

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

2003 APR 28

5. Lease Serial No.
NMSF-078641

6. If Indian, Allottee or Tribe Name

N/A

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

N/A

8. Lease Name and Well No.

Berger 3 E

9. API Well No.

30-045- 31656

10. Field and Pool, or Exploratory

Gallegos Gallup & Basin Dakota

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

L 22-26n-11w NMPM

12. County or Parish

San Juan

13. State

NM1a. Type of Work: ☒ DRILL ☐ REENTER

070 Farmington

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone2. Name of Operator
XTO Energy Inc.3a. Address **2700 Farmington Ave., Bldg. K-1
Farmington, NM 87401**3b. Phone No. (include area code)
(505) 324-1090

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

At surface **1900' FSL & 990' FWL**At proposed prod. zone **Same**

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

17 air miles S of Bloomfield, New Mexico15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)**1,147'**

16. No. of Acres in lease

1,600

17. Spacing Unit dedicated to this well

40 (Gall: NW SW & 320 (Dak.: S2)18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.**2,713'**

19. Proposed Depth

6,700'

20. BLM/BIA Bond No. on file

BLM nation wide: 57 91 73

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

6,265' ungraded

22. Approximate date work will start*

May 1, 2003

23. Estimated duration

12 days to drill

24. Attachments

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

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

Comments

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

cc: BIA, BLM (& OCD), NAPI, Patton, Tribe

25. Signature	Name (Printed/Typed)	Date
	Brian Wood	4-24-03
Title	Phone: 505 466-8120 FAX: 505 466-9682	
Consultant		
Approved by (Signature)	Name (Printed/Typed)	Date
	David J. Markiewicz	4-24-03
Title	Office	

Application approval does not warrant or certify the 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.

NMOCD

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

DISTRICT II
811 South First, Artesia, N.M. 88210

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 26980 & 71599	³ Pool Name GALLEGOS GALLUP & BASIN DAKOTA
⁴ Property Code 2-2661	⁵ Property Name BERGER	⁶ Well Number 3E
⁷ OGRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6265'

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
L	22	26-N	11-W	.	1900	SOUTH	990.	WEST	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 80 40 & 320					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.

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

<p>16 SEC. CORNER FD 2 1/2" BC U.S.G.L.O. 1930</p> <p>RECEIVED 2003 APR 28 AM 11:21 070 Farmington, NM</p> <p>N 00-58-57 E 5230.3'</p> <p>710'</p> <p>990'</p> <p>330'</p> <p>1900'</p> <p>22</p> <p>LAT: 36°28'17.5" N. LONG: 107°59'49" W.</p> <p>SEC. CORNER FD 2 1/2" BC U.S.G.L.O. 1930</p> <p>N 89-58-23 E 2639.6'</p> <p>QTR. CORNER FD 2 1/2" BC U.S.G.L.O. 1930</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Brian Wood</i> Signature BRIAN WOOD Printed Name CONSULTANT Title APR. 24, 2003 Date</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>AUG 13 2001 Date of Survey DANIEL A. JOHNSON Signature NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 14827 Certificate Number</p>
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XTO Energy Inc.
Berger 3 E
1900' FSL & 990' FWL
Sec. 22, 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 Fm	000'	12'	+6,265'
Fruitland Fm	900'	912'	+5,365'
Pictured Cliffs Sandstone	1,505'	1,517'	+4,760'
Lewis Shale	1,645'	1,657'	+4,620'
Mesa Verde Sandstone	2,415'	2,427'	+3,850'
Mancos Shale	4,235'	4,247'	+2,030'
Gallup Sandstone	5,070'	5,082'	+1,195'
Lower Mancos Shale	5,245'	5,257'	+1,020'
Greenhorn Limestone	5,955'	5,967'	+310'
Dakota Sandstone	6,075'	6,087'	+190'
Morrison Formation	6,365'	6,377'	-100'
Total Depth (TD)*	6,700'	6,712'	-435'

* all elevations reflect the ungraded ground level of 6,265'

2. NOTABLE ZONES

<u>Gas or Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Fruitland	
Gallup		
Dakota		

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.

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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 and manifold are on PAGES 3 and 4. Testing procedures are on the same pages.

4. CASING & CEMENT

	<u>Surface Casing</u>	<u>Production Casing</u>
Interval	0' - 300'	0' - 6700'
Hole Diameter	12-1/4"	7-7/8"
Casing Diameter	8-5/8"	4-1/2"
Weight (pounds/foot)	24	10.5
Grade	J-55	J-55
Coupling	ST & C	ST & C
Collapse Rating (psi)	1370	4010
Burst Rating (psi)	2950	4790
Jt.-Str. (M-lbs)	244	132
I. D. (inches)	8.097	4.052
Drift (inches)	7.972	3.875
SF Coll	9.44	1.28
SF Burst	13.72	1.06
SF Ten	33.89	1.87
Centralizers	3-4	20

Casing head will be Larkin Fig 92 or its equivalent, 9" nominal, 2000 psi WP, (4000 psi test) with 8-5/8" 8 rounded thread on bottom, and 11-3/4" 8 rounded thread on top. Tubing head will be Larkin Fig 612 or its equivalent, 2000 psi WP (4000 psi test), 4-1/2" 8 rounded female thread on bottom, and 8-5/8" rounded thread on top.

Surface casing will be cemented to surface with ≈ 185 sacks Type III cement with 2% CaCl_2 + 1/4 pound per sack cello flake mixed with 6.33 gallons of water per sack. Weight = 14.8 pounds/gallon. Volume = 1.34 cubic feet/sack. Total volume = 248 cubic feet based on 100% excess.