 600' area has been staked and flagged.
   h. 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) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

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

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

Seeding:

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

11. SURFACE OWNERSHIP:

a. The surface is owned by the New Mexico State Land Office (NMSLO). 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. Soil area is a combination of Pajarito-Dune land complex, loamy sand with 0-3% slopes, and Potter-Simona complex, shallow sandy soil with 5 to 25% slopes. These soils support grassland dominated by black grama throughout with dropseeds and bluestems more prevalent in the loamier areas. The areas with shallower soil have fewer shrubs and more litter cover with shrubs such as sand sage, shinnery oak and mesquite appearing as the soil presents more loam. Other vegetation such as creosote, mesquite, catclaw, snakeweed, and soapweed yucca grow within the area.
    b. There is permanent or live water in the immediate area lying approximately .5 miles to the North/Northwest and West (Pecos River).
    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 RESPRESENTATIVE:

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)

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

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

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

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

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

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

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

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

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

AFMSS

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

Bond Info Data Report

03/22/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: UTB000138

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: