Form J160-3 (July 1992)

## **UNITED STATES DEPARTMENT OF THE INTERIOR**

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

FORM APPROVED E

OMB NO. 1004-0136 Expires: February 28, 1995
5. LEASE DESIGNATION AND SERIAL NO.

			SF - 079319											
	APPLICATION FOR PERMIT TO DRILL OR DEEPEN  DEEPEN DEEPEN													
	7. UNIT AGREEMENT NAME													
ÐA	!													
b. TYPE OF WELL OIL WELL 2. NAME OF OPERATOR	GAS X OTHER	·/	s	SINGLE MULTI ZONE ZONE	PLE X	8. FARM OR LEASE NAME, WELL NO. Schwerdtfeger "A" #31								
coss Fimbers Ope	9. API WELL NO.													
ADDRESS AND TELEPHON	30 045 3105													
	10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde													
LOCATION OF WELL (Repo	700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401  LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)  At surface  2006: FAM. 8 2500: FAM. 8 2500.													
2385' FNL & 258	30'FWL Sec 6, T2	27N, R08W		- Wiri Avel I town and i		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA								
At proposed prod. zone 1905' FNL & 196	54' FWL Sec 6, T2	27N. R08W				Fsec 6, T27N, R08W								
. DISTANCE IN MILES AND	DIRECTION FROM NEAREST TOV	VN OR POST OFFICE	*			12. COUNTY OR PARISH 13. STATE								
	les south down Large	Canyon fro				San Juan NM								
5. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LIN	E ET			OF ACRES IN LEASE	TO THE									
(Also to nearest drig. un  B. DISTANCE FROM PROPOS	it line, if any) 04			.68 POSED DEPTH	20 POTAR	320.68 VV								
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THE	LING, COMPLETED,		1	00' MD	1	7,700' w/Rotary Tools								
L ELEVATIONS (Show whe			1 /,	00 110		22. APPROX. DATE WORK WILL START*								
5,757' GL						Summer 2002								
3.		PROPOSED CASIN	G AND C	EMENTING PROGRAM										
SIZE OF HOLF	GRADE, SIZE OF CASING	WEIGHT PER FO	ОТ	SETTING DEPTH		QUANTITY OF CEMENT								
12-1/4"	9-5/8", H-40	32.3#		265'	140 s	x Class "B"								
8-3/4"	7", J-55	20.0#		2 1EQ, MD	275 6	v Litowoight coment								
0 3/4	1 , 0 55	20.0		3,150' MD	2/3 3	x Liteweight cement								
6-1/4"	4-1/2", J-55	10.5#	mt i ana	7,700' MD	375 s	x C1 "H"								
ATO Energy In Program.  The pipeline LLING OPERATIONS AUTO COMPLANCE TO COMPLANCE THE "N" A" #12B (MEST) ABOVE SPACE DESCRIPTION OF THE PROPERTY OF THE PROPER	A-1/2", J-55  nc. plans to drill  ROW is also enclose PORIZED ARE WITH ATTACHED  NOTICE OF STAKING" SAVERDE). XTO ENERG	10.5# the above me ed with this FOR THIS WEL GY HAS ELECT	APD. L WAS	7,700' MD  d well as describ  ORIGINALLY FILED  ADD AN INFILL DA	AND ON-SKOTA TO	This action is subject to technical and coloradural review pursuant to 43 OFR 3165 4 SITED AS THE SCHWERDTFEGER								
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XTO Energy In Program.  The pipeline LLING OPERATIONS AUTO COMPLANCE IN THE "N" A" #12B (MES)  NOTE: THE "N" "A" #12B (MES)  N ABOVE SPACE DESCRIPTION OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PROGRAM OF THE PERMIT NO.	ROW is also enclose PORIZED ARE WITH ATTACHED  NOTICE OF STAKING SAVERDE). XTO ENERGIBLE PROPOSED PROGRAM: ertinent data on subsurface local control of state office use)	the above me  ed with this  FOR THIS WEL GY HAS ELECT  If proposalis to detions and measure	L WAS ED TO epen, give d and true	7,700' MD  d well as descrip  ORIGINALLY FILED  ADD AN INFILL DA  dataon present productives a vertical depths. Give blow  Pilling Engineer  APPROVAL DATE  to those rights in the subject le	AND ON-S KOTA TO  Zone and proprout preventer  Passe which would	This action is subject to technical and object or a review pursuant to 43 CFR 3165.4 SITED AS THE SCHWERDTFEGER THE WELLBORE.  Osednew productivezone. If proposalis to deprogram, if any.  DATE 4/02/02								
Application approval doe	A-1/2", J-55  The control of the con	the above me  ed with this  FOR THIS WEL GY HAS ELECT  If proposalis to detions and measure	L WAS ED TO epen, give d and true	7,700' MD  d well as describ  ORIGINALLY FILED  ADD AN INFILL DA  dataon present productives a vertical depths. Give blow  villing Engineer  APPROVAL DATE  to those rights in the subject le	AND ON-S KOTA TO  Zone and proprout preventer  Passe which would	This action is subject to technical and object or a review pursuant to 43 CFR 3165.4 SITED AS THE SCHWERDTFEGER THE WELLBORE.  Osednew productivezone. If proposalis to deprogram, if any.  DATE 4/02/02								

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

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

DISTRICT IV

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

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

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

2040 South Pacheco Santa Fe, NM 87505

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-3	051	<sup>1</sup> Pool Code 72319	BLANCO MESADERDE	
<sup>4</sup> Property Code		<sup>6</sup> Ргори	<sup>6</sup> Well Number	
22634		SCHWERDTI	FEGER "A"	3F
OGRID No.		* Open	ator Name	* Elevation
167067		XTO EN	ERGY INC.	6757'

<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
F	6	27-N	8-W		2385'	NORTH	2580'	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

				,,,,,	2004		10111	<del>*</del>	
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	27 N	8W		1905'	NORTH	1964	WEST	SINU JUAN
<sup>12</sup> Dedicated Acres		ン /	13 Joint or 1	nfill	<sup>14</sup> Consolidation C	ode	<sup>15</sup> Order No.		
320.68 /2			エ						

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

OR A NON-STAI	NDARD UNIT HAS E	BEEN APPROVED BY	THE DIVISION
16 CALC'D CORNER S 89-30-07 E 2664.3' (M)  LOT 4 LOT 3	FD BC G.L.O. 1916 LOT 2	LOT 1	17 OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
00 00 00 00 00 00 00 00 00 00 00 00 00	1082' 84' 220' MAY 2002		Signature  JEFFIZE LU PIFTION  Printed Name  DRILLING ENGINEER  THIS  3-28-02
CALC'D CORNER 700'  LOT 6  LAT: 36'36'1' LONG: 107'4	7" N.		18 SURVEYOR CERTIFICATION  I hereby certify that the wall scatter shown on this plot was plotted from the house of fraging surveys made by me or under my sharefully the house come is true and correct to the head of the hard some is true.  Date of Survey
LOT 7	<b>\$</b> 1, € 70	<u> 2- 25, 747</u>	Signature of Seal of Professional Guerryor:  ROFESSIONAL LANGE STATE OF THE SEAL OF THE SE

DISTRICT I 1525 N. French Dr., Hobbs, N.M. 88240

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

Form C-1C2 Revised August 15, 2000

DISTRICT N 811 South First, Arlesia, N.M. 88210

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

## OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Submit to Appropriate District Office

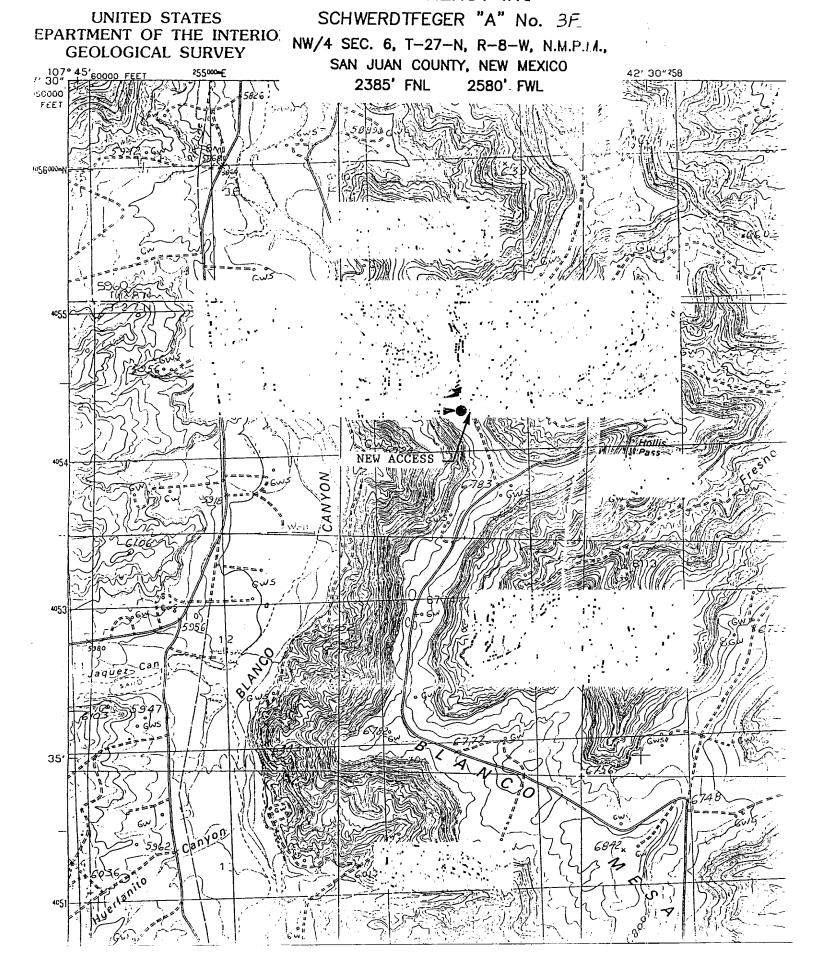
State Lease — 4 Copies
Fee Lease — 3 Copies

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

30 - 0	Number (	31051	T .	<sup>2</sup> Pool Code 7 1 5 9 °	7	BASIN DAKOTA							
Property Coo					Prope SCHWERDTF	-	lame				• W	'ell Number 3F	
16706					•	Serator Name * Elevation ENERGY INC. 6757'							
<u>,</u>													
UL or lot no.	Section 6	Township 27-N	Range 8-W	Let idn	Feet from the 2385'	•	North/South line NORTH	ł	Feet from the East/We 2580' WE			County SAN JUAN	
			11 Botto	m Hole	Locatio	n	lf Different F	rom	Surface	)		-	
UL or lot no.	Section G	Township Z7∧	Range 8 V/	Lot Idn	Feet from th		North/South line		from the	East/Wes WES		SAN OCAN	
320.6	8 L	V/Z	Joint or $I$	nfill	<sup>14</sup> Consolidatio	on Co	ode	#Ord	er No.				
NO ALLOW	ABLE V						ION UNTIL ALL				BEEN (	CONSOLIDATE	
16 CALC'D CORN  LOT 4  M (W) , V 2097	ER S	89-30-0 2664.3 (M	0		G.L.O. 1916  LOT 2  LOT 1					ertify that the	information	ERTIFICATION contained herein my knowledge and	
250	80	1248'		84' 6 SURF		-			Printed	RILLING		žė/Z	
LOT 6	ER	700		7" N. 13'20" W.	ye e f		- ,		I hereby cert was plotted i	to het het	I A	RTIFICATION shown on this plot uneye mode by personne is true	
LOT X					Zi C ii	1 +1 ×1 ×1	E- C		Sandar Spr. Sod of Professional Surveyor:  10 POFESSIONAL UND  10				

XTO ENERGY INC



## XTO ENERGY INC.

## Schwerdtfeger "A" #3F APD Data March 28, 2002

Surface Location: 2,385' FNL & 2,580' FWL, Sec 6, T27N, R08W County: San Juan State: New Mexico

Bottomhole location: 1905' FNL & 1,964' FWL, Sec 6, T27N, R08W

PROJECTED TOTAL DEPTH: ±7,668' (TVD) ±7,700 (MD)

GR ELEV: <u>6,757</u>

OBJECTIVE: <u>Dakota/Mesaverde</u> Est KB ELEV: 6,760' (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  $\pm 265$ ' in 8.6 ppg mud

							4.4 4.					
					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'-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  $\pm 3,150'$  (MD) 3,150' (TVD) in 9.0 ppg mud.

					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'-	3,150'	20.0#	J-55	STC	2257	3740	234	6.456	6.331	1.15	1.31	2.57
3,150'						· ·						
(MD)												

Production Casing: 4-1/2" casing to be set at 7,700' (MD) 7,668' (TVD) in air.

· 1	T 41.	3374	C-	Cala	Coll Rating	Burst Rating	Jt Str	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	<u>`</u>			
0'-	7,700'	10.5#	J-55	STC	4010	4790	132	4.052	3.927	1.33	1.20	1.90
7,700'												
(MD)												

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

A. Surface:

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

<u>Lead</u>: 140 sx of Class "B" (Standard) cement containing 2% CaCl<sub>2</sub>, ¼ pps celloflake, mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk, & 5.20 gal wtr/sk.

Total slurry volume is 166 ft<sup>3</sup>, 100% excess of calculated annular volume to 265'.

B. Intermediate:

7", 20.0#, J-55, STC casing to be set at  $\pm 3,095'$  (TVD)  $\pm 3,150'$  (MD).

<u>Lead:</u> 225 sx of Class "B" (Standard) cement containing ±3% extender, ½ pps celloflake and 2% CaCl2 mixed at 11.4 ppg, 2.88 ft<sup>3</sup>/sk, 17.89 gal wtr/sx.

<u>Tail:</u> 50 sx of Class "B" (Standard) cement containing ½ pps celloflake and 2% CaCl2 mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk, 5.20 gal wtr/sx.

Total slurry volume is 707 ft<sup>3</sup>, 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 ±7,668' (TVD) 7,700' (MD).

<u>Lead:</u> 225 sx of Class "H" Premium Lite High Strength (65/35/6), ¼ pps celloflake, 2% KCl, 0.5% fluidloss, 0.2% dispersant & 2% Phenoseal mixed at 12.5 ppg, 2.01 ft³/sk, 10.12 gal wtr/sx.

Tail: 150 sx of Class "H" Premium cement containing 4% gel (extender), ¼ pps celloflake, 0.5% fluidloss, 0.2% dispersant and 2% Phnoseal mixed at 14.7 ppg, 1.38 ft<sup>3</sup>/sk, 6.70 gal wtr/sx...

Total estimated slurry volume for the 4-1/2" production casing is 657  $ft^3$  for 4,750' of fill. Est. TOC should be @ 2,950'. 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%..

#### 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/MSFL/GR/CAL/SP/CNL/LDT (lithodensity) from TD to the bottom of the intermediate csg (@ $\pm 3,150$ ' MD). Run cased hole GR/CCL from TD to surface.

