Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0136

2 weeks

Expires November 30, 2000

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APPLICATION FOR PERMIT TO	6. If Indian, Allottee or T	ribe Name		
1a. Type of Work: DRILL REEN	7. If Unit or CA Agreement N/A	nt, Name and No.		
1b. Type of Well: Oil Well Gas Well Other	070 PE	ıltiple Zone	8. Lease Name and Well N Bolack 16 #3	ło.
2. Name of Operator XTO Energy In	c.		9. API Well No. 30-045-	068
3a. Address 2700 Farmington Ave., Bldg. K Farmington, NM 87401	(-1 3b. Phone No. (include area code (505) 324-1090	· •	10. Field and Pool, or Explo Basin Fruitland C	•
4. Location of Well (Report location clearly and in accordance v	vith any State requirements.*)		11. Sec., T., R., M., or Blk.	and Survey or Area
At surface 660' FSL & 660' FEL At proposed prod. zone Same			₱16-27n-11w N	MPM
14. Distance in miles and direction from nearest town or post office 10 air miles S of Bloomfield, New M			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) 933'	16. No. of Acres in lease 2,401.76		g Unit dedicated to this well 320 acres)	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,043'*	19. Proposed Depth.	1	BIA Bond No. on file 1 nation wide: 57	91 73
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	23. Estimated duration			

24. Attachments

Upon Approval

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.

6,304' ungraded

2. A Drilling Plan.

operations thereon.

Conditions of approval, if any, are attached.

- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

Comments

*XTO's Bolack 14 which is in NESE Sec. 16 and is a PC well.

DRILLING OPERATIONS AUTHORIZED ARE

This nation is	s subject to technical and	"GENERAL REQUES	EMENTS",		
For a series of the series of	- 10 1 13 13 13 13 14 C 1 1 O 1 U O 1) A		cc: BLM (& OCD), N	API, Patton, Tribe
25. Signature	1 Smile	Tack	Name (Printed/Typed)	Brian Wood	Date 12-8-03
Title	Consultant	Phone: 505	466-8120	FAX: 505 466-9682	
Approved by for	ignature)	S	Name (Printed/Typed)	Townsend	Date 8/29/05
Title	Acting AFM	,	Office FFO		
Application appr	roval does not warrant or certify t	he the applicant holds lega	al or equitable title to those righ	hts in the subject lease which would en	title the applicant to conduct

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.

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

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

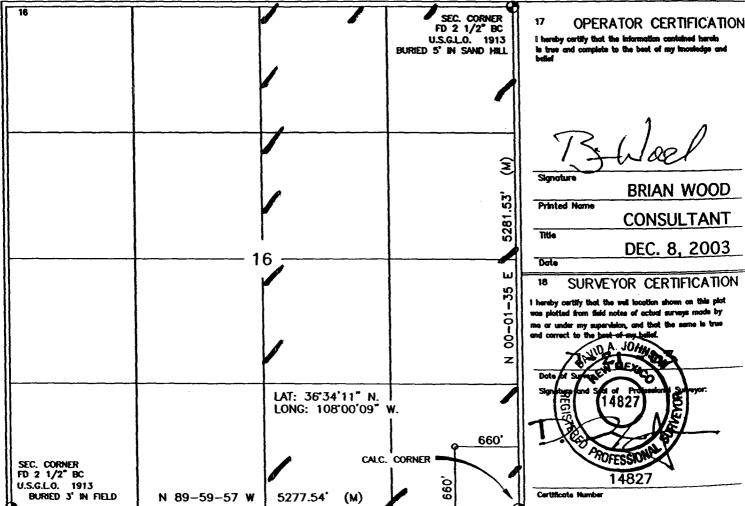
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

☐ AMENDED REPORT

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

16						SEC. COR FD 2 1/2" U.S.G.L.O. BURIED 5" IN SAND	BC hereby c	OPERATOR (ortily that the information of the best of	
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320		MIL DC A	CCICNE	D TO TU	IC COMPLETE	ON UNITH ALL	INTERESTS I	IANC DEEN (CONSOLIDATED
¹² Dedicated Acres			¹³ Joint or b	nfill	** Consolidation Co	ode	¹⁶ Order No.	,	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South fine	Feet from the	East/West line	County
						f Different Fro			
Р.	16	27-N	11-W		66Ó	,south	66Q	, EAST.	ŞAN JUAN
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
					10 Surface	Location			
167	067			•	XTO ENERG	r INC.			6304'
OGRID No.	007			·	*Operator N	Orne			Elevation
303	2			•	BOLACK	16 • .			3
⁴ Property Cod	Awa Mark					Hell Humber			
30-04	5-3	2068	716		1 1	BASIN FRUIT	LAND COA	L	
¹ API Number ² Pool Code ³ Pool Name									
		W	ELL LU	JCA HUI	N AND ACI	REAGE DEDIC	JAHUN PLA	Al	

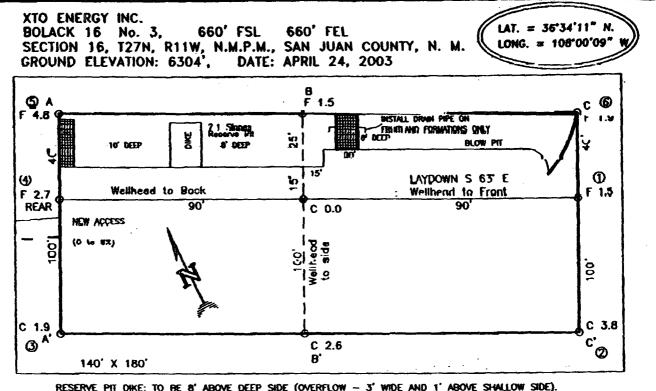


Surveying and Oil Field Services
O. Box 1956 Faraington, NM 87401
e. (505) 356-1772 = ax (505) 326-6019

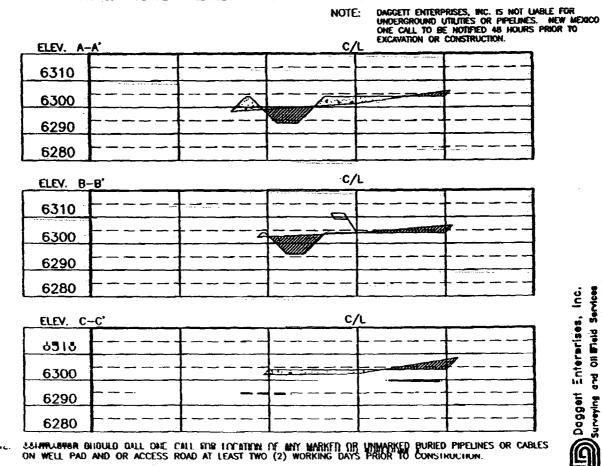
0. Box (505)

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Program



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.



CADFILE: CR188CF8

DRAWN BY: B.L..

ROW#: CR188

DATE: 07/10/03

(August 1999)

FORM APPROVED Form 3160-5 UNITED STATES 1004-0135 OMB No. 1004-0135 Expires November 30, 2000 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 5. Lease Serial No. NMSF-078872A SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter and. If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposals. N/A7. If Unit or CA/Agreement, Name an SUBMIT IN TRIPLICATE - Other instructions on reverse si N/A1. Type of Well 8. Well Name and No. Oil Well Gas Well Other BOLACK 16 #3 2. Name of Operator XTO ENERGY, INC. 9. API Well No. 30-045- 32068 #3b. Phone No(include area code) 3a.Addres2700 FARMINGTON AVE., BLDG. K, 10.Field and Pool, or Exploratory (505) 324-1090 FARMINGTON, NM 87401 BASIN FRUITLAND COAL 4. Location of Wellobtage, Sec., T., R., M., or Survey Description) 11.County or Parish, State FSL & 660 FEL SEC. 16, T. 27 N., R. 11 SURFACE: 660 SAN JUAN COUNTY, NM BHL: SAME CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION ☐ Production (Start/Resu☐) Water Shut-Off Deepen Acidize ☑ Notice of Intent ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity Alter Casing ☐ New Construction☐ Recomplete Other Casing Repair ☐ Subsequent Report ☐ Plug and Abandon☐ Temporarily Abandon ☑ Change Plans ☐ Final Abandonment Notic☐ Convert to Injecti☐ Plug Back ■ Water Disposal 13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required following completion of the involved operations. If the operation results in a multiple completion or recompletion testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including results in the control of the control o determined that the site is ready for final inspection.) Will change TD from 2,000 to 2,200. Setting depth of production casing will become 2,200 Lead cement of production casing will change from 175 sacks to 195 sacks. No change in tail cement of production casing. Total production casing cement = 457 cubic feet (>100% excess)

cc: BLM (& OCD)Z NAPI. 14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) CONSULTANT (505) 466-8120 BRIAN WOOD Title 12/26/03 Signature Date THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by w Conditions of approval, if any, are attached. certify that the applicant holds legal or equi

Approval of this notice does not warrant or

applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

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

PAGE 1

XTO Energy Inc.
Bolack 16 #3
660' FSL & 660' FEL
Sec. 16, T. 27 N., R. 11 W.
San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Sub sea Elevati
Nacimiento Fm	000'	5'	+6,304'
Ojo Alamo Ss	854'	859'	+5,450'
Kirtland Shale	979'	984'	+5,325'
Fruitland Coal	1,794'	1,799'	+4,510'
Pictured Cliffs Ss	1,999'	2,004'	+4,305'
Total Depth (TD)*	2,000'	2,005'	+4,304'

^{*} all elevations reflect the ungraded ground level of 6,304'

2. NOTABLE ZONES

Gas & Oil Zones	Water Zones	Coal Zone
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Ojo Alamo	
	Fruitland	

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 system to be used is not yet known. A typical 2,000 psi stack, manifold, and testing procedures are on Page 3.



XTO Energy Inc.
Bolack 16 #3
660' FSL & 660' FEL
Sec. 16, T. 27 N., R. 11 W.
San Juan County, New Mexico

4. CASING & CEMENT

Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Age</u>	<u>Connection</u>	GL Setting Depth
8-3/4"	7"	20	K-55	New	ST&C	160'
6-1/4"	4-1/2"	10.5	K-55	New	ST&C	2,000'

Surface casing will be cemented to the surface with ≈ 50 cubic feet (≈ 43 sacks) Class B + 1/4 lb/sk cello-flake + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume: \geq 100% excess. A guide shoe and insert float will be used. W. O. C. =12 hours. Surface casing will be tested to 1,500 psi for 30 minutes.

Production casing will be cemented to the surface. Total cement: \geq 417 cubic feet. Volumes are calculated at >100% excess. If cement does not circulate to surface, then a temperature survey will be run to determine the actual cement top as needed. W. O. C. = 12 hours. Test to 2,000 psi.

Lead cement will be ≈ 175 sacks Class B light cement (65% cement/35% Poz with 6% gel) with 5 #/sack gilsonite + 1/4 #/sack Flocele. Yield = 1.99 cu ft/sk. Weight = 12.4 #/gal.

Tail cement will be ≈50 sacks 50/50 Class B Poz with 2% gel + 1/4#/sack Flocele + 0.5% Halad-9. Yield = 1.38 cubic feet/sack. Weight = 13.5 #/gallon.

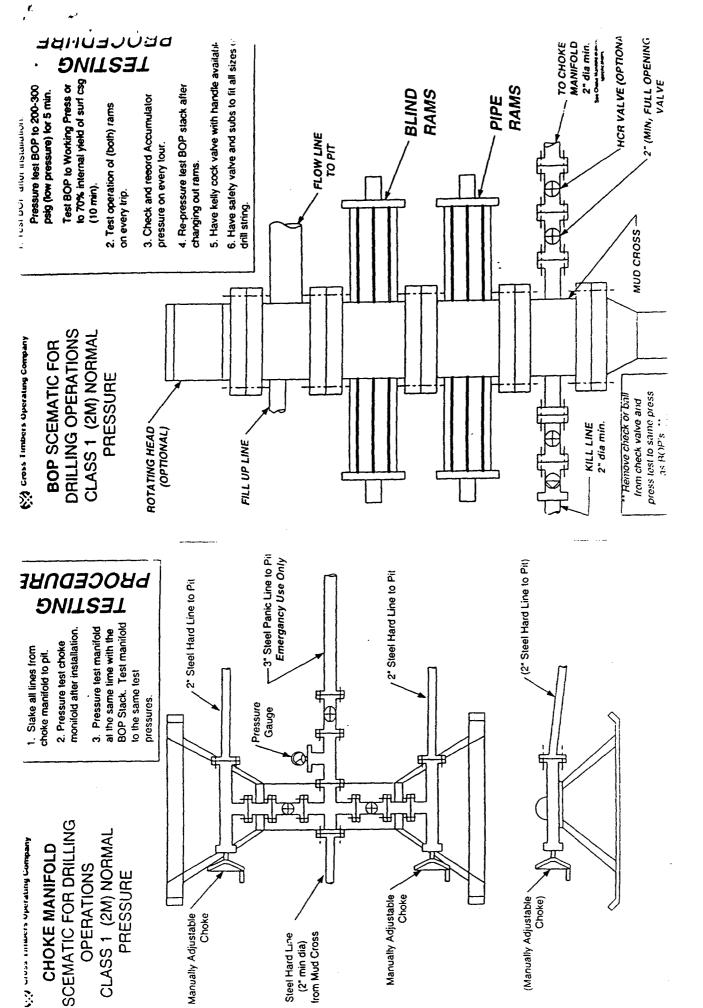
Cement equipment will include a guide shoe, float collar, and 10 centralizers.

5. MUD PROGRAM

RANGE	MUD TYPE	WEIGHT
0' - 160'	Fresh-Spud	8.4
160' - TD	LSND	8.6

Lost circulation and absorption material will be on location.





from Mud Cross Steel Hard Line (2° min dia)