UNITED STATES DEPARTMENT OF THE INTERIOR DEC 0 4 2008

FORM APPROVED

5 Lease Serial No.

OMB No 1004-0137 Expires March 31, 2007

BUREAU OF LAND MAN	AGEMENT Famingro	n Held (
APPLICATION FOR PERMIT TO	6 If Indian, Allotee or Tribe Name N/A				
la Type of work: DRILL REENTI	7 If Unit or CA Agreement, Name and No N/A				
lb. Type of Well. On Well Gas Well Other	8 Lease Name and Well No OHRANDEL 2R				
2 Name of Operator XTO ENERGY INC.	Single Zone ✓ Multip		9 API Well No. 30-045- 348	63	
3a. Address 382 ROAD 3100 AZTEC, NM 87410	10 Field and Pool, or Exploratory GA'GOS. GAL'P. ASC & BAS. DK.				
4. Location of Well (Report location clearly and in accordance with an At surface 2480' FSL & 660' FWL At proposed prod. zone SAME	ry State requirements *)		11 Sec, T. R M. or Bll 10-26N-11W N		
14 Distance in miles and direction from nearest town or post office* 13 AIR MILES SOUTH OF BLOOMFIELD			12 County or Parish SAN JUAN	13. State	
15 Distance from proposed* location to nearest	16 No of acres in lease		ing Unit dedicated to this well		
(Also to nearest drig. unit line, if any) 2,480°	1,920		ALLUP: N2SW4 & DAKOTA: S2		
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,686' (XTO's 1 E)	19 Proposed Depth 6,700'		M/BIA Bond No. on file M NATIONWIDE UTB-000138		
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 6,351' GL	22. Approximate date work will sta 03/01/2009	rt*	23. Estimated duration 4 WEEKS		
	24. Attachments		# 12 g	20° EI VON G	
 The following, completed in accordance with the requirements of Onshorm. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office) 	Lands, the 4 Bond to cover to Item 20 above) 5. Operator certific	he operation specific info	OTL	CONS. DIV. existing bond on file (see DIST. 3 may be required by the	
25. Signature	Name (Printed/Typed) BRIAN WOOD			Date 11/26/2008	
Title	PHONE: (505) 466-8120	FA	X: (505) 466-9682		
Approved by (Signature) Mauleo bell	Name (Printed/Typed)			Date 11/9/0	
Title AFN	Office . —	<u>.</u>			
Application approval does not warrant or certify that the applicant hold conduct operations thereon Conditions of approval, if any, are attached.	s legal or equitable title to those righ	its in the sub	oject lease which would e	ntitle the applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a citates any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and to any matter within its jurisdiction.	willfully to r	nake to any department o	r agency of the United	
*(Instructions on page 2) A COMPLETE STATE MOOST BE SOME APPROVED BY THE NMOCD FOR: LOOP SYSTEM, BELOW GRAD	A PIT, CLOSED '	-			

PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER

OPERATOR FROM OBTAINING ANY OTHER NOTIFY AZTEC OCD 24 HRS AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS PRIOR TO CASING & CEMENT PN FEDERAL AND INDIAN LANDS

NOV 1 7 2009

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".



and OFR 3165 3 and appeal pursuant to 43 CFR 3165'4

DISTRICT 1 1625 N French Dr., Hobbs, N.M. 88240

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

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

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

State of New Mexico Energy, Minerals & Natural Resources Department

Revised October 12, 2005 OIL CONSERVATION DIVISION JEC 0 4 2008 State Lease - 4 Copies 1220 South St. Francis Dr.
Santa Fe, NM 87505 Butter Fee Lease - 3 Copies

Form C-102

Familington Field Office

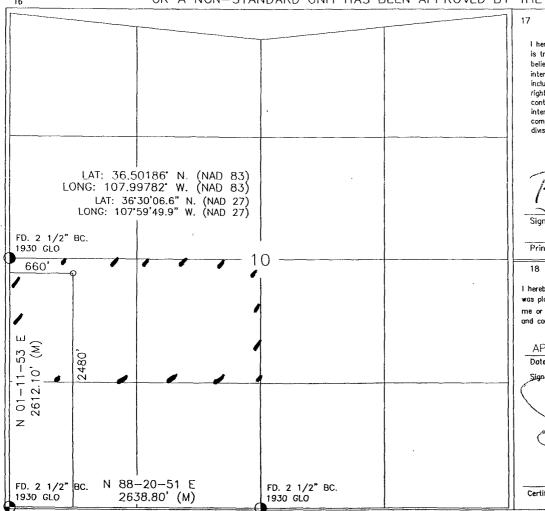
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-34863			20	Pool Code		GALLEGOS	CIATE	ED)		
⁴ Property Co	de	³ Property Name					⁶ Wei	l Number		
2285	57	OH RANDEL							2R	
⁷ OGRID No.		*Operator Namé						⁹ Elevation		
1670	67	' XTO ENERGY INC.						6	351'	
· Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
L	10	26-N	11-W		2480	SOUTH	660	WE:	ST	SAN JUAI

¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County Range 13 Joint or Infill 14 Consolidation Code ¹² Dedicated Acres 15 Order No. 80

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



OPERATOR CERTIFICATION

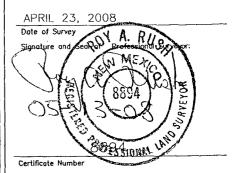
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the

BRIAN WOOD

Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowlegge and belief.



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

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

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

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

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

,		·	NELL L		N AND	ACREAGE	DEDI					
30-04	Number 45 –		7	² Pool Code 1599	ļ	BASIN	DAK		Pool Name			
⁴Property Co	ode		<u> </u>		⁵ Proper	rty Name					e M	ell Number
-		OH RANDEL							2R		2R	
7 OGRID No	Э.	*Operator Name									g	Elevation
1670	67				XTO ENE	ERGY INC.						6351'
J 3 (¹⁰ Surfa	ce Locatio	on					
UL or lot no.	Section	Township	Ronge	Lot Idn	Feet from the	e North/So	uth line	Feet fro		East/Wes		County
LL	10	26-N	11-W	L	2480	SOL	JTH	66	50	WES	ST ———	SAN JUAN
			·11 Bott	om Hole	Locatio	n If Differ	ent Fr	om Su	rface		_	
UL or lot no.	Section	Township	Ronge	Lot Idn	Feet from th	e North/So	uth line	Feet fro	om the	East/Wes	t line	County
¹² Dedicated Acres			13 Joint or I	n fill	14 Consolidatio	on Code		15 Order	No.	1		
	3 2	20				•						
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16						BEEN AP						
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												on contained herein
									belief, and	d that this or	ganization e	of my knowledge and either owns a working
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				1,								tion pursuant to a mineral or working
								[]	interest, o	or to a volunt	ary pooling	agreement or a e entered by the
									division.	y pooling orde	G TICIO(OIO	o circulos by the
V	AT: 36.50	0186° N.	(NAD 83)						$\overline{}$	1/)	,
LONG		9782° W. 80'06.6" N.							14	Jan C	/	-26-08
· LO	NG: 107'5	69'49.9" W.	(NAD 27)						Signatur			
FD. 2 1/2" BC.										DKI	AN V	VOOD Date
1930 GLO 660'				10			ĵ		Printed 1		00.05	DIE OLTION
- 000		•			/							RTIFICATION shown on this plat
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												t the same is true egde and belief.
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1930 GLO	2 63	8.80'(M)		1930 GL0					ou mode		-	

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	12'	+6,351'
Kirtland Shale	551'	[~] 563'	+5,800'
Fruitland Formation	1,526'	1,538'	+4,825'
Pictured Cliffs Sandstone	1,736'	1,748'	+4,615'
Lewis Shale	1,936'	1,948'	+4,415'
Cliff House Sandstone	3,251'	3,263'	+3,100'
Menefee Shale	3,351'	3,363'	+3,000'
Point Lookout Sandstone	4,151'	4,163'	+2,200'
Mancos Shale	4,451'	4,463'	+1,900'
Gallup Sandstone	5,286'	5,298'	+1,065'
Greenhorn Limestone	6,111'	6,123'	+240'
Graneros Shale	6,175'	6,183'	+175'
Dakota Sandstone	6,331'	6,343'	+20'
Total Depth (TD)	6,700'	6,712'	-349'

2. NOTABLE ZONES

Gas & Oil Zones	Water Zones	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
Gallup	Fruitland	•
Dakota		•

Water zones will be protected with casing, cement, and weighted mud. Fresh water found while drilling will be recorded. Oil or gas shows will be tested for commercial potential based on the geologist's recommendations.



3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) An 8-5/8" x 11" 2,000 pound double ram BOP system with a choke manifold and mud cross will be tested to ≈ 200 psi and then to $\approx 1,000$ psi. Upper and lower Kelly cocks with valve handle and subs to fit all drill string connections which are in use will be available on the rig floor.

Tests will be run when:

- 1) installed
- 2) anytime a pressure seal is broken (test only affected equipment)
- 3) at least every 30 days
- 4) blind & pipe rams will be activated each trip, but no more than daily

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested before drilling surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated daily to ensure good mechanical working order and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs. Maximum expected bottom hole pressure will be <2,680 psi. BOP and mud system will control pressure.

4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	Setting Depth
12-1/4"	8-5/8"	24	J-55	New	ST&C	360'
7-7/8"	5-1/2"	15.5	J-55	New	ST&C	6,700'



Surface casing will be cemented to the surface with ≈ 375 cubic feet (≈ 270 sacks) Type V cement + 1/4 pound per sack cello-flake + 2% CaCl₂. Yield = 1.39 cubic feet per sack. Weight = 14.5 pounds per gallon. Excess: >100%. Centralizers will be set on the bottom two joints of the surface casing and every fourth joint to the surface.

Production casing will cemented to the surface in two stages with $\approx 100\%$ excess. DV tool will be set at $\approx 4,800$ '. Total first stage volume = 1,165 cubic feet. Second stage volume = 1,725 cubic feet. Centralizers will be set on the bottom two joints, every second joint to $\approx 5,000$ ', and every fourth joint from $\approx 2,000$ ' to the surface.

Will cement first stage with ≈ 580 sacks (=1,165 cubic feet) premium light HS cement with 0.2% CD 32 + 0.5% FL 32 + 1/4 pound per sack cello flake + 2% KCl + 2% phenoseal mixed at 12.5 pounds per gallon and 2.01 cubic feet per sack.

Will cement second stage with ≈ 610 sacks (=1,586 cubic feet) premium light HS cement with 8% gel + 1/4 pound per sack cello flake + 2% phenoseal mixed at 11.9 pounds per gallon and 2.60 cubic feet per sack. Will follow with ≈ 100 sacks (= 139 cubic feet) Type III neat cement mixed at 14.5 pounds per gallon and 1.39 cubic feet per sack.

5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	WEIGHT	VISCOSITY	WATER LOSS	<u>ADDITIVES</u>
0' - 360'	Fresh-Spud	8.6-9.0	28-32	NC	Gel, lime
360' - 2,500'	Fresh-Poly	8.4-8.8	28-32	NC	Gel, lime sweeps
2,500' - TD	Fresh Water	8.6-9.2	45-60	8-10 cc	Gel, soda ash, LCM



6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Mud logger will arrive at $\approx 3,000$ ' and collect samples every ≈ 10 ' from there to TD. These open hole logs will be run:

Array Induction/SFL/GR/SP from TD to ≈ 360 ' Neutron/Lithodensity/Pe/GR/Cal from TD to $\approx 3,000$ '

7. DOWN HOLE CONDITIONS

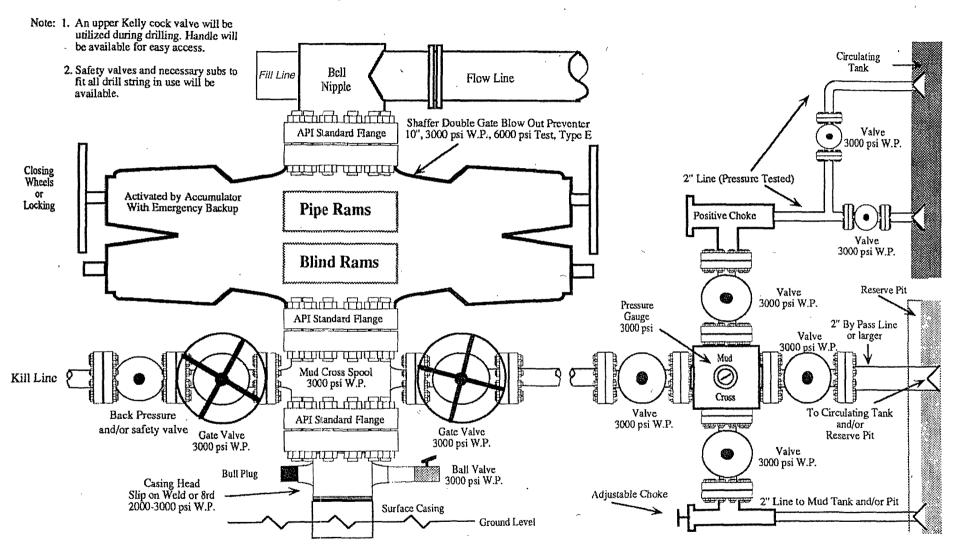
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be $\leq 2,680$ psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take about four weeks to drill and complete the well.



2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.