DIST. 3

Form 3160-3 (April 2004)

SEP 29 2009

FORM APPROVED OMB No 1004-0137 Expires March 31, 2007

DEPARTMENT		
BUREAU OF L	AND MA	NAGEMENT

UNITED STATES

Lease Serial No.

BUREAU OF LAND, MAN		-	TRETT.	ന്ന⊚ണ്ലീNOG 05031735			
APPLICATION FOR PERMIT TO	•	ENTER	haman or the	MAVAJO ALL			
la. Type of work. DRILL REENT	ER			7 If Unit or CA Agree PENDING	KNM-123	NMNM-/23	
lb. Type of Well: Onl Well Gas Well Other	Single Z	Cone Multip	ole Zone	8 Lease Name and W ARBOR #2	/ell No.		
2. Name of Operator XTO Energy Inc.				9. API Well No. 30-045- 35	73/		
3a. Address 382 CR 3100	3b. Phone No. (inch	ude area code)		10. Field and Pool, or E			
Aztec, NM 87410	505/ 333-31	.00		BASIN DK/BA	SIN MC		
4. Location of Well (Report location clearly and in accordance with an	ny State requirements.*)	3		11. Sec., T. R M. or Bil	k and Survey or Are	a	
At surface 920' FSL x 908' FEL At proposed prod zone SAME				(P) Sec 26, T25	N, R10W		
14 Distance in miles and direction from nearest town or post office* 24 miles SE of Bloomfield P.O.				12. County or Parish SAN JUAN	13 State	i M	
15 Distance from proposed* location to nearest property or lease line, ft	16. No. of acres in						
(Also to nearest drig unit line, if any) 908'	160		DK:	S/2 320, MC: S/2 320			
18 Distance from proposed location* to nearest well, drilling, completed,	19 Proposed Dept	h	ĺ	BIA Bond No. on file			
applied for, on this lease, ft. 751'	6650'		BIA1	04312789			
21. Elevations (Show whether DF, KDB, RT, GL, etc) 6685' Ground Elevation	22. Approximate o	late work will star /01/2010	rt*	23. Estimated duration 2 Weeks			
The action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4. The following, completed in accordance with the requirements of Onsho	24. Attachme		ttached to th	 SUBJECT TO 	PERATIONS AUTH COMPLIANCE W REQUIREMENTS".	ATH A TTACHED	
 Well plat certified by a registered surveyor. A Drilling Plan. 	4	Bond to cover the Item 20 above).	he operatio	ns unless covered by an e	existing bond on file	e (see	
3 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the 5	Operator certific Such other site authorized office	specific info	ormation and/or plans as i	may be required by	the	
25. Signature	Name (Prin	ted/Typed) JIA VILLERS			Date 09/25/2009		
Title PERMITTING TECH.	11						
Approved by Transfull Capille 1500	Name (Prin	ted/Typed)			Date 2/23/3	2010	
Title AFM	Office	, EO					
Application approval does not warrant or certify that the applicant hold	ds legal or equitable	title to those righ	ts in the sub	ject lease which would en	title the applicant to)	

*(Instructions on page 2)

conduct operations thereon.

Conditions of approval, if any, are attached.

NOTIFY AZTEC OCD 24 HRS.

SEE ATTACHED FOR **CONDITIONS OF APPROVAL**

& NWOCD

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

PRIOR TO CASING & CEMENTLM'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

MAR 0 3 2010

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 1301 W. Grand Avenue, Artesia, N.M. 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

OIL CONSERVATION DIVISION State Lease - 4 Conice 1220 South St. Francis Dr.

State Lease - 4 Copies

SEP 29 2009

Fee Lease - 3 Copies

1000 Rio Brazos	Rd., Aztec	, N.M. 87410			Santa Fe	e, N.M.	87505	SI	EP 29 200)9 r	ee re	ease - 5 copies
DISTRICT IV 1220 S. St. Fran	cis Dr., Sa	ınta Fe. N.M. (87505					Q1	m # 0 50		A 3 6 TO	NIDED DEDAD
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		<u>L.</u>					ocation			L		
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Form,3150-5 (August 2007)

Approved by

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

OMB NO 1004-0137 Expires July 31, 2010

l No

FORM APPROVED

IV	Z	đ	2010		Э.	Lease	Senai	1
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SUNDRY NOTICES AND REPORTS ON WELLS NOG 05031735 Do not use this form for proposals to drill or to re-enterpahof Land Managernet 6 If Indian, Allottee or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposation Field Office NAVAJO ALLOTMENT 7. If Unit or CA/Agreement, Name and/or No SUBMIT IN TRIPLICATE - Other instructions on page 2 NMN14-123828-DK **PENDING** NMNM-123827DK Type of Well 8 Well Name and No. Oil Well X Gas Well Other ARBOR #2 Name of Operator XTO Energy Inc. 9 API Well No. 3a Address 3b Phone No (include area code) 30-045- 35ムろ 382 CR 3100 Aztec, NM 87410 505/333-3100 10 Field and Pool, or Exploratory Area 4 Location of Well (Footage, Sec., T., R., M., or Survey Description) BASIN DK/BASIN MC 920' FSL X 908' FEL SEC. 26 (P), T25N, R10W 11. County or Parish, State SAN JUAN NM CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12. TYPE OF SUBMISSION TYPE OF ACTION Water Shut-Off X Notice of Intent Acidize Deepen Production (Start/Resume) Alter Casing Fracture Treat Reclamation Well Integrity Subsequent Report Other REVISED New Construction Casing Repair Recomplete Plug and Abandon Change Plans Temporarily Abandon SURFACE USE PLAN I mai Abandonment Notice Plug Back Water Disposal Convert to Injection 13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection) Please see revised Surface Use Plan. RCVD FEB 24'10 OIL CONS. DIV. DIST. 3 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Title PERMITTING TECH. Date 1/26/2010 PI THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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

leellow

Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that

the applicant holds legal or equitable title to those rights in the subject lease w

entitle the applicant to conduct operations thereon

Title

Office



Type of We

3a Address

2 Name of Operator **XTO ENERGY INC.**

382 CR 3100, AZTEC, NM 87410

TYPE OF SUBMISSION

Final Abandonment Notice

..... Notice of Intent

Subsequent Report

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Convert to Injection

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

920' FSL x 908' FEL Sec 26 (P) T25N-R10W

UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MANA SUNDRY NOTICES AND REP Do not use this form for proposals to abandoned well. Use Form 3160-3 (A	INTERIOR AGEMENT PORTS ON WEL O drill or to re-er	LS-4-21 (2012) ntërran ngjan Rit	
SUBMIT IN TRIPLICATE- Other instru	uctions on revers	se side.	7. If Unit or CA/Agreement, Name and/or No
Operator XTO ENERGY INC.			NMAM
100, AZTEC, NM 87410 of Well (Footage, Sec., T., R., M., or Survey Description)	3b Phone No (include of 505/333-3100	area code)	30-045- 350 3/ 10 Field and Pool, or Exploratory Area BASIN DK/BASIN MC
x 908' FEL Sec 26 (P) T25N-R10W			11. County or Parish, State SAN JUAN NM
12. CHECK APPROPRIATE BOX(ES) TO	INDICATE NATURE	E OF NOTICE, RI	EPORT, OR OTHER DATA
OF SUBMISSION '	TYPI	E OF ACTION	
Acidize C of Intent Quent Report Alter Casing Casing Repair Change Plans Abandonment Notice Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plue Back	Production (Star Reclamation Recomplete Temporarily Abs	Well Integrity Other ADDITIONAL

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Water Disposal

Plug Back

XTO Energy Inc. is requesting additional oil & gas action to access the portion of the pipeline that crosses Federal Lease NMNM120923, for the

See attached plats.

RCVD FEB 24'10 OIL CONS. DIV. DIST. 3

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)	1
MALIA VILLERS ,	Title PERMITTING TECH.
Signature Malia Villes	Date 09/29/2009
THIS SPACE FOR FEDERAL	L OR STATE OFFICE USE
Approved by DM ankea close	Title AIM Date 2/23/20X0
Conditions of approval, if any, are attached Approval of this notice does not warracerufy that the applicant holds legal or equitable title to those rights in the subject 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 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)

XTO ENERGY INC.

Arbor #2 APD Data September 24, 2009

Location: 920' FSL x 908' FEL Sec 26, T25N, R10W County: San Juan State: New Mexico

GREATEST PROJECTED TD: 6650'

OBJECTIVE: Basin Dakota / Basin Mancos

Est KB ELEV: <u>6697' (12' AGL)</u>

1. MUD PROGRAM:

APPROX GR ELEV: 6685'

INTERVAL	0' to 360'	360' to 2500'	2500' to 6650'
HOLE SIZE	12.25"	7.875"	7.875"
MUD TYPE	FW/Spud Mud	FW/Polymer	LSND / Gel Chemical
WEIGHT	8.6-9.0	8.4-8.8	8.6- 9.20
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: 8.625" casing to be set at \pm 360' in a 12-1/4" hole filled with 9.20 ppg mud

										A .A		
					Coll	Burst		1				
					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	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 (±6650') in 7.875" hole filled with 9.20 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'-6650	6650'	15.5#	J-55	ST&C	4040	4810	202	4.950	4.825	1.27	1.51	1.96

Remarks: All Casing strings will be centralized in accordance with Onshore Order #2 and NTL FRA-90-1.

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 (Slurry 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 casing 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 ± 6650 ' in 7.875" hole. DV Tool set @ ± 4125 '

1st Stage

LEAD:

±190 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:

150 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:

±343 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 1623 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 (6650') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (6650') to 3,000'.

6. FORMATION TOPS:

Est. KB Elevation: 6697'

FORMATION	Sub-Sea	MD	FORMATION	TV Sub-Sea	MD
Ojo Alamo SS	5859	838	Gallup	1682	5015
Kirtland Shale	5746	951	Greenhorn	595	6102
Farmington SS			Graneros	637	6060
Fruitland Formation	5458	1239	Dakota 1*	494	6203
Lower Fruitland Coal	5012	1685	Dakota 2*	457	6240
Pictured Cliffs SS	4996	1701	Dakota 3*	422	6275
Lewis Shale	4761	1936	Dakota 4*	351	6346
Chacra SS	4194	2503	Dakota 5*	322	6375
Cliffhouse SS*	3500	3197	Dakota 6*	290	6407
Menefee**	3452	3245	Burro Canyon	261	6436
Point Lookout SS*	2518	4179	Morrison*	219	6478
Mancos Shale	2306	4391	TD	47	6650

7. **COMPANY PERSONNEL**:

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	

JDN 9/24/09

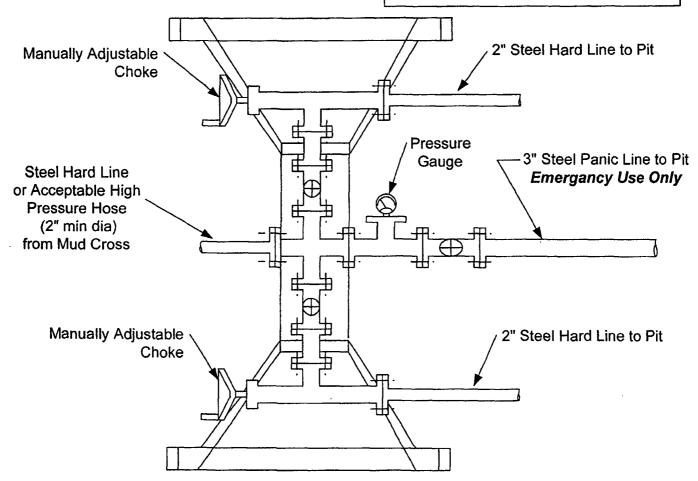
^{*} Primary Objective ** Secondary Objective

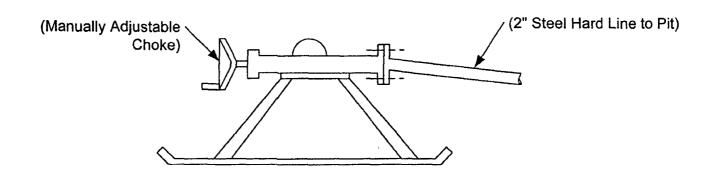
^{****} Maximum anticipated BHP should be <2,000 psig (<0.30 psi/ft) *****

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





AWS 507

