Form 3160-3 (April 2004) UNITED STATES	2008 FEB 16	ନ୍ମ	G 46 FORM AP OMB No. 1 Expires Man	PIST. 3 PROVED. 3 004-0137 ch 31, 2007
DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR	EIVEL	5. Lease Serial No. NMSF-078872A	
APPLICATION FOR PERMIT TO			6. If Indian, Allotee of	Tribe Name
la. Type of work:	ER		7 If Unit or CA Agreer	nent, Name and No.
Ib. Type of Well: Oil Well, Gas Well Other	Single Zone Multip	le Zone	8. Lease Name and We BOLACK 41	
2. Name of Operator XTO ENERGY INC			9. API Well No. 30-045-30398	32232
3a. Address 2700 FARMINGTON AVE., BLDG. K-1 FARMINGTON, NM 87401	3b. Phone No. (include area circle) (505) 324-1090		10. Field and Pool, or Ex BASIN DAKOT	
4. Location of Well (Report location clearly and in accordance with an At surface 1650' FSL & 1650' FEL At proposed prod. zone SAME	y Stale requirements.*)		11. Sec., T. R. M. or Blk	·
14. Distance in miles and direction from nearest town or post office* 13 AIR MILES SSW OF BLOOMFIELD			12. County or Parish SAN JUAN	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 990'	16. No. of acres in lease 2,401.76		g Unit dedicated to this we	11
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,967' (XTO's #4)	19. Proposed Depth 6,860'		BIA Bond No. on file NATIONWIDE 57 91	73
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,315' GL	22. Approximate date work will sta 08/01/2006	rt*	23. Estimated duration 4 WEEKS	
	24. Attachments			
 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). 	4. Bond to cover t Item 20 above). Lands, the 5. Operator certific	he operation cation specific info	is form: ns unless covered by an e ormation and/or plans as r	· ·
25. Signature	Name (Printed/Typed) BRIAN WOOD		I	Oate 02/11/2006
Title	PHONE: (505) 466-8120	FA	X: (505) 466-9682	/
Approved by (Signature) May Lee of	Name (Printed/Typed)			Date 2/22/07
Title Atom	Office	0	· · · · · · · · · · · · · · · · · · ·	
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those righ	nts in the sub	oject lease which would en	title 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 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)

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

1/1

NOTIFY AZTEC OCD 24 h S COMMINTIME TO WITNESS - CSTES This action is subject to technical and procedural review pursuant to 43 CFR 3195.3 and appeal pursuant to 43 CFR 3195.4





I'U BOK 1980, Ilobbe, NM #8241-[980 District II

District III

PO Drawer DD, Artesia, NM \$2211-0719

OIL CONSERVATION DIVISION

Energy, Minerals & Natural Resources Department

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies

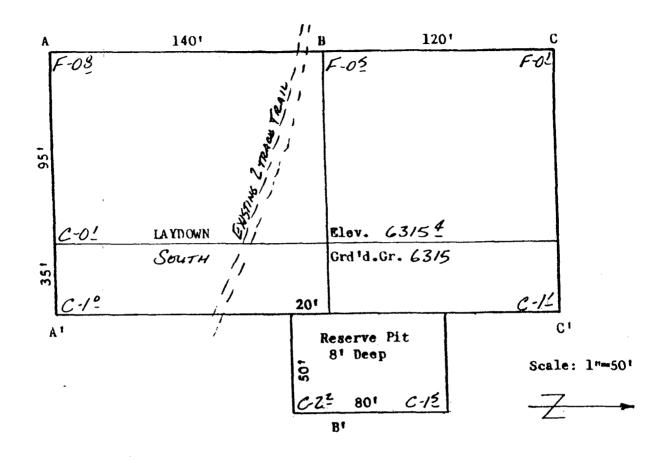
	ree Lease - 3 Copies
П	AMENDED PEROPE

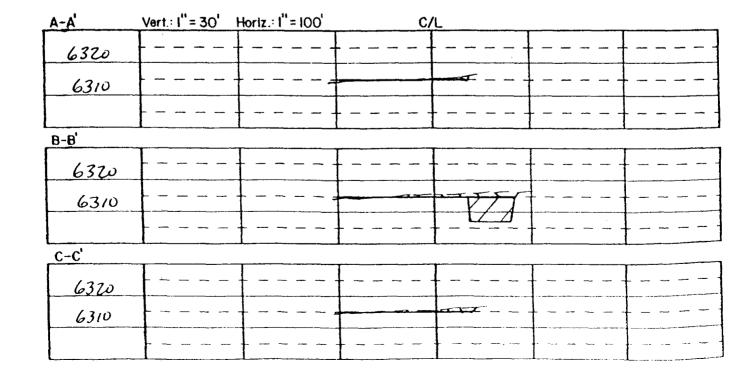
PO Box 2088 1000 Rio Brazos Rd., Aztoc, NM 87410 Santa Fe, NM 87504-2088 District IV PO Box 2088, Santa Fc, NM 87504-2088 WENDED KEPORT WELL LOCATION AND ACREAGE DEDICATION PLAT RCVD FEB23'07 OIL CONS. DIV. API Number BASIN DAKOLACH HM 71599 DIST. 3 30-045-32232 Property Code * Well Number Froperty Name 4R BOLACK · Elevetion 5380 167067 6315 XTO Energy Inc. ¹⁰ Surface Location Emt/West line Township North/South line Feet from the County UL or lot no. Section Runge Lot Ida Feet from the - 1650 · Fast 28 27 N . 1650 - South San Juan J 11 % " Bottom Hole Location If Different From Surface UL or lot no. Section Towaship Lot Ide Feet from the North/South line East/West line County Range 12 Dedicated Acres " Joint or Infill. 44 Consolidation Code " Order No. 32-0 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 ¹⁷ OPERATOR CERTIFICATION 16 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature BRIAN WOOD Printed Name CONSULTANT Tale 2-11-06 SEC. "SURVEYOR CERTIFICATION 23 I hereby certify that the well location shown on this plavas ploited from field notes of actual surveys made by under my supervision, and that the same is live rect to the best of my belled 15 30 p: 2000 1650 Date of Survey 424563 SO William & Hahnke II Certificate Number 80.03cm

Submit 3 Copies To Appropriate District Office	State of New Me		Form C-1	_
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		WELL API NO. 20 045 20209	.004
District II	OIL CONSERVATION	DIVISION	30-045- 30398	223
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.		5. Indicate Type of Lease	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8		STATE FEE 6. State-Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505			NMSF-078872A	
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPO	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT* (FORM C-101) F	UG BACK TO A	7. Lease Name or Unit Agreement Nam BOLACK 28	e
1. Type of Well: Oil Well	Gas Well X Other		8. Well Number 4 E	
2. Name of Operator XTO EN	NERGY INC.		9. OGRID Number 167067 5380	2
	RMINGTON AVE., BLDG. K-1 NGTON, NM 87401	,	10. Pool name or Wildcat BASIN DAKOTA	
4. Well Location				
			***	ne
Section 28	Township 27N R 11. Elevation (Show whether DE	ange 11W R RKB RT GR etc.	NMPM County SAN JUAN	
	6,315' GL			
Pit or Below-grade Tank Application	<u>or Closure </u>	watan wall > 5 000' Dia	> 20	0
Pit Liner Thickness: 12 mil				
	Appropriate Box to Indicate N			
	••		•	
NOTICE OF IT	NTENTION TO: PLUG AND ABANDON □	REMEDIAL WOR	SEQUENT REPORT OF: IK	П
TEMPORARILY ABANDON		1	ILLING OPNS. PANDA	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	T JOB	
OTHER: DRILLING PIT	[X]	OTHER:		П
13. Describe proposed or com			d give pertinent dates, including estimated	
of starting any proposed w or recompletion.	ork). SEE RULE 1103. For Multip	ple Completions: A	ttach wellbore diagram of proposed compl	etion
or recompled on.				
I hereby certify that the information grade tank has been/will be constructed a	n above is true and complete to the	best of my knowled	ge and belief. I further certify that any pit or b or an (attached) alternative OCD-approved plan	elow-
SIGNATURE / JUNEZ	TITLE_	CONSULTAN	ΓDATE_ <u>2-11-06</u>	_
Type or print name BRIAN W	OOD E-mail a	address: brian@pe	ermitswest.com Telephone No. (505)	20
For State Use Only		ut y cal & g as ins		2007
APPROVED BY: Conditions of Approval (if any):	TITLE		DATE	

1650 FSL & 1650 FRL Sec.28, T27N, R1LW, NMPM San Juan Co., NM





XTO Energy Inc.
Bolack 28 4 E
1650' FSL & 1650' FEL
Sec. 28, T. 27 N., R. 11 W.
San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Elevation
Nacimiento	000'	12'	+6,315'
Kirtland Shale	918'	930'	+5,397'
Fruitland Coal	1,379'	1,391'	+4,936'
Pictured Cliffs	1,915'	1,927'	+4,400'
Huerfanito Bentonite	2,329'	2,341'	+3,986'
Cliff House	3,455'	3,467'	+2,860'
Menefee	3,495'	3,507'	+2,820'
Point Lookout	4,342'	4,354'	+1,973'
Greenhorn	6,302'	6,314'	-13'
Graneros Shale	6,360'	6,372'	-45'
Dakota Sandstone	6,462'	6,472'	-147'
Total Depth (TD)	6,860'	6,872'	-545'

2. NOTABLE ZONES

Gas & Oil Zones	Water Zones	<u>Coal Zones</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Kirtland	Menefee
Cliff House	Fruitland	
Menefee		
Point Lookout		
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.



XTO Energy Inc.
Bolack 28 4 E
1650' FSL & 1650' FEL
Sec. 28, T. 27 N., R. 11 W.
San Juan County, New Mexico

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 2000 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 is $\approx 2,800$ psi. BOP and mud system will control pressure.

4. CASING & CEMENT

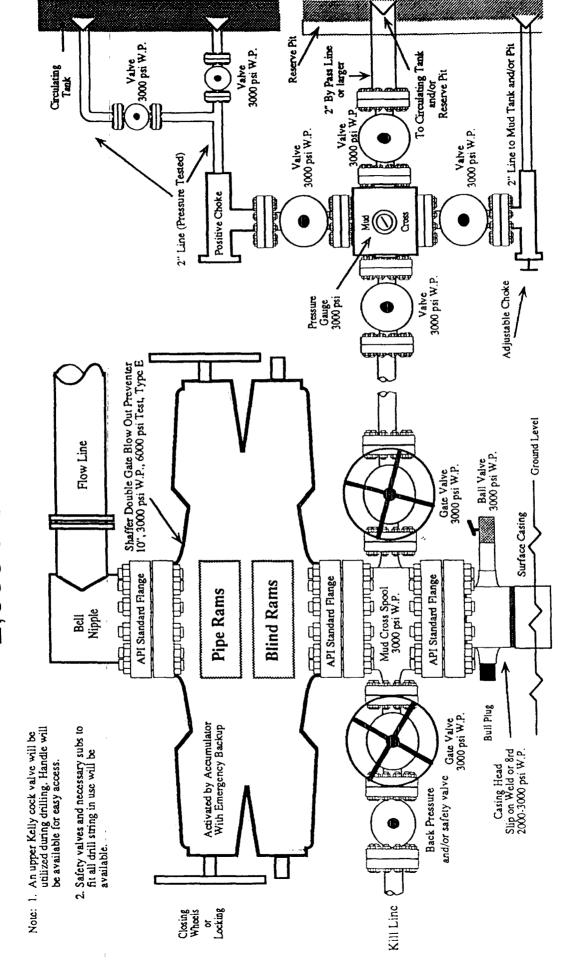
Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	Connections	GL Setting Depth
12-1/4"	8-5/8"	24	J-55	New	8rd, S T & C	325'
7-7/8"	4-1/2"	11.6	K-55	New	8rd, L T & C	6,860'

Surface casing will be cemented to surface with \approx 270 cubic feet (\approx 230 sacks) Class B Neat + 1/4 pound per sack cello-flake + 2% CaCl₂. Yield = 1.27 cubic feet per sack. Weight = 15.2 pounds per gallon.





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.

PAGE 4

\$20 \$20

San Juan County, New Mexico

Conventional centralizers will be set on the bottom two joints and every fourth joint to surface.

Production casing hole will be cemented to surface as follows. DV @ ≈4,000'.

First stage Lead will be cemented to \approx 4,000' with \approx 828 cubic feet (600 sacks) 50:50 Poz + 5 pounds per sack gilsonite + 2% gel + 1/4 pounds per sack cello-flake, dispersant, and FLA. Yield = 1.38 cubic feet per sack. Weight = 13.5 pounds per gallon. Excess = 25%.

Second stage Lead will be cemented to the surface with $\approx 1,440$ cubic feet (500 sacks) Class B or H + 10 pounds per sack gilsonite + 4% gel + 1/2 pounds per sack cello-flake + 3% Econolite. Yield = 2.88 cubic feet per sack. Weight = 11.4 pounds per gallon. Excess = 50%

Second stage Tail will be cemented to $\approx 3,600$ ' with ≈ 126 cubic feet (100 sacks) Class B or H Neat + 1/4 pounds per sack cello-flake + 2% CaCl2. Yield = 1.26 cubic feet per sack. Weight = 15.2 pounds per gallon. Excess = 10%.

Production casing may be cemented with an alternative foam cement.

First stage Lead will be cemented to 200' with $\approx 1,320$ cubic feet (1,740 cubic feet when foamed) or 1,000 sacks 50:50 Poz + 2% gel + 2% Diacel LWL 0.094 gallons per sack foaming agent. Yield = 1.32 cubic feet per sack (1.74 when foamed). Weight = 13.8 pounds per gallon (10.5 when foamed). Excess = 15%.

First stage Tail will be cemented to $\approx 6,000$ ' with ≈ 146 cubic feet (116 sacks) Class B or H Neat + 1/4 pounds per sack cello-flake + 2% CaCl2. Yield = 1.26 cubic feet per sack. Weight = 15.2 pounds per gallon.

Cap will be cemented to surface with ≈ 75 cubic feet (60 sacks) Class B or H with 2% CaCl₂.





XTO Energy Inc.
Bolack 28 4 E
1650' FSL & 1650' FEL
Sec. 28, T. 27 N., R. 11 W.
San Juan County, New Mexico

Conventional centralizers will be set on the bottom two joints, every second joint to $\approx 6,100$ and every fourth joint from $\approx 2,000$ to surface.

5. MUD PROGRAM

<u>RANGE</u>	MUD TYPE	<u>WEIGHT</u>	<u>VISCOSITY</u>	WATER LOSS	<u>ADDITIVES</u>
0' - 350'	Fresh-Spud	8.5-8.8	30	NC	Gel, lime
350' - 4,000'	Fresh Water	8.5-8.8	28	NC	Gel, lime sweeps
4,000' - TD	Fresh Water	8.5-8.8	35	10 cc	Gel, soda ash, LCM

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. Induction logs will be run from TD to $\approx 3,000$ '. Neutron density - GR logs will be run from TD to base of surface casing.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum pressure will be $\approx 2,800$ psi.

8. OTHER INFORMATION

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

