

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

070

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

Cross Timbers Operating Company XTO ENERGY, INC

3. ADDRESS AND TELEPHONE NO.

2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401

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

At surface

875' FSL & 820' FEL Sec 17, T32N, R12W

At proposed prod. zone

same

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

See enclosed surface use program

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any) 820'

16. NO. OF ACRES IN LEASE

302.63

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

302.63

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

550'

19. PROPOSED DEPTH

4,650'

20. ROTARY OR CABLE TOOLS

0'-4,650' w/Rotary Tools

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

5,991' GL

22. APPROX. DATE WORK WILL START\*

Nov. 2001

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8", J-55	24#	160'	75 sx type III cmt
8-3/4"	7", J-55	20#	2,700'	425 sx cmt in two stages
6-1/4"	4-1/2", J-55	10.5#	4,650'	240 sx cmt of lite weight cement

The above mentioned well will be drilled as described in the enclosed surface use plan.



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

*JW Patton*

TITLE Drilling Engineer

DATE 9/17/01

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

10/31/01

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:

This permit is subject to technical and  
procedures review pursuant to 43 CFR 3165.3  
and Special Permit to 43 CFR 3165.4.

NMOCQ

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
GENERAL PERMIT 10/31/01

APPROVED BY

*[Signature]*

TITLE

AFM Minerals

DATE

10/31/01

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

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  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-30841	<sup>2</sup> Pool Code 72319	<sup>3</sup> Pool Name BLANCO MESAVERDE
<sup>4</sup> Property Code 32817	<sup>5</sup> Property Name STANOLIND GAS COM "D"	<sup>6</sup> Well Number 1B
<sup>7</sup> GRID No. 167067	<sup>8</sup> Operator Name XTO ENERGY INC.	<sup>9</sup> Elevation 5991'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	17	32-N	12-W		875	SOUTH	820	EAST	SAN JUAN

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 302.63		<sup>13</sup> Joint or Infill S/2 I		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

16	LOT 4	LOT 3	LOT 2	LOT 1
LOT 5	LOT 6	LOT 7	LOT 8	
LOT 9	LOT 10	LOT 11	LOT 12	
LOT 13	LOT 14	LOT 15	LOT 16	

QTR. CORNER  
FD 3 1/2" BC  
BLM 1952

QTR. CORNER  
FD 3 1/2" BC  
BLM 1952

SEC. CORNER  
SET P & C  
LS 8894

LAT: 36°58'53" N  
LONG: 108°06'45" W

N 88-31-53 E  
2499'

430'

820'

447'

875'

2643.1'

N 00-26-26 E

RECEIVED  
NOV 2001  
OIL CON. DIV  
DIST. 8

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature Jeffrey W. Patton

Printed Name JEFFREY W. PATTON

Title DRILLING ENGINEER

Date 9-17-01

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 belief.

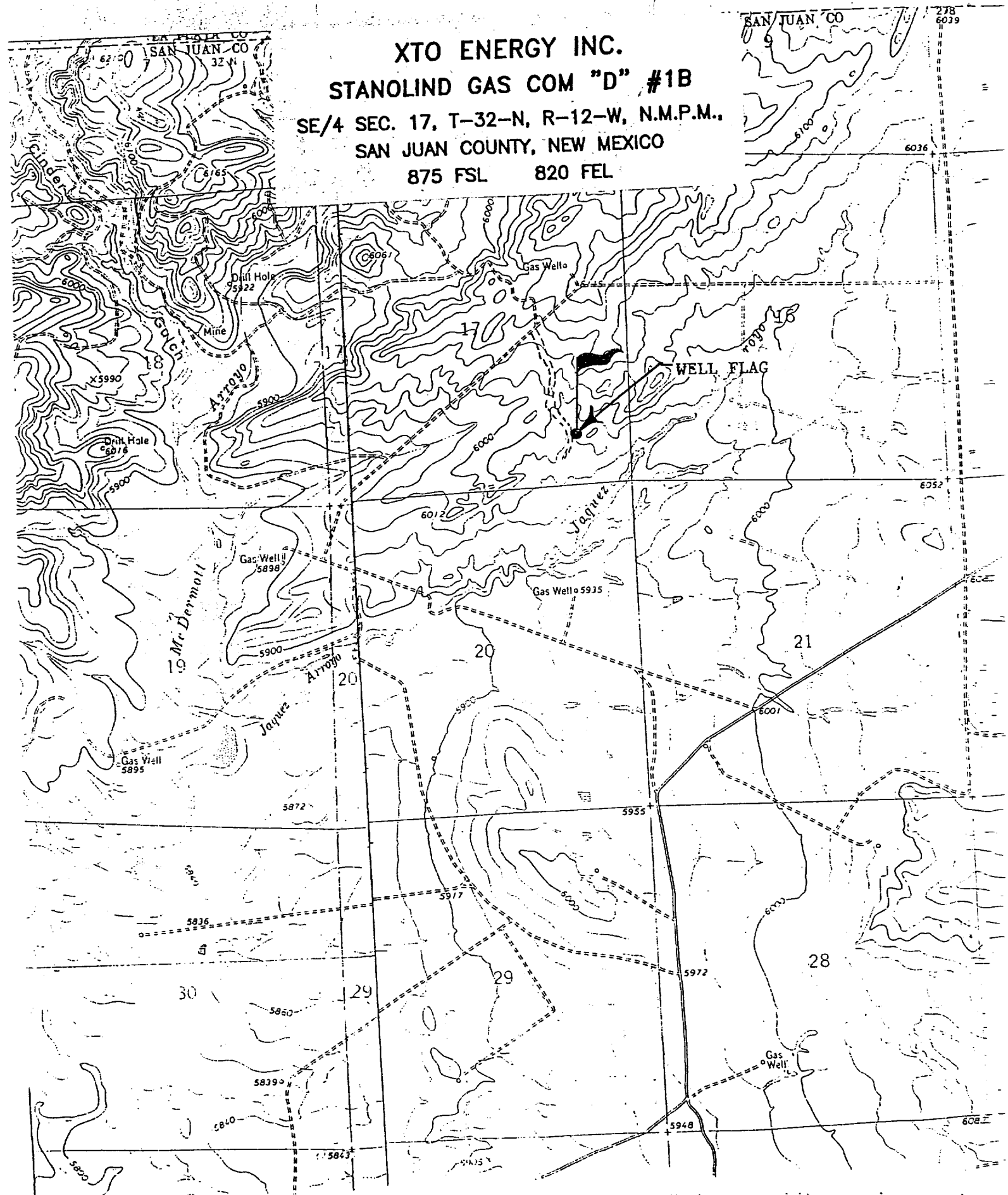
Date of Survey 6-11-01  
Signature and Seal of Professional Surveyor: ROY A. RUSH

Professional Land Surveyor  
8894

Certificate Number 8894

**XTO ENERGY INC.**  
**STANOLIND GAS COM "D" #1B**

**SE/4 SEC. 17, T-32-N, R-12-W, N.M.P.M.,**  
**SAN JUAN COUNTY, NEW MEXICO**  
**875 FSL 820 FEL**



3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9-5/8" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.437" nominal, 2,000 psig WP (4,000 psig test), 7" 8rnd female thread on bottom and a flanged fitting on top.

4. CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both the surface and intermediate casing strings and to circulate cement above the liner hanger on the liner string):

- A. Surface: 9-5/8", 32.3#, H-40, STC casing to be set at  $\pm 160'$ .

Lead: 75 sx of Type III cement containing 2%  $\text{CaCl}_2$ , 1/4 pps celloflake, mixed at 14.6 ppg, 1.39  $\text{ft}^3/\text{sk}$ , & 6.30 gal wtr/sk.

*Total slurry volume is 104  $\text{ft}^3$ , 100% excess of calculated annular volume to 160'.*

- C. Intermediate: 7", 20.0#, J-55, STC casing to be set at  $\pm 2,700'$ .

Lead: 325 sx of Type III 65/35 poz with 8% gel, 1%  $\text{CaCl}_2$  & 1/4 pps celloflake mixed at 12.1 ppg, 2.09  $\text{ft}^3/\text{sk}$ , 14.63 gal wtr/sx.

Tail: 100 sx of Class "B" cement containing 1%  $\text{CaCl}_2$  & 1/4 pps celloflake mixed at 14.6 ppg, 1.39  $\text{ft}^3/\text{sk}$ , 6.30 gal wtr/sx..

*Total slurry volume is 818  $\text{ft}^3$ , 100% excess of calculated annular volume to 2,700'.*

*Must have 100' overlap w/ 7" minimum*

- B. Production Casing: 4-1/2", 10.5#, J-55, STC liner to be set at 4,650'. TOC @ 2,200'.

Lead: 140 sx of Class "H" 50/50 poz w/4% gel, 1%  $\text{CaCl}_2$  and 0.4% FL-52 mixed at 13.2 ppg, 1.45  $\text{ft}^3/\text{sk}$ , 7.7 gal wtr/sx.

Tail: 100 sx of Class "H" 50/50 poz w/4% gel, 1%  $\text{CaCl}_2$ , 0.4% FL-52, 1/4 pps celloflake & 4% Phenoseal mixed at 13.2 ppg, 1.45  $\text{ft}^3/\text{sk}$ , 7.7 gal wtr/sx..

*Total estimated slurry volume for the 4-1/2" production liner is 348  $\text{ft}^3$  using 50% excess.*

*Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 50%. It will be attempted to circ cement 500' into the casing overlap.*

5. LOGGING PROGRAM:

- A. Mud Logger: A 2 man mud logging unit will come on the hole from 3,000' to TD.
- B. Open Hole Logs as follows: Run Induction/SFL/GR/SP/density/Cal and Pe fr/TD to the bottom of the intermediate csg. Use logging tools for air drilled hole.

## **BOP SCHEMATIC FOR DRILLING OPERATIONS CLASS 1 (2M) NORMAL PRESSURE**

**ROTATING HEAD  
(OPTIONAL)**

**FILL UP LINE**

**FLOW LINE  
TO PIT**

**PIPE  
RAMS**

**BLIND  
RAMS**

**TO CHOKE  
MANIFOLD  
2" dia min.**

See Choke Manifold drawing for  
specifications

**HCR VALVE (OPTIONAL)**

**2" (MIN) FULL OPENING  
VALVE**

**MUD CROSS**

**KILL LINE  
2" dia min.**

**\*\* Remove check or ball  
from check valve and  
press test to same press  
as BOP's. \*\***

1. Test BOP after installation:

Pressure test BOP to 200-300  
psig (low pressure) for 5 min.

Test BOP to Working Press or  
to 70% internal yield of surf csg  
(10 min).

2. Test operation of (both) rams  
on every trip.

3. Check and record Accumulator  
pressure on every tour.

4. Re-pressure test BOP stack after  
changing out rams.

5. Have kelly cock valve with handle available.

6. Have safety valve and subs to fit all sizes of  
drill string.

**TESTING  
PROCEDURE**