

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

5. Lease Serial No.
NMSF-078641
6. If Indian, Allottee or Tribe Name
N/A

1a. Type of work: ☒ DRILL ☐ REENTER

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

2. Name of Operator
XTO ENERGY INC. 167067

3a. Address 2700 FARMINGTON AVE., BLDG. K-1
FARMINGTON, NM 87401

3b. Phone No. (include area code)
(505) 324-1090

7. If Unit or CA Agreement, Name and No.
N/A NNN173541 CA

8. Lease Name and Well No.
BERGER A 2 22662

9. API Well No.
30-045-32998

10. Field and Pool, or Exploratory
BASIN FRUITLAND COAL 71629

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

At surface 1485 FNL & 935 FEL

At proposed prod. zone SAME

11. Sec., T R M or Blk and Survey or Area

H 21-26N-11W NMPM

14. Distance in miles and direction from nearest town or post office*
16 AIR MILES SOUTH OF BLOOMFIELD

12. County or Parish
SAN JUAN

13. State
NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) 1,485'

16. No. of acres in lease
1,600

17. Spacing Unit dedicated to this well
E2 320

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. 2,332' (XTO's A-1)

19. Proposed Depth
2,100'

20. BLM/BIA Bond No. on file
BLM NATIONWIDE 57 91 73

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6,279' GL

22. Approximate date work will start*
10/01/2005

23. Estimated duration
2 WEEKS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall 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 shall 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 authorized officer.

25. Signature

Name (Printed/Typed)
BRIAN WOOD

Date
03/25/2005

Title

CONSULTANT

PHONE: (505) 466-8120

FAX: (505) 466-9682

Approved by (Signature)

Name (Printed/Typed)

Date

Title

Office

12/13/05

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.

*(Instructions on page 2)

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NMOCD



DISTRICT I
1625 N. Fench Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87504-2088

Form C-102

Revised June 10, 2003

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-046-32998		2 Pool Code 71629		3 Pool Name BASIN FRUITLAND COAL	
4 Property Code 22662		5 Property Name BERGER A			6 Well Number 2
7 OGRID No. 167067		8 Operator Name XTO ENERGY INC.			9 Elevation 6279'

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
H.	21	26-N	11-W	.	1485	NORTH	935	EAST	SAN JUAN

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 320					13 Joint or Infill		14 Consolidation Code C		15 Order No.

16 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

	QTR. CORNER FD 2 1/2" BC GLO 1930		N 89-58-58 W 2633.4' (M)	SEC. CORNER FD 2 1/2" BC GLO 1930	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature BRIAN WOOD Printed Name CONSULTANT Title MAR. 25, 2005 Date
LAT: 36°28'36" N. (NAD 27) #1E LONG: 108°00'10" W. (NAD 27)					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. Date of Survey Signature and Seal of Professional Surveyor 14831 Certificate Number

Submit 3 Copies To Appropriate District
Office
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 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

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

WELL API NO. 30-045-32998

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
NMSF-078641

7. Lease Name or Unit Agreement Name
BERGER

8. Well Number 6 S

9. OGRID Number 167067

10. Pool name or Wildcat
BASIN FRUITLAND COAL GAS

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator XTO ENERGY INC.

3. Address of Operator 2700 FARMINGTON AVE., BLDG. K-1,
FARMINGTON, NM 87401

4. Well Location
Unit Letter H : 1485 feet from the NORTH line and 935 feet from the EAST line
Section 21 Township 26N Range 11W NMPM County SAN JUAN

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6,279' GL

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type DRILLING Depth to Groundwater ~200' Distance from nearest fresh water well >1,000' Distance from nearest surface water ~1,500'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbls Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: DRILLING PIT

☒

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed & closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Brian Wood TITLE CONSULTANT DATE 3-25-05

Type or print name BRIAN WOOD

E-mail address: brian@permitswest.com Telephone No. (505) 466-8120

For State Use Only

APPROVED BY: [Signature]
Conditions of Approval (if any):

TITLE

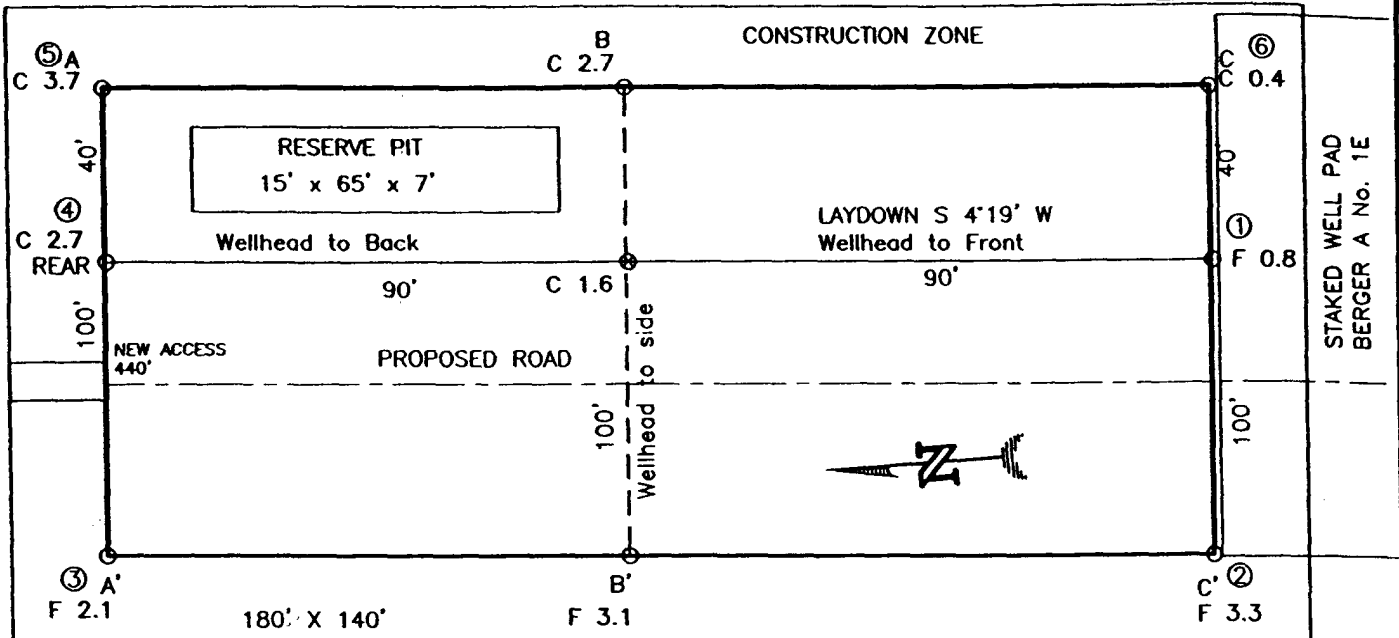
DEPUTY OIL & GAS INSPECTOR, DIST. 40

DATE

DEC 27 2005

XTO ENERGY INC.
 BERGER A No. 2, 1485 FNL 935 FEL
 SECTION 21, T26N, R11W, N.M.P.M., SAN JUAN COUNTY, N. M.
 GROUND ELEVATION: 6279, DATE: JUNE 16, 2004

LAT: 36°28'36" N.
 LONG: 108°00'10" W.
 NAD 27



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.

ELEV. A-A'	C/L				
6290					
6280					
6270					
6260					

ELEV. B-B'	C/L				
6290					
6280					
6270					
6260					

ELEV. C-C'	C/L				
6290					
6280					
6270					
6260					

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.

DATE	REVISION	DATE	REVISION
Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 15088 • Farmington, NM 87401 Phone (505) 326-1772 • Fax (505) 326-6019 NEW MEXICO L.S. No. 14831 DRAFT CR343078			
		DRAWN BY: A.G. ROWN: CR343	

XTO Energy Inc.
Berger A 2
1485' FNL & 935' FEL
Sec. 21, T. 26 N., R. 11 W.
San Juan County, New Mexico

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Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	5'	+6,279'
Ojo Alamo	479'	484'	+5,800'
Farmington Sandstone	579'	584'	+5,700'
Fruitland Coal	1,279'	1,284'	+5,000'
Pictured Cliffs	1,479'	1,484'	+4,800'
Lewis Shale	1,579'	1,584'	+4,700'
Total Depth (TD)*	2,100'	2,105'	+4,179'

2. NOTABLE ZONES

<u>Gas & Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
	Fruitland	

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP system to be used is not yet known. A typical 2,000 psi stack, manifold, and testing procedures are on Page 3.

XTO Energy Inc.
Berger A 2
1485' FNL & 935' FEL
Sec. 21, T. 26 N., R. 11 W.
San Juan County, New Mexico

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4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Age</u>	<u>Connection</u>	<u>Setting Depth</u>
8-3/4"	7"	20	K-55	New	S T & C	160'
6-1/4"	4-1/2"	10.5	K-55	New	S T & C	2,100'

Surface casing will be cemented to the surface with ≈ 50 cubic feet (≈ 43 sacks) Class B + 1/4 lb/sk cello-flake + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume: $\geq 100\%$ excess. A guide shoe and insert float will be used. W. O. C. = 12 hours. Surface casing will be tested to 1,500 psi for 30 minutes.

Production casing will be cemented to the surface. Total cement: > 437 cubic feet. Volumes are calculated at $> 100\%$ excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. W. O. C. = 12 hours. Test to 2,000 psi.

Lead cement will be ≈ 185 sacks Class B light cement (65% cement/35% Poz with 6% gel) with 5 #/sack gilsonite + 1/4 #/sack Flocele. Yield = 1.99 cu ft/sk. Weight = 12.4 #/gal.

Tail cement will be ≈ 50 sacks 50/50 Class B Poz with 2% gel + 1/4#/sack Flocele + 0.5% Halad 9. Yield = 1.38 cubic feet/sack. Weight = 13.5 #/gallon.

Cement equipment will include a guide shoe, float collar, and 10 centralizers.

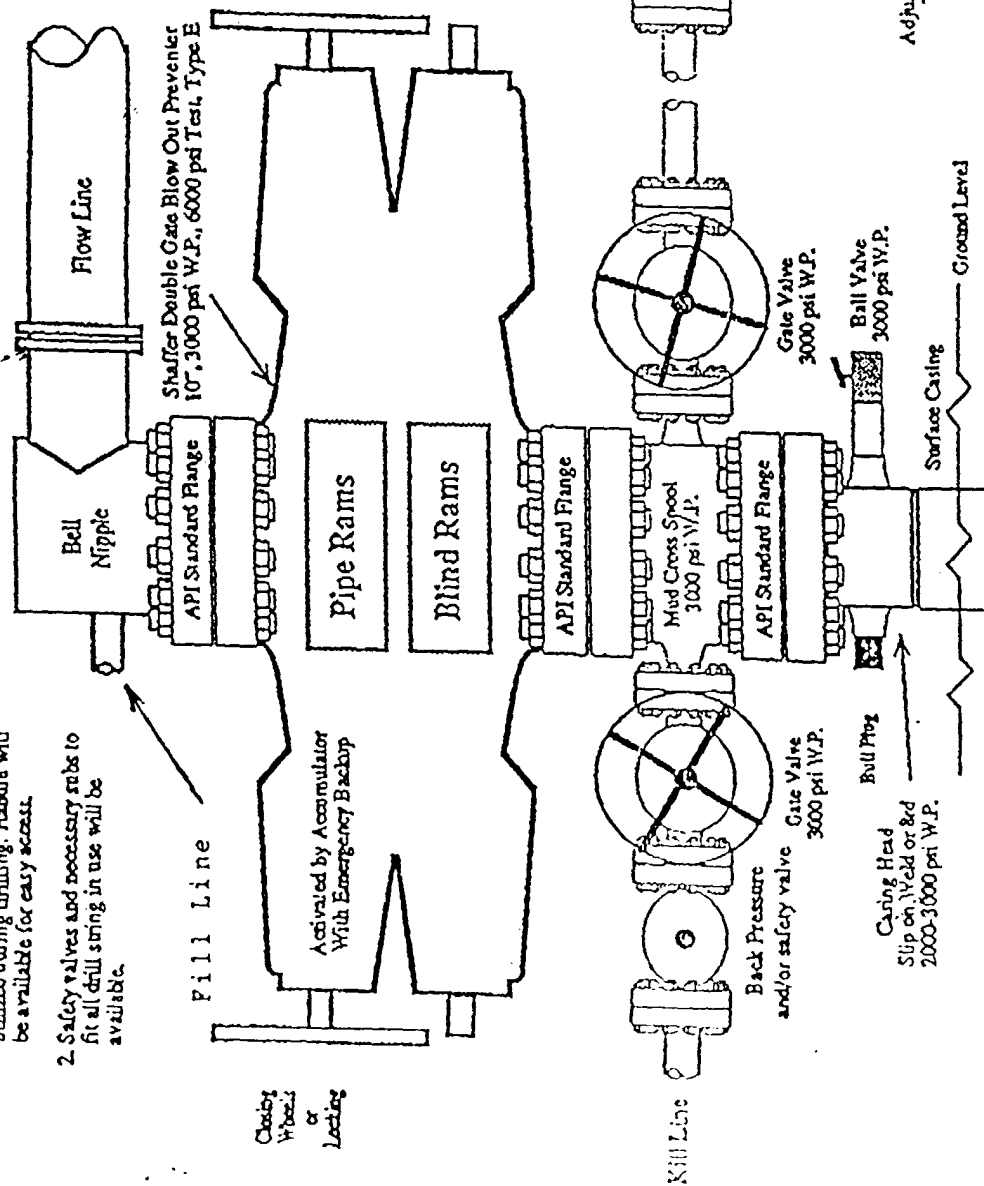
5. MUD PROGRAM

<u>Range</u>	<u>Mud Type</u>	<u>Weight</u>
0' - 160'	Fresh-Spud	8.4
160' - TD	LSND	8.6

Lost circulation and absorption material will be on location.

Pressure Control Equipment

- Notes:
1. An upper Kelly cock valve will be utilized during drilling. Handles will be available for easy access.
 2. Safety valves and necessary sub to fit all drill string in use will be available.



Minimum 2" Choke Line
Minimum 2" Kill Line.
At Least One 2" Minimum Kill Line Valve.

Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

XTO Energy Inc.
Berger A 2
1485' FNL & 935' FEL
Sec. 21, T. 26 N., R. 11 W.
San Juan County, New Mexico

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