#### UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE\*
(Other instructions on reverse side)

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

| -  | BUREAU   | OF LAND MAN  | <b>IAGEMENT</b>  |  | 5. LEASE DESIGNATION AND SERIAL NO SF - 079232   |
|--|--|--|--|--|--|
| AP   | PLICATION FOR  | PERMIT TO  | DBU L OD D   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME   |
| la. TYPE OF WORK   | V  | ETHATT TO  | DHILL OR DE  | EPEN   |  |
| b. TYPE OF WELL  | DRILL X  | DEEPEN   |  |  | 7. UNIT AGREEMENT NAME   |
| OIL WELL   | GAS X  |  |  |  | 28096  |
| 2. NAME OF OPERATOR  | OTHER  |  | SINGLE X   | MULTIPLI   | 8. FARM OR LEASE NAME, WELL NO.  |
| Cross Timbers  | Operating Company  |  |  | ZVVF.  | Bolack "C" #1  |
| 5. ADDRESS AND THE EP  | HOMENO   |  |  |  | <u> </u>   |
| 2700 Farmingto   | n Ave., Bldg. K. Ste   | 1 Farmingto  | n MM 07401   |  | 9. API WELL NO.<br>30-045-3102   |
| At surface   | ייים מונים שונים אולים של הייים של הייי | cordance with any Sta  | te requirements the  | <u> 2</u>  | TIV. FIELD AND POOL OF WILDOW  |
| /90 FNL & 1  | 805' FEL C 00  | T27N DOOL  | A Tending  |  | Blanco Mesaverde   |
| At proposed prod. zo.  | ne - 000 20,   | 127N, KU8W   |  |  | 11 876 7   |
| 14. DISTANCE IN MILES A  | ND DDDCCTT   |  |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA |  |
| Approx 24 miles  | ND DIRECTION FROM NEAREST TO<br>S SOUTH down Largo Co<br>POSED <sup>*</sup><br>ST  | OWN OR POST OFFICE   |  |  | Sec 28, T27N, R08W   |
| 15. DISTANCE FROM PRO<br>LOCATION TO NEARE   | POSED*   | anyon from th  | Blanco NM Post   | Office   | 12. COUNTY OR PARISH San Juan 13. STATE  |
| PROPERTY OF LEACE I  | INE, FT.<br>unit line, if any) 695 '   |  | 16. NO OF ACRES IN LEA   |  | NO. OF ACRES ASSIGNED  |
| 18. DISTANCE EDGMERNO.   |  |  | 312.22   |  | TO THIS WELL   |
| OR APPLIED FOR, ON T   | HIS LEASE FT 650'  | ſ  | 19. PROPOSED DEPTH   | 20   | ROTARY OR CABLE TOOLS  |
| 21. ELEVATIONS (Show w   | hether DF,RT, GR, etc.)  |  | 4,950'   |  | 0'-4,950' w/Rotary Tools   |
| 6,082° GL  | , , , , , , ,  |  |  |  | 22. APPROX. DATE WORK WILL START*  |
| 23.  |  |  |  |  | Summer 2002  |
| CUTE OF THE  |  | PROPOSED CASING  | AND CEMENTING PRO  | OGRAM  | Juniner 2002   |
| SIZE OF HOLF<br>12 - 1/4"  | - LIKADE SIZE OF CASING  | WEIGHT PER FOOT  |  | <del></del>                                      |  |
| 7-7/8"   | 8-5/8", J-55   | 24#  |  | ELIH   | QUANTITY OF CEMENT   |
|  | 4 4 40 11  |  | 1 270 <i>'</i>   | 1 7  | 60   |
|  | 4-1/2". J-55   | 10.5#  | <u>270'</u>  |  | 60 sx Type III   |
|  |  | 10.5#  | 4,950  | 6  | 60 sx Type III<br>75 sx Premium Lite cement  |
| XTO Energy In<br>Program.<br>A copy of the<br>RILLING OPERATIONS AUTH<br>BEJECT TO COMPLIANCE W<br>SENERAL REQUIREMENTS"   | nc. plans to drill the pipeline ROW is als   | he above ment so enclosed w  This action is presedural re and appears a                    | 4,950  ioned well as de th this APD.  subject to technic view pursuant to 4 ursuant to 43 CFR  | escribed in all and a GFR 3165.4                 | 75 sx Premium Lite cement  n the enclosed Surface Use  |
| XTO Energy In Program.  A copy of the RILLING OPERATIONS AUTHORISECT TO COMPLIANCE WENERAL REQUIREMENTS".  IN ABOVE SPACE DESCRIBE deepen directionally, give period.  | Proposed Program: If princh data on subsurface location  | he above ment so enclosed w  This action is presedural re and appears a                    | 4,950 ioned well as de th this APD. subject to technical view pursuant to 4 ursuant to 43 CFR  | escribed in all and a GFR 3165.4                 | n the enclosed Surface Use   |
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| XTO Energy In Program.  A copy of the SILLING OPERATIONS AUTH BJECT TO COMPLIANCE WENERAL REQUIREMENTS."  IN ABOVE SPACE DESCRIBE deepen directionally, give period of the space for Federal or the  | nc. plans to drill the pipeline ROW is also HORIZED ARE WITH ATTACHED  | he above ment  so enclosed w  This action is precedural re and appears or and measured and | 4,950  ioned well as de th this APD.  subject to technic view pursuant to 4 ursuant to 43 CFA  give dataon presentprodu true vertical depths. Give | escribed in all and a CFR 3165.4                 | n the enclosed Surface Use  roposednew productivezone. If proposalis to drill or other program, if any.  DATE 3/4/02 |
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DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240

## State of New Mexico Energy, Minerals & Natural Resources Department

Forn Revised August 1

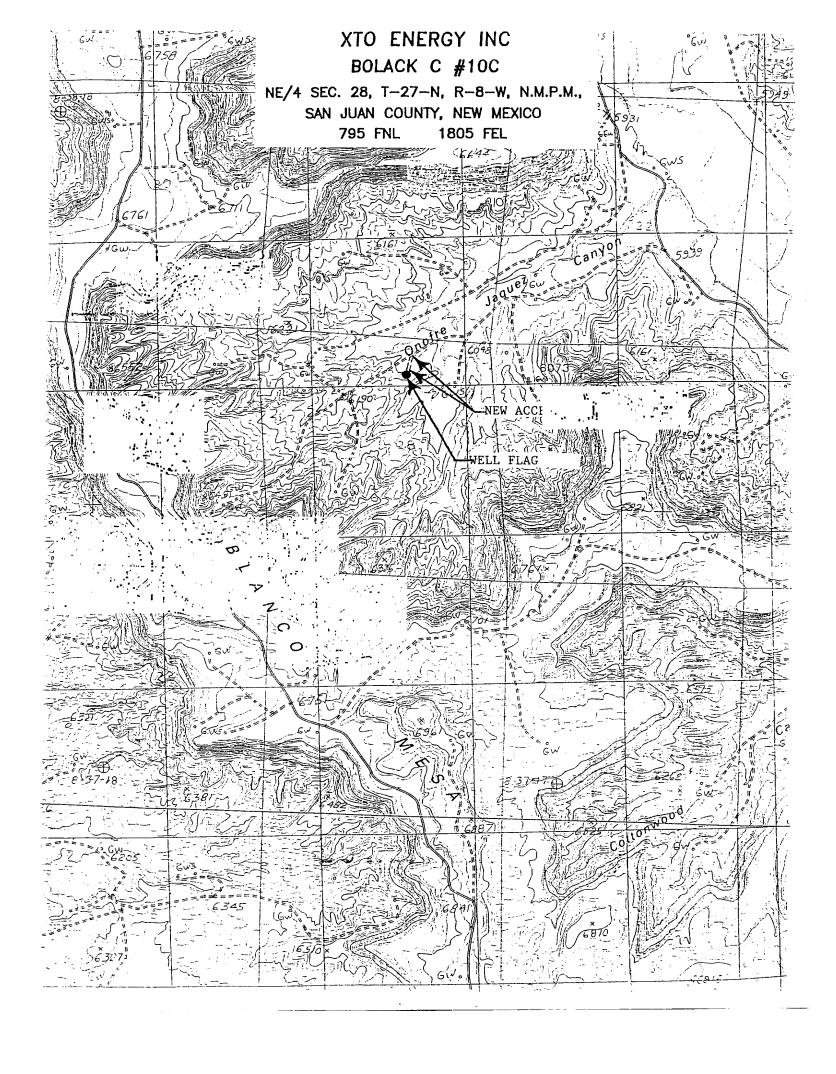
DISTRICT B 811 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brozos Rd., Aziec, N.M. 87410

OIL CONSERVATION DIVISION

Submit to Appropriate District
State Lease — 4
Fee Lease — 3

| DISTRICT IV<br>2040 South Pacheco, Santa | t Fe NU error  | 20<br>Sa              | 40 South Pack   |                                   | N                         | Sto  | ite Lease — 4<br>ee Lease — 3 |
|--|--|-----------------------|-----------------|-----------------------------------|---------------------------|--|-------------------------------|
| 1400                                     |  | LOCATION A            |                 |                                   | D                         |  | AMENDED RI                    |
| 30-045-2                                 | 2/07 6   | *Pool Code            | WE ACKET        | AGE DE                            | DICATION F                | LAT  |                               |
| Property Code                            | 40201  | 72319                 |                 |                                   | 3 Pool Nov                |  |                               |
| 28096                                    |  |                       | S Property Name |                                   | BLANCO M                  | <u>ESALERDE</u>  | •                             |
| OGRID No.                                |  |                       | BOLACK C        |                                   |                           |  | Well Number                   |
| 167067                                   |  |                       | Operator Name   |                                   |                           |  | 10C                           |
|  |  |                       | O ENERGY INC    |                                   |                           |  | Elevation                     |
| UL or lot no. Section                    | Township Range   | 10 5                  | urface Loca     | rtion                             |                           | <del></del>  | 6082'                         |
| B 28                                     | 27-N 8-W   | Let Idn Feet 1<br>795 | rom the Nort    | h/South line                      | Foot 4                    |  | · .                           |
|  | 11 p. u  |                       | NOR             | PTH .                             | Feet from the 1805        | East/West<br>EAST  | 1 4                           |
| UL or lot no. Section                    | Township Rance   | om Hole Loc           | cation If Diff  | erent C-                          |                           |  | SAN JU                        |
|  | rownship Range   | Lot Idn Feet f        | rom the North   | South line                        | om Surface                |  |                               |
| 12 Dedicated Acres                       | Joint or I   | Influ                 | ſ               | ,                                 | Feet from the             | East/West  | line Co                       |
| 312.22                                   |  | Cons                  | olidation Code  |                                   | 15 Order No.              |  |                               |
| NO ALLOWANTE                             | $\leq$ 1   |                       |                 |                                   |                           |  |                               |
| NO ALLOWABLE WI                          | LL BE ASSIGNED   | D TO THIS CO          | MPI ETION       |                                   |                           |  |                               |
| 050                                      | OR A NON-STA   | NDARD UNIT            | WLLFIION N      | ITIL ALL                          | INTERESTS H               | AVE REEN   | COMPANIE                      |
| SEC. CORNER<br>FD 2 1/2" BC              |  |                       | INS BEEN A      | PROVED                            | BY THE DIVI               | SION   | CONSOLIDAT                    |
| BLM 1955                                 | 49   | 100 E' \ 1            |                 | SEC. CORN                         | ER 1                      |  |                               |
| 11                                       |  | 795,                  |                 | FD 2 1/2*<br>BLM 1955             | BC   '' OI                | ERATOR (   | CERTIFICATIO                  |
| - 11 - 1 - 1 - 1                         |  |                       |                 | _ \                               | hereby cartify            | not the informati  | ion contained beauty          |
| - 1                                      | 4 1 The Control of th | 695'                  | 555'            | À                                 | All is any and co         | mplete to the best   | of my knowledge and           |
| 11 1                                     |  | 2                     |                 | 1805'                             | belief.                   |  | y reconcede diff              |
|  | -  | 20                    |                 | \                                 | ω                         | $\bigcap_{i \in I} \bigcap_{j \in I} \bigcap_{i \in I} \bigcap_{j \in I} \bigcap_{j \in I} \bigcap_{i \in I} \bigcap_{j \in I} \bigcap_{j \in I} \bigcap_{j \in I} \bigcap_{i \in I} \bigcap_{j \in I} \bigcap_{j$ | ) 11                          |
|  |  |                       |                 | Ch.                               | 4  (                      | JWF  | atton                         |
| 11                                       |  |                       | 7               | 2626,                             | Signature                 | 7  |                               |
| 11 1                                     |  |                       |                 | / %                               | III _ JEH                 | TRET W PA  | <del>9</del> 777053           |
| 11                                       | ]!   | AT: 36'32'59"         | ,               |                                   | Printed Name              | , 33 17  | 1110/3                        |
| 11 1                                     | }'   | LONG: 10741'10        | ~ w \           | /0                                | 0)                        | 7117 111/111/11  |                               |
| 11                                       | 1  |                       | Α,              |                                   | Title                     | ZILLINK+ EID   | GIBEER                        |
|  | 1  |                       |                 | 77                                | 11                        | 7 4 -  |                               |
|  | 28   | <u> </u>              | \ H             | TR. CORNER<br>2 1/2 BC<br>LM 1955 | Date                      | Z-4-02   | 2                             |
| 1  | 2.0  | 1                     | -               | LM 1955                           | 41                        |  |                               |
|  |  |                       | 1               |                                   |                           |  |                               |
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|  | 1  |                       |                 |                                   | Date of Success           | 1 200  | 2                             |
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|  |  |                       | 1               |                                   | 八、八百、                     |  | 7.50                          |
|  |  |                       | 1               |                                   | 1 16                      | 3+71~"   | 5×1                           |
|  |  |                       | 1               |                                   | ) say                     | KINWIN Y   | 5M                            |
|  | 1  | /                     | 1.              | $\mathcal{M}$                     | · // .                    | 2004   | - 1 (                         |
|  |  |                       | 1 /             | - 11                              | Certificate Number        | 3894   | <del></del>                   |
|  | ·  |                       |                 |                                   |                           |  |                               |



#### XTO ENERGY INC.

#### Bolack "C" #10C **APD Data** February 4, 2002

Location: 795' FNL & 1,805' FEL, Sec 28, T27N, R08W

County: San Juan

State: New Mexico

PROJECTED TOTAL DEPTH: ±4,950'

OBJECTIVE:

Mesaverde

GR ELEV: 6,082'

Est KB ELEV: 6,094 (12' AGL)

#### **MUD PROGRAM:**

| INTERVAL   | 0' to 270'  | 270                             |              |
|------------|-------------|---------------------------------|--------------|
| HOLE SIZE  | 12-1/4"     | 270' to 3,500'                  | 3,500' to TD |
| MUD TYPE   | FW/Spud Mud | 7-7/8"                          | 7-7/8"       |
| WEIGHT     |             | FW/Polymer                      | LSND         |
| VISCOSITY  | 8.6-9.0     | 8.4-8.8                         | 8.6-9.0      |
| WATER LOSS | 28-32       | 28-32                           | 45-60        |
|            | NC          | NC Seepage and lost airculation |              |

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pre-treat with 20% LCM @ 3,500'. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity (>85 sec) at TD for logging. Reduce viscosity after logging for cementing purposes.

#### 2. CASING PROGRAM:

Surface Casing:

8-5/8" casing to be set at  $\pm$  270' in 8.8 ppg mud

|                  |             |           | 70 Casi    | ng to be    | set at ± 2                      | 70' in 8.8                       | ppg mud           |                     |                  |            |                     |                    |
|------------------|-------------|-----------|------------|-------------|---------------------------------|----------------------------------|-------------------|---------------------|------------------|------------|---------------------|--------------------|
| Interval 0'-270' | Length 270' | Wt<br>24# | Gr<br>J-55 | Cplg<br>STC | Coll<br>Rating<br>(psi)<br>1370 | Burst<br>Rating<br>(psi)<br>2950 | Jt Str<br>(M-lbs) | ID<br>(in)<br>8.097 | Drift (in) 7.972 | SF<br>Coll | SF<br>Burst<br>7.95 | SF<br>Ten<br>29.39 |
|                  |             |           |            |             |                                 |                                  |                   |                     |                  |            | 7.55                | 27.33              |

Production Casing: 4-1/2" casing to be set at TD in 9.0 ppg mud.

|          | Cusing. | 4-1   | /2 casi | ng to be | set at TD    | in 9.0 pp    | g mud.            |            |               |            |       |      |
|----------|---------|-------|---------|----------|--------------|--------------|-------------------|------------|---------------|------------|-------|------|
|          |         |       |         | 1        | Coll         | Burst        |                   |            |               | Γ          |       |      |
|          | ength   | Wt    | Gr      | Cplg     | Rating (psi) | Rating (psi) | Jt Str<br>(M-lbs) | ID<br>(in) | Drift<br>(in) | SF<br>Coll | SF    | SF   |
| 0-1D   4 | ,950'   | 10.5# | J-55    | STC      | 4010         | 4790         | 132               | 4.052      | 3.875         |            | Burst | Ten  |
|          |         |       |         |          |              |              |                   |            | 5.675         | 1.66       | 1.33  | 2.44 |

#### 3. **WELLHEAD:**

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 8-5/8" 8rnd thread on bottom and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 2,000 psig WP (4,000 psig test), 4-1/2" 8rnd female thread on bottom, 8-5/8" 8rnd thread on top.

- D , Prognosis
- P of 3

# EMENT PROGRAM (Slurry design may change slightly, but the plan is to circulate cement to e on both casing strings):

A. Surface:

8-5/8", 24#, J-55, STC casing to be set at  $\pm$  270'.

<u>Lead:</u> 160 sx of "Type III" cement containing 3% CaCl<sub>2</sub>, ¼ pps celloflake, mixed at 14.5 ppg, 1.39 ft<sup>3</sup>/sk. & 6.50 gal wtr/sk.

Total slurry volume is 222 ft<sup>3</sup>, 100% excess of calculated annular volume to 270'.

B. Production: 4-1/2", 10.5#, J-55, STC casing to be set at  $\pm 4,950$ '.

<u>Lead:</u> 525 sx of Premium Lite FM (65/35/6) cement containing 2% KCl, ¼ pps celloflake, 2-4% Phenoseal mixed at 11.9 ppg, 2.39 ft<sup>3</sup>/sk, 15.60 gal wtr/sx.

<u>Tail:</u> 150 sx of Premiun Lite HS (65/35/6) cement containing 2% KCl, 7#/sx CSE, ½ pps celloflake, 0.5% Fluid loss, 0.2% Dispersant mixed at 12.5 ppg, 2.01 ft<sup>3</sup>/sk, 10.71 gal wtr/sx..

Total estimated slurry volume (including 40% excess) for the 4-1/2" production casing is 1,555 ft<sup>3</sup>.

te: The slurry design may change slightly based upon actual conditions. Final cement volumes will be termined for the caliper logs plus 40%. It will be attempted to circ cement to surface.

### 5. LOGGING PROGRAM:

- A. Mud Logger: There are no plans to use a mud logger at this time.
- B. Open Hole Logs as follows: Run Dual Induction/SFL/GR/SP fr/TD ( $\pm 4,950$ ') to the bottom of the surface csg. Run CNL/LDT (Lithodensity)/GR/Cal and Pe from TD to 2,950'.

#### 6. FORMATION TOPS:

| Formation            | Subsea Depth |            |
|----------------------|--------------|------------|
| Ojo Alamo SS         |              | Well Depth |
| Kirtland Shale       | +4707'       | 1390'      |
| Fruitland Formation  | +4655'       | 1442'      |
| Lower Fruitland Coal | +4157'       | 1940'      |
| Pictured Cliffs SS   | +3996'       | 2101'      |
| Lewis Shale          | +3946'       |            |
|                      | +3809'       | 2151'      |
| Chacra               | +3028'       | 2288'      |
| Cliffhouse SS        |              | 3069'      |
| Menefee*             | +2343'       | 3754'      |
| Point Lookout SS*    | +2261'       | 3836'      |
| Mancos Shale         | +1667'       | 4430'      |
| rojected TD          | +1317'       | 4780'      |
| rojected ID          | +1147'       | 4950       |

\* Target Reservoir. Maximum anticipated reservoir pressure will be ±1,550 psig.

