

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on
reverse side)

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

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

XT0 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

2460' FNL & 665' FEL Sec 29, T31N, R12W
At proposed prod. zone

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

Approx 8 miles northwest of the Flora Vista Post Office

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

665'

16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320 1/2

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

1,250'

19. PROPOSED DEPTH

7,400'

20. ROTARY OR CABLE TOOLS

0'-7,400' w/Rotary Tools

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

6,082' Ground level

22. APPROX. DATE WORK WILL START*

Fall 2002

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", H-40	32.3#	265'	140 sx Class "B"
8-3/4"	7", J-55	20.0#	3,150'	275 sx Liteweight cement
6-1/4"	4-1/2", J-55	10.5#	7,400'	315 sx Premium Lite HS

XT0 Energy Inc. plans to drill the above mentioned well as described in the enclosed Surface Use Program.

The pipeline ROW is also enclosed with this APD.

This well will also require access road ROW.

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

APD/ROW

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

QW Patton

TITLE Drilling Engineer

DATE 7/30/02

(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

Walter Townsend

TITLE

Ret. Eng.

DATE

10/28/02

*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,

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

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

**2040 South Pacheco
Santa Fe, NM 87505**

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30045-31164	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 22636	⁵ Property Name STANOLIND "A"	⁶ Well Number 2E
⁷ OGRID No. 167067	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6082'

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	29	31-N	12-W		2460'	NORTH	665'	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 370 E / 2			¹³ Joint or Infill I		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

16 FD BC B.L.M. 1952	S 88-26-48 W 4997.1' (M)	2460' 1104' 665' 584' 252'	FD BC B.L.M. 1951 S 00-23-02 W 2711.8' (M)
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LAT: 36°52'16" N.
 LONG: 108°06'54" W.

29

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

DRILLING ENGINEER

Title

7-30-02

Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plot 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.

Signature of Surveyor

14827

Certificate Number

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

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

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

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

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

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31164		² Pool Code 72319		³ Pool Name BLANCO MESAVERDE	
⁴ Property Code 22636		⁵ Property Name STANOLIND "A"			⁶ Well Number 2E
⁷ GRID No. 167067		⁸ Operator Name XTO ENERGY INC.			⁹ Elevation 6082'

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¹⁶ FD BC B.L.M. 1952		S 88-26-48 W 4997.1' (M)		FD BC B.L.M. 1951	
				2460'	
				1104'	
				S 00-23-02 W 2711.8' (M)	
				665'	
				584'	
				252'	
				FD BC B.L.M. 1951	

LAT: 36°52'16" N.
LONG: 108°06'54" W.

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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 7-30-02

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.

Signature David A. Johnson

Date of Survey 7-30-02

Signature and Seal of Professional Surveyor: 14827

Certificate Number 14827

XTO Energy request ROW approval
to open existing 2 track road for
access to new wells.
Distance 1.806 miles

Stanolind "A" #2E
Proposed new drill well

Stanolind "A" #2F
Proposed new drill well

Lease Road ROW Map for Stanolind "A" #2E & Stanolind "A" #2F

XTO ENERGY INC.

Stanolind "A" #2E

APD Data

July 30, 2002

Surface Location: 2,460' FNL & 665' FEL, Sec 29, T31N, R12W County: San Juan State: New Mexico

TOTAL DEPTH: ±7,400'

GR ELEV: 6,082'

OBJECTIVE: Dakota/Mesaverde

Est KB ELEV: 6,095' (13' AGL)

1. MUD PROGRAM:

INTERVAL	0' to 265'	265' to 3,150'	3,150' to TD
HOLE SIZE	12-1/4"	8-3/4"	6-1/4"
MUD TYPE	FW/Native Mud	FW/Polymer	Air/Foam
WEIGHT	8.6-8.8	8.6-9.0	
VISCOSITY	28-32	29-34	
WATER LOSS	NC	NC	

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. RU air compressors after setting the intermediate csg. Drill with air or foam to TD.

2. CASING PROGRAM:

Surface Casing: 9-5/8" casing to be set at ± 265' in 8.6 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-265'	265'	32.3#	H-40	STC	1370	2270	254	9.001	8.972	5.98	5.68	15.73

Intermediate Casing: 7" casing to be set at ±3,150' in 9.0 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-3,150'	3,150'	20.0#	J-55	STC	2257	3740	234	6.456	6.331	1.15	1.31	2.57

Production Casing: 4-1/2" casing to be set at 7,400' in air.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-7,400'	7,400'	10.5#	J-55	STC	4010	4790	132	4.052	3.927	1.33	1.20	1.90

3. **WELLHEAD:**

- A. Bradenhead: 9-5/8" x 7" 2,000 psig WP (4,000 psig test).
Casinghead: 7" x 4-1/2" 3,000 psig WP (6,000 psig test).

4. **CEMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to surface on both casing strings):**

- A. **Surface:** 9-5/8", 32.3#, H-40, STC casing to be set at $\pm 265'$.

Lead: 140 sx of Class "B" (Standard) cement containing 2% CaCl_2 , 1/4 pps celloflake, mixed at 15.6 ppg, 1.18 ft³/sk, & 5.20 gal wtr/sk.

Total slurry volume is 166 ft³, 100% excess of calculated annular volume to 265'.

- B. **Intermediate:** 7", 20.0#, J-55, STC casing to be set at $\pm 3,150'$.

Lead: 225 sx of Class "B" (Standard) cement containing $\pm 3\%$ extender, 1/4 pps celloflake and 2% CaCl_2 mixed at 11.4 ppg, 2.88 ft³/sk, 17.89 gal wtr/sx.

Tail: 50 sx of Class "B" (Standard) cement containing 1/4 pps celloflake and 2% CaCl_2 mixed at 15.6 ppg, 1.18 ft³/sk, 5.20 gal wtr/sx.

Total slurry volume is 707 ft³, circulated to surface. This value is 50% (excess) over gage hole volume.

- C: **Production:** 4-1/2", 10.5#, J-55, STC casing to be set at $\pm 7,400'$.

We plan to cement the production casing in one stage. Prior to cementing, we will unload the hole with nitrogen. The top of cement is design to overlap into the 7" x 4-1/2" annulus between 200-500'.

Lead: 50 sx of Class "H" Premium Lite High Strength (65/35/6), 1/4 pps celloflake, 2% KCl, 0.5% fluidloss, 0.2% dispersant, 0.3% retarder, 0.5% fluid loss & 2% Phenoseal mixed at 11.9 ppg, 2.36 ft³/sk, 13.15 gal wtr/sx.

Tail: 265 sx of Class "H" Premium Lite High Strength (65/35/6), 1/4 pps celloflake, 2% KCl, 0.5% fluidloss, 0.2% dispersant, 0.3% retarder, 0.5% fluid loss & 2% Phenoseal mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

Total estimated slurry volume for the 4-1/2" production casing is 650 ft³ for $\pm 4,750'$ of fill. Est. TOC should be @ $\pm 2,650'$. 35% (excess) over gage hole volume has been added to the number of sacks indicated..

Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined for the caliper logs plus 35%..

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

ROTATING HEAD
(OPTIONAL)

FILL UP LINE

FLOW LINE
TO PIT

PIPE
RAMS

BLIND
RAMS

KILL LINE
2" dia min.

TO CHOKE
MANIFOLD
2" dia min.

See Choke Manifold drawing
specifications

HCR VALVE (OPTIONAL)

** Remove check or ball
from check valve and

MUD CROSS

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

