RECEIVED

Ferm 3160-3 Bureau Of OMB No. 1004-0137 (April 2004) UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR NMNM-03554 BUREAU OF LAND MANAGEMENT If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of work: DRILL REENTER 8. Lease Name and Well No. lb. Type of Well: Oii Well

✓ Gas Well Single Zone | | Multiple Zone BREECH C #244G 9. API Well No. Name of Operator XTO Energy, Inc. 30-045-039-30652 3a. Address 382 CR 3100 3b. Phone No. (include area code) **Aztec NM 87410** 505-333-3100 Basin DK/Blanco MV/S. Blanco TO Location of Well (Report Jocation clearly and in accordance with any State requirements.*) H. Sec., T. R. M. or Blk. and Survey or Area 660' FNL x 945 FWL At surface (D) SEC 14, T26N, R6W At proposed prod. zone. 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* Approximately 33.5 miles Southeast of Bloomfield, NM post office San Juan RIDATTIBE 15. Distance from proposed 16. No. of acres in lease 17. Spacing Unit dedicated to this well property or lease line, it. (Also to nearest drig, unit line, if any) DK/MV: N/2 320, To: W/2 NW/4 80 160 20. BLM/BIA Bond No. on file 18. Distance from proposed location* to nearest well, drilling, completed 19. Proposed Depth UTB-000138 3331 7680 applied for, on this lease, ft. 22 Approximate date work will start 23. Estimated duration Elevations (Show whether DF, KDB, RT, GL, etc.) 6612' Ground Elevation 03/01/2009 2 weeks 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 25. Signature Name (Printed/Typed) Eden Fine 01/12/2009 Name (Printed/Typed) Title

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. # NSL regular for South Blanco Tocito For.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

JUN 1 0 2011

APD/ROW

A

NMOCD

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

RECEIVED

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

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

DISTRICT IN

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

12.N 1 8 2003 Form C-102

Bureau of Lario Revised October 12, 2005
FSubmitton Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

1000 Rio Brazos Rd	J., Aztec, N.	M. 87410			Santa Fe, NN	67303				5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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304	751				BREECH					244G
OGRID No. Operator Name										Elevation
554	5380 XTO ENERGY INC.									6612'
<u></u>			· · · · · · · · · · · · · · · · · · ·		10 Surface					
UL or lot no.	Section 14	Township 26-N	Range 6-W	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 945	East/Wes		County RIO ARRIBA
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FD. 3 1/4* BC. 945 FD. 3 1/4* BC. 1957 B.L.M.	.099	\ <u>LĀ</u>	2' (M) ORFACE T: 36.495 NG: 107.				I hereby cer is true and belief, and i interest or including the right to drift contract wit interest or computary division Signatur Printed	tify that the complete to that this orga unleased mine e proposed bit this well at him owner of to a wounter pooling order	Information the beat of nizotion either area interest this location for such a my pooling or such a my pooling or heretofore	CATION contained herein my knowledge and her aims a working in the land location or has a n pursuant to a interal or working greement or a entered by the RTIFICATION
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DISTRICT I 1625 N. French Or., Hobbs, N.M. 88240

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

DISTRICT III 1000 Rio Brazos Rd., Aztac, 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

1000 Rio Brazos Rd	L, Aztac, N	M. 87410			Juli 10, 10.						
DISTRICT IV 1220 South St. Fra	neis Dr., So	inta Fe. NM 87	505					☐ AM	ENDED REPORT		
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1 Property Con		* Well Number									
304751 BREECH C Operator Name											
		*Operator Name *Elevation XTO ENERGY INC. 6612'									
538	0										
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1957 B.L.M.							i hereby certi was plotted f me or under	ify that the well location field notes of act my supervision, and the least of my known of the least of the leas	tual surveys made by het the same is true		

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

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

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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

ET AMENDED DEPORT

DISTRICT IV 1220 South St. From	incis Dr., Sa	nta Fe, NM 87	505						AMENU	DED REPORT
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1 API	Number		1	Pool Code	7,110	SHERIOE BEB	³Pool Name			
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Property Coo	de				*Property	Name			4 Well	Number
3047	151				2	244G				
OGRID No.		· · · · · · · · · · · · · · · · · · ·			*Operator	Name			* E1	levation
538	30				XTO ENERG	GY INC.				5612'
					¹⁰ Surface	Location				
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FD. 3 1/4" BC. 1957 B.L.M.	•		····	14						
1937 B.L.M.	1						11			TIFICATION
							I hereby ceri	ify that the well from field notes o	location sho	own on this plat
							Me or under	my supervision, o	and that the	same is true
				1			11	to the best of m		a. 001(81)
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XTO ENERGY INC.

Breech C #244G APD Data January 9, 2009

Location: 660' FNL x 945' FWL Sec 14, T26N, R6W

County: Rio Arriba

State: New Mexico

GREATEST PROJECTED TD: 7680'

OBJECTIVE: Basin Dakota / Tocito / Mesaverde

APPROX GR ELEV. 6612'

Est KB ELEV: <u>6624' (12' AGL)</u>

1. MUD PROGRAM:

INTERVAL	0' to 360'	360' to 2500'	2500' to 7680'
HOLE SIZE	12.25"	7.875"	7.875"
MUD TYPE	FW/Spud Mud	LSND	LSND
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.8
VISCOSITY	28-32	28-32	45-70
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: 8.625" casing to be set at ± 360' in a 12.25" hole filled with 9.20 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-360'	360'	24.0#	J-55	ST&C	1370	2950	244	8.097	7.972	7.950	17.13	28.24

Production Casing: 5.5" casing to be set at TD (±7680') in 7.875" hole filled with 9.20 ppg mud.

				·	Coll	Burst	14 C4	ID	D: 6	C.F.	er.	C.F.
Interval	Length	Wt	Gr	Eplg	Rating (psi)	Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0, 7800	_	15.54			4040	4010			· · · · · · · · · · · · · · · · · · ·			
0'-7800	7800'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.10	1.31	1.70

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 (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

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

A. Surface:

8.625", 24.0#, J-55, ST&C easing to be set at \pm 360' in 12-1/4" hole.

214 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> 5.5", 15.5#, J-55 (or K-55), ST&C casing to be set at \pm 7680' in 7.875" hole. DV Tools set a \pm 6325' and a \pm 3150'.

1st Stage

LEAD:

±90 sx of Premium Lite HS (Type III/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 12.5 ppg, 2.01 ft³/sk, 10.55 gal wtr/sx.

TAIL:

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

2nd Stage

LEAD:

±250 sx of Type III or equivalent cement with 8% 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.

3rd Stage:

LEAD:

 ± 240 sx of Type III or equivalent cement with 8% 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 1858 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: None.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (7680') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (7680') to 3,000'.

6. FORMATION TOPS:

Est. KB Elevation: 6624'

FORMATION	Sub-Sea	MD	FORMATION	TV Sub-Sea	MD
Ojo Alamo SS	4263	2361	Gallup	247	6377
Kirtland Shale	4079	2545	Greenhorn	-567	7191
Farmington SS			Graneros	-617	7241
Fruitland Formation	3972	2652	Dakota 1*	-648	7272
Lower Fruitland Coal	3615	3009	Dakota 2*	-689	7313
Pictured Cliffs SS	3592	3032	Dakota 3*	-747	7371
Lewis Shale	3423	3201	Dakota 4*	-783	7407
Chaera SS	2693	3931	Dakota 5*	-824	7448
Cliffhouse SS*	1891	4733	Dakota 6*	-881	. 7505
Menetee**	1863	4761	Burro Canyon	-924	7548
Point Lookout SS**	1371	5253	Morrison*	-958	7582
Mancos Shale	991	5633	TD	-1056	7680

^{*} Primary Objective

7. <u>COMPANY PERSONNEL:</u>

Name	Title	Office Phone	Home Phone
Justin Niederhofer	Drilling Engineer	505-333-3199	505-320-0158
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
John Klutsch	Project Geologist	817-885-2800	

JN 1/9/09

^{**} Secondary Objective

^{****} Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) *****

CHOKE MANIFOLD

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

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

TESTING PROCEDURE





