

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: 9/19/2014

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner
30-039-22675-00-00	APACHE FEDERAL	010E	XTO ENERGY, INC	G	A	Rio Arriba	J

Application Type:

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

Conditions of Approval:

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

Submit CBL to agencies for review prior to perforating.

Submit C104 and completion report for the Basin Manco's before returning to production.

Charlie T. Lerrin

NMOCD Approved by Signature

10/23/14
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. JIC-69
2. Name of Operator XTO ENERGY INC.		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
3a. Address 382 CR 3100 AZTEC, NM 87410	3b. Phone No. (include area code) 505-333-3630	7. If Unit or CA/Agreement, Name and/or No. APACHE FEDERAL #10 E
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 950' FSL & 1700' FWL SESW SEC.18 (N) -T24N-R5W N.M.P.M.		8. Well Name and No. APACHE FEDERAL #10 E
		9. API Well No. 30-039-22675
		10. Field and Pool, or Exploratory Area BASIN DAKOTA
		11. County or Parish, State RIO ARriba NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	RC BASIN MANCOS
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PWOP & DHC

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 & PWOP per the following:

MIRU PU. TOH 2-3/8" Tbg. Clean out to PBID @ 6,848'. RDMO PU. MIRU WLU. RIH with 5-1/2" CIBP plug and set at 6,450'. Run GR/CCL/CBL log fr/6450' to surface. PT casing to 3,850 psig. Verify cement coverage with engineer before perforating. Perforate Mancos with a 3-1/8" select fire csg gun with 1 JSPF (0.41" dia., 30 holes). POH with csg gun. RDMO WLU. Acidize with 1,000 gals of 15% NEFE HCl acid. Frac Mancos perfs from 5,387' - 5,571' with 141,134 gals foam carrying 175,000# 20/40 Brady sand & 25,000# 20/40 SLC sand. CO to CIBP at 6,450'. Circ clean. Drill out CIBP at 6,450' and CO to PBID at 6,638'. TIH 2-3/8" tubing to land BOT at 6,570'. TIH w/rods & pump.

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) SHERY J. MORROW	Title REGULATORY ANALYST
Signature <i>Sherly J. Morrow</i>	Date 9/19/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>[Signature]</i>	Title <i>Petr. Eng</i>	Date 10/17/14
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: Apache Federal 10E

API/UWI	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref	Location	Field Name	County	State/Province
30039226750000	1,700.0	FWL	950.0	FSL	T24N-R05W-S18	Basin Dakota	Rio Arriba	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	79452	6,481.00	6,467.00	14.00	5/14/1981	Original Hole - 6638.0	6,673.0	Plunger Lift

Well Config: Vertical - Original Hole, 5/27/2014 1:56:08 PM

Schematic - Actual		Incl	ftKB (TVD)	ftKB (MD)	Zones									
					Zone	Top (ftKB) Btm (ftKB)								
					Dakota	6,512.0 6,562.0								
					Casing Strings									
					Casing Description	OD (in) Wt (lbs/ft) String Grade Top Connection Set Depth (ftKB)								
					Surface	8 5/8 24.00 J-55 549.0								
					Casing Description	OD (in) Wt (lbs/ft) String Grade Top Connection Set Depth (ftKB)								
					Production	5 1/2 15.50 K-55 6,673.0								
					Item Description	OD (in) Wt (lbs/ft) Grade Top (ftKB) Bottom (ftKB)								
					DV Tool	5 1/2 4,698.0 4,699.0								
					Cement									
					Description	Type String								
					Surface Casing Cement	casing Surface, 549.0ftKB								
					Comment									
					CMTD W/540 SX CL "B" CMT W/2% CACL2. CIRC CMT TO SURF.									
					Description	Type String								
					Production Casing Cement	casing Production, 6,673.0ftKB								
					Comment									
					CMTD 1ST STG W/350 SX CL "B" CMT W/4% GEL, 0.5% D65. TAILED IN W/200 SX CL "B" CMT W/0.5% D65. CIRC CMT TO SURF. CMT'D 2ND STG W/900 SX GULFMIX W/16% GEL. TAILED IN W/100 SX CL "B" CMT. CIRC CMT TO SURF.									
					Perforations									
					Date	Top (ftKB) Btm (ftKB) Shot Dens (shots/ft) Hole Diameter (in) Phasing (°) Curr... Status Zone								
					6/5/1981	6,512.0 6,530.0					Dakota			
					6/5/1981	6,538.0 6,562.0					Dakota			
					Tubing Strings									
					Tubing Description	Run Date	Set Depth (ftKB)							
					Tubing - Production		6,502.3							
					Tubing Components									
					Item Description	Jts	Model	OD (in)	Wt (lbs/ft)	Gra...	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
					Tubing	211	T&C Upset	2 3/8	4.70	J-55		6,392.64	14.0	6,406.6
					Tubing	3	T&C Upset	2 3/8	4.70	J-55		94.20	6,406.6	6,500.8
					Seat Nipple	1		2 3/8				1.10	6,500.8	6,501.9
					Notched Collar	1		2 3/8				0.40	6,501.9	6,502.3
					Rods									
					Rod Description	Run Date	String Length (ft)	Set Depth (ftKB)						
					Rod Components									
					Item Description	Jts	Model	OD (in)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)		
					Stimulations & Treatments									
					Frac Start Date	Top Perf (ft...)	Bottom Pe...	V (slurry) (...)	Total Prop...	AIR (b...	ATP (psi)	MTP (psi)	ISIP (psi)	
					6/5/1981	6512	6562		72,000.0	27	2,800.0		2,250.0	
					Comment									
					FRAC DK FR/6,512'-62' DWN 5-1/2" CSG W/45,000 GALS X-LINKED GEL & 72,000# 10/20 SD @ 27 BPM & 2,800 PSIG. ISIP 2,250 PSIG. 5" SIP 1,950 PSIG. 10" SIP 1,770 PSIG. 15" SIP 1,590 PSIG.									
					OIL CONS. DIV DIST. 3									
					OCT 22 2014									

Top (MD):6,512,
Des:Dakota

PBTD,
6,638

TD, 6,673

Top (MD): 6,512,
Des: Dakota

PBTD,
6,638

TD, 6,673

Formation Tops**Apache Federal #10E**

Ojo Alamo	1448'
Fruitland	1740'
Pictured Cliffs	2096'
Lewis Shale	2192'
Mesaverde	3615'
Menefee	3680'
Point Lookout	4247'
Mancos	4564'
Upper Gallup	5366'
Middle Gallup	5533'
Greenhorn	6310'
Graneros	6366'
Dakota	6402'

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
Bureau of Land Management

Form C-102

Revised October 19, 2009

Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-22675	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 33116	⁵ Property Name APACHE FEDERAL	⁶ Well Number #10E
⁷ OGRID No. 5380	⁸ Operator Name XTO ENERGY INC.	⁹ Elevation 6467'

¹⁰ Surface Location

UL or lot no. N	Section 18	Township 24N	Range 05W	Lot Idn	Feet from the 950'	North/South line SOUTH	Feet from the 1700'	East/West line WEST	County RIO ARRIBA
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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.
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OIL CONS. DIV DIST. 3

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 style="text-align: center; font-size: 2em;">18</p> <p style="text-align: center; font-size: 1.5em;">BASIN MANCOS</p> <p>1700'</p> <p>950'</p>				¹⁷ OPERATOR CERTIFICATION <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>
				<i>Sherry J. Morrow</i> Signature
				Sherry J. Morrow Printed Name
				SHERRY J. MORROW Title
				REGULATORY ANALYST
				Date 9/19/2014
<p style="text-align: center; font-size: 1.5em;">BASIN MANCOS</p> <p>1700'</p> <p>950'</p>				¹⁸ SURVEYOR CERTIFICATION <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>
				6/23/1984 Date of Survey
				Original Survey Signed By: John A. Vukonich
				14831 Certificate Number

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.**