

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

RECEIVED

5. LEASE DESCRIPTION AND AREA NMSF-078641

6. IF INDIAN, ALLOTTEE OR TRIBE N/A

7. UNIT AGREEMENT NAME N/A

8. FARM OR LEASE NAME, WELL NO. 22661 Berger 6

9. API WELL NO. 30045 31204

10. FIELD AND TOOL BOX NO. Basin Fruit Coal

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA A22-26n-11w NMPM

12. COUNTY OR PARISH San Juan 13. STATE NM

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

XTO Energy Inc.

(505) 324-1090

3. ADDRESS AND TELEPHONE NO.

2700 Farmington Av, Bldg K, Ste 1, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

940' FNL & 865' FEL

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

17 air miles S of Bloomfield

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

940'

16. NO. OF ACRES IN LEASE

1,600

17. NO. OF ACRES ASSIGNED TO THIS WELL

320 (N2)

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

18'

19. PROPOSED DEPTH

1,975'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6,342' ungraded

22. APPROX. DATE WORK WILL START*

Mar. 1, 2003

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	K-55 7"	20	160'	≈50 cu. ft. & to surface
6-1/4"	K-55 4-1/2"	10.5	1,975'	≈415 cu. ft. & to surface

The other producing well in the quarter-quarter is XTO's Berger 4.



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 (via BLM), Patton, Tribe

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

DATE

Consultant (505) 466-8120

9-14-02

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

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:

APPROVED BY

/s/ David J. Mankiewicz

TITLE

DATE

*See Instructions On Reverse Side

JAN 24 2003

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

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

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31204	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 22661	⁵ Property Name BERGER	⁶ Well Number 6
⁷ GRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6342'

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
A	22	26-N	11-W		940'	NORTH	865'	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 320.00					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

<div><p>16</p><p>FD QUARTER COR 1930 GLO BC</p><p>S 89-06-53 W 2629.4'</p><p>940'</p><p>450'</p><p>383'</p><p>865'</p><p>S 00-44-13 W 2647.3'</p><p>3/4" REBAR IN WASH. ORIG. COR WASHED OUT</p><p>LAT: 36°28'42" LONG: 107°59'07" W</p><p>JAN 2003</p><p>RECEIVED</p><p>2002 SEP 16 PM 4:24</p><p>070 ELMINGTON, NM</p></div>	<div><p>17</p><p>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></p><p>Signature</p><p>BRIAN WOOD</p><p>Printed Name</p><p>CONSULTANT</p><p>Title</p><p>SEPT. 14, 2002</p><p>Date</p></div>
	<div><p>18</p><p>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>APPROVED</p><p>NEW MEXICO</p><p>2002</p><p>Date of Survey</p><p>Signature</p><p>Seal of Professional Surveyor</p><p>14827</p><p>REGISTERED PROFESSIONAL SURVEYOR</p><p>14827</p><p>Certificate Number</p></div>

XTO Energy Inc.
Berger 6
940' FNL & 865' FEL
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>Subsea Elevation</u>
Nacimiento Fm	000'	12'	+6,342'
Ojo Alamo Ss	588'	593'	+5,754'
Kirtland Sh	698'	703'	+5,644'
Fruitland Fm	1,035'	1,040'	+5,037'
Lower Fruitland Coal	1,603'	1,608'	+4,739'
Pictured Cliffs Ss	1,649'	1,654'	+4,693'
Lewis Sh	1,973'	1,978'	+4,369'
Total Depth (TD)*	1,975'	1,980'	+4,367'

* all elevations reflect the ungraded ground level of 6,342'

2. NOTABLE ZONES

<u>Gas or Oil Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Kirtland	
	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 and manifold are on PAGE 3. Testing procedures are on the same page.

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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>GL Setting Depth</u>
8-3/4"	7 "	20	K-55	New	ST & C	160'
6-1/4"	4-1/2"	10.5	K-55	New	ST & C	1,975'

Surface casing will be cemented to the surface with ≈50 cubic feet (≈43 sacks) Class B + 1/4 lb/sk cello-flake + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. A guide shoe and insert float will be used. W.O.C. =12 hours. Surface casing will be tested to 1500 psi for 30 minutes.

Production casing will be cemented to the surface. Total cement = 415 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 2000 psi.

Lead cement will be ≈155 sacks Class B light cement (65% cement/35% Poz with 6% gel) with 5 #/sack gilsonite + 1/4 #/sack Flocele. Yield = 1.99 cubic feet per sack. Weight = 12.4 pounds per gallon.

Tail cement will be ≈80 sacks 50/50 Class B Poz with 2% gel + 1/4 pound per sack Flocele + 0.5% Halad-9. Yield = 1.38 cubic feet per sack. Weight = 13.5 pounds per gallon.

Cement equipment will include a guide shoe, float collar, and 9 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.