orm 3160-3 April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB NO. 1004-0137 Expires March 31, 2007

APPLICATION FOR PERMIT TO D		5. Lease Serial No. NM-047			
	REENTER 7005 JUL 18 AM 9 07	6. If Indian, A	llotee or Tribe Name		
1b. Type of Well Oil Well Gas Well Other		N/A 7. Unit or CA N/A	Agreement Name and No.		
2. Name of Operator	070 FARMHIGTON HIL	8. Lease Name	and Well No.		
XTO Energy Inc.	NEW MEX	ICO FEDERAL N #2F			
3a. Address	3b. Phone No. (include area co	y. API Well N	115-222112		
2700 Farmington Ave., Bldq. K. Ste 1 Farmington Ave., Bldq. K. Ste 1 Farmington of Well (Report location clearly and in accordance with	agton, NM 505-324-1090	<u> 30-0</u>	45-35445		
AA			ool, or Exploratory		
At surface 1980' FNL x 2610' FEL in Sec 17	, T30N, R12W	BASIN D	, M., or Blk. and Survey or Are		
At proposed prod. zone		. .	•		
		6 S17, T3			
14. Distance in miles and direction from nearest town or post office*					
Approx 5.64 air miles Northeast o		San Juan	NM		
15. Distance from proposed* location to nearest	16. No. of Acres in lease	17. Spacing Unit dedi	cated to this well		
property or lease line, ft. (Also to nearest drg. unit line, if any)	324.9	N/2	324.9		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Proposed Depth	20.BLM/BIA Bond	No. on file		
applied for, on this lease, ft.	6950'				
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will sta	22. Approximate date work will start* 23. Estimated duration			
5830' Ground Elevation	fall 2005		2 weeks		
	24. Attachments				
The following, completed in accordance with the requirements of Onsh	hore Oil and Gas Order No. 1, shall be attached	d to this form:			
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System L SUPO shall be filed with the appropriate Forest Service Office). 	4. Bond to cover the operat Item 20 above). 5. Operator certification. 6. Such other site specific in authorized officer.	·	Ç		
25. Signuature	Name (Printed/Typed)		Date		
Tyla Vallahan	Kyla Vaughan		07/15/05		
Title () Regulatory Compliance Tech					
Approved by (Signautre)	Name (Printed/Typed)		Date /		
Mayor coursens	Wayne Town	dend	8/30/05		
Title Action AFM	Office F6				
Application approval does not warrant or certify that the applicant he conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in	the subject lease which	h would entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations a		ally to make to any dep	artment or agency of the United		
*(Instructions on page 2)NG OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED	This action is subject procedural review pu	to technical and rsuant to 43 CFR 3165	5.3		

APD/ROW

REC'D/SANJUAN

DISTRICT H 1301 W Grand Ave. Artenia, M.M. 88210

State of New Mexico
Energy, Minerals, & Natural Resources Department
OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe. NM 87605

MAR 2 4 2005 Form C-10: Revised June 10, 2003 Form C-102

Submit to Appropriate District Office Acc Agese - 4 Copies Fee Lease - 3 Copies

MENDED REPORT

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, RM 87505

WELL INCATION AND ACREAGE DEDICATION DIAT

"API Number Pool Nome TISOO BOSIN DOWN	
*Property Code *Property Name NEW MÉXICO FÉDERAL N	• Vell Kumber 2F
*OPERALOF NOTE: 1/07/007 XTO ENERGY INC.	* Blevetton 5830

Surface Location

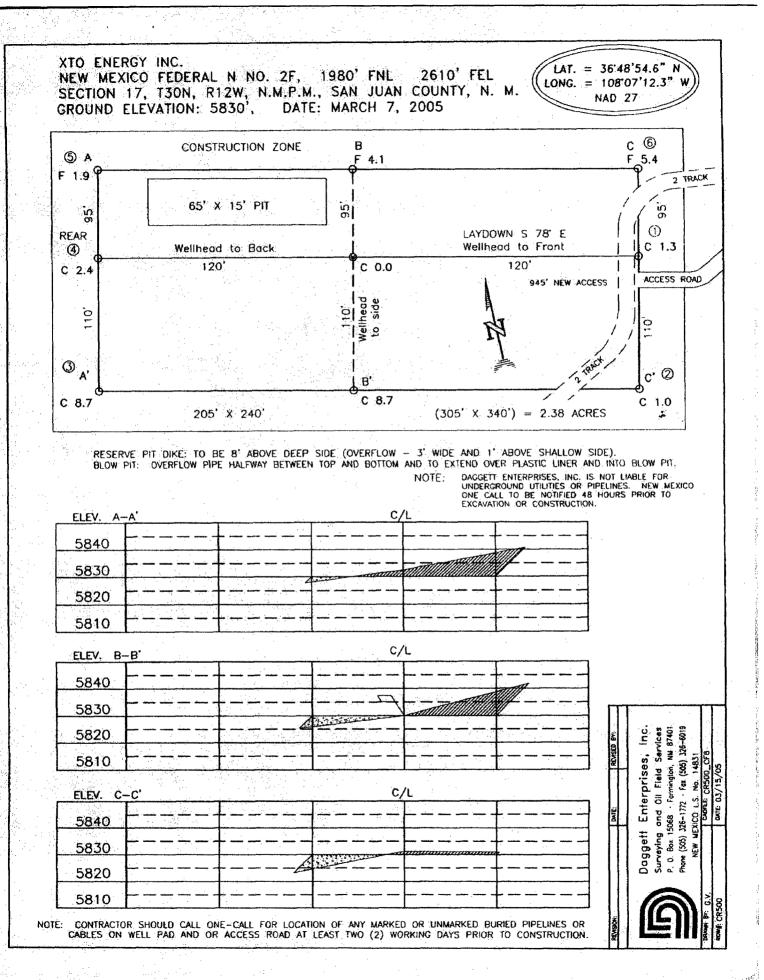
Lot ldo Feet from the North/South line Feet from th Rust/West line County G 30-N 12-W 1980 NORTH 2610 EAST SAN JUAN "Bottom Hole Location If Different From Surface Feet from th County Consolidation Code Joint or Infitt ¹⁶Order No.

WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	ANIC-NUM A NU	DARU DATI HAS L	EEN APPROVED BY	THE DIVISION
Tall 4	DTR. COMMER FB 3: 1/4" BCI 11976 BLIB LOT 3	3089-58-09 2826-2 (N 201-2	22-12 (w) **	OPERATOR CERTIFICATION I havely certify that the information contained hirsen to tribe and compilate to the best of my thousedge and better. Signature
EBT 5 CAT 36'48 EBNG: 108'07	LOT 6 54 6" N (NAD 27) 12.3" W (NAD 27)	E01 7 26	COT 8	Printed Header DILLING ASSISTANT Title 5/18/05 Date
¢81∜12	€ 01 11	LGF 10	LOT 9	18 SURVEYOR CERTIFICATION 1 harmby certify that the meet togetion about on this plat some prolone from first nature of actual surveys made by me or under the survey and that the survey is true and company to the survey of the survey with the survey to th
uot is	LOT⊹ 1 . 4		56 & 500 T	Date in Dryf Signatur and \$4528 rates of the POPES SION of the Pope of the Pop
		SE OF SEC.	61.81737	

Submit 3 Copies To Appropriate District Office	State of New Me Energy, Minerals and Natur					n C-103 27, 2004
District I 1625 N. French Dr., Hobbs, NM 87240	Lifeigy, Minicials and Matu	iai Resources	WELL AP	I NO.	Iviay	27, 2004
District II	OIL CONSERVATION	N DIVISION			····	
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Fra			Type of Le		
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8	7505		ATE	FEE	
1220 S. St. Francis Dr., Santa Fe, NM 87505			6. State O	il & Gas Lea	ase No.	
SUNDRY NOTIC	ES AND REPORTS ON WEI	LLS	7. Lease N	Name or Unit	t Agreement	Name:
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	DSALS TO DRILL OR TO DEEPEN (CATION FOR PERMIT" (FORM C-10	OR PLUG BACK TO A 11) FOR SUCH	E .	CO FEDERAL	-	
1. Type of Well:			8. Well N	umber		
Oil Well Gas Well X	Other			#2F		
2. Name of Operator			9. OGRID			
3. Address of Operator			10 Pool r	167067 name or Wild		
2700 Farmington Ave., Bldc	. K. Ste 1 Farmington, N	M 87401	BASIN DA			
4. Well Location						
Unit Letter G :	1980 feet from the NO	RTH line and	2610	feet from th	ne EAST	line
Section 17	Township 30N	Range 12W	NMPM	NMPM (County SA	N JUAN
	11. Elevation (Show whether		rc.)			
Pit or Below-grade Tank Application	<u>" </u>	830'			- 44	
Pit typeDRILL_ Depth to Groundwater		> 1006'	stance from no		2.00 B	_ ,
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume.	,			vattr	
The Line of the Control of the Contr	Delow-Grade Table Volume.		on Material			
10 01 1		27	_			
	Appropriate Box to Indicate	1	•			
NOTICE OF INTI			SEQUEN	IT REPO		
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		LJ A	ALTERING CA	45ING L
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILL	ING OPNS.		PLUG AND ABANDONME	ENT
PULL OR ALTER CASING	MULTIPLE	CASING TEST AND				
	COMPLETION	CEMENT JOB				
OTHER: PIT	X	OTHER:				
 Describe proposed or completed of starting any proposed work). or recompletion. 						
XTO Energy proposed to in with NMOCD guidelines when	nstall a pit on location f n work is completed.	or drilling. The	pit will I	oe closed	in accordan	nce
				Ser &		
			R C	PEC 2	20.	
			5.75.37.28	CON VE		
			25.3	Con Con		
TI 1						
I hereby certify that the information a grade tank has been/will be constructed or o	pove is true and complete to the losed according to NMOCD guideline	best of my knowledge	e and belief) J further certi chein alternat	ify that my pit	or below-
SIGNATURE THE VAL		LE Regulatory C				15/05
SIGNATURE	111			extoenergy		-4/03
Type or print name kyla Vaughan					ne No. 505-5	64-6726
For State Use Only	+h1-	DEFUTY CAL & GAS	INSPECTOR.	, DIS1. 🔔	SFP (0 6 2005
APPROVED BY	TIT	TLE		DAT	re	
Conditions of Approval, if any:	-// /-					

EXHIBIT D



XTO ENERGY INC.

New Mexico Federal N #2F **APD Data** July 12, 2005

Location: 1,980' FNL x 2,610' FEL Sec 17, T30N, R12W

County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 6,950'

OBJECTIVE: Basin Dakota

APPROX GR ELEV: 5,830'

Est KB ELEV: 5,842' (12' AGL)

1. **MUD PROGRAM:**

INTERVAL	0' to 360'	360' to 4,000'	4,000' to TD
HOLE SIZE	12-1/4"	7-7/8"	7-7/8"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
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. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes.

CASING PROGRAM:

Surface Casing:

8-5/8" casing to be set at \pm 360' in a 12-1/4" hole filled with 8.8 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'-360'	360'	24.0#	J-55	STC	1370	2950	244	8.097	7.972	7.32	7.95	29.39

Production Casing:

5-1/2" casing to be set at TD (± 6.950 ') in 7-7/8" hole filled with 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'-TD	6,950'	15.5#	J-55	STC	4040	4810	202	4.950	4.825	1.25	1.48	1.88

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), 5-1/2" 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 360' in 12-1/4" hole.

210 sx of Type III cement (or equivalent) typically containing accelerator and LCM, mixed at 14.5 ppg, 1.39 ft³/sk, & 6.70 gal wtr/sk.

Total slurry volume is 297 ft³, 100% excess of calculated annular volume to 360'.

B. <u>Production:</u> 5-1/2", 15.5#, J-55 (or K-55), STC casing to be set at $\pm 6,950$ ' in 7-7/8" hole. DV Tool set @ $\pm 4,000$ '

1st Stage

LEAD:

±300 sx of Premium Lite HS (or equivalent) with salt, dispersant, fluid loss & LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

150 sx Type III cement (or equivalent) with bonding additive, LCM, dispersant & fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

2nd Stage

LEAD:

±500 sx of Type III cement (or equivalent) with gel & LCM mixed at 11.9 ppg, 2.54 ft³/sk, 15.00 gal wtr/sx.

TAIL:

100 sx Type III cement (or equivalent) neat mixed at 14.5 ppg, 1.39 cuft/sx, 6.3 gal/sx.

Total estimated slurry volume for the 5-1/2" production casing is 2,243 ft³.

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

5. **LOGGING PROGRAM:**

- A. Mud Logger: The mud logger will come on at 2,900' and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (6,950') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (6,950') to 2,000'.

6. FORMATION TOPS:

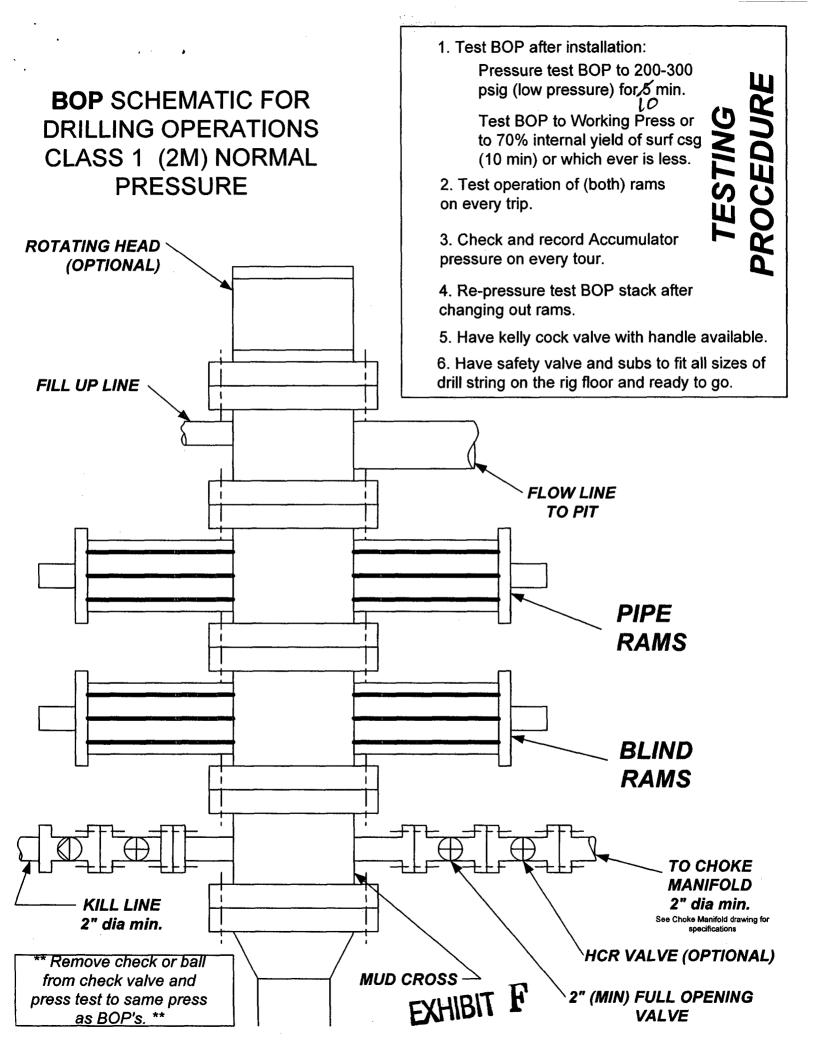
Est. KB Elevation: 5,842'

Formation	Subsea Depth	Well Depth
Ojo Alamo SS	+5367'	475'
Kirtland Shale	+5207'	635'
Farmington SS	+5170'	672'
Fruitland Formation	+4034'	1808'
Lower Fruitland Coal	+3934'	1908'
Pictured Cliffs SS	+3834'	2008'
Lewis Shale	+3634'	2208'
Chacra	+2802'	3040'
Cliffhouse SS	+2144'	3698'
Menefee	+2125'	3717'
Point Lookout SS	+1461'	4381'
Mancos Shale	+1129'	4713'
Gallup SS	+181'	5661'
Greenhorn Limestone	-566'	6408'
Graneros Shale	-621'	6463'
1 st Dakota SS	-675'	6517'
2 nd Dakota SS	n/a	n/a
3 rd Dakota SS	-740'	6582'
4 th Dakota SS	n/a	n/a
5 th Dakota SS	-783'	6625'
6 th Dakota SS	-847'	6689'
Burro Canyon SS	-954'	6796'
Morrison Shale	-982'	6824'
Project TD	-1108'	6950'

**** Max anticipated BHP will be < 2,000 psig (<0.30 psi/ft) ****

7. **COMPANY PERSONNEL:**

Name	Title	Office Phone	Home Phone
Jeff Patton	Drilling Engineer	505-324-1090	505-632-7882
Dennis Elrod	Drilling foreman	505-486-6460	505-326-2024
Red Meek	Project Geologist	817-885-2800	817-427-2475
Barry Voigt	Reservoir Engineer	817-885-2462	817-540-2092



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

- 1. Stake all lines from choke manifold to pit.
- 2. Pressure test choke monifold after installation.
- 3. Pressure test manifold at the same time with the BOP Stack. Test manifold to the same test pressures.

TESTING PROCEDURE

