Form 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	5. Lease Serial No. NMSF-077382	
la. Type of Work DRILL	REENTER	6. If Indian, Allotee or Tribe Name
1b. Type of Well Oil Well Gas Well	Other Single Zone Multiple	7 I Init on CA Agreement Name and No.
2. Name of Operator	illa Uant V la Si	8. Lease Name and Well No.
XTO Energy Inc.	VIO I KINITE	RP Hargrave K #1F
3a. Address	3b. Phone No. (include are	9. API WEII NO.
2700 Farmington Ave., Bldg. K. Ste 1 Fa. 4, Location of Well (Report location clearly and in accordance	rmington, NM 505-324-109	
/	10m 3	10. Field and Pool, or Exploratory Basin Dakota
Atsurface 2085' FSL x 1805' FWL in Sec 1	.6, T27N, R10W	11. Sec., T., R., M., or Blk. and Survey or Are
At proposed prod. zone		Sec 16, T27N, R10W
14. Distance in miles and direction from nearest town or post office	ce*	12. County or Parish 13. State
Approx 12 air miles Southeast	of the Bloomfield, NM Post Off	ice San Juan V NM
Distance from proposed*	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)	2523 52	320 W/S_
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 600	19. Proposed Depth	20.BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work wi	ill start* 23.Estimated duration
6009' Ground Level	winter 2005	
	24. Attachments	2 1100000
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be att	tached to this form:
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Offi 	Item 20 above). stem Lands, the 5. Operator certificatio	operations unless covered by an existing bond on file (see on. eific information and/or plans as may be required by the
25. Signuature	Name (Printed/Typed)	Date
tyla laughan	Kyla Vaughan	10/15/04
Title () () () () () () () () () (
Approved by (Signautre) Maulei Co	Name (Printed/Typed)	Date 2 - 10 000
Title ATM	Office FFS	
Application approval does not warrant or certify that the applic conduct operations thereon. Conditions of approval, if any, are attached.	cant holds legal or equitable title to those righ	ats in the subject lease which would entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212.	make it a crime for any person knowlingly and	willfully to make to any department or agency of the Unite

*(Instructions on page 2)

APD/ROW
cal and

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT | 1525 H. French Dr., Hobbs, N.M. 88240

DISTRICT 1
1301 W. Grond Ave., Artesia, N.M. 88210

ENSTRICT B. 1000 Rio. Brozos Rd., Aztec, N.M. 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santo Fe. NM 87505 Form C-102 Revised June 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

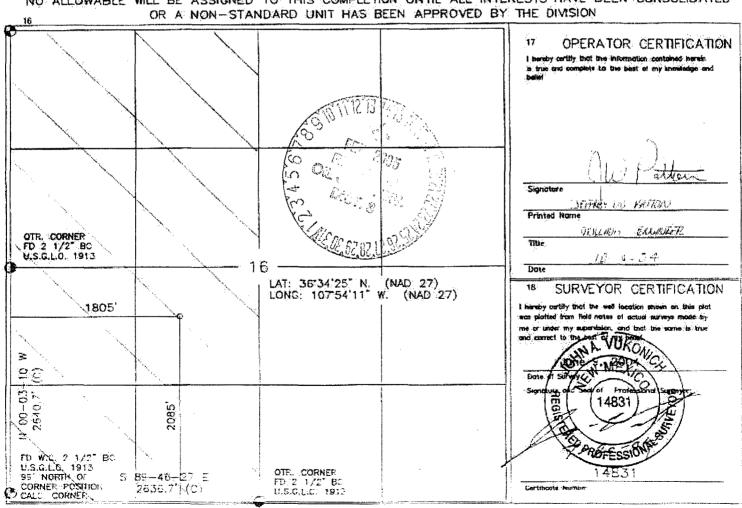
Fee Lease - 3 Copies

AMENDED REPORT

DESTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

30	0014	<u>5-3</u>	763	7	Pool Code								
• 6	reparty Co	de				*Property N	cene			⁴ Weil Number			
3	163	5		15									
	OGRID No.					*Operator h	lane			* Elevation			
	1670	67				XTO ENERG	Y INC.			6009			
L.,						10 Surface	Location	2.00					
UL or	let no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feat from the	East/Nest line	County			
	K	1.6	27-N	10-W		2085	SOUTH	1.805	WEST	SAN JUAN			
I				" Bott	om Hole	Location	lf Different Fr	om Surface					
U. or	lot no:	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
FA Dedic	oated Acres	! !	<u> </u>	S Joint or I	nfill	** Consolidation C	ode	Drder No.					
and the state of t	37.0	M.A.	/ L	ן ו	_								
NO	ALLOV	VABLE V		ASSIGNE						CONSOLIDATED			
16		•	OR A	NON-ST	ANDARD	UNIT HAS B	EEN APPROVE	D BY THE D	IVISION				



XTO ENERGY INC. LAT. = 36'34'25" N. R P HARGRAVE K #1F, 2085' FSL 1805' FWL LONG. = 107'54'11 SECTION 16, T27N, R10W, N.M.P.M., SAN JUAN COUNTY, N. M. NAD 27 **GROUND ELEVATION: 6009', DATE: JUNE 9, 2004** CONSTRUCTION ZONE 8 F 1.6 c 6 (5) A 5.7 C 0.6 9 Install drain pipe on 2.1 Slopes Reserve Pit FRUITLAND FORMATIONS ONLY 불 6 DEEP 00 10 DEEP 8" DEEP BLOW PIT 15 4 LAYDOWN N 47'25' W S Wellhead to Back F 3.6 C 3.1 Wellhead to Front REAR 120 C 0.0 120 110 <u>.</u> EXIST, ACCESS 3 В C 5.1 C 1.3 **天 3.3** (305' X 340') = 2.38 ACRES 205' X 240' RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE).
BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT. DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERCROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE: ELEV. A-A C/ 6020 6010 6000 5990 C/L ELEV. B-B' 6020 6010 Oll Fleid Services - Formington, His 67301 772 - Fox (505) 128-6019 6000 Enterprises, 5990) 126-1772 - Fax (5 MEXICO L.S. No. 1 C/L ELEV. C-C 6020 Daggett Surveying O. Ber 1 6010 6000 5990 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Exhibit D

XTO ENERGY INC.

RP Hargrave K #1F **APD Data** October 14, 2004

Location: 2,085' FSL x 1805' FWL Sec 16, T27N R10W

County: San Juan

State: New Mexico

GREATEST PROJECTED TD: 6,725'

OBJECTIVE: Basin Dakota

APPROX GR ELEV: 6,009'

Est KB ELEV: 6,021' (12' AGL)

1. **MUD PROGRAM:**

INTERVAL	0' to 360'	360' to 4,000'	4,500' 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
Interv	l 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 ($\pm 6,725$ ') in 7-7/8" hole filled with 9.0 ppg mud.

ſ						Coll	Burst	T. C.	9	5 : 5	a 5	a	~~
ı						Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
L	Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
	0'-TD	6,725'	15.5#	J-55	STC	4040	4810	222	4.950	4.825	1.22	1.45	2.02

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 $\pm 6,725$ ' in 7-7/8" hole. DV Tool set $(a) \pm 4,000$ '

1st Stage

LEAD:

225 sx of Premium Lite HS (Type III/Poz/Gel) with 2% salt, 1/4 pps cello, 0.2% dispersant, 0.5% fluid loss & 2% LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

150 sx Type III with 5% bonding additive, 1/4 pps cello, 2% LCM, 0.3% dispersant & 0.2% fluid loss mixed at 14.2 ppg, 1.54 cuft/sx, 8.00 gal/sx.

2nd Stage

LEAD:

325 sx of Type III with 8% gel, 1/4 pps cello & 2% LCM mixed at 11.9 ppg, 2.54 ft³/sk, 15.00 gal wtr/sx.

TAIL:

100 sx Type III 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 1,648 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 4,800' 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 (6,725') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from 6,725' to 4,725'.

Exhibit E

6. FORMATION TOPS:

Est. KB Elevation: 6,021'

Formation	Subsea Depth	Well Depth
Ojo Alamo SS	+5235'	789'
Kirtland Shale	+5075'	949'
Farmington SS	+4952'	1072'
Fruitland Formation	+4585'	1439'
Lower Fruitland Coal	+4230'	1794'
Pictured Cliffs SS	+4211'	1813'
Lewis Shale	+4061'	1963'
Chacra	+3309'	2715'
Cliffhouse SS	+2692'	3332'
Menefee	+2585'	3439'
Point Lookout SS	+1863'	4161'
Mancos Shale	+1541'	4483'
Gallup SS	+688'	5336'
Greenhorn Limestone	-131'	6155'
Graneros Shale	-183'	6207'
1 st Dakota SS	-212'	6236'
2 nd Dakota SS	-250'	6274'
3 rd Dakota SS	-311'	6335'
4th Dakota SS	-360'	6384'
5 th Dakota SS	-376'	6400'
6 th Dakota SS	-408'	6432'
Burro Canyon SS	-463'	6487'
Morrison Shale	-501'	6525'
Project TD	-701'	6725'

ABHP ~ 2900 psi

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
Randy Hosey	Project Geologist	817-885-2398	817-427-2475
Barry Voigt	Reservoir Engineer	817-885-2462	817-540-2092

JWP 10/14/04

Exhibit E

1. Test BOP after installation: Pressure test BOP to 200-300 psig (low pressure) for 5 min. **BOP SCHEMATIC FOR** Test BOP to Working Press or **DRILLING OPERATIONS** to 70% internal yield of surf csq CLASS 1 (2M) NORMAL (10 min). **PRESSURE** 2. Test operation of (both) rams on every trip. 3. Check and record Accumulator **ROTATING HEAD** pressure on every tour. (OPTIONAL) 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. FILL UP LINE **FLOW LINE** TO PIT PIPE RAMS **BLIND RAMS** TO CHOKE **MANIFOLD** KILL LINE 2" dia min. See Choke Manifold drawing for 2" dia min. HCR VALVE (OPTIONAL) Remove check or ball **MUD CROSS**from check valve and 2" (MIN) FULL OPENING press test to same press **VALVE** as BOP's. ** STHIBIT E

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

