Form 3160-3 (July 1992)

APPROVED BY

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

| | 5. LEASE DESIGNATION AND SERIAL NO. NM - 03380 | | | | | | | | |
|--|---|-----------------------------|---------------|--|--|---------------------------------------|-------------------------|--|--|
| | BUREAU OF | | | | | 6. IF INDIAN, ALLOTTEE C | OR TRIBE NAME | | |
| | CATION FOR PE | RMIT TO D | RILL | OR DEEPEN | | 7. UNIT AGREEMENT NA | ME | | |
| | ILL X | DEEPEN | | | | | 29105 | | |
| OIL OIL WELL | GAS X OTHER | | | SINGLE X MULTI ZONE ZONE | PLE | 8. FARM OR LEASE NAME Florance "D" | | | |
| 2. NAME OF OPERATOR | | | | | | | | | |
| XTO Energy Inc. 3. ADDRESS AND TELEPHON | E NO. | | ••• | | ·., | 9. API WELL NO. 30045 | 3/082 | | |
| 2700 Farmington A | lve., Bldg. K. Ste 1 | | | | | 10. FIELD AND POOL, OR | WILDCAT | | |
| 4. LOCATION OF WELL (Report At surface | ort location clearly and in accor | dance with any Stat | te require | ments.*) | | Blanco Mesave Otero Chacra | rde | | |
| |)5' FEL in Sec 20, | T27N, R08V | W | n n | • | 11. SEC., T., R., M., OR BLK | | | |
| At proposed prod. zone | | | | | | AND SURVEY OR AREA | | | |
| 14 DICTANCE IN MILES AND | DIRECTION FROM NEAREST TOV | VN OR POST OFFICE | * | | | Sec 20, T27N | 13. STATE | | |
| | n the Blanco NM Post | | | <u> </u> | | San Juan | NM | | |
| 15. DISTANCE FROM PROPOS LOCATION TO NEAREST | | | 16. NO. | OF ACRES IN LEASE | 17. NO. OF TO THIS | ACRES ASSIGNED | c=/ | | |
| PROPERTY OR LEASE LIN (Also to nearest drlg. un | E, FT. it line, if any) 1, 105' | | 320 |) MV / 160 CH | lones | 7 320 MV / 16 | 0 CH 75/4 | | |
| 18. DISTANCE FROM PROPOS | SED LOCATION* | | POSED DEPTH | | Y OR CABLE TOOLS | | | | |
| TO NEAREST WELL, DRIL OR APPLIED FOR, ON THE | S LEASE, FT. 750' | | 5,5 | 550' | Rota | ary rig to TD | | | |
| 21. ELEVATIONS (Show who | | | | | | 22. APPROX. DATE WO | | | |
| 6,761' Ground Lev | /el | | · | | | Summer, 200 | 2 | | |
| 23. | F | PROPOSED CASIN | G AND C | CEMENTING PROGRAM | | | | | |
| SIZE OF HOLE | GRADE SIZE OF CASING | ОТ | SETTING DEPTH | | QUANTITY OF CEMENT | | | | |
| 12-1/4" | 8-5/8", J-55 | 24.0#/f | ft 320 | | 200 s | 200 sx Type III Cement | | | |
| 7-7/8" | 4-1/2", J-55 | 10.5#/f | t | 5,550' | 780 s | x Lite Weight Ce | ment | | |
| Program and I XTO Energy a defined by t DRILLING SUBJECT | nc. proposes to dri Drilling Proposal. Iso proposes to Sur- he attached map and OPERATIONS AUTHORIZES A TO COMPLANCE WITH ATTIC REQUIREMENTS. | face Comming as indicate | le the | e production from | the abov rogram. an d CFR 3165.3 | | l as | | |
| IN ABOVE SPACE DESCRI deepen directionally, give p 24. SIGNED | BE PROPOSED PROGRAM: ertinent data on subsurface local or Sate office use) | ations and measure | d and tru | e dataon presentproductivez e vertical depths. Give blow rilling Engineer APPROVAL DATE | coneand propo out preventer | osednew productivezone. I | **. * | | |
| Application approval doc CONDITIONS OF APPR | es not warrant or certify that the app OVAL, IF ANY: *********************************** | | quitable titl | le to those rights in the subject le | ease which would LIM Ch | ld entitle the applicant to cond | duct operations thereor | | |

Title 18 U.S.C. Section 1001, makes it a crime for any personknowinglyand willfullyto make to any department agency of the United States any false, / fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

- DATE -

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*See Instructions On Reverse Side

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 # 811 South First, Artesia, N.M. 88210

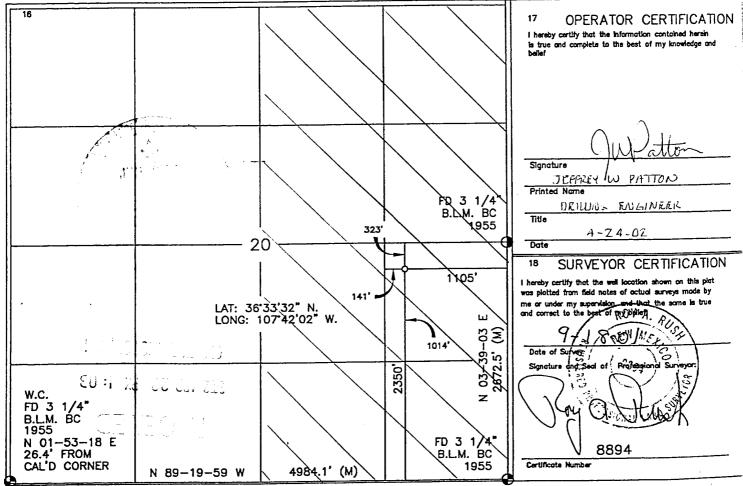
DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

| WE | LL LOCATION AND | ACREAGE DEDICATION PLAT | | | | | |
|----------------------------|------------------|-------------------------|-------------|--|--|--|--|
| 30-045-31082 | 72319 | Pool Name DLANU MESAU | RRDĒ | | | | |
| ⁴ Property Code | ⁵ Pro | perty Name . | Well Number | | | | |
| 29105 | FLORANCE D | | | | | | |
| | | | • | | | | |

OGRID No. Operator Name * Elevation 6761 XTO ENERGY INC. 167067 ¹⁰ Surface Location East/West line Feet from the North/South line Feet from the County Lot 1dn UL or lot no. Section Township Range SAN JUAN **EAST** SOUTH 1105' 2350' 20 27-N 8-W 1 ¹¹ Bottom Hole Location If Different From Surface Feet from the North/South line Feet from the East/West line Lot Idn Section Township UL or lot no. 16 Order No. 4 Consolidation Code 13 Joint or Infill 2 Dedicated Acres E 32*D* 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 I hereby certify that the information contained herein



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

State of New Mexico Energy, Minerals & Natural Resources Department

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DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

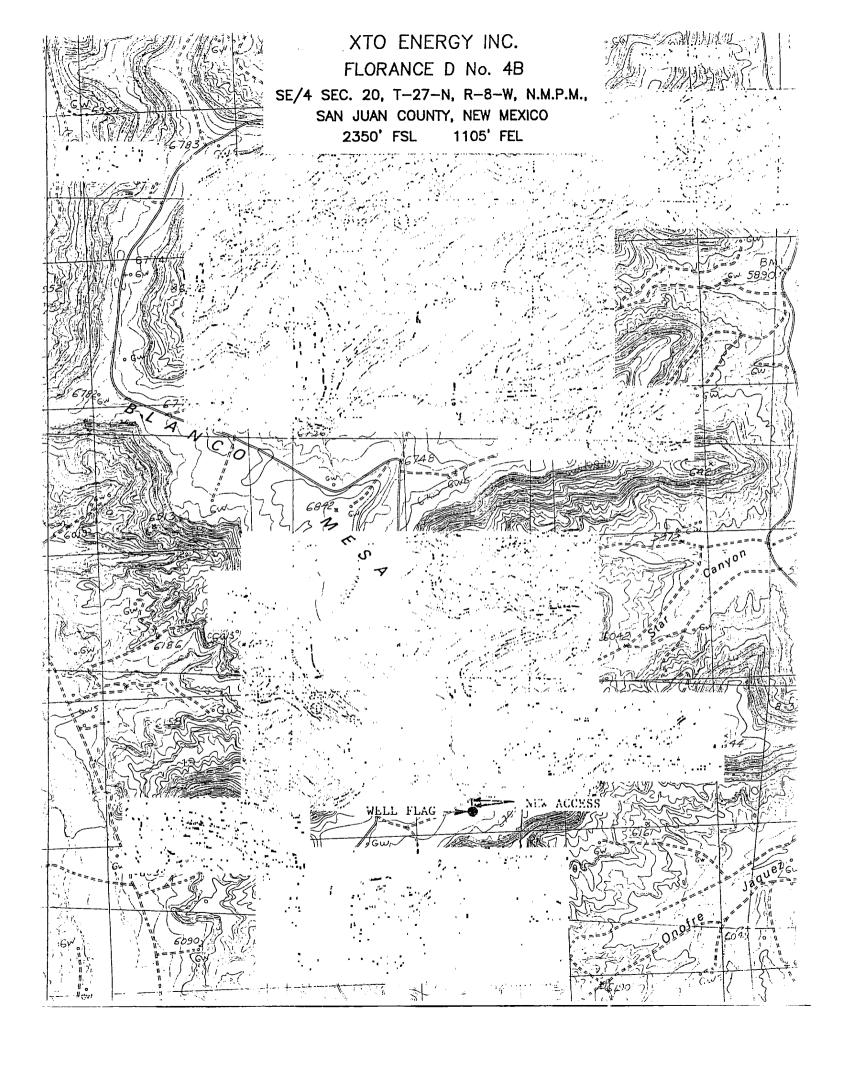
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

| 24 'API 1 | Number - | 31087 | - 3 | Pool Code BZ3Z | 7 | . 4. | | TE | Pool Name | HACKA | • | |
|-------------------------------|--|------------------------|---------------------------|--|-------------------------------|---------------|-------------------|--------------|--------------|---------------------------------------|---|--|
| Property Coc | | 21086 | | OL DL | ⁵ Property N | Name | | <u> </u> | U LI | IMLKH | * We | ell Number |
| 7 9 1 | ~ | | | | FLORANC | | | | | | | 4B |
| OGRID No. | <u>ب</u> | | | | Operator 1 | | | | | | • | Elevation |
| 1670 | 167 | | | | XTO ENERG | Y IN | C. | | | | | 6761' |
| 1610 | , W | | | | ¹⁰ Surface | Loc | cation | | | _ | | |
| UL or lot no. | Section | Township Range Lot Idn | | | Feet from the | | rth/South line | Feet | from the | East/West | line | County |
| 1 | 20 | 27-N | 8-W | | 2350' | SOUTH | | | 105' | EAS | <u>T</u> | SAN JUAN |
| | | | ¹¹ Botto | m Hole | Location | | ifferent Fro | | | · · · · · · · · · · · · · · · · · · · | | - |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | No | rth/South line | Feet | from the | East/West | t line | County |
| | | 1 | | | ¹⁴ Consolidation C | | | 1ª Orde | e No | l | | <u> </u> |
| ²² Dedicated Acres | 5 | E/ | ¹³ Joint or In | rat | "Consolidation C | ,ode | | - Grae | # NO. | | | |
| 16D | | 14 | | | | | | | | | | |
| NO ALLOW | VABLE V | MLL BE A | SSIGNED | TO THI | S COMPLET | ION | UNTIL ALL | INTE | RESTS H | HAVE BE | EN C | ONSOLIDATED |
| | - - | OR A N | ON-STA | NDARD | UNIT HAS E | BEEN | APPROVE | BY | THE DI | VISION | | |
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| | | | | 20 / | | X | | \mathbb{Z} | Date | | <u> </u> | |
| • | | | | | | $\frac{1}{1}$ | 1105 | \leftarrow | 18 | SURVEY | OR CE | RTIFICATION |
| | | | | | / | <i>ارز</i> ا | 1195 | | I hereby cer | rtify that the w from field note | et location es of actual | shown on this plot surveys mode by |
| | | | LAT: 3 | 6'33'32 " | N. 141' - | 7 | | | me or unde | r my supervisio | g_ and-that | the some is true |
| • | | | | 107'42'0 | ## W / | 1 | - / / | M | | to the best of | 11.0 | RUSH |
| | | | | 1/ | / . | 1/ | 1014 | ξŞ | | 9/1/8 | CON JAI | |
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| w.c. | | | | | | 124 | | Z | 1 | // 1 | 1~Y | /\$\frac{1}{2} |
| FD 3 1/4" | | | | | / / | 1 | | _/ | 1/1/ | ory () | XX | KEAI |
| B.L.M. BC 1955 | | | | / | / / | | / / | | | () | - NO C | 11 |
| N 01-53-1 | 18 E | | | /· | | И | FD & 1, B.L.M. | /4" | | N RR | 394 | |
| 26.4' FROM CAL'D CORN | NER | N 60 44 | n | 1 | 84.1' (M) | 1 | B.L.M. 1 | 55 / | Certificate | | , <u>, , </u> | |
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XTO ENERGY INC.

Florance "D" #4B APD Data April 24, 2002

Location: 2350' FSL & 1105' FEL, Sec 20, T27N, R08W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: ±5,550' OBJECTIVE: Mesaverde
GR ELEV: 6,761' Est KB ELEV: 6,773' (12' AGL)

1. MUD PROGRAM:

| INTERVAL | 0' to 270' | 270' to 3,500' | 3,500' to TD |
|------------|-------------|----------------|--------------|
| HOLE SIZE | 12-1/4" | 7-7/8" | 7-7/8" |
| MUD TYPE | FW/Spud Mud | FW/Polymer | LSND |
| WEIGHT | 8.6-9.0 | 8.4-8.8 | 8.6-9.0 |
| VISCOSITY | 28-32 | 28-32 | 45-60 |
| WATER LOSS | NC | NC | 8-10 |

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 ± 320 ' in 8.8 ppg mud

| Surface Cusing. | | | | | | | | | | | | |
|-----------------|--------|-----|------|------|--------|--------|---------|-------|-------|------|-------|-------|
| | | | | | Coll | Burst | | | | | | |
| | | | | | Rating | Rating | Jt Str | ID | Drift | SF | SF | SF |
| Interval | Length | Wt | Gr | Cplg | (psi) | (psi) | (M-lbs) | (in) | (in) | Coll | Burst | Ten |
| 0'-320' | 320' | 24# | J-55 | STC | 1370 | 2950 | 244 | 8.097 | 7.972 | 7.32 | 7.95 | 29.39 |

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

| 110000 | | <u> </u> | | | | 110 | 0 | | | | | |
|----------|--------|----------|------|-------------|--------|--------|---------|-------|-------|------|-------|------|
| | | | | | Coll | Burst | | | | | | |
| | | | - | | Rating | Rating | Jt Str | ID | Drift | SF | SF | SF |
| Interval | Length | Wt | Gr | Cplg | (psi) | (psi) | (M-lbs) | (in) | (in) | Coll | Burst | Ten |
| 0'-TD | 5,550' | 10.5# | J-55 | STC | 4010 | 4790 | 132 | 4.052 | 3.875 | 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.

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

A. Surface: 8-5/8°, 24#, J-55, STC casing to be set at \pm 320°.

<u>Lead:</u> 200 sx of "Type III" cement containing 3% CaCl₂, ¼ pps celloflake, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.50 gal wtr/sk.

Total slurry volume is 278 ft³, $\pm 100\%$ excess of calculated annular volume to 320'.

B. <u>Production:</u> 4-1/2", 10.5#, J-55, STC casing to be set at $\pm 5,550$ '. **DV Tool to be set @** $\pm 4,000$ '.

First Stage

<u>Lead:</u> 80 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 ft³/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 ft³/sk, 10.71 gal wtr/sx..

Second Stage

<u>Lead:</u> 470 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 ft³/sk, 15.60 gal wtr/sx.

Tail: 80 sx of Premiun Lite HS (65/35/6) cement containing 2% KCl, 7#/sx CSE, ¼ pps celloflake, 0.5% Fluid loss, 0.2% Dispersant mixed at 12.5 ppg, 2.01 ft³/sk, 10.71 gal wtr/sx..

Total estimated slurry volume (including 40% excess) for the 4-1/2" production casing is 1,776 ft³.

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

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 ($\pm 5,550$ ') to the bottom of the surface csg. Run CNL/LDT (Lithodensity)/GR/Cal and Pe from TD to 3,550'.

