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

2014110 01 21112 112		20				
APPLICATION FOR PERMIT TO	O DRILL (OR REENTER ///	3 1	Lease Serial No. SF-046563		
		1 C// 2 200 C		f Indian, Allotee or	Tribe Name	
. Type of Work DRILL] REENTEI		<u> </u>	N/A	The rune	
. Type of Well Oil Well 🔀 Gas Well 🔲 Oil	ther [Single Zone Multiple Zon	7.1	Unit or CA Agreem	ent Name and No.	
Name of Operator		12		N/A Lease Name and We	ll No.	
TO Energy Inc.		1000 - 100 G		KUIZ FEDERAL		
Address		3b. Phone No (include area co	101	API Well No.	33/138	
2700 Farmington Ave., Bldg. K. Ste 1 Farm Location of Well (Report location clearly and in accordance w	with any State	NM 505-324-1090 equirements)*	10.1	Field and Pool, or E	vmloretom/	
At surface 2175' FSL x 845' FWL in Sec 33,	T28N. R	10W		DAKOTA/CHACRA	<u>. </u>	
At proposed prod zone			1.		Blk. and Survey or A	
SAME	•			S33, T28N, R		
Distance in miles and direction from nearest town or post office		51-3-3 - NA D	- 1	County or Parish	13. State	
Approx 8 air miles southeast Distance from proposed*	OI BTOOM	16. No. of Acres in lease		n Juan g Unit dedicated to	NM this well	
location to nearest property or lease line, ft. 845'			17. Зрасш			
(Also to nearest drg. unit line, if any)		2522.06		320 W/2, 10		
Distance from proposed location* to nearest well, drilling, completed,		19. Proposed Depth	20.BLM/	BIA Bond No. on i	ile	
applied for, on this lease, ft. 585'		6935'				
Elevations (Show whether DF, KDB, RT, GL, etc.		22. Approximate date work will star	rt*	23. Estimated dura	tion	
6083' Ground Elevation		summer 2005		2 weeks		
A Drilling Plan A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office		Item 20 above). 5. Operator certification. 6. Such other site specific in authorized officer.	formation a	and/or plans as may	be required by the	
Signuature	N	ame (Printed/Typed)		Date		
Kills Variabas		yla Vaughan			04/22/05	
tle Regulatory Compliance Tech		Ara Aandran			01/22/03	
pproved by (Signature)	N	ame (Printed/Typed)		Date	· ·	
May los				6	14-05	
tie A	0	ffice				
AFM		FFO				
oplication approval does not warrant or certify that the applicar	nt holds legal	or equitable title to those rights in t	he subject	lease which would	entitle the applicant	
nduct operations thereon. onditions of approval, if any, are attached.				0	3	
tle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mates any false, fictitious or fraudulent statements or representation	ake it a crime ns as to any i	for any person knowlingly and willfumatter within its jurisdiction.	lly to make		of agency of the Uni	
Instructions on page 2) This action is subject to technical and procedural review pursuant to 43 CFR and appeal pursuant to 43 CFR 3165.	R 3165.3	DRILLING OPERATIONS AUT SUBJECT TO COMPLIANCE "GENERAL REQUIREMENTS	WITH ATTA	ARE SO CHED		
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			IW			

DISTRICT 11625 N. French Dr., Hobbs, N.M. 88240

DISTRICT # 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT # 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

CONTROL OF THE PARTY OF THE PAR

1220 South St. Francis Dr., Sonto Fe, NM 87505

☐ AMENDED REPORT

30-D	Yumber US-	3303	871	Pool Code		Basin	Pool N	larne		The transfer of the state of th	
Property Cod			*Property Nome * Well Number								
7 OGRID No.		*	KUTZ FEDERAL *Operator Name								
	4				XTO ENERG					*Elevation 6083	
16706	4						**************************************				
The second of		T =	··		10 Surface						
Ut. or lot no.	Section 33	Township 28-N	Range 10W	Lot idn	Feet from the 2175	North/South line SOUTH	Feet from the 845	Ecat/We WE		SAN JUAN	
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UL or lot no.	Section	Township	Ronge	Lot idn	Feet from the	North/South line	Feet from the		at line	County	
¹² Dedicated Acres			13 Joint or in	: 19ti	14 Consolidation C	ode	¹⁶ Order No.				
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NO ALLOW	ABLE \					ON UNTIL ALL			EEN C	ONSOLIDATED	
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SEC. CORNER FD 3 1/2" BC		S 89-53 2638.9	3-44 E	U.S.G.L	O. 1913 EAST OF CORNER	POSITION	Cert	liscote Number			

DISTRICT 1 1625 N. French Ur., nobbs, N.M. 88240

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

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form. C-102 Revised June 10, 2003

1301 W. Grand Ave., Artesia, N.M. 88210

Submit to Appropriate District Office

DISTRICT III

State Lease - 4 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410

Fee Lease - 3 Copies

DISTRICT IV 1220 South St. Francis Dr., Sonto Fe, NM 87505

☐ AMENDED REPORT

WE	LL LOCATION	AND	ACREAGE	DEDICATION	PLAT	
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						D 145 45 45

30-045-3	3038 82329 Olevo Chaca	_
Property Code	⁴ Properly Name	* Wall Number
22756	KUTZ FEDERAL	16
7 OGRED No.	*Operator Name	⁶ Elevation
167067	XTO ENERGY INC.	6083

10 Surface Location Feet from the North/South line Feet from the East/West line Lot Idn Ronge

L	33	28-N	10-W		2175	SOUTH	845	WEST	SAN JUAN
	"Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Ronge	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
1	i .	1			1		į		

Dedicated Acres M Order No. 13 Joint or Infill 14 Consolidation Code

WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

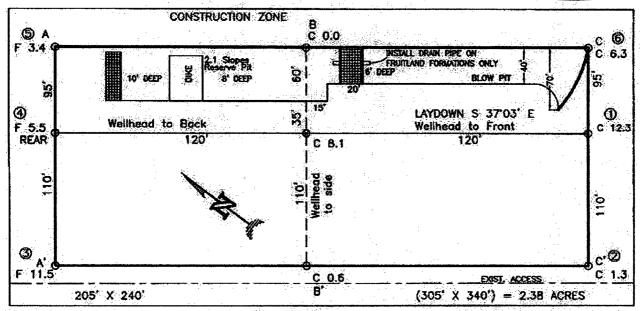
		TOTAL CITT TITIS D		THE DIVIDIOIS
16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and beller
QTR., CORNER FD 3 1/2", BC U.S.G.L.O., 1913	3	3		Soly A Small Frinted Name DY 111119 ASSISTANT Title 115105 Date
21.75 E 75.		LAT: 36'37'03" N. LONG: 107'54'23" \	(NAD 27) Y. (NAD 27)	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the scare is true and correct to the best divergendable. Date of State of March
97- 97- 97- 90-98 2 SFC. CORNER FD 3 1/2" BC LS.G.LO. 1913	\$ 89-53-44 E 2638.9' (M)	CALC'D CORNER W.C. FOR OTR. CORNER FD 2 1/2" BC U.S.G.L.O. 1913 13.2' EAST OF CORNER		Cartificate Number

Submit 3 Copies To Appropriate District	State of New Me		Form C-103
Office District I	Energy, Minerals and Natur	ral Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 87240			WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		F Y. d. A. T CI
District III	1220 South St. Fra	ancis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8	7505	STATE FEE
1220 S. St. Francis Dr., Santa Fe, NM 87505			6. State Oil & Gas Lease No. SF-046563
	S AND REPORTS ON WE		7. Lease Name or Unit Agreement Name:
(DO NOT USE THIS FORM FOR PROPOSITION OF THE PROPOSITION OF THE PROPOSALS.)			KUIZ FEDERAL
1. Type of Well:			8. Well Number
Oil Well Gas Well X	Other		#16
2. Name of Operator			9. OGRID Number
XTO Energy Inc.			167067
3. Address of Operator			10. Pool name or Wildcat
2700 Farmington Ave., Bldg.	. K. Ste 1 Farmington, N	<u>% 87401</u>	BASIN DAKOTA/OTERO CHACRA
4. Well Location			
Unit Letter : : :	2175 feet from the SO	Ine and	845 feet from the WEST line
Section 33	Township 28N	Range 10W	NMPM NMPM County SAN JUAN
	11. Elevation (Show whether 608	DR, RKB, RT, GR, et	c.)
Pit or Below-grade Tank Application X	or Closure		
Pit typeDRILL_ Depth to Groundwater		h water well 1 MILE Dis	stance from nearest surface water 1 MILE
Pit Liner Thickness: 12 mil			
•	ppropriate Box to Indicate	Nature of Notice,	Report, or Other Data
NOTICE OF INTE	NTION TO:	SUB	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🔲	REMEDIAL WORK	☐ ALTERING CASING ☐
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLI	NG OPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING	MULTIPLE	CASING TEST AND	ABANDONWENT
	COMPLETION	CEMENT JOB	
OTHER: DRILLING PIT	X	OTHER:	
			
			e pertinent dates, including estimated date a wellbore diagram of proposed completion
·			
			The pit will be removed
from location in accordance	e with New Mexico Oil Con	servation division	guidelines when work is completed.
I haraby cartify that the information of	ova is true and complete to the	hast of my lenovyladas	e and belief. I further certify that any pit or below-
grade tank has been/will be constructed or cle	osed according to NMOCD guideline		or an (attached) alternative OCD-approved plan
SIGNATURE THE VALUE	TIT TIT	LE Regulatory C	ompliance Tech DATE 04/22/05
	<i>)</i> E-r	nail address: ky:	la_vaughan@xtoenergy.com
Type or print name Kyla Vaughan			Telephone No. 505-564-6726
For State Use Only		GETUTY OIL & GAS	INSPECTOR, DIST. 50 JUN 16 2005
APPROVED BY	/////TII	ΓLE	DATE
Conditions of Approval, if any:			

EXHIBIT D

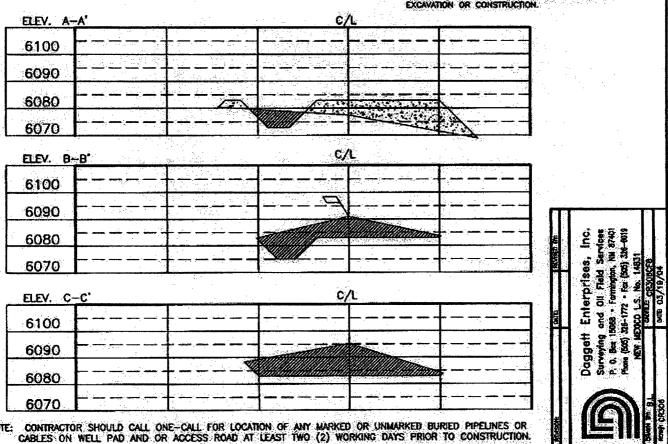
XTO ENERGY INC.
KUTZ FEDERAL No.16, 2175' FSL 845' FWL
SECTION 33, T28N, R10W, N.M.P.M., SAN JUAN COUNTY, N. M.
GROUND ELEVATION: 6083', DATE: MARCH 8, 2004

LAT. = 36'37'03" N. LONG. = 107'54'23" W NAD 27



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.

NOTE: DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEDICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.



XTO ENERGY INC.

Kutz Federal #16 APD Data April 22, 2005

Location: 2,175' FSL x 845' FWL Sec 33, T28N, R10W County: San Juan State: New Mexico

GREATEST PROJECTED TD: 6,935'

OBJECTIVE: <u>Basin Dakota</u> Est KB ELEV: <u>6,095' (12' AGL)</u>

APPROX GR ELEV: 6,083'

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.

2. 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 ($\pm 6,935$ ') in 7-7/8" hole filled with 9.0 ppg mud.

						Coll Rating	Burst Rating	Jt Str	ID	Drift	SF	SF	SF
-	Interval	Length	Wt	Gr	Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll	Burst	Ten
L	0'-TD	6,935'	15.5#	J-55	STC	4040	4810	222	4.950	4.825	1.22	1.45	2.02

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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), 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 $\pm 6,935$ ' in 7-7/8" hole. DV Tool set @ $\pm 4,000$ '

1st Stage

LEAD:

225 sx of Premium Lite HS (Type III/Poz/Gel) with additives (dispersants, fluid loss, LCM) mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

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

2nd Stage

LEAD:

375 sx of Type III with additives (gel, 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 1,775 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 5,500' 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 (6,730') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (6,730') to the bottom of the surface casing.

6. FORMATION TOPS:

Est. KB Elevation: 6,095'

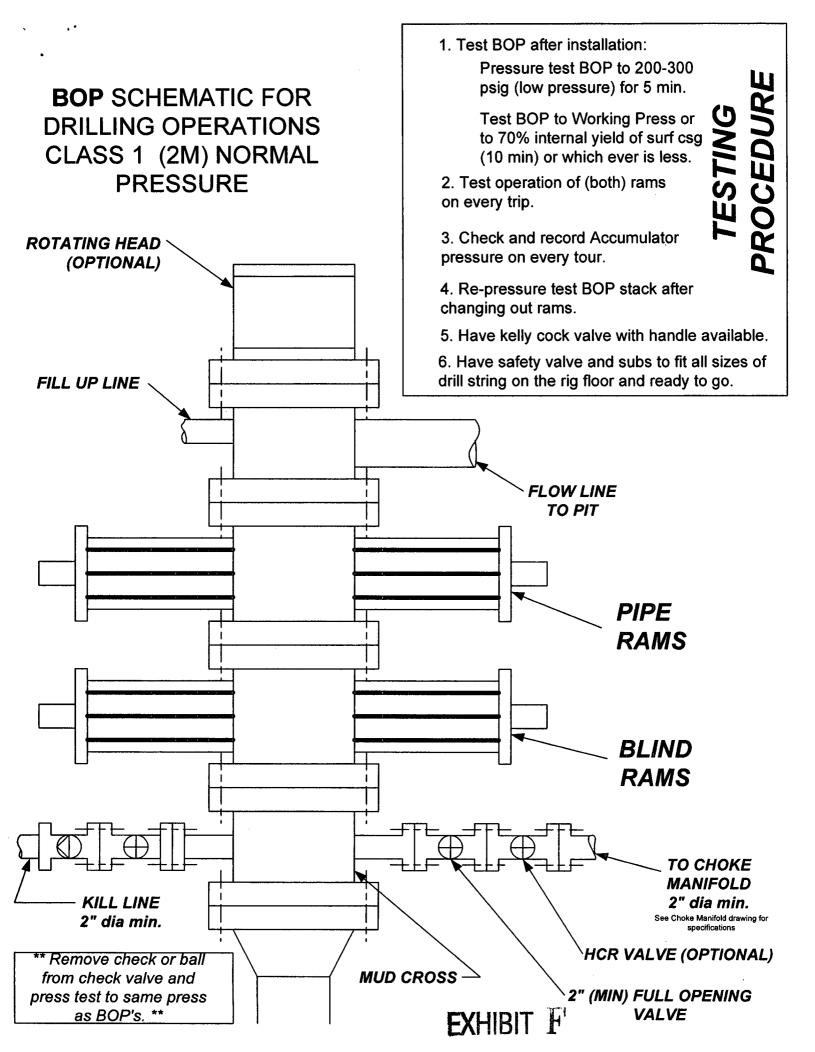
Formation	Subsea Depth	Well Depth		
Ojo Alamo SS	+5136'	959'		
Kirtland Shale	+4982'	1113'		
Farmington SS				
Fruitland Formation	+4542'	1553'		
Lower Fruitland Coal	+4109'	1986'		
Pictured Cliffs SS	+4089'	2006'		
Lewis Shale	+3915'	2180'		
Chacra	+3150'	2945'		
Cliffhouse SS	+2522'	3573'		
Menefee	+2427'	3668'		
Point Lookout SS	+1755'	4340'		
Mancos Shale	+1388'	4707'		
Gallup SS	+529'	5566'		
Greenhorn Limestone	-259'	6354'		
Graneros Shale	-324'	6419'		
1 st Dakota SS	-354'	6449'		
2 nd Dakota SS	-379'	6474'		
3 rd Dakota SS	-436'	6531'		
4 th Dakota SS	-505'	6600'		
5 th Dakota SS	-540'	6635'		
6 th Dakota SS	-584'	6679'		
Burro Canyon SS	-605'	6700'		
Morrison Shale	-641'	6736'		
Project TD	-840'	6935'		

ABHTPN 2500pm

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 4/22/05



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.

PROCEDURE

