District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

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

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

8909

Type of action: ☒ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1
Operator. XTO Energy, Inc OGRID # 5380
Address #382 County Road 3100, Aztec, NM 87410
Facility or well name. Breech D #685F
API Number 30-039-31015 OCD Permit Number
U/L or Qtr/Qtr K Section 11 Township 26N Range 6W County. Rio Arriba
Center of Proposed Design Latitude 36.49951 Longitude 107 43954 NAD ☐1927 ☒ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

RECEIVED
SEP 2011
OIL CONS. DIV. DIST. 3

2.
☒ **Pit:** Subsection F or G of 19 15.17.11 NMAC
Temporary. ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☒ Lined ☐ Unlined Liner type. Thickness 20 mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other
☒ String-Reinforced
Liner Seams. ☒ Welded ☒ Factory ☐ Other Volume. bbl Dimensions. L 200 x W 80 x D 8-12

3
☒ **Closed-loop System:** Subsection H of 19.15 17 11 NMAC
Type of Operation· ☐ P&A ☒ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) **To be used during completion operations**
☐ Drying Pad ☒ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
☐ Lined ☐ Unlined Liner type· Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Liner Seams ☐ Welded ☐ Factory ☐ Other

4.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume. bbl Type of fluid:
Tank Construction material.
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thickness mil ☐ HDPE ☐ PVC ☐ Other

5.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

6.

Fencing: Subsection D of 19 15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

☒ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☐ Alternate Please specify_____

7

Netting: Subsection E of 19 15.17 11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

8

Signs: Subsection C of 19 15.17 11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19.15.3 103 NMAC

9

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 NMAC for guidance

Please check a box if one or more of the following is requested, if not leave blank:

☒ Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval. Fencing- Hogwire

☐ Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

10

Siting Criteria (regarding permitting): 19.15 17 10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. **Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.**

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank - NM Office of the State Engineer - iWATERS database search; USGS, Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application *(Applies to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search, Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain - FEMA map	☐ Yes ☐ No

11

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☒ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17 9 NMAC
- ☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC
- ☒ Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC
- ☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17.9 NMAC and 19.15.17 13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17 9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17.10 NMAC
- ☒ Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
- ☒ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC
- ☒ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____ *(Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)*

13

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17 9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19 15 17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19 15.17 11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19 15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17 13 NMAC

14

Proposed Closure: 19 15 17 13 NMAC

Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type. ☒ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☒ Closed-loop System ☐ Alternative

Proposed Closure Method:
- ☐ Waste Excavation and Removal
- ☒ Waste Removal (Closed-loop systems only)
- ☒ On-site Closure Method (Only for temporary pits and closed-loop systems)
  - ☒ In-place Burial ☐ On-site Trench Burial
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15

Waste Excavation and Removal Closure Plan Checklist: (19 15 17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17 13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15.17.13 D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: Envirotech — Disposal Facility Permit Number: NM01-0011

Disposal Facility Name: IEI — Disposal Facility Permit Number: NM01-0010B

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☒ No

Required for impacted areas which will not be used for future service and operations

☐ Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15 17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC

17

Siting Criteria (regarding on-site closure methods only): 19 15 17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data obtained from nearby wells	☒ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site, Aerial photo, Satellite image	☐ Yes ☒ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval obtained from the municipality	☐ Yes ☒ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within the area overlying a subsurface mine - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS, NM Geological Society, Topographic map	☐ Yes ☒ No
Within a 100-year floodplain - FEMA map	☐ Yes ☒ No

18

On-Site Closure Plan Checklist: (19 15 17 13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

☒ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC

☒ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19 15.17.11 NMAC

☒ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19 15.17 11 NMAC

☒ Protocols and Procedures - based upon the appropriate requirements of 19.15 17.13 NMAC

☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC

☒ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15 17 13 NMAC

☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☒ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC

☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC

19

Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief

Name (Print). Malia Villers Title: Permitting Tech

Signature Malia Villers Date: 9-2-11

e-mail address malia_villers@xtoenergy.com Telephone (505) 333-3100

20

OCD Approval: ☒ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly **Approval Date:** 9/07/2011

Title: _____ **OCD Permit Number:** _____

21

Closure Report (required within 60 days of closure completion): Subsection K of 19.15 17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ **Closure Completion Date:** _____

22.

Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain

23.

Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name _____ Disposal Facility Permit Number: _____

Disposal Facility Name _____ Disposal Facility Permit Number. _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

24

Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

☐ Proof of Closure Notice (surface owner and division)

☐ Proof of Deed Notice (required for on-site closure)

☐ Plot Plan (for on-site closures and temporary pits)

☐ Confirmation Sampling Analytical Results (if applicable)

☐ Waste Material Sampling Analytical Results (required for on-site closure)

☐ Disposal Facility Name and Permit Number

☐ Soil Backfilling and Cover Installation

☐ Re-vegetation Application Rates and Seeding Technique

☐ Site Reclamation (Photo Documentation)

On-site Closure Location Latitude _____ Longitude _____ NAD. ☐1927 ☐ 1983

25.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan

Name (Print): _____ Title: _____

Signature. _____ Date. _____

e-mail address: _____ Telephone: _____

Pit Permit Siting Criteria Information Sheet

Well Name	Breech D #685 F
Date	August 30, 2011
Prepared By	K. Wilson

API #	N/A
Depth to groundwater:	Greater than 50 feet
Distance to closest continuously flowing watercourse:	26 Miles NE to San Juan River
Distance to closest significant watercourse, lakebed, playa lake, or sinkhole:	289 ft SE of a 1st order tributary of Dogie Canyon.
Permanent residence, school, hospital, institution or church within 300':	NO
Domestic fresh water well or spring within 500':	NO
Any other fresh water well or spring within 1000':	NO
Within incorporated municipal boundaries:	NO
Within defined municipal fresh water well field:	NO
Wetland within 500':	NO, 1340 ft NW of wetlands associated with Albert Lake
Within unstable area:	NO
Within 100 year flood plain:	NO

USPLSS:	T26N, R6W, 11J
Lat/Long:	36.49951, -107.43954
Geologic formation:	San Jose Formation
Soil Type:	Entisols
Annual Precipitation:	8.21" - Farmington; 10.41" - Otis, 8.71" - Bloomfield
Precipitation Notes:	No significant precipitation events on record.
Attached Documents:	Hydrogeologic Report Figure 1: Topographical Map Figure 2: Aerial Mpa Figure 3: FEMA Flood Zone Map XTO Water Well Data
Mining Activity:	None Identified in the vicinity

Additional Notes:

DISTRICT I
1625 N French Dr, Hobbs, NM 88240

DISTRICT II
1301 W Grand Ave, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 South St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-10
Revised October 12, 200
Submit to Appropriate District Offic
State Lease - 4 Copie
Fee Lease - 3 Copie

☐ AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name

[4] Property Code	[5] Property Name	[6] Well Number
	BREECH D	685F

[7] OGRID No	[8] Operator Name	[9] Elevation
	XTO ENERGY INC	6527'

[10] Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	11	26-N	6-W		1827	SOUTH	1910	WEST	RIO ARRIBA

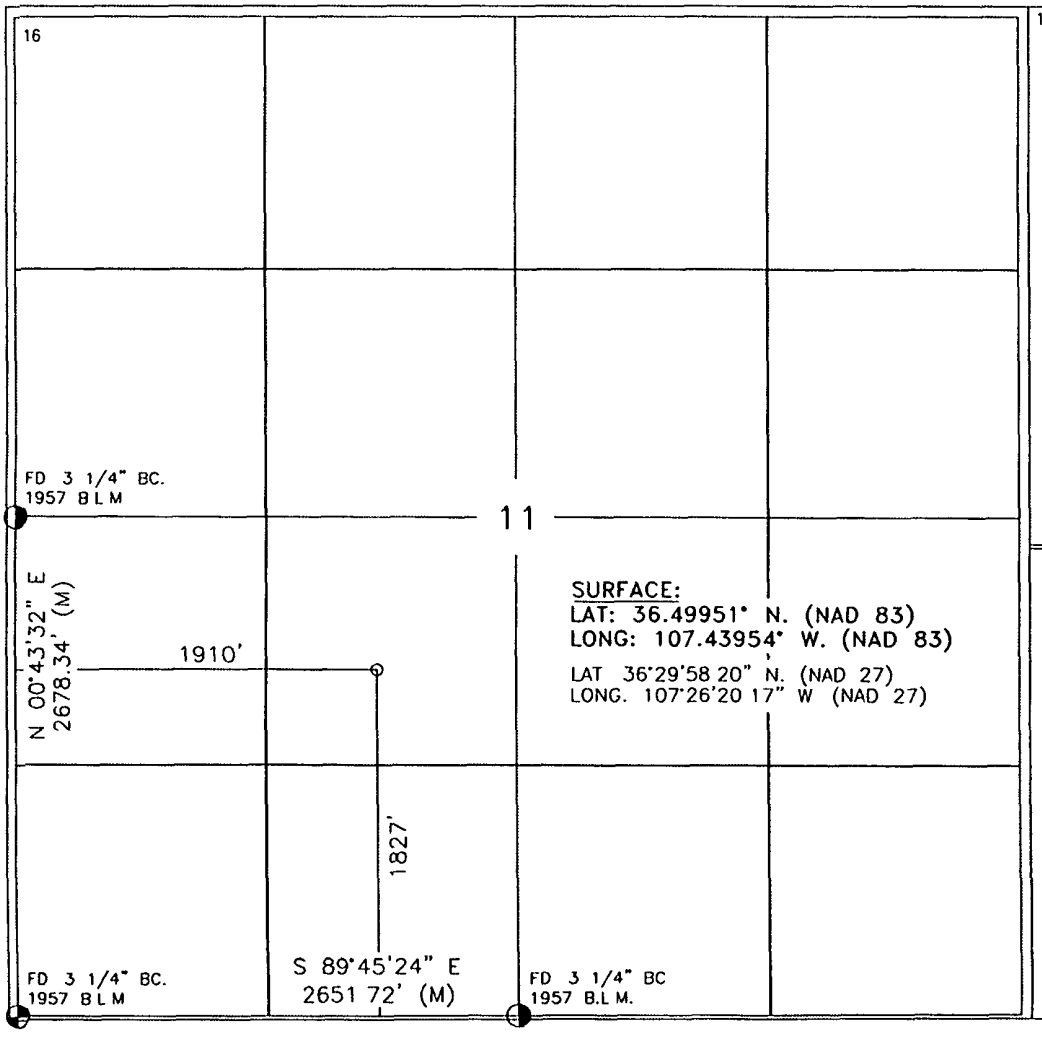
[11] Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATEI
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



SURFACE:
LAT: 36.49951° N. (NAD 83)
LONG: 107.43954° W. (NAD 83)

LAT 36°29'58 20" N. (NAD 27)
LONG. 107°26'20 17" W (NAD 27)

17

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 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

Signature Date

Printed Name

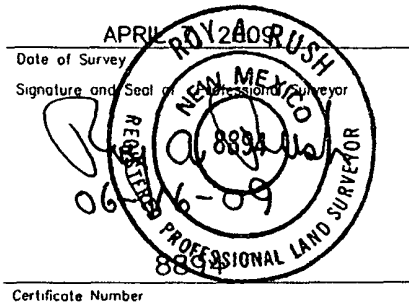
18

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 knowledge & belief

APRIL 20, 2009
Date of Survey

Signature and Seal of Professional Surveyor

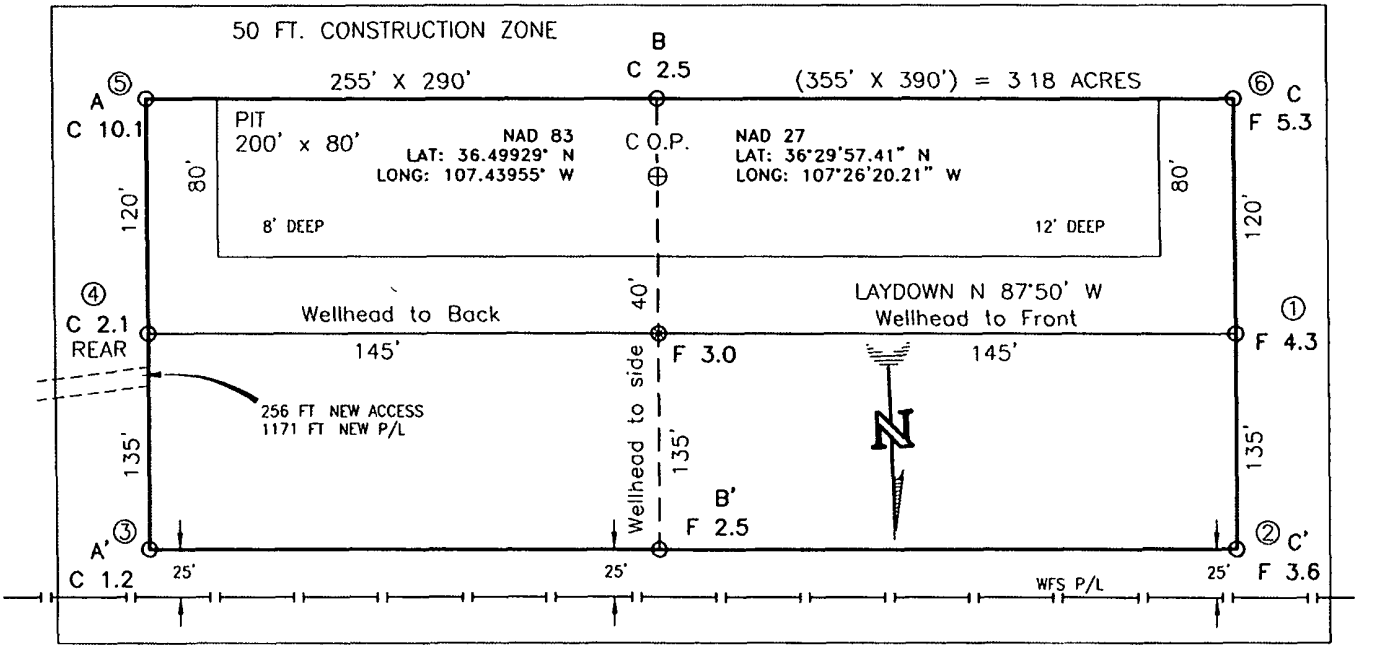


06-16-09

8894
Certificate Number

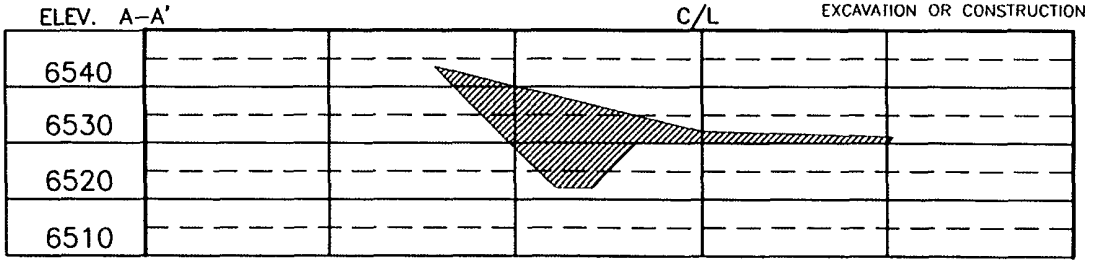
XTO ENERGY INC.
BREECH D No. 685F, 1827 FSL 1910 FWL
SECTION 11, T26N, R6W, N.M.P.M., RIO ARRIBA COUNTY, N.M.
GROUND ELEVATION: 6527' DATE: APRIL 7, 2009

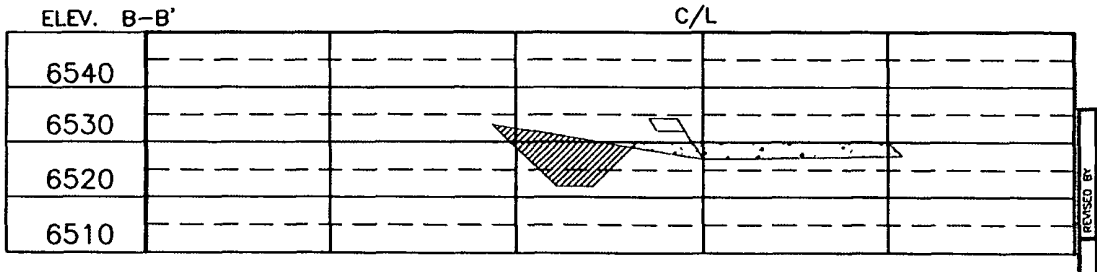
NAD 83
LAT. = 36.49951° N
LONG. = 107.43954° W
NAD 27
LAT. = 36°29'58.20" N
LONG. = 107°26'20.17" W

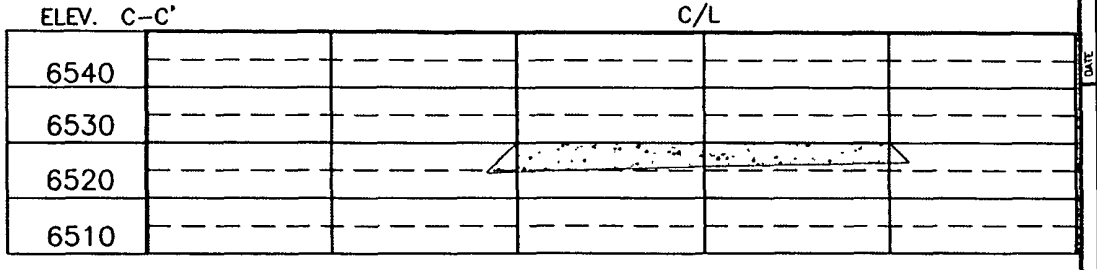


RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW – 3' WIDE AND 1' ABOVE SHALLOW SIDE)
BLOW PIT OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT

NOTE DAGGETT ENTERPRISES, INC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION







NOTE: CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

REVISION	DATE	REVISED BY
2ND RESTAKE	06/12/09	BK
CORRECT LAT /LONG	02/24/09	GV
LOCATION RESTAKE	11/24/08	GV

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O Box 510 •Farmington, NM 87499
Phone (505) 326-1772 • Fax (505) 326-6019
NEW MEXICO L.S. No. 8894

CADFILE: CR984_CF8
DATE: 09/18/08
DRAWN BY: G.V.
ROW# CR984

XTO ENERGY

A Subsidiary of ExxonMobil

Breech D #685 F

Hydrogeologic Report for Siting Criteria

General Geologic Hydrology

The San Juan Basin is a typical Rocky Mountain basin with a gently dipping southern flank and a steeply dipping northern flank. Asymmetrically layered Tertiary sandstones and shales, along with Quaternary alluvial deposits, dominate the surficial geology. The proposed pit location will be situated on the undulating surface of Ensenada Mesa near the head of Ice Canyon (figure 1). The predominant geologic formation is the San Jose Formation, which underlines surface soils or is exposed as sandstone outcrops. The San Jose Formation occurs in both New Mexico and Colorado and its outcrop forms the land surface over much of the eastern half of the central basin.

Cretaceous and Tertiary sandstones and Quaternary alluvial deposits serve as the primary aquifers in the San Juan Basin. In the proposed area, the San Juan Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and shale. Groundwater is associated with alluvial and fluvial sandstone aquifers. Porous sandstones form the principal aquifers, while relatively impermeable shales and mudstones form confining units between the aquifers. The aquifers are found between 0 and 2700 feet. The reported or measured discharge from numerous water wells completed in the formation range from 0.15 to 61 gallons per minute (gpm) of production, with a median of 5 gpm. Most of the wells provide water for livestock and domestic purposes.

The formation is suitable for recharge from precipitation due to the sandy nature of overlying soils, which are highly permeable and absorbent. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the formation by the San Juan River and its main tributaries all tend to reduce the effective recharge of the formation. Most recharge occurs during the inter months during snowmelt periods within the upper elevations (Western Regional Climate Center, www.wrcc.dri.edu).

The predominate vegetation is sagebrush and grasses with a more restricted pinon-juniper association.

Site-Specific Hydrology

Ensenada Mesa lies to the north of Largo Canyon. It consists of shales and sandstones of the San Jose Formation. The site in question is located near the center of Ensenada Mesa at an elevation of approximately 6,580 feet above sea level (Figures 1 and 2). The immediate surrounding area consists of shallow washed and canyons that have eroded through the sandstone into underlying shale units. The washes drain to Dogie Canyon, a major tributary of Largo Canyon.

XTO ENERGY

A Subsidiary of ExxonMobil

Depth to groundwater is estimated to be greater than 50 feet. This estimation is based on data from existing XTO water wells within the near vicinity, the USGS Groundwater Atlas of the United States, and depth to groundwater data published on the New Mexico State Engineer's iWaters Database website. Local topography and proximity to surface hydrologic features are also taken into consideration.

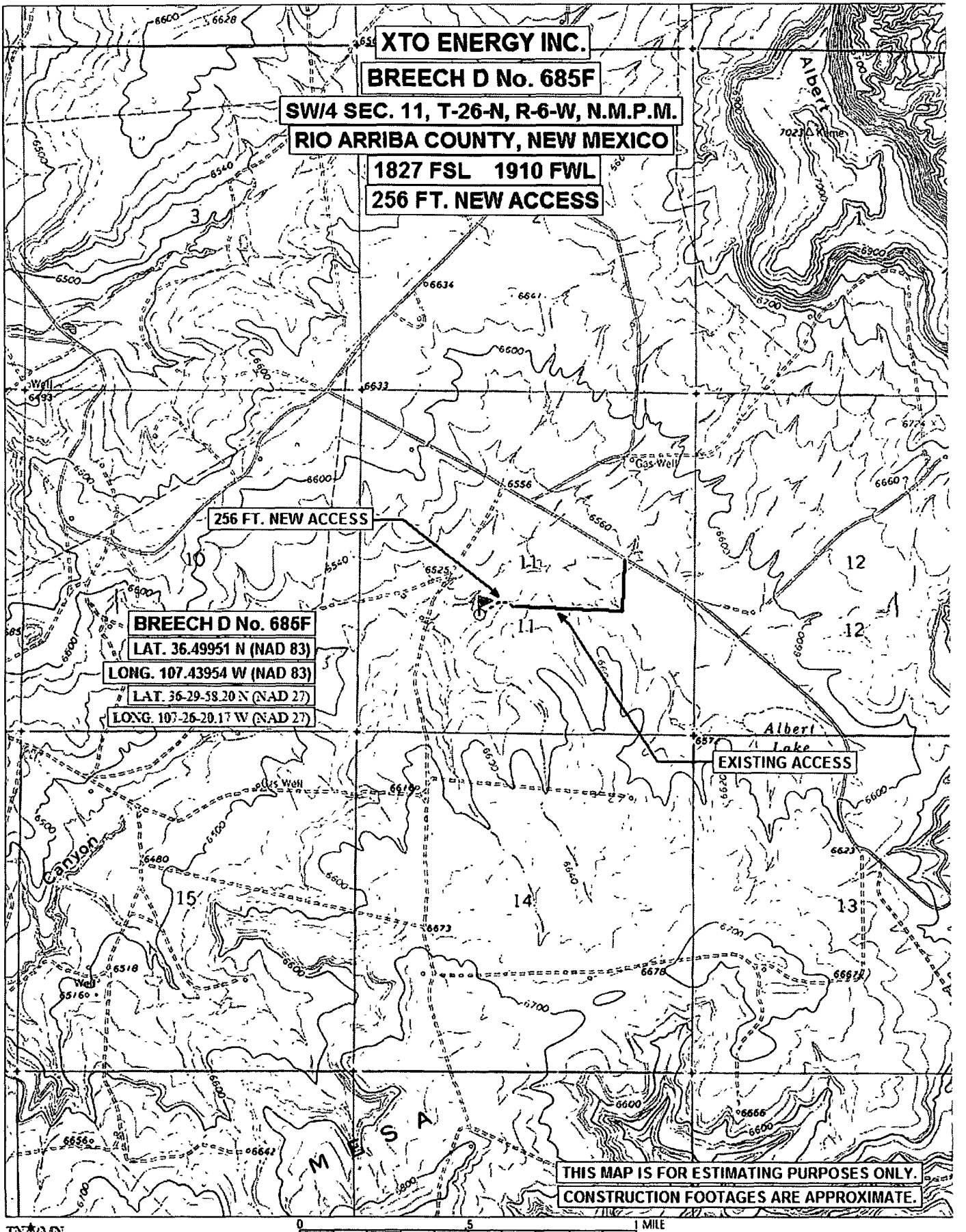
Ground water data available from water well logs for wells within the near vicinity is attached. The Calkins # 1 Water Well is located within an approximate 2 mile radius of the proposed pit, water logs for this well show depth to ground water at 265 feet to 303 feet (attached XTO Water Well Data). There are 7 additional fresh water wells within an approximate 5 to 6 mile radius. The information included within the attached XTO Water Well Data will show that all 8 wells within a 5 to 7 mile proximity of the proposed pit location do not have the presence of ground water above 50 feet.

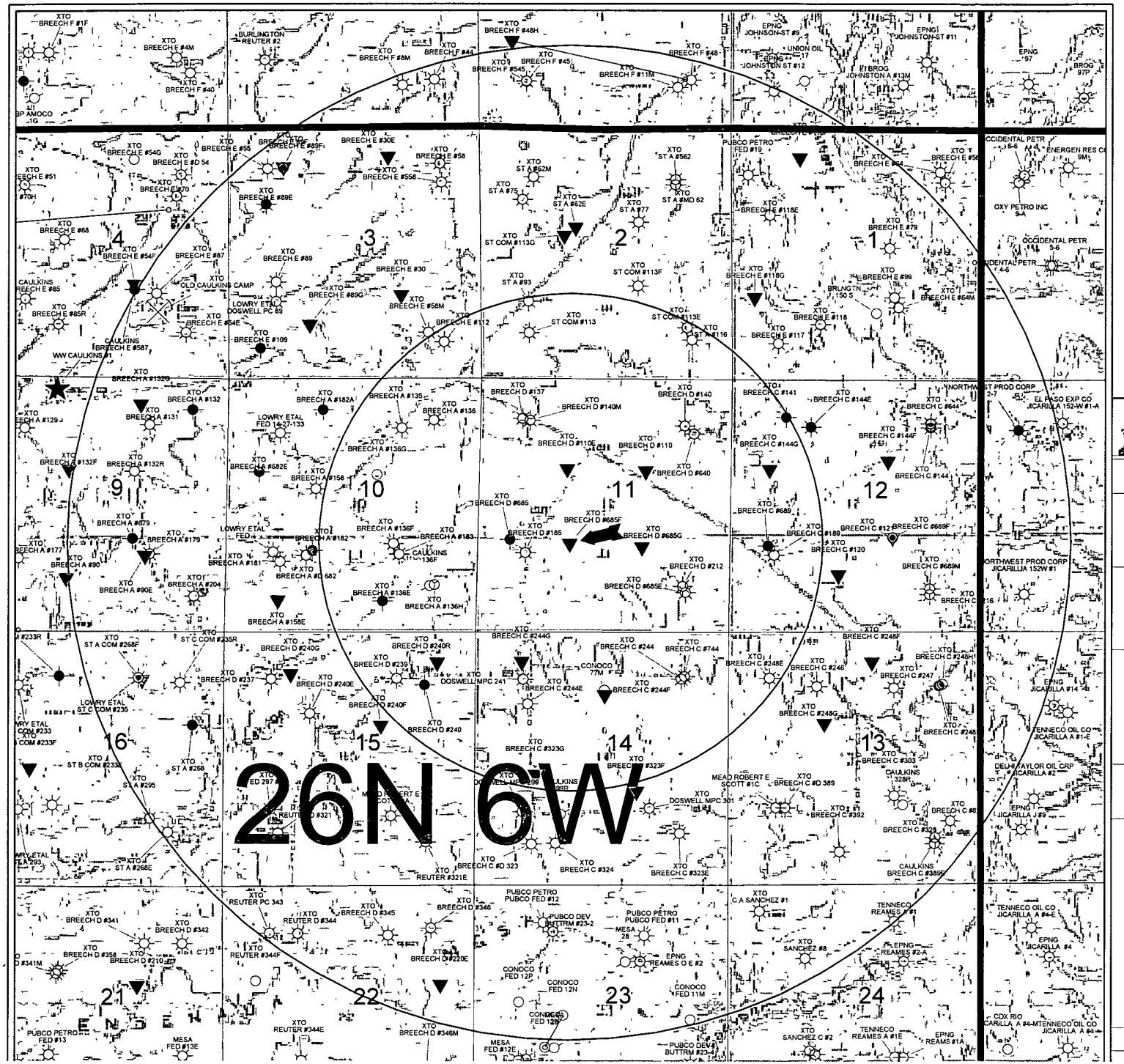
The proposed pit location is approximately 1,350 feet northwest of the Albert Lake and an adjacent small pond. The distance between the proposed pit location and the water bodies plus the topography features surrounding area suggests that ground water would not be present at 50 feet.

References:

USDA-NRCS, Web Soil Survey: (http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm)

USDA-NRCS, Plants Data Base: (http://plants.usda.gov/java/)





XTO ENERGY INC.

BREECH D 685F

SEC 11,T26N, R6W

W:\Petra\Virginia\Rio Arriba\Maps

San_Juan_with Radius OVL

0 2,923 5,846

FEET

POSTED WELL DATA

Operator

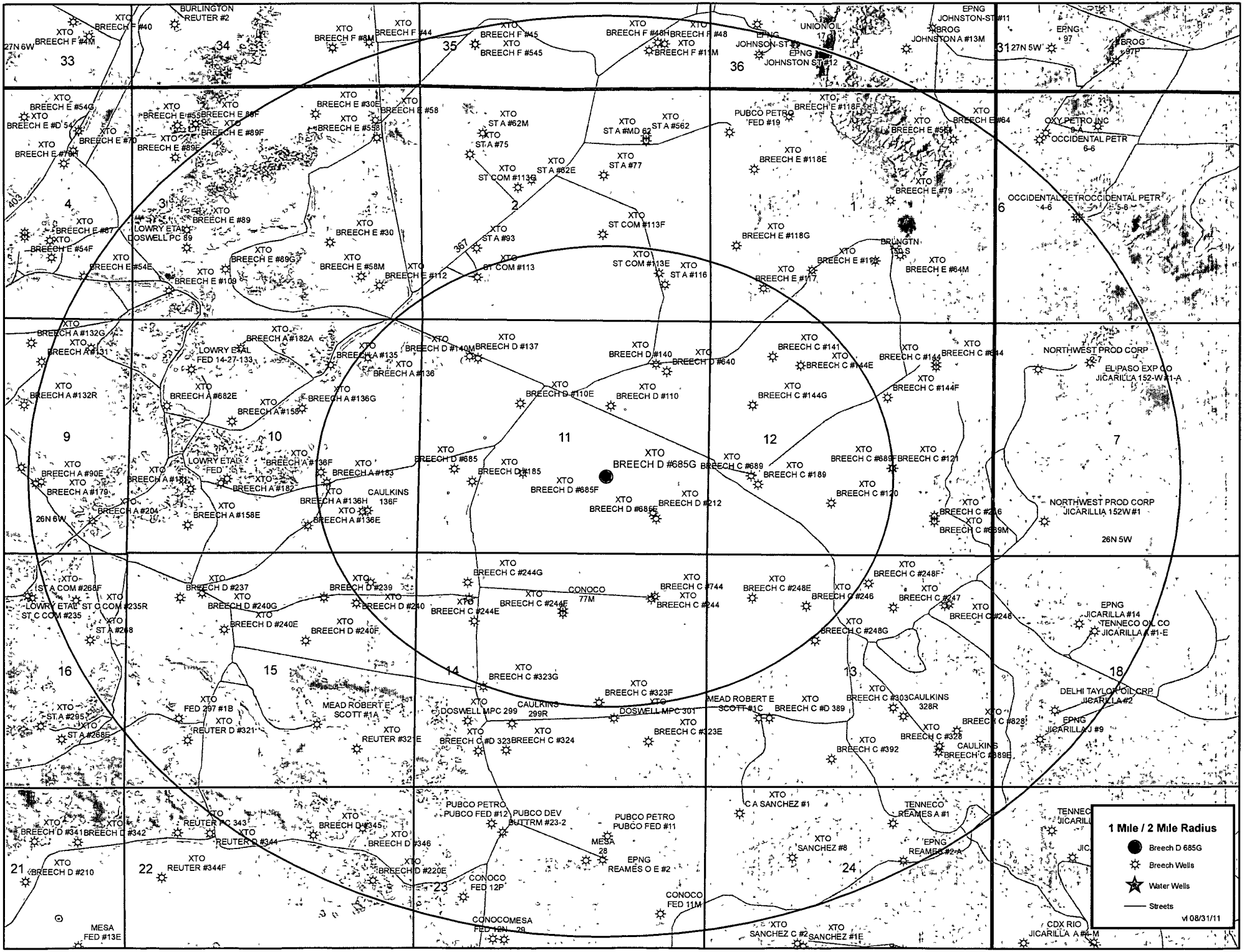
Well Label

SYMBOL HIGHLIGHT

WELL SYMBOLS

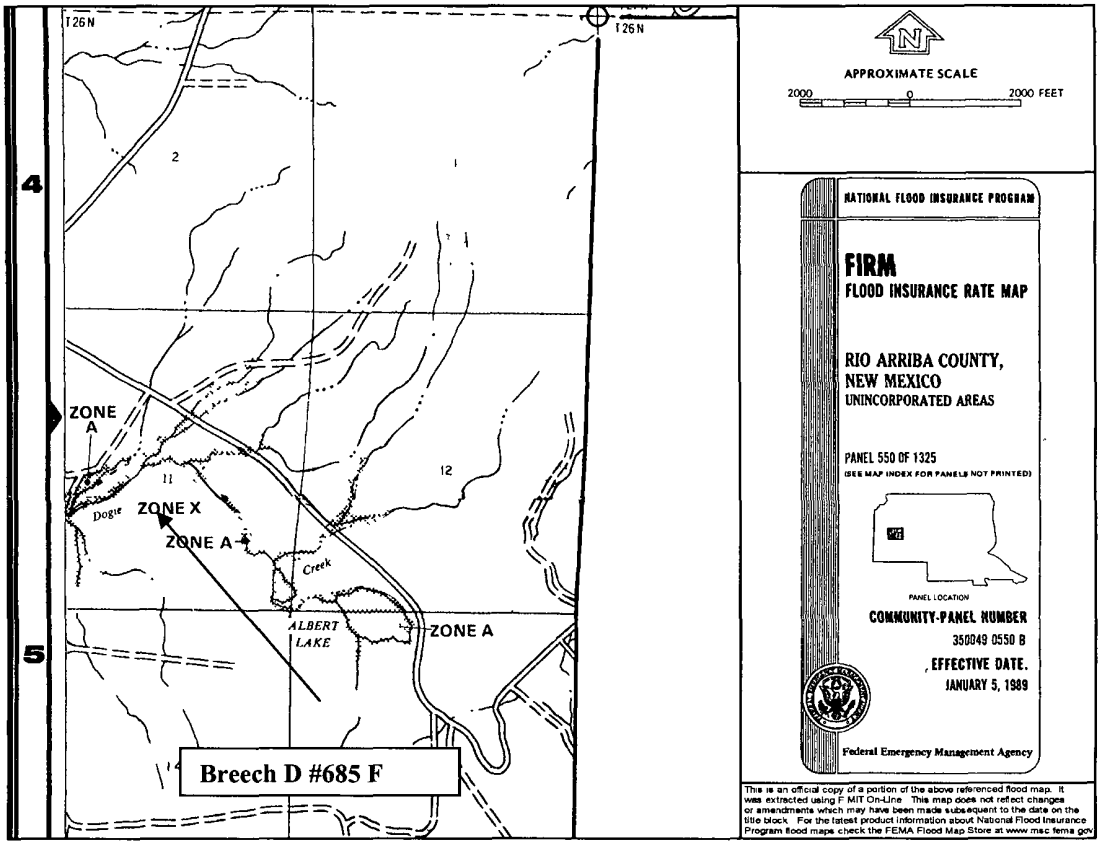
- 13XTO Location
- 12XTO Location
- 11XTO Location
- Fresh Water Well
- Gas Well
- Oil & Gas Well
- Plugged and Abandoned
- Abandoned Well
- Oil Well
- LAND MARK

By vl


BREECH D #685G
1 Mile / 2 Mile Radius
Breech D 685G
Breech Wells
Water Wells
Streets
vl 08/31/11

Breech D #685 F
Section 11, T26N, R6W

FEMA Flood Zone Map



fresh water wells

6-18-92.

Well No.	Location		Elev	Depth	Present Condition
1	SE¼ NE¼	4-26-6	70	?	P & A
2.	NE¼ NE¼	16-26-6	State Land 204	311	Plugged w/ sand & Dirt
3	SW¼ SW¼	4-26-6	321 ~~68E~~	?	Rancher Pumping Equipment in we.
4.	NW¼ SW¼	4-26-6	68E	373	unknown. Never Pumped after Sept 1952.
5.	NW¼ SW¼	9-26-6	Private Surface 204M.	348	assume in Good shape.
6.	1918 F/S 118 F/W	11-26-6	685	345	— — — —
7.	925 F/S 1122 F/E.	4-26-6	54E	402	Plugged & abandoned. (Can't find)
8 camp	45 F/S. 9' F/E	4-26-6	Camp water well	406	In use.

Charles Verquer

>120' water column

[illegible] 70' [illegible] 120 [illegible]

Test, you may [illegible] [illegible]

Budget Bureau No. 42-R358.
Approval expires 11-30-46.

Form 9-331a
(March 1942)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. _____
Unit S F NM 03552

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Complete water well	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Well #1

1 4/6/51, 19____

SW ¼ Sec 15 Well No. 1 is located 1550 ft. from {N/S} line and 1665 ft. from {E/W} line of sec. 15

(¼ Sec. and Sec. No.) 26 N (Twp.) 6 W (Range) NMP (Meridian)

Rio Arriba (County or Subdivision) New Mexico (State or Territory)

(Field)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

TD 305' Water Sand Found 205 to 303; Bottom 2 ft. hard blue shale. Ran 305' 7" casing with 15' perforations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Doswell & Petty-Ingraham
Company 719 First National Bank Bldg
Address Dallas, Texas

By C. Wilson Moore
Title Supt

U. S. GOVERNMENT PRINTING OFFICE 16—8437-2

INTER OFFICE CORRESPONDENCE

To Louis Gibbons

Date 6/5 1951

Subject Water Well Fed B Lease

Water well

0-8 — topsoil

8-26 — yellow sand

26-80 — Blue sand

80-100 — grey shale

100-240 — Blue shale & sand

240-260 grey water sand

260-265 Blue shale

265-303 grey water sand

303-305 Hard blue shale

305' 7" smls — bottom 15' — perforated.

CWM

INTER OFFICE CORRESPONDENCE

To C. Wilson Moore

Date ~~May~~ June 1, 1951

Subject

#1 well

Please send us a copy of the USGS on the Federal "B" Lease Water Well. Also the record of the total depth and depth of water producing formation, and casing record of this well.

Thank you,

Louis D. Gibbons

Louis D. Gibbons

ms

FORM NO. 969-R (ORDER BY NUMBI
MANLY OFFICE SUPPLY CO.—PRINTERS—OKLA. C

Date 6-5-60

Purchased or
Transferred From

To Location Water Well #1-A

Description of Pipe Size 7" & 7 5/8" Weight Grade Thread

Kind Couplings Class

JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT	HNDRTHS	JOINT NO	FT	HNDRTHS
1	29	90	7" OD 23# J-55			51	bottom end		76	open	
2	31	00	(27 jts 26.40# and 1 jt is spiral weld)			52			77		
3	20	53	7 5/8" OD - 26.40# J-55			53			78		
4	32	08	29			54			79		
5	32	18	30			55			80		
6	31	08	31			56			81		
7	31	20	32			57			82		
8	32	60	33			58			83		
9	32	75	34			59			84		
10	32	60	35			60			85		
11			36			61			86		
12			37			62			87		
13			38			63			88		
14			39			64			89		
15			40			65			90		
16			41	Total Casing		66			91	305	92
17			42	Cut above ground		67			92	7	00
18			43	Depth Set		68			93	298	92
19			44			69			94		
20			45			70			95		
21			46			71			96		
22			47			72			97		
23			48			73			98		
24			49			74			99		
25			50			75			00		
TOTALS	305	92									

TOTAL

REMARKS

Purchase Order or
Material Transfer

Tallied By

FORM NO 969-R (ORDER BY NUMBER)
MANLY OFFICE SUPPLY CO.—PRINTERS—OKLA. CITY

Date 6-7-60

Purchased or
Transferred From

To Location Run in Water Well #1 A

Description of Pipe Galvanized Size 4½" Weight 11 Grade A & B Thread 8 V

Kind ______ Couplings ______ Class ______

[redacted] #1 well

JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS
1	20	33	26			51			76		
2	20	22	27			52			77		
3	20	30	28			53			78		
4	20	22	29		Total	54 Pipe			79	302	40
5	20	31	30		Left	55 Over			80	12	67
6	19	77	31		Amt.	56 Run			81	289	73
7	21	90	32			57			82		
8	21	06	33			58			83		
9	21	86	34			59			84		
10	20	12	35			60			85		
11	21	05	36			61			86		
12	21	14	37			62			87		
13	21	25	38			63			88		
14	13	40	39			64			89		
15	12	67	40			65			90		
16	5	90	41			66			91		
17		90	wkg	66ft.	couplings	67			92		
18			43			68			93		
19			44			69			94		
20			45			70			95		
21			46			71			96		
22			47			72			97		
23			48			73			98		
24			49			74			99		
25			50			75			00		
TOTALS	302	40									

REMARKS Used for tubing TOTAL

Purchase Order or
Material Transfer ______ Tallied By ______

LOG REPORT

19

COAN AND ANDERSON
CONTRACTORS

For Doswell # 2 In 11-29-50

[redacted] #Water Well #2 Well

Out

~~Shot Point,~~ No. 21 Lease ~~Doswell #~~ Land County ~~San Juan~~ Rio Arriba

FROM	TO	FORMATION	CASING	~~SIZE~~	~~FEET~~
0	5	Soil			
5	45	Red SANDY Shale			
45	255	Shale and SAND Stone	(HARD)		
255	265	Water sand			
265	290	shale and sand stone			
290	302	Black sand			
302	311	sandy shale			

REMARKS:

Signed C. L. McDonald Driller

Will Henry Helper

Helper

Date 11-30-88

or
erred From

o Location Water well #3

Description of Pipe ______ Size ______ Weight ______ Grade ______ Thread ______

Kind ______ Couplings ______ Class ______

JOINT NO	FT	HNDRTHS	JOINT NO	FT	HNDRTHS	JOINT NO	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS
1			26			51			76		
2	32	82	27			52			77		
3	66	05	28			53			78		
4	66	10	29			54			79		
#3 5	[illegible]	99	30			55			80		
6	66	01	31			56			81		
7			32			57			82		
8	296	95	33			58			83		
9			34			59			84		
10			35			60			85		
11			36			61			86		
12			37			62			87		
13			38			63			88		
14			39			64			89		
15			40			65			90		
16			41			66			91		
17			42			67			92		
18			43			68			93		
19			44			69			94		
20			45			70			95		
21			46			71			96		
22			47			72			97		
23			48			73			98		
24			49			74			99		
25			50			75			00		
TOTALS											

1 1/4 Pipe 10 [illegible]

Submersible Pump on Bottom

TOTAL

REMARKS ______

Purchase Order or Material Transfer ______ Tallied By ______

Budget Bureau No 42-R355 2.
Approval expires 12-31-52

Form 9-330

U. S. Land Office NM-03553

Serial Number 12

Lease or Permit to Prospect

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER WELL

LOG OF OIL OR GAS WELL

Company Lowry et al Operating Account Address Room 213, 616 East Central Albuquerque, New Mexico

Lessor or Tract Federal-Roswell 129 Field Wildcat State New Mexico

Well No. 3 Sec. 11 T. 26N R 6W Meridian _____ County Rio Arriba

Location 1600 ft {N.} of S Line and 120 ft. {E.} of W Line of _____ Elevation Not known (Derrick floor relative to sea level)

Water

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

Date October 12, 1951 Title General Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling September 10, 1951 Finished drilling September 20, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 215 to 230 No. 3, from _____ to _____

No. 2, from 320 to 342 No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
7"	20	10W	Seamless	350'					

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	345'	None			

FOLD

PLUGS AND ADAPTERS

Heaving plug—Material ________ Length ________ Depth set ________

Adapters—Material ________ Size ________

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ________ feet to ________ feet, and from ________ feet to ________ feet

Cable tools were used from 0 feet to 345 feet, and from ________ feet to ________ feet

DATES

________, 19____ Put to producing ________, 19____

The production for the first 24 hours was ________ barrels of fluid of which ________ % was oil; ________ % emulsion; ____ % water; and ____ % sediment. Gravity, °Bé. ________

If gas well, cu. ft. per 24 hours ________ Gallons gasoline per 1,000 cu. ft. of gas ________

Rock pressure, lbs. per sq. in. ________

EMPLOYEES

________, Driller ________, Driller

________, Driller ________, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	12'	12'	Surface soil
12'	28'	16'	Gray Shale
28'	33'	5'	Sand Rock
33'	55'	22'	Brown Shale
55'	67'	12'	Sand Rock
67'	84'	17'	Brown Shale
84'	138'	54'	Blue Shale
138'	160'	22'	Gray Shale
160'	165'	5'	Sand & Rock
165'	170'	5'	Sandy Shale
170'	184'	14'	Brown Shale
184'	215'	31'	Sandy Shale
215'	230'	15'	Water Sand
230'	255'	25'	Sand Rock
255'	320'	65'	Blue Shale
320'	342'	22'	Water Sand
342'	345'	3'	Blue Shale
			TD 345'.
			Set 7" Casing 345'
			Perforated 320 - 342'

(OVER)

16—43094-2

LOG REPORT

8-24 1951

[redacted] ANDERSON
CONTRACTORS

For ..... In

Out

Shot Point, No. Lease County

FROM	TO	FORMATION	CASING	SIZE	FEET
0	20	Soil			
20	40	Gray Shale			
40	85	Sand Rock			
85	95	Blue Shale			
95	120	Sand Rock			
120	145	Blue Shale			
145	180	Sand Rock			
180	185	Water Sand			
185	230	Sandy Shale	(Water)		
230	270	Blue " "			
270	355	Sand Rock	(Water)		
355	373	Blue Shale			
			20 Jts	7" OD	374 Ft

REMARKS:

Signed Don Smithhart Driller
Clint Odom Jr. Helper
Helper

LOG REPORT

Conley ary 8-24 19

COAN AND ANDERSON
CONTRACTORS

For Thos. W. Donnell, et al. In

Out 9/8/51

Shot Point, No. Lease County

FROM	TO	FORMATION	CASING	SIZE	F
20	0	[illegible]			
		[illegible]			
		[illegible]			
5	0	[illegible]			
0	0	[illegible]			
5	0	[illegible]			
180	8[illegible]	Water Sand			
185	230	[illegible]	[illegible]		
230	0	[illegible]			
	[illegible]	Sand Rock	[illegible]		
355	373	Blue Shale			
			20 Jts	7" OD	374

REMARKS W 4

Signed Don Smithhart Dril
Clint Odom Jr Helr
Helr

Budget Bureau 42-R358 2.
Approval expires 12-31-52.

Form 9-331a
(Feb 1951)

(SUBMIT IN TRIPLICATE)

Land Office SF

Lease No. 079035-A

Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X well #5
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 13, 1952

Water Well No. 5 is located 1955 ft. from {N/S} line and 173 ft. from {E/W} line of sec. 9

NW SW Section 9 (¼ Sec. and Sec. No.) | 26N (Twp.) | 6W (Range) | N.M.P.M. (Meridian)

Wildcat (Field) | Rio Arriba (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft. Not Known

Spudded 9-25-51 — DETAILS OF WORK — Completed 10-2-51

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

0	28	Surface Sand
28	39	Sand Rock
39	60	Blue Shale
60	105	Sandy Shale
105	175	Sand Rock
175	181	Water Sand
181	266	Blue Sandy Shale
266	311	Gray Sandy Shale
311	338	Blue Shale
338	340	Sandy Shale
340	348	Water Sand

7" OD perforated casing ran.
No cement.

Estimated to Produce 30 GPM

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Lowry et al Operating Account

Address Room 215
616 East Central Avenue
Albuquerque, New Mexico

By E. R. Richardson
E. R. Richardson
Title Business Manager

U. S. GOVERNMENT PRINTING OFFICE 16-8437-4

Form 9-331a
(Feb 1951)

Budget Bureau 42-R358.2.
Approval expires 12-31-52.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office NM
Lease No. 03553
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

well #6

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 13, 19 52

Water Well No. 6 is located 1918 ft. from {N/S} line and 118 ft. from {E/W} line of sec. 11

NW SW Section 11 (¼ Sec. and Sec. No.) 26N (Twp.) 6W (Range) N.M.P.M. (Meridian)

Wildcat (Field) Rio Arriba (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft. Not known

Spudded 9/10/51

DETAILS OF WORK

Completed 9/20/51

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Surface	12	Surface soil	230	255	Sand Rock
12	28	Gray Shale	255	320	Blue Shale
28	33	Sand Rock	320	342	Water Sand
33	55	Brown Shale	342	345	Blue Shale
55	67	Sand Rock			
67	84	Brown Shale			
84	138	Blue Shale			
138	160	Gray Shale			
160	165	Sand & Rock			
165	170	Sandy Shale			
170	184	Brown Shale			
184	215	Sandy Shale			
215	230	Water Sand			

Ran 7" OD perforated casing.
No cement.

Estimated to produce 30 GPM

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Lowry et al Operating Account

Address Room 215
616 East Central Avenue
Albuquerque, New Mexico

By E. R. Richardson

Title Business Manager

U. S. GOVERNMENT PRINTING OFFICE 16-8437-4

Form 9-331a
(Feb 1951)

Budget Bureau 42-R358.2.
Approval expires 12-31-52.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office NM
Lease No. 03551
Unit

well #1

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 13, 19 52

Water Well No. 7 is located 925 ft. from {N/S} line and 1122 ft. from {E/W} line of sec. 4

SE SE Section 4 (¼ Sec. and Sec. No.) | 26N (Twp.) | 6W (Range) | N.M.P.M. (Meridian)

Wildcat (Field) | Rio Arriba (County or Subdivision) | New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft. Not Known

DETAILS OF WORK

Spudded 10-31-51 Completed 11-10-51

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Sand	0	39	Sandy Shale	333	402
Shale	39	80			
Sand Rock	80	95			
Sandy Shale	95	136			
Sand Rock	136	164			
Sandy Shale	164	178	Ran 7" OD perforated casing.		
Shale	178	210	No cement.		
Sand Rock	210	238			
Shale	238	240			
Sand Rock	240	291			
Sandy Shale	291	303	Estimated to produce 38 GPM		
Sand	303	314			
Shale	314	333			

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Lowry et al Operating Account

Address Room 215
616 East Central Avenue
Albuquerque, New Mexico

By E. R. Richardson
Title Business Manager

U. S. GOVERNMENT PRINTING OFFICE 16-8437-4

Form 9-331a
(Feb 1951)

Budget Bureau 42-R358.2.
Approval expires 12-31-52.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office ____
Lease No. 03551
Unit ____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 13, 1952

Water Well No. 8 is located 45 ft. from {N/S} line and 9 ft. from {E/W} line of sec. 4

SE SE Section 4 (¼ Sec. and Sec. No.) 26N (Twp.) 6½ (Range) N.M.P.M. (Meridian)

Wildcat (Field) Rio Arriba (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ____ ft. Not Known

Spudded 11-15-51 DETAILS OF WORK Completed 11-29-51

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Sand	0	20	Shale	400	406
Clay	20	39			
Shale	39	78			
Sand Rock	78	105			
Sandy Shale	105	135	Ran 7" OD perforated casing.		
WaterSand	135	158	No cement.		
Sand Rock	158	236			
Shale	236	245			
Water Sand	245	260			
Shale	260	272	Estimated to produce 32 GPM		
Sand Rock	272	320			
Sand	320	340			
Sand Rock	340	400			

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Lowry et al Operating Account

Address Room 215
616 East Central Avenue
Albuquerque, New Mexico

By E. R. Richardson
E. R. Richardson
Title Business Manager

U. S. GOVERNMENT PRINTING OFFICE 16-8437-4

Malia Villers /FAR/CTOC
09/02/2011 08:14 AM

To Mark Kelly
cc
bcc
Subject Breech D #685F

RE: Breech D #685F
Sec. 11 (K), T26N-R6W, Rio Arriba County

Dear Mr. Kelly,

This submittal is pursuant to Rule 19.15.17.13 requiring operators to notify surface owners of on site burial of temporary pits. XTO Energy Inc. (XTO) is hereby providing written documentation of our intention to close the temporary pit associated with the aforementioned location by means of in place burial.

Should you have any questions or require additional information please feel free to contact me at your earliest convenience (505) 333-3100

Malia Villers
XTO Energy a subsidiary of ExxonMobil
Office. 505-333-3698
Cell: 505-787-7700
Fax: 505-333-3284
malia_villers@xtoenergy.com

XTO Energy Inc.
San Juan Basin
Pit Design and Construction Plan

In accordance with Rule 19 15 17 11 NMAC the following information describes the design and construction of temporary pits on XTO Energy Inc (XTO) locations This is XTO's standard procedure for all temporary pits A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan

1. XTO will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public heath and environment.
2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration
3. XTO will post a well sign, in compliance with 19 15 3.103 NMAC, on the well site prior to construction of the temporary pit. The sign will list the Operator on record as the operator, the location of the well site by unit letter, section, township, range, and emergency telephone numbers
4 XTO shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes
5. XTO shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure
6. XTO shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
7. Pit walls will be walked down by a crawler type tractor following construction
8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements
9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep
11 XTO will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used when possible XTO will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope XTO will minimize the number of field seams in corners and irregularly shaped areas
12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system
13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some areas.
14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.

XTO Energy Inc.
San Juan Basin
Maintenance and Operating Plan

In accordance with Rule 19 15.17 12 NMAC the following information describes the operation and maintenance of temporary pits on XTO Energy Inc locations This is XTO's standard procedure for all temporary pits A separate plan will be submitted for any temporary pit which does not conform to this plan

General Plan

1 XTO will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment

2 XTO will conserve drilling fluids by transmitting liquids to pits ahead of the rigs whenever possible. All drilling fluids will be disposed at Basin Disposal Inc, Permit # NM-01-005

3. XTO will not discharge or store any hazardous waste in any temporary pit.

4. If any pit liner integrity is compromised, or if any penetration of the liner occurs above the liquid surface, then XTO shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner

5. If a leak develops below the liquid level, XTO shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner XTO shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels XTO shall notify the Aztec Division office as required pursuant to Subsection B of 19.15 3 116 NMAC within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19 15 3 116 NMAC shall be reported to the division's Environmental Bureau Chief

6 The liner shall be protected from any fluid force or mechanical damage through the use of mud pits slides, or a manifold system

7 The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases

8. XTO shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from pits surface. An oil absorbent boom will be stored on-site until closure of pit.

9. Only fluids generated during the drilling or workover process will be discharged into a temporary pit

10 XTO will maintain the temporary pit free of miscellaneous solid waste or debris.

11 During drilling or workover operations, XTO will inspect the temporary pit at least once daily to ensure compliance with this plan Inspections will be logged and logs maintained for review. XTO will file this log with the Aztec Division office upon closure of the pit.

12 After drilling or workover operations, XTO will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at XTO's office electronically and will be filed with the Aztec Division office upon closure of the pit.

13 XTO shall maintain at least two feet of freeboard for a temporary pit

14. XTO shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling or workover rig.

XTO Energy Inc.
San Juan Basin
Closure Plan

In accordance with Rule 19.15.17 13 NMAC the following information describes the closure requirements of temporary pits on XTO Energy Inc (XTO) locations This is XTO's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of pit closure. Closure report will be filed on C-144 and incorporate the following.

- Details on Capping and Covering, where applicable
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan:

1 All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycled, reused, or reclaimed in a manner that the Aztec Division office approves.

2 The preferred method of closure for all temporary pits will be on-site, in-place burial, assuming that all criteria listed in sub-section (B) of 19 15 17 13 are met.

3. The surface owner shall be notified of XTO proposed closure plan using a means that provides proof of notice i.e., Certified mail, return receipt requested.

4. Within 6 months of the Rig Off status occurring XTO will ensure that temporary pits are closed, re-contoured, and reseeded.

5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally The notification of closure will include the following:
   i. Operators Name
   ii. Location by Unit Letter, Section, Township, and Range Well name and API number

6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "ALL" of the liner i.e., edges of liner entrenched or buried. All excessive liver will be disposed of at a licensed disposal facility

7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve appropriate solidification. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents

8 A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17 13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B 0f 19 15 17 13 i.e., Dig and haul Disposal facility to be utilized should this method be required will be Envirotech, Permit No NM01-0011 or IEI, Permit No. NM01-0010B.

Components	Test Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0 2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300 1	500 or background

9 Upon completion of solidification and testing, the pit area will be backfield with compacted, non-waste containing, earthen material A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater

10 Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, ponding prevention, and erosion prevention. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape

11. Notification will be sent to OCD when the reclaimed area is seeded

12. XTO shall seed the disturbed areas the first growing season after the operator closes the pit Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM of Forest Service stipulated seed mixes will be used on Federal Lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time all wells on the pad are abandoned The operator's information will include the following. Operators Name, Lease Name, Well Name and Number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location

XTO Energy Inc.
San Juan Basin
Closed-Loop System Design and Construction Plan

In accordance with Rule 19 15.17 11 NMAC the following information describes the design and construction of closed-loop systems on XTO Energy Inc (XTO) locations This is XTO's standard procedure for all closed-loop systems A separate plan will be submitted for any closed-loop system which does not conform to this plan

General Plan

Our closed-loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will entail an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be of sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

1 Fencing is not required for an above ground closed-loop system
2. It will be signed in compliance with 19.15.3.103 NMAC

XTO Energy Inc.
San Juan Basin
Closed-Loop Systems Maintenance and Operating Plan

In accordance with Rule 19 15 17 11 NMAC the following information describes the operation and maintenance of closed-loop systems on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all closed-loop systems A separate plan will be submitted for any closed-loop system which does not conform to this plan

General Plan

The closed-loop tank will be operated and maintained, to contain liquids and solids, to aid in the prevention of contamination of fresh water sources, in order to protect public health and the environment To attain the goal the following steps will be followed.

1. The liquids will be vacuumed out and disposed of at the Basin Disposal, Inc. facility (Permit Number NM01-005). An alternative if available for liquids disposal, will be to move the liquids forward to a XTO temporary pit constructed in accordance with all specifications in NMAC Rule 19 15 17 for a well yet to be drilled All specifications, limitations, and rules within the New Mexico Administrative Code regulating this transfer of liquids will be strictly adhered to As a third alternative, if Basin Disposal turns away the fluids because of capacity reasons, and the second transfer option is not available, XTO may elect to haul fluids to IEI (Permit Number NM01-0010B) for final disposition.
2 Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit Number NM01-0011) or IEI (Permit Number NM01-0010B) on a periodic basis to prevent over topping
3. No hazardous waste, miscellaneous solids, waste, or debris will be discharged into, or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
4. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon discovery of the compromised tank, repairs will be enacted immediately
5. All of the above operations will inspected and a log will be signed and dated daily during rig operations.

XTO Energy Inc.
San Juan Basin
Closed-Loop System Closure Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the closure requirements of closed-loop systems on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all closed-loop systems. A separate plan will be submitted for any closed-loop system which does not conform to this plan

General Plan

XTO will close a drying pad used for a closed-loop system within six months from the date that XTO released the drilling or workover rig. XTO will not the date of the drilling or workover rig's release on form C-105 or C-103, riled with the division, upon the well's or workover's completion.

The closed-loop tank will be closed in accordance with 19.15.17.13 NMAC. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit Number NM01-0011) or IEI (Permit Number NM01-0010B) immediately following rig operations.

All remaining liquids will be transported and disposed of at the Basin Disposal, Inc facility (Permit Number NM 01-005) As an alternative (in the event Basin Disposal refused liquids because of capacity considerations, and if proper inventory space is available for liquids transfer while meeting free board requirements), the liquids will be moved forward to a XTO temporary pit constructed in accordance with all specifications in NMAC Rule 19.15.17 for a well yet to be drilled. All specifications, limitations, and rules within the New Mexico Administrative Codes regulating this transfer of liquids will be strictly adhered to As a third alternative, if Basin Disposal turns away the fluids because of capacity reasons, and the second transfer option is not available, XTO may elect to haul the fluids to IEI (Permit Number 01-0010B) for final disposition.

The tanks will be removed from the location as part of the rig move. At the time of well abandonment the site will be reclaimed and re-vegetated to pre-existing conditions when possible

XTO Energy Inc.
San Juan Basin
Closed-Loop System Closure Plan

In accordance with Rule 19.15.17.11 NMAC the following information describes the closure requirements of closed-loop systems on XTO Energy Inc. (XTO) locations. This is XTO's standard procedure for all closed-loop systems. A separate plan will be submitted for any closed-loop system which does not conform to this plan.

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