

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

SUNDRY NOTICES AND REPORTS ON WELLS

JUL 25 2008

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

Lease Serial No

JIC-154

6 If Indian, Allottee or Tribe Name

JICARILLA APACHE TRIBE

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

8 Well Name and No

JICARILLA APACHE # 16E

9. API Well No

30-039-22434

10. Field and Pool, or Exploratory Area

BASIN DAKOTA/

BLANCO MESAVERDE

11. County or Parish, State

RIO ARriba NM

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)

505-333-3100

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

825' FNL & 955' FEL NENE Sec.34 (A) -T26N-R5W

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

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☒ Recomplete ☐ Other
☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon
☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

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 recompleat 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 recompleat 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 OAP in the Blanco Mesaverde and recompleat to the ~~Basin~~ Basin Mancos & the Otero Chacra pools of this well per the attached procedure & C102s.

RCVD JUL 28 '08

OIL CONS. DIV.

DIST. 3

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

DOLENA JOHNSON

Title REGULATORY CLERK

Signature

Date 07/24/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JUL 28 2008

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

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.

NMOC

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
Fee Lease - 3 Copies
State Lease - 4 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-22434	² Pool Code 82329	³ Pool Name OTERO CHACRA
⁴ Property Code 30320	⁵ Property Name JICARILLA APACHE	
⁷ OGRID No. 5380	⁸ Operator Name XTO Energy, Inc.	⁶ Well Number #16E
		⁹ Elevation 6650'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	26N	5W		825	NORTH	955	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres CH: 160 acres	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.					

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>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</i></p> <p><i>Dolena C Johnson</i></p> <p>Signature</p> <p>Dolena Johnson</p> <p>Printed Name</p> <p>Regulatory Clerk</p> <p>Title</p> <p>07/24/2008</p> <p>Date</p>	
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p><i>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</i></p> <p>6/23/1984</p> <p>Date of Survey</p> <p>Original Survey Signed By:</p> <p>John A. Vukonich</p> <p>14831</p> <p>Certificate Number</p>	

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-22434	² Pool Code 97232	³ Pool Name MANCOS BASIN MANCOS
⁴ Property Code 30320	⁵ Property Name JICARILLA APACHE	⁶ Well Number #16E
⁷ GRID No. 5380	⁸ Operator Name XTO Energy, Inc.	⁹ Elevation 6650'

¹⁰ Surface Location

UL or lot no. A	Section 34	Township 26N	Range 5W	Lot Idn	Feet from the 825	North/South line NORTH	Feet from the 955	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres MC 460 acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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 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 Signature Dolena Johnson Printed Name Regulatory Clerk Title 07/24/2008 Date
	¹⁸ SURVEYOR CERTIFICATION 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. 6/23/1984 Date of Survey Original Survey Signed By: John A. Vukonich 14831 Certificate Number

**Jicarilla Apache #16E
Unit A, Sec 34, T 26 N, R 05 W
Rio Arriba County, New Mexico**

OAP (Mancos/Menefee/Chacra), DHC, & PWOP

Surf csg: 9-5/8", 36#, K-55, ST&C csg @ 492'. Circ cmt to surf.
Prod csg: 7", 23#, K-55, ST&C csg fr/5,600-3,495'. **Capacity: 1.6535 gpf**
 7", 20#, K-55, ST&C csg fr/3,495'-surf. **Capacity: 1.7005 gpf**
 DV tool @ 4,069'. 1st stage did not circ cmt to surf. TOC @ 4,250' by calculation.
 2nd cmt stage did not circ cmt to surf. TOC @ 2,700' by calculation.
Prod liner: 4-1/2", 10.5#, K-55 csg from 5,413' to 7,524'. PBTD @ 7,523'. Cmt'd w/200 sx
 50/50 POZ w/6% D-20, .8% D-60 followed by 50 sx class "B" w/.8% D-60. Circ 10
 bbls cmt to surf. TOC @ 5,690' by CBL
Tbg: NC, SN, & 230 jts 2-3/8" tbg. EOT @ 7,312', SN @ 7,311'.
Perforations: DK: 7,200-7,430' (1 JSPF, 15 holes).
 Pt Lkt: 5,148'-5,278' (1 JSPF, 19 holes).

Completion Procedure

- 1) MI & set 4 - 400 bbl frac tanks and fill with 2% KCl water. Set flowback tank. **NOTE:** Have frac co. test wtr for compatibility prior to frac & add biocide. Heat wtr in the frac tnks so that wtr temperature @ frac time is $\pm 70^{\circ}$ F. Hot oil trk must be clean to avoid contaminating the frac wtr.
- 2) MIRU PU. MI 5 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg.
- 3) Blow well down and kill well with 2% KCl water.
- 4) ND WH. NU and pressure test BOP.
- 5) TIH with 2-3/8" tbg. Tag fill. Report any fill to Ryan Lavergne. TOH with 2-3/8" tbg.
- 6) TIH with 6-1/4" bit and scraper, SN and 2-3/8" tbg. CO csg to top of liner (5,413'). TOH with bit.
- 7) TIH with 3-7/8" bit and string mill, SN and 2-3/8" tbg. CO fill to Model 'S' plug (7,463'). **Top of Liner @ 5,413'.** Report any tight spots in the casing to Ryan Lavergne. TOH with 2-3/8" tbg and string mill.
- 8) TIH and set a 4-1/2" CBP at $\pm 6,900'$ (Collars @ 6,914' & 6,872'). TOH w/2-3/8" tbg and setting tool.
- 9) TIH w/4-1/2" Model 'R' retrievematic packer. Set packer at $\pm 5,750'$ (Collars @ 5,724' & 5,766'). Probable TOC @ 5690'. Test CBP to 3,500 psig. TOH w/2-3/8" tbg and packer. LD 2-3/8" tbg.

- 10) MIRU wireline truck. RU full lubricator. Correlate GR/CBL/CCL with the Jicarilla Apache #16E Dresser Atlas Densilog/Neutron Log dated 10/19/80. Run GR/CBL/CCL from 6,000' to surface (492').
- 11) Perf Mancos with 3-1/8" select fire csg gun with 1 JSPF (Owen HSC-3125-302, 10 gm charges, 0.34" dia., 21.42" penetration, 21 holes). POH with csg guns. RDMO WL truck.

Mancos Perfs

Perf	CCL	Perf	CCL	Perf	CCL	Perf	CCL	Perf	CCL
6,684'		6,614'		6,540'		6,450'		6,365'	
6,678'		6,610'		6,520'		6,448'			
6,667'		6,602'		6,508'		6,434'			
6,661'		6,582'		6,482'		6,409'			
6,627'		6,558'		6,454'		6,395'			

- 12) TIH w/packer, 350' of 2-3/8", 4.7#, frac string tbg, and 3-1/2", 9.3#, frac string tbg to surface. Set packer at $\pm 5,750'$. ND BOP. NU frac vlv. RDMO PU.
- 13) MIRU acid and pump truck. BD Mancos perfs from 6,365'-6,684' and EIR with 2% KCl water. Acidize with 1,250 gals of 15% NEFE HCl and 40 Bio BS at 12 BPM down frac string. **Max TP 5,500 psig.** Flush with 2,782 gals 2% KCl water (3 bbls over flush). Record ISIP, 5", 10" and 15" SIP's. RDMO acid and pump truck.
- 14) MIRU Stinger WH isolation tool. MIRU Halliburton and CO2 frac equip. Frac Mancos perfs from 6,365'-6,684' down 3-1/2" tbg at 30 BPM with 70,000 gals 60Q, CO2 foamed, 25# XL gelled (Pure Gel III) carrying 96,000# 20/40 BASF sand and 24,000# 20/40 Super LC RC sand. Max Pressure 5,500 psig. Estimated TP 4,300 psig. Flush with 2,316 gals linear gel (3 bbl under flush). Record ISIP, 5", 10" and 15" SIP's.

MANCOS SCHEDULE

Stage	BPM	Fluid	Total Vol Gal	Prop Conc	Prop
Pad	30	25# 60Q XL foam	12,000		
2	30	25# 60Q XL foam	19,000	1	19,000# 20/40 BASF
3	30	25# 60Q XL foam	16,000	2	32,000# 20/40 BASF
4	30	25# 60Q XL foam	15,000	3	45,000# 20/40 BASF
6	30	25# 60Q XL foam	8,000	3	24,000# 20/40 Super LC
Flush	30	25# 60Q XL foam	1,816		
Flush	20	25# linear gel	500		
Total		96,000# 20/40 BASF			20,000# 20/40 Super LC

- 15) SWI 4 hrs. RDMO Halliburton and CO2 frac equip. Flowback well thru a choke manifold to flowback tank. Start with 8/64" ck. Increase choke size as appropriate.
- 16) MIRU PU. ND WH. NU BOP. TOH with 3-1/2" tbg, 2-3/8" tbg, and 4-1/2" packer. LD 3-1/2" frac string. ND BOP. NU frac vlv. RDMO PU.

- 17) MIRU wireline truck. RU full lubricator. RIH and set a 7" CBP at $\pm 5,135'$. (Check to ensure that CBP is not set in casing collar or Pt Lkt perfs). Blow down well. Load casing with 2% KCl water. Pressure test CBP to 3,000 psig. Release pressure.
- 18) Perf Menefee with 3-1/8" select fire csg gun with 1 JSPF (Owen HSC-3125-302, 10 gm charges, 0.34" dia., 21.42" penetration, 18 holes). POH with csg gun.

Menefee Perfs

PERF	CCL	PERF	CCL	PERF	CCL
5,119'		5,056'		4,964'	
5,116'		5,054'		4,961'	
5,110'		5,031'		4,958'	
5,106'		5,028'			
5,059'		4,967'			

- 19) MIRU acid & frac equipment to do a 2 stage frac (Menefee/Chacra).
- 20) BD Menefee perfs from 4,958'-5,119' and EIR with 2% KCl water. Acidize with 1000 gals of 15% NEFE HCl and 40 Bio BS at 12 BPM down 7" csg. **Max CP 3,000 psig.** Flush with 8,754 gals 2% KCl water (3 bbls over flush) or until ball off. Record ISIP, 5", 10" and 15" SIP's. RDMO acid and pump truck. RDMO WL truck.
- 21) Frac Menefee perfs from 4,958'-5,119' down 7" csg at 35 BPM with 59,000 gals 70Q, N2 foamed, Borate XL, 12# guar gel, 2% KCl water carrying 75,000# 20/40 BASF sand and 21,000# 20/40 Super LC RC sand. Do not exceed 3,000 psig. After seeing a 1 pound drop on the blender densitometer, **switch to tub bypass.** Flush with 8,170 gals linear gel (3 bbl under flush). Record ISIP, 5", 10" and 15" SIP's.

MENEFEE SCHEDULE

Stage	BPM	Fluid	Vol Gals	Prop Conc	Prop
Pad	35	25# 70Q foam	11,000		
2	35	25# 70Q foam	17,000	1	17,000# 20/40 BASF
3	35	25# 70Q foam	14,000	2	28,000# 20/40 BASF
4	35	25# 70Q foam	10,000	3	30,000# 20/40 BASF
5	35	25# 70Q foam	7,000	3	21,000# 20/40 Super LC
Flush	35	25# 70Q foam (cut XL)	7,670		
Flush	20	Linear gel	500		
Total		75,000# 20/40 BASF			21,000# 20/40 SLC

- 22) RU full lubricator. RIH and set a 7" CBP at $\pm 4,150'$. (Check to ensure that CBP is not set in casing collar). Blow down well. Load casing with 2% KCl water. Pressure test CBP to 3,000 psig. Release pressure.
- 23) Perf Chacra with 3-1/8" select fire csg gun with 1 JSPF (Owen HSC-3125-302, 10 gm charges, 0.34" dia., 21.42" penetration, 20 holes). POH with csg gun. RDMO WL truck.

Chacra Perfs

PERF	CCL	PERF	CCL	PERF	CCL	PERF	CCL
4,021		3,991		3,969'		3,934'	
4,020'		3,987'		3,946'		3,931'	
4,019'		3,985'		3,943'		3,928'	
4,018'		3,975'		3,940'		3,925'	
4,017'		3,971'		3,937'		3,922'	

- 24) BD Chacra perfs from 3,922'-4,021' and EIR with 2% KCl water. Acidize with 1,000 gals of 15% NEFE HCl and 40 BS at 12 BPM down 7" csg. **Max CP 3,000 psig**. Flush with 6,939 gals 2% KCl water (3 bbls over flush). Record ISIP, 5", 10" and 15" SIP's.
- 25) Frac Chacra perfs from 3,922'-4,021' down 7" csg at 40 BPM with 57,000 gals 70Q, N2 foamed, Borate XL, 12# guar gel, 2% KCl water carrying 71,000# 20/40 BASF sand and 21,000# 20/40 Super LC RC sand. Do not exceed 3,000 psig. Flush with 6,523 gals 70Q, N2 foamed linear gel (3 bbls under flush). Record ISIP, 5", 10" and 15" SIP's.

CHACRA SCHEDULE

Stage	BPM	Fluid	Vol Gals	Prop Conc	Prop
Pad	40	25# 70Q foam	11,000		
2	40	25# 70Q foam	17,000	1	17,000# 20/40 BASF
3	40	25# 70Q foam	12,000	2	24,000# 20/40 BASF
4	40	25# 70Q foam	10,000	3	30,000# 20/40 BASF
5	40	25# 70Q foam	7,000	3	21,000# 20/40 Super LC
Flush	40	25# 70Q foam	6,523		
Total		71,000# 20/40 BASF	21,000# 20/40 SLC		

- 26) SWI 4 hrs. RDMO frac & acid equip. Install flowback manifold. Flowback well thru a choke manifold to flowback tank. Start with 8/64" ck. Increase choke size as appropriate.

Make sure DHC orders have been approved before drilling out any plugs

- 27) MIRU PU. ND WH & NU BOP. MIRU air/foam unit. TIH with 6" bit, SN and 2-3/8" tubing. CO to CBP at 4,150'. DO CBP @ 4,150'. CO to CBP at 5,135'. DO CBP @ 5,135'. CO to 5,413' (Top of liner). TOH with 6" bit.
- 28) TIH with 3-7/8" bit, SN, and 2-3/8" tubing. CO to CBP @ 6,900'. DO CBP @ 6,900'.
- 29) CO to 7,463' (Model 'S' plug). **DO NOT DRILL THIS PLUG OUT**. Circulate wellbore clean. RDMO air/foam unit.
- 30) TOH with tubing and bit. Lay down bit. TIH with NC, SN, and 2-3/8" tubing to surface. Land tubing at $\pm 7,311'$. SN at $\pm 7,310'$. ND BOP. NU WH.

- 31) RU swab. Swab well until clean fluid is obtained and well kicks off.
- 32) Flow test min 3hrs on fixed choke for IP tst. Record liq vols, FTP, SICP , & choke size. SWI. Report rates and pressure to Ryan Lavergne.
- 33) RDMO PU.
- 34) Report rates and pressures to Ryan Lavergne.
- 35) After RWTP evaluate PWOP.

Regulatory:

1. Obtain approval to DHC the Dakota, Mancos, Mesa Verde, and Chacra formations.
2. Obtain approval to Recomplete to the Mancos and Chacra formations.
3. Submit subsequent sundry for OAP in the Mesa Verde (Menefee) formation.

Equipment:

1. 5 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg
2. New SN and NC
3. 5,400' of 3-1/2", 9.3#, J-55 frac string
4. 4-1/2" pkr
5. 4-1/2" CBP
6. 2 – 7" CBP's