

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

RECEIVED

APR 11 2008

Bureau of Land Management
Field Office

Field Phone No. (include area code)
505-333-3100

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

XTO Energy Inc.

3a. Address

382 CR 3100 Aztec, NM 87410

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

825' ENL & 995' FEL SEC 34A-T26N-R5W

5. Lease Serial No.

JTC-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

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

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☒ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other AMEND 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 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.)

XTO Energy Inc. intends to recomplete this well to the Wildcat Basin Mancos & the Otero Chacra & add pay to the Blanco Mesaverde per the attached procedure & plats. XTO would also like to downhole commingle the two new zones with the Basin Dakota & the Blanco Mesaverde upon completion. Please see the attached supporting documents for the allocation calculations listed as follows:

Basin Dakota	Gas: 28.81%	Oil: 40%	Water: 46%
Basin Mancos	Gas: 10.17%	Oil: 40%	Water: 22%
Mesaverde	Gas: 50.85%	Oil: 20%	Water: 22%
Chacra	Gas: 10.17%	Oil: 0%	Water: 10%

RCVD APR 15 '08

OIL CONS. DIV.

DIST. 3

Pools are not included in the NMOC pre-approved pool combinations for DHC in the San Juan Basin; therefore, a C-107A has been submitted on 4/10/08. Ownership is common & notification to owners was not necessary. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserves & violation of correlative rights.

DHC pending

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

LORRI D. BINGHAM

Signature

Title REGULATORY COMPLIANCE TECH

Date 4/10/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Joe Hewitt

Title Geo

Date 4-14-08

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 FFD

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

**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 3 - 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 Laverigne. 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 Laverigne. 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 Gallup 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) Refill frac tanks 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.

18) Blow down well and kill with 2% KCl water.

19) 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.

20) 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'			

21) MIRU acid & frac equipment to do a 2 stage frac (Menefee/Chacra).

22) 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.

23) 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. 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# linear gel	8,170		
Total		75,000# 20/40 BASF			21,000# 20/40 SLC

24) Refill frac tanks with 2% KCl water as needed for Chacra stg. 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.

25) Blow down well and kill with 2% KCl water.

26) 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.

- 27) 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'	

- 28) 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.
- 29) 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		

- 30) 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.
- 31) 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.

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

- 32) 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.
- 33) TIH with 3-7/8" bit, SN, and 2-3/8" tubing. CO to CBP @ 6,900'. DO CBP @ 6,900'.
- 34) CO to 7,463' (Model 'S' plug). **DO NOT DRILL THIS PLUG OUT.** Circulate wellbore clean. RDMO air/foam unit.

- 35) 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.
- 36) RU swab. Swab well until clean fluid is obtained and well kicks off.
- 37) RDMO PU.
- 38) Report rates and pressures to Ryan Lavergne.
- 39) 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

Sic Ap #16E

RC to MC & CH
Menefer MV

Jicarilla Apache Oil & Water Allocations

Well Name	No.	Operator	Location	Reservoir	EUR Oil (mbo)	Cum Wtr (mbbl)
JICARILLA A	9	CDX RIO LIMITED LIABILITY CORPORATION	20D 26N 5W SE NW NW	CHACRA	0	0
JICARILLA APACHE	3	XTO ENERGY INCORPORATED	34D 26N 5W SE NW NW	CHACRA	0	0
JICARILLA APACHE	11	XTO ENERGY INCORPORATED	28M 26N 5W NE SW SW	CHACRA	0	0
JICARILLA APACHE	12	XTO ENERGY INCORPORATED	33A 26N 5W SW NE NE	CHACRA	0	0
JICARILLA APACHE	13	XTO ENERGY INCORPORATED	33M 26N 5W NE SW SW	CHACRA	0	0
JICARILLA APACHE	14	XTO ENERGY INCORPORATED	34M 26N 5W NE SW SW	CHACRA	0	0
JICARILLA APACHE	16	XTO ENERGY INCORPORATED	34I 26N 5W SW NE SE	CHACRA	0	0
JICARILLA APACHE	19	XTO ENERGY INCORPORATED	28B 26N 5W SE NW NE	CHACRA	0	0
JICARILLA APACHE	20	MARATHON OIL COMPANY	27M 26N 5W NE SW SW	CHACRA	0	0
JICARILLA APACHE	13E	XTO ENERGY INCORPORATED	33E 26N 5W NE SW NW	CHACRA	0	0
JICARILLA CONTRACT 155	23	CDX RIO LIMITED LIABILITY CORPORATION	32N 26N 5W NW SE SW	CHACRA	0	0
JICARILLA CONTRACT 155	25	CDX RIO LIMITED LIABILITY CORPORATION	29L 26N 5W SE NW SW	CHACRA	0	0
JICARILLA CONTRACT 155	27	CDX RIO LIMITED LIABILITY CORPORATION	32J 26N 5W SE NW SE	CHACRA	0	0
JICARILLA CONTRACT 155	29	CDX RIO LIMITED LIABILITY CORPORATION	32F 26N 5W NW SE NW	CHACRA	0	0
JICARILLA CONTRACT 155	31	CDX RIO LIMITED LIABILITY CORPORATION	29H 26N 5W NW SE NE	CHACRA	0	0
JICARILLA CONTRACT 155	19E	CDX RIO LIMITED LIABILITY CORPORATION	29J 26N 5W SE NW SE	CHACRA	0	0
JICARILLA CONTRACT 155	20E	CDX RIO LIMITED LIABILITY CORPORATION	28C 26N 5W SW NE NW	CHACRA	0	0
JICARILLA GAS COM 155 A	1	CDX RIO LIMITED LIABILITY CORPORATION	32H 26N 5W NW SE NE	CHACRA	0	0
JICARILLA A	5	CDX RIO LIMITED LIABILITY CORPORATION	20G 26N 5W SW NE	DAKOTA	14	1
JICARILLA A	6	CDX RIO LIMITED LIABILITY CORPORATION	20M 26N 5W SW SW	DAKOTA	35	2
JICARILLA A	5E	CDX RIO LIMITED LIABILITY CORPORATION	20J 26N 5W SE NW SE	DAKOTA	19	1
JICARILLA A	6E	CDX RIO LIMITED LIABILITY CORPORATION	20F 26N 5W NE SW NW	DAKOTA	17	1
JICARILLA APACHE	8	XTO ENERGY INCORPORATED	27P 26N 5W NW SE SE	DAKOTA	11	2
JICARILLA APACHE	9	XTO ENERGY INCORPORATED	28A 26N 5W NE NE	DAKOTA	54	1
JICARILLA APACHE	10	XTO ENERGY INCORPORATED	27B 26N 5W SE NW NE	DAKOTA	13	1
JICARILLA APACHE	11	XTO ENERGY INCORPORATED	28M 26N 5W NE SW SW	DAKOTA	30	2
JICARILLA APACHE	12	XTO ENERGY INCORPORATED	33A 26N 5W SW NE NE	DAKOTA	15	3
JICARILLA APACHE	13	XTO ENERGY INCORPORATED	33M 26N 5W NE SW SW	DAKOTA	15	3
JICARILLA APACHE	14	XTO ENERGY INCORPORATED	34M 26N 5W NE SW SW	DAKOTA	27	3
JICARILLA APACHE	16	XTO ENERGY INCORPORATED	34I 26N 5W SW NE SE	DAKOTA	11	4
JICARILLA APACHE	18E	XTO ENERGY INCORPORATED	27C 26N 5W SW NE NW	DAKOTA	8	3
JICARILLA APACHE	11E	XTO ENERGY INCORPORATED	28C 26N 5W SW NE NW	DAKOTA	11	1
JICARILLA APACHE	12F	XTO ENERGY INCORPORATED	33J 26N 5W SE NW SE	DAKOTA	12	1
JICARILLA APACHE	10E	XTO ENERGY INCORPORATED	33E 26N 5W NE SW NW	DAKOTA	7	1
JICARILLA APACHE	14F	XTO ENERGY INCORPORATED	34F 26N 5W NW SE NW	DAKOTA	12	1
JICARILLA APACHE	14I	XTO ENERGY INCORPORATED	34D 26N 5W SE NW NW	DAKOTA	9	1
JICARILLA APACHE	14G	XTO ENERGY INCORPORATED	34K 26N 5W NW NE SW	DAKOTA	0	1
JICARILLA APACHE	15E	XTO ENERGY INCORPORATED	34A 26N 5W SW NE NE	DAKOTA	7	1
JICARILLA APACHE	18F	XTO ENERGY INCORPORATED	34Q 26N 5W NW SW SE	DAKOTA	0	0
JICARILLA APACHE	16G	XTO ENERGY INCORPORATED	34H 26N 5W SW SE NE	DAKOTA	0	1
JICARILLA APACHE	1E	XTO ENERGY INCORPORATED	27K 26N 5W SW NE SW	DAKOTA	0	1
JICARILLA APACHE	8G	XTO ENERGY INCORPORATED	27N 26N 5W NE SE SW	DAKOTA	0	1
JICARILLA APACHE	9E	XTO ENERGY INCORPORATED	28Q 26N 5W NE SW SE	DAKOTA	0	1
JICARILLA A	1	CDX RIO LIMITED LIABILITY CORPORATION	22Q 26N 5W SW NE	DAKOTA	50	1
JICARILLA A	4	CDX RIO LIMITED LIABILITY CORPORATION	21H 26N 5W SE NE	DAKOTA	40	1
JICARILLA A	5	CDX RIO LIMITED LIABILITY CORPORATION	21K 26N 5W NE SW	DAKOTA	21	1
JICARILLA A	6	CDX RIO LIMITED LIABILITY CORPORATION	22K 26N 5W SW NE SW	DAKOTA	29	1
JICARILLA A	1E	CDX RIO LIMITED LIABILITY CORPORATION	22I 26N 5W SW NE SE	DAKOTA	1	1
JICARILLA A	4E	CDX RIO LIMITED LIABILITY CORPORATION	21P 26N 5W NW SE SE	DAKOTA	0	1
JICARILLA A	5E	CDX RIO LIMITED LIABILITY CORPORATION	21E 26N 5W NE SW NW	DAKOTA	0	1
JICARILLA A	1E	CDX RIO LIMITED LIABILITY CORPORATION	27C 26N 5W SW NE NW	DAKOTA	6	1
JICARILLA CONTRACT 145	11	CDX RIO LIMITED LIABILITY CORPORATION	4K 26N 5W SW NE SW	DAKOTA	50	1
JICARILLA CONTRACT 145	17	CDX RIO LIMITED LIABILITY CORPORATION	3G 26N 5W NE SW NE	DAKOTA	11	1
JICARILLA CONTRACT 145	19	CDX RIO LIMITED LIABILITY CORPORATION	42N 5W SW NE NE	DAKOTA	11	1
JICARILLA CONTRACT 145	21	BLAUER OIL PRODUCTION COMPANY	3K 26N 5W SW NE SW	DAKOTA	3	1
JICARILLA CONTRACT 145	1E	CDX RIO LIMITED LIABILITY CORPORATION	4Q 26N 5W NE SW SE	DAKOTA	11	1

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JCARILLA CONTRACT 146	17E CDX RIO LIMITED LIABILITY CORPORATION	3J 25N 5W SE NW SE	DAKOTA	4	0
JCARILLA CONTRACT 146	19E CDX RIO LIMITED LIABILITY CORPORATION	4 25N 5W SW NE NW	DAKOTA	2	4
JCARILLA CONTRACT 146	21E CDX RIO LIMITED LIABILITY CORPORATION	3F 25N 5W NW SE NW	DAKOTA	8	4
JCARILLA CONTRACT 146	21R CDX RIO LIMITED LIABILITY CORPORATION	3N 25N 5W NW SE SW	DAKOTA	1	2
JCARILLA CONTRACT 155	12 CDX RIO LIMITED LIABILITY CORPORATION	32K 26N 5W SW NE SW	DAKOTA	25	4
JCARILLA CONTRACT 155	19 BP AMERICA PRODUCTION COMPANY	29A 26N 5W NE NE	DAKOTA	27	2
JCARILLA CONTRACT 155	20 CDX RIO LIMITED LIABILITY CORPORATION	29N 26N 5W NW SE SW	DAKOTA	18	5
JCARILLA CONTRACT 155	12E CDX RIO LIMITED LIABILITY CORPORATION	32J 26N 5W SE NW SE	DAKOTA	7	0
JCARILLA CONTRACT 155	19E CDX RIO LIMITED LIABILITY CORPORATION	29J 26N 5W SE NW SE	DAKOTA	11	4
JCARILLA CONTRACT 155	20E CDX RIO LIMITED LIABILITY CORPORATION	29C 26N 5W SW NE NW	DAKOTA	8	3
JCARILLA GAS COM C	1 CDX RIO LIMITED LIABILITY CORPORATION	32A 26N 5W SW NE NE	DAKOTA	12	4
JCARILLA GAS COM C	1E CDX RIO LIMITED LIABILITY CORPORATION	32F 26N 5W NW SE NW	DAKOTA	6	14
JCARILLA K	11 CONOCOPHILLIPS COMPANY	2E 25N 5W NE SW NW	DAKOTA	14	1
JCARILLA K	12 CONOCOPHILLIPS COMPANY	2O 25N 5W NW SW SE	DAKOTA	15	
JCARILLA K	11E CONOCOPHILLIPS COMPANY	2 25N 5W NW NE	DAKOTA	3	3
JCARILLA K	12E CONOCOPHILLIPS COMPANY	2M 25N 5W NE SW SW	DAKOTA	9	4
Average				12	4
JCARILLA 153	19 BURLINGTON RESOURCES O&G CO LP	26I 26N 5W NE SE	GALLUP	2	2
JCARILLA 153	12E BURLINGTON RESOURCES O&G CO LP	35M 26N 5W NE SW SW	GALLUP	17	1
JCARILLA 153	14E BURLINGTON RESOURCES O&G CO LP	35G 26N 5W NE SW NE	GALLUP	2	2
JCARILLA 153	9E BURLINGTON RESOURCES O&G CO LP	26D 26N 5W SE NW NW	GALLUP	1	1
JCARILLA A	5 CDX RIO LIMITED LIABILITY CORPORATION	2OG 26N 5W SW NE	GALLUP	44	4
JCARILLA APACHE	10 XTO ENERGY INCORPORATED	27B 26N 5W SE NW NE	GALLUP	0	0
JCARILLA A	4 CDX RIO LIMITED LIABILITY CORPORATION	21H 26N 5W SE NE	GALLUP	29	0
JCARILLA A	5E CDX RIO LIMITED LIABILITY CORPORATION	21E 26N 5W NE SW NW	GALLUP	14	4
Average	3 CDX RIO LIMITED LIABILITY CORPORATION	23I 26N 5W NE SE	GALLUP	12	2
Average				14	3
JCARILLA APACHE	20 CONOCOPHILLIPS COMPANY	5 25N 5W SW NE NW	MESAVERDE	7	2
JCARILLA APACHE	21 CONOCOPHILLIPS COMPANY	5I 25N 5W SW NE SE	MESAVERDE	0	2
JCARILLA APACHE	20A CONOCOPHILLIPS COMPANY	5 25N 5W SW NE NE	MESAVERDE	14	4
JCARILLA APACHE	21A CONOCOPHILLIPS COMPANY	5N 25N 5W NW SE SW	MESAVERDE	1	2
JCARILLA 153	10 BURLINGTON RESOURCES O&G CO LP	2BI 26N 5W NE SE	MESAVERDE	1	
JCARILLA 153	10E BURLINGTON RESOURCES O&G CO LP	26N 26N 5W NW SE SW	MESAVERDE	1	1
JCARILLA 153	12E BURLINGTON RESOURCES O&G CO LP	36M 26N 5W NE SW SW	MESAVERDE	2	0
JCARILLA 153	9E BURLINGTON RESOURCES O&G CO LP	26D 26N 5W SE NW NW	MESAVERDE	1	0
JCARILLA A	9 CDX RIO LIMITED LIABILITY CORPORATION	23O 26N 5W SE NW NW	MESAVERDE	1	
JCARILLA APACHE	9 XTO ENERGY INCORPORATED	28A 26N 5W NE NE	MESAVERDE		
JCARILLA APACHE	11 XTO ENERGY INCORPORATED	28M 26N 5W NE SW SW	MESAVERDE		
JCARILLA APACHE	12 XTO ENERGY INCORPORATED	31A 26N 5W SW NE NE	MESAVERDE		
JCARILLA APACHE	13 XTO ENERGY INCORPORATED	33M 26N 5W NE SW SW	MESAVERDE	6	0
JCARILLA APACHE	14 XTO ENERGY INCORPORATED	34M 26N 5W NE SW SW	MESAVERDE		
JCARILLA APACHE	15 XTO ENERGY INCORPORATED	34I 26N 5W SW NE SE	MESAVERDE		
JCARILLA APACHE	11E XTO ENERGY INCORPORATED	28C 26N 5W SW NE NW	MESAVERDE		
JCARILLA APACHE	13E XTO ENERGY INCORPORATED	33E 26N 5W NE SW NW	MESAVERDE	10	0
JCARILLA APACHE	14E XTO ENERGY INCORPORATED	34F 26N 5W NW SE NW	MESAVERDE	7	4
JCARILLA APACHE	15E XTO ENERGY INCORPORATED	34A 26N 5W SW NE NE	MESAVERDE		
JCARILLA APACHE	8E XTO ENERGY INCORPORATED	27K 26N 5W SW NE SW	MESAVERDE		
JCARILLA APACHE	9E XTO ENERGY INCORPORATED	28C 26N 5W NE SW SE	MESAVERDE		
JCARILLA A	5 CDX RIO LIMITED LIABILITY CORPORATION	21K 26N 5W NE SW	MESAVERDE		
JCARILLA A	1E CDX RIO LIMITED LIABILITY CORPORATION	23G 26N 5W NE SW NE	MESAVERDE	6	0
JCARILLA A	11 CDX RIO LIMITED LIABILITY CORPORATION	4K 26N 5W SW NE SW	MESAVERDE	4	
JCARILLA A	37 CDX RIO LIMITED LIABILITY CORPORATION	4 25N 5W SE NE NW	MESAVERDE	12	3
JCARILLA A	11C CDX RIO LIMITED LIABILITY CORPORATION	4O 26N 5W NE SW SE	MESAVERDE	0	0
JCARILLA A	20 CDX RIO LIMITED LIABILITY CORPORATION	29N 26N 5W NW SE SW	MESAVERDE	10	1
JCARILLA A	23 CDX RIO LIMITED LIABILITY CORPORATION	32N 26N 5W NW SE SW	MESAVERDE	2	
JCARILLA A	27 CDX RIO LIMITED LIABILITY CORPORATION	32J 26N 5W SE NW SE	MESAVERDE	16	2
JCARILLA A	28 CDX RIO LIMITED LIABILITY CORPORATION	32F 26N 5W NW SE NW	MESAVERDE	12	
JCARILLA A	32 CDX RIO LIMITED LIABILITY CORPORATION	29P 26N 5W NW SE SE	MESAVERDE	0	
JCARILLA A	33 CDX RIO LIMITED LIABILITY CORPORATION	29A 26N 5W SW NE NE	MESAVERDE	1	
JCARILLA A	33A CDX RIO LIMITED LIABILITY CORPORATION	29C 26N 5W SW NE NW	MESAVERDE	0	1

RICARILLA GAS COM 155 A	1 CDX RIO LIMITED LIABILITY CORPORATION	32H 26N 5W NW SE NE	MESAVERDE	34	1
RICARILLA K	11 CONOCOPHILLIPS COMPANY	2E 25N 5W NE SW NW	MESAVERDE	2	1
RICARILLA K	22 CONOCOPHILLIPS COMPANY	2M 25N 5W NE SW SW	MESAVERDE	32	2
Average				7	2

420
 1
 4
 2
 2
 9

0.1
 0
 1.4
 1.1
 2
 35

Allocation	Oil	Water	
Chacra	0%	10%	
Dakota	40%	46%	46%
Mancos	40%	11%	
Mesaverde	20%	11%	OK

Jicarilla Apache Gas Allocations

<u>Reservoir</u>	<u>Daily Gas Rate</u>	<u>Methodology</u>
Dakota	85	Current average daily rate
Mancos	30	Calculated average daily rate for all currently producing Gallup/Mancos wells in the surrounding area.
Mesaverde	150	Mesaverde is on 80 acre spacing now. Used average daily rate for first 80 acre mesaverde well drilled, Jicarilla Apache #16G to take depletion into consideration.
Chacra	30	Calculated average daily rate for all currently producing Chacra wells in the surrounding area.

<u>Allocation</u>	<u>Gas</u>
Dakota	28.81%
Mancos	10.17%
Mesaverde	50.85%
Chacra	10.17%

BLM CONDITIONS OF APPROVAL

WORKOVER AND RECOMPLETION OPERATIONS:

- 1. A properly functioning BOP and related equipment must be installed prior to commencing workover and/or recompletion operations.**
- 2. If this well is in a Seasonal Closure Area, adhere to the closure requirements and timeframes.**
- 3. If casing repair operations are needed, obtain prior approval from this office before commencing repairs**

SURFACE USE OPERATIONS:

The following Stipulations will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and operator a contradictory environmental stipulation. The failure of operator to comply with these requirements may result in assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on location during construction, drilling and reclamation activity.

An agreement between operator and fee landowner will take precedence over BLM surface stipulations unless (in reference to 43 CFR Part 3160) 1) BLM determines that operator's actions will affect adjacent Federal or Indian surface, or 2) operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

STANDARD STIPULATIONS: All surface areas disturbed during work-over activities and not in use for production activities will be reseeded. This should occur in the first 90 days after completion of workover activities.

SPECIAL STIPULATIONS:

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