

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions
listed below are made in accordance with OCD Rule 19.15.7.11
and are in addition to the actions approved by BLM on the
following 3160-4 or 3160-5 form.

Operator Signature Date: 9/19/14

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E	Feet	NS	Ft	EW
30-045-21499-00-00	CANYON	012	XTO ENERGY, INC	G	A	San Juan	I	A	13	25	N	11	W	1000	N	1060	E

Application Type:

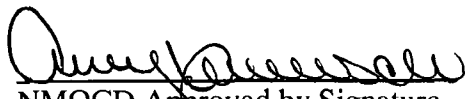
- ☐ P&A ☐ Drilling/Casing Change ☐ Location Change
- ☐ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
- ☒ Other: RC Mancos/deepen PBTD/PWOP/DHC

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations, casing & cement

See APD Conditions of approval regarding Hydraulic Fracturing, Oil base muds and Well-bore communication.

File C104 and completion report for Basin Mancos before returning to production.


NMOCD Approved by Signature

11-7-14
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. DIV DIST. 3

OCT 22 2014

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO Energy Inc.

3a. Address

382 CR 3100, AZTEC, NM 87410

3b. Phone No. (include area code)

(505) 333-3630

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

1000' FNL & 1060' FEL NENE SEC.13 (A) -T25N-R11W N.M.P.M.

5. Lease Serial No.

NOOC14203616

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA/Agreement, Name and/or No.

SWI4282

8. Well Name and No.

CANYON #12

9. API Well No.

30-045-21499

10. Field and Pool, or Exploratory Area

BASIN DAKOTA

11. County or Parish, State

SAN JUAN

NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input checked="" type="checkbox"/> Recomplete | <input checked="" type="checkbox"/> Other <u>RC BASIN MC</u> |
| <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | <u>DEEPEN PBTD, PWOP</u> |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | <u>& DHC</u> |

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 recompleate 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 recompleation 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.)

XTO Energy Inc. proposes to Recomplete this well to the Basin Mancos formation, deepen the PBTD & PWOP per the following:

MIRU PU. MIRU WLJ. Perforate Mancos fr/5,049' - 5,211' with a 3-1/8" expendable csg gun (0.36" dia., 30 holes). RIH 5-1/2" packer. Set packer @ +/-4,700'. RDMO PU. Acidize Mancos perms w/1,000 gals of 15% NEFE HCl acid. Frac Mancos perms fr/5,049' - 5,211' with 131,280 gals foam carrying 175,000# 20/40 Brady sand & 25,000# 20/40 RCS. Release Pkr & TOH. Drill out CIBP at 5,350', CO to PBTD @ 6,128'. Continue drillout FC and shoe joint to +/-6,160' (new PBTD). Circ wellbore clean. TIH with 2-3/8" tubing to land EOT at +/-6,130'. TIH w/rods & pmp. RDMO.

Please see the attached WED, formation tops & Mancos C102 Plat.

An application to DHC will be submitted separately. XTO Energy Inc. will obtain the DHC order before commingling.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

SHERRY J. MORROW

Title REGULATORY ANALYST

Signature

Date 9/19/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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 which would entitle the applicant to conduct operations thereon.

Office

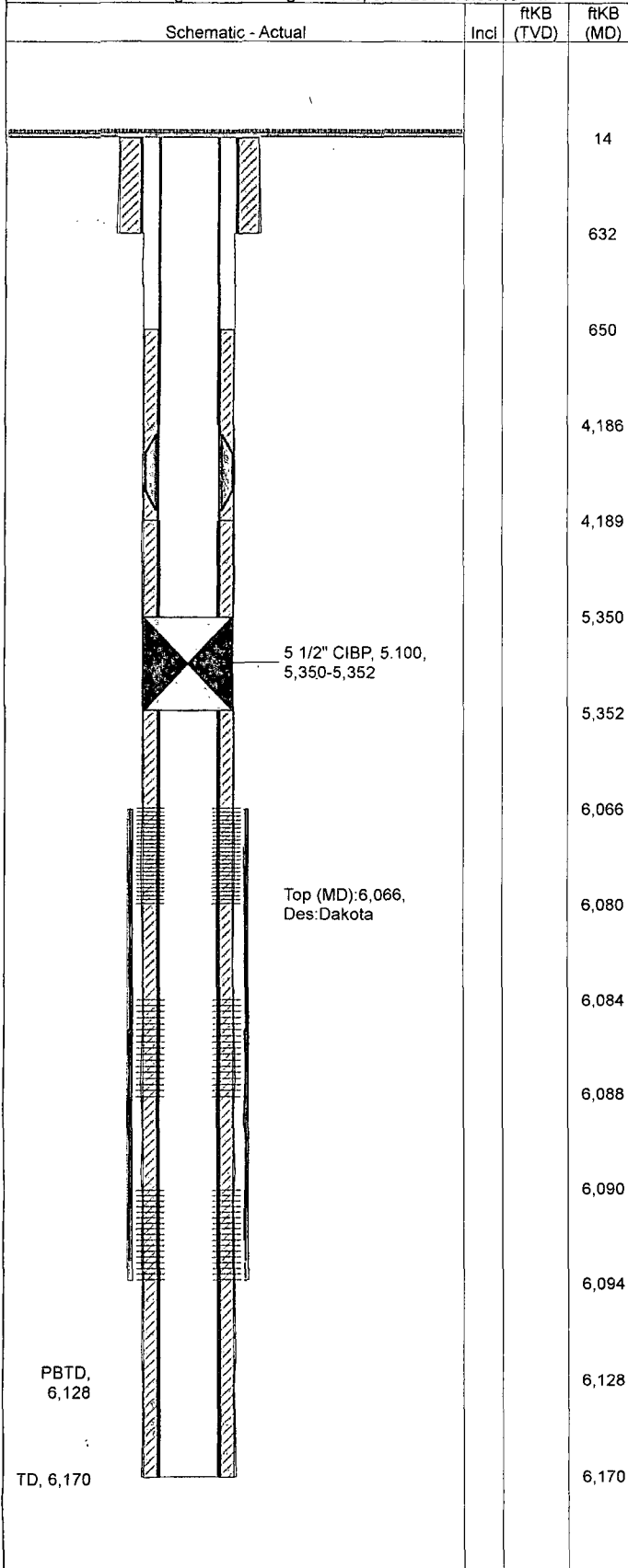


XTO - Wellbore Diagram

Well Name: Canyon 12

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
30045214990000	1,060.0	FEL	1,000.0	FNL	T25N-R11W-S13	Basin Dakota	San Juan	New Mexico
Well Configuration Type	XTO ID B	Orig KB Elev (ft)	Gr Elev (ft)	KB-Grd (ft)	Spud Date	PBTD (All) (ftKB)	Total Depth (ftKB)	Method Of Production
Vertical	70131	6,503.00	6,489.00	14.00	7/19/1974	Original Hole - 6128.0	6,170.0	Plunger Lift

Well Config: Vertical - Original Hole, 9/17/2014 10:53:49 AM



Zones

Zone	Top (ftKB)	Btm (ftKB)
Dakota	6,066.0	6,094.0

Casing Strings

Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK..
Surface	8 5/8	24.00	K-55		632.0
Casing Description	OD (in)	Wt (lbs/ft)	String Grade	Top Connection	Set Depth (ftK..
Production	5 1/2	15.50	K-55		6,170.0
Item Description	OD (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Bottom (ftKB)
DV Tool	5 1/2			4,186.0	4,189.0

Cement

Description	Type	String
Surface Casing Cement	casing	Surface, 632.0ftKB
Comment		
Cmt'd w/325 sx CL A Cmt w/2% CaCl2. Circ Cmt to Surf.		
Description	Type	String
Production Casing Cement	casing	Production, 6,170.0ftKB
Comment		
Cmt'd w/650 sx CL A Lo Dense Cmt f/b 150 sx CL A Neat in two stgs. TOC 650' by TS.		

Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Hole Diameter (in)	Phasing (°)	Curr... Status	Zone
8/23/1974	6,066.0	6,080.0	2.0				Dakota
8/23/1974	6,084.0	6,088.0	2.0				Dakota
8/23/1974	6,090.0	6,094.0	2.0				Dakota

Stimulations & Treatments

Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)
8/23/1974	6066	6094		60,000.0	17	450.0		2,400.0
Comment								
Frac DK w/49,518 Gals Pillar Frac & 50,000# 20/40 SD & 10,000# 10/20 SD @ 17 BPM & ATP 4,500 PSIG. ISIP 2,400 PSIG. 15" SIP 2,200 PSIG.								

OIL CONS. DIV DIST. 3

OCT 22 2014

Formation Tops

Canyon #12

Fruitland	991'
Pictured Cliffs	1494'
Lewis Shale	1701'
Cliffhouse	3007'
Menefee	3042'
Point Lookout	3991'
Mancos	4181'
Upper Gallup	4855'
Middle Gallup	5192'
Sanastee	5551'
Greenhorn	5902'
Graneros	5956'
Dakota	5995'

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

SEP 19 2014

Form C-102
Revised October 19, 2009
Submit one copy to appropriate
District Office

Farmington Field Office
Bureau of Land Management
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-21499	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 22669	⁵ Property Name CANYON	⁶ Well Number #12
⁷ OGRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6494'

¹⁰ Surface Location

UL or lot no. A	Section 13	Township 25N	Range 11W	Lot Idn	Feet from the 1000'	North/South line NORTH	Feet from the 1060'	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. SAME	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres MC: 320 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	OIL CONS. DIV DIST. 3
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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

				<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true & complete to the best of my knowledge & 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 division.</p> <p><i>Sherry J. Morrow</i> Signature</p> <p>Sherry J. Morrow Printed Name</p> <p>SHERRY J. MORROW Title</p> <p>REGULATORY ANALYST Title</p> <p>Date 9/19/2014</p>
				<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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 & correct to the best of my belief.</p> <p>6/23/1984 Date of Survey</p> <p>Original Survey Signed By: John A. Vukonich</p> <p>14831 Certificate Number</p>

BLM CONDITIONS OF APPROVAL

CASING REPAIR, WORKOVER AND RECOMPLETION OPERATIONS:

- 1. If casing repair operations are needed, obtain prior approval from this office before commencing repairs. If a CBL or other logs are run, provide this office with a copy.**
- 2. After any casing repair operations, test cement squeeze to a minimum of 500# for 30 minutes with no more than 10 % pressure fall off in the 30 minute test period. Provide test chart with your subsequent report of operations**
- 3. A properly functioning BOP and related equipment must be installed prior to commencing workover, casing repair, and/or recompletion operations.**
- 4. Contact this office at (505) 564-7750 prior to conducting any cementing operations: Please contact Jim Lovato @ (505) 320-7378 if casing leaks are identified and a plan of repair is established.**

SPECIAL STIPULATIONS:

- 1. Pits will be fenced during work-over operation.**
- 2. All disturbance will be kept on existing pad.**
- 3. All pits will be pulled and closed immediately upon completion of the recompletion and work-over activities.**
- 4. Pits will be lined with an impervious material at least 12 mils thick.**