Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
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 reverse side.

5. Lease Serial No.
JIC154

6. If Indian, Allottee or Tribe Name
JICARILLA APACHE

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

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

8. Well Name and No.
JICARILLA APACHE 14G

2. Name of Operator
XTO ENERGY INC
Contact: KRISTEN LYNCH

9. API Well No.
30-039-29658-00-C1

3a. Address
382 ROAD 3100
AZTEC, NM 87410

3b. Phone No. (include area code)
Ph: 505.333.3206

10. Field and Pool, or Exploratory
BASIN DAKOTA
BLANCO MESAVERDE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 34 T26N R5W NESW 2140FSL 2135FWL
36.441803 N Lat, 107.349733 W Lon

11. County or Parish, and State
RIO ARRIBA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ 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 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.)

XTO Energy Inc. proposes to recomplete this well to the Basin Mancos formation per the attached procedure. Also attached is the WBD, Formation Tops, Mancos C-102 plat.

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

OIL CONS. DIV DIST. 3
FEB 29 2016

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #331400 verified by the BLM Well Information System
For XTO ENERGY INC, sent to the Rio Puerco
Committed to AFMSS for processing by WILLIAM TAMBEKOU on 02/24/2016 (16WMT0030SE)

Name *(Printed/Typed)* KRISTEN LYNCH — Title REGULATORY COMPLIANCE TECH

Signature (Electronic Submission) — Date 02/11/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By WILLIAM TAMBEKOU — Title PETROLEUM ENGINEER — Date 02/24/2016

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 Rio Puerco

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD

10

Jicarilla Apache #14G
Sec. 34, T 26 N, R 5 W
Rio Arriba County, New Mexico
Mancos Completion & Production Test

January 4, 2016

AFE Number:	1507915
Spud Date:	4/22/2006
Surface Casing:	8-5/8", 24#, J-55 csg @ 374'. Cmt'd w/244 sxs. Circ cmt to surf.
Production Casing:	5-1/2", 15.5#, J-55 csg @ 7,690'. Cmt'd 1ST stage w/40 sx prem lite cmt (lead) & 150 sx Type III cmt (tail). Circ cmt to surf. Cmt'd 2nd stage w/480 sx Type III cmt (lead) & 150 sx Type III neat cmt (tail). Circ cmt to surf.
Production Tubing:	221 jts 2-3/8" 4.7#, J-55, EUE 8rd tbg, SN & NC. SN @ 7,302'. EOT @ 7,303'.
Perforations:	Mesaverde: 5,131-5,341' Dakota: 7,133' – 7,371'
PBTD:	7,643'
Recent Production:	50 MCFPD, Trace BWPD, 0 BOPD

1. Verify NOI and C-104 Test Allowable are submitted and approved. Check for any COA's.

2. Set 1 – 400 bbl flowback tank and 7 – 400 bbl frac tanks. Have water heated so that the temperature is ±70 degrees F at frac time. Ensure hot oil truck is clean to avoid contamination of fresh water. Capture water sample from each tank in a clean container with no air. Deliver sample to XTO lab for bacteria analysis. Label each bottle with corresponding tank. Pre-treat 1 tank with Halliburton's Cla-Web before frac to circulate casing clean and BD perfs.

3. MI ±6,900' 3-1/2", 9.2#, N-80 NUE workstring.

4. MIRU PU. Review JSA. Initiate SOP's. Hold safety meeting.

5. ND WH. NU & FT BOP. TIH & tag for fill. TOH.

6. PU & TIH 4-3/4" bit & string mill on 2-3/8" tubing to 7,133'. TOH & LD mill & bit.

7. TIH with 5-1/2" CBP & set @ 7,075'.

8. Circulate hole clean with treated fresh water with Cla-Web and PT casing to 550 psig. TOH tubing. RU WL, lubricator.

9. Perforate Lower Organic Mancos with a 3-1/8" Titan PPG-31112-321T charges or equivalent (1 JSPF, 120 deg phasing, 12 gm, .34" EHD, 22.4" pene, 14 holes). Reference previous open hole log dated 5/3/2006. RDMO WLU.

Lower Organic Mancos Perforations:

PERF	CCL	PERF	CCL
7,037'		7,007'	
7,033'		7,005'	
7,031'		6,991'	
7,022'		6,989'	
7,020'		6,975'	
7,016'		6,962'	
7,014'		6,959'	

10. PU & TIH 5-1/2" Arrow-Set packer, 2 jts 2-7/8", N-80, XO & 3-1/2", 9.2#, N-80 NUE workstring. Set packer @ ±6,850'.

11. ND BOP & NU & 5-1/8" FE 10K frac valve. Ensure all surface equipment is compatible with a frac down 3-1/2", 9.3#, N-80 NUE workstring.

12. MIRU acid pump. BD perfs with treated fresh water with Cla-Web (**max pressure is 8,000 psig**). Switch to acid. Acidize Mancos perfs from 6,959' – 7,037' with 1,500 gals 15% NEFE HCl acid with FE control, surfactant, CI additives & 20 – 7/8", 1.1 SG Green Bio balls. Flush 10 bbl past bottom perf with treated water @ ±5 BPM (60 bbls). Record ISIP and 5" SIP. Surge off ball sealers. RDMO acid equipment. SWI pending frac.

13. MIRU stimulation equipment. **Hold Safety Meeting.** Review JSA. Initiate SOP's. Frac the Lower Organic Mancos perfs from 6,959' – 7,037' at 25 BPM with 70Q, N2 foamed, 25 lb XL gelled, 2% KCl water (Delta 200) carrying 75,000 lbs 20/40 Brady sand & 25,000 lbs 20/40 SLC sand) with 500 lbs of Baker ParaSorb and 125 lbs of Baker ScaleSorb evenly dispersed between sand stages. **Have copy of MSDS for both products on location and ensure recommended safety protocols are followed.** Switch to tub bypass when inline densitometer reads a 1 lb drop. Flush with treated water to bottom perf at 7,037'. Record ISIP 5 min, 10 min, 15 min SIP. **Max pressure 8,000 psig.**

Lower Organic Mancos Nitrogen Foam Frac Schedule:

PUMP SCHEDULE									
Stage No.	**Stage Desc.**	**Rate (BPM)**	**Fluid**	**Foam Volume (GAL)**	**Clean Volume (GAL)**	**Prop Conc (PPG)**	**Prop Wt (LBS)**	**Cum Prop (LBS)**	**Prop Type**
1	L&B	5	2% KCL	-	5,000	0	0	0	-
2	Acid	5	15% NEFE	-	1,500	0	0	0	-
3	Flush	10	2% KCL	-	2,500	0	0	0	-
4	Pad	25	25# 70Q XL N2	10,000	3,000	0	0	0	-
5	0.25	25	25# 70Q XL N2	5,000	1,517	0.25	1,250	1,250	20/40 Brady
6	0.5	25	25# 70Q XL N2	7,500	2,301	0.5	3,750	5,000	20/40 Brady
7	1	25	25# 70Q XL N2	10,000	3,137	1	10,000	15,000	20/40 Brady
8	2	25	25# 70Q XL N2	10,000	3,274	2	20,000	35,000	20/40 Brady
9	2.5	25	25# 70Q XL N2	10,000	3,342	2.5	25,000	60,000	20/40 Brady
10	3	25	25# 70Q XL N2	5,000	1,705	3	15,000	75,000	20/40 Brady
11	4	25	25# 70Q XL N2	6,250	2,217	4	25,000	100,000	20/40 RCS
12	Flush	25	2% KCL	-	2,500	0	0	-	-

14. ND frac valve. NU & FT BOP. Rls pkr & TOH w/pkr & 3-1/2" workstring.

15. TIH with 5-1/2" Weatherford Fracgaurd Composite Plug or equivalent & set @ 6,900'.

16. Perforate Upper Organic Mancos with a 3-1/8" Titan PPG-31112-321T charges or equivalent (1 JSPF, 120 deg phasing, 12 gm, .34" EHD, 22.4" pene, 14 holes). Reference previous open hole log dated 5/3/2006. RDMO WLU.

Upper Organic Mancos Perforations:

PERF	CCL	PERF	CCL
6,852'		6,805'	
6,850'		6,803'	
6,848'		6,801'	
6,839'		6,784'	
6,837'		6,782'	
6,817'		6,774'	
6,815'		6,772'	

17. PU & TIH 5-1/2" Arrow-Set packer, 2 jts 2-7/8", N-80, XO & 3-1/2", 9.2#, N-80 NUE workstring. Set packer @ ±6,660'.

18. ND BOP & NU & 5-1/8" FE 10K frac valve. Ensure all surface equipment is compatible with a frac down 3-1/2", 9.3#, N-80 NUE workstring.

19. RU acid pump. BD perfs with treated fresh water with Cla-Web (**max pressure is 8,000 psig**). Switch to acid. Acidize Upper Organic Mancos perfs from 6,772' – 6,852' with 1,500 gals 15% NEFE HCl acid with FE control, surfactant, CI additives & 20 – 7/8", 1.1 SG Green Bio balls. Flush 10 bbl past bottom perf with treated water @ ±5 BPM (60 bbls). Record ISIP and 5" SIP. Surge off ball sealers.

20. RU stimulation equipment. **Hold Safety Meeting.** Review JSA. Initiate SOP's. Frac the Upper Organic Mancos perfs from 6,772' – 6,852' at 25 BPM with 70Q, N2 foamed, 25 lb XL gelled, 2% KCl water (Delta 200) carrying 75,000 lbs 20/40 Brady sand & 25,000 lbs 20/40 SLC sand) with 500 lbs of Baker ParaSorb and 125 lbs of Baker ScaleSorb evenly dispersed between sand stages. **Have copy of MSDS for both products on location and ensure recommended safety protocols are followed.** Switch to tub bypass when inline densitometer reads a 1 lb drop. Flush with treated water to bottom perf at 6,852'. Record ISIP 5 min, 10 min, 15 min SIP. . RDMO stimulation equipment. **Max pressure 8,000 psig.**

Upper Organic Mancos Nitrogen Foam Frac Schedule:

PUMP SCHEDULE									
Stage No.	Stage Desc.	Rate (BPM)	Fluid	Foam Volume (GAL)	Clean Volume (GAL)	Prop Conc (PPG)	Prop Wt (LBS)	Cum Prop (LBS)	Prop Type
1	L&B	5	2% KCL	-	5,000	0	0	0	-
2	Acid	5	15% NEFE	-	1,500	0	0	0	-
3	Flush	10	2% KCL	-	2,500	0	0	0	-
4	Pad	25	25# 70Q XL N2	10,000	3,000	0	0	0	-
5	0.25	25	25# 70Q XL N2	5,000	1,517	0.25	1,250	1,250	20/40 Brady
6	0.5	25	25# 70Q XL N2	7,500	2,301	0.5	3,750	5,000	20/40 Brady
7	1	25	25# 70Q XL N2	10,000	3,137	1	10,000	15,000	20/40 Brady
8	2	25	25# 70Q XL N2	10,000	3,274	2	20,000	35,000	20/40 Brady
9	2.5	25	25# 70Q XL N2	10,000	3,342	2.5	25,000	60,000	20/40 Brady
10	3	25	25# 70Q XL N2	5,000	1,705	3	15,000	75,000	20/40 Brady
11	4	25	25# 70Q XL N2	6,250	2,217	4	25,000	100,000	20/40 RCS
12	Flush	25	2% KCL	-	2,500	0	0	-	-

21. MIRU green completion flowback equipment (choke manifold, sand catcher, separator, flare stack & flowback tank). Review JSA. Initiate SOP's. OWU on 8/64" choke and start flowback. Increase choke size as needed.

22. IP test the well for a minimum of 3 hours. Record liquid volume, average FCP, choke size & calculate gas volume. Report IP test in WellView. SWI. RDMO green completion flowback equipment.

23. MIRU PU. Review JSA. Initiate SOP's. MI 7,440' of 2-3/8", 4.7#, J-55 tbg. MI rods & pump. KW as needed with treated water. ND frac valve. NU & FT BOP. Rls pkr & TOH w/pkr & 3-1/2" workstring.

24. MIRU AFU. TIH with 4-3/4" bit, SN & 2-3/8" tubing. CO frac sand to Weatherford Fracgaurd Composite Plug @ 6,900'. DO plug. CO frac sand to CBP @ 7,075'. DO CBP. CO to PBTD. Circulate casing clean with treated water. TOH.

25. TIH with 2-3/8" x 30' OEMA w/weep hole & pin, 2-3/8" SN, ±29 jts 2-3/8", 4.7#, J-55, 8rd EUE tubing, 5-1/2" x 2-3/8" TAC & ±203 jts 2-3/8", 4.7#, J-55, 8rd EUE tubing. EOT @ ±7,470', TAC @ ±6,500' & SN @ ±7,440'.

26. RU swab tools. Swab well until fluid is clean.

27. ND BOP. Set TAC. NU WH.

28. TIH with 2" x 1-1/2" x 14' RWAC pump with 1" x 1' strainer nipple, Spiral rod guide, 1" x 1' LS, 1 – 1-1/4" grade "K" sinker bar, 21K shear tool, 9 – 1-1/4" grade "K" sinker bars, 178 – 3/4"

grade "D" rods, 110 – 7/8" grade "D" rods, Rod subs to space out pump & 1-1/4" x 22' PR with 10' liner.

29. Space out pump. HWO. Ld tubing and check pump action.

30. SWI. RDMO workover rig.

31. If Test Allowable C-104 was obtained, OWU and start PU @ 64" x 3.5 SPM. Otherwise, wait until C-104 is approved to 1st deliver well.

Regulatory Requirements

1. NOI to recomplete the Mancos on C-103
2. Test Allowable on C-104
3. Completion report on C-105
4. Subsequent on C-103
5. Dakota, Mancos and Mesaverde DHC

Services

1. AFU
2. WLU
3. Workover Rig
4. Stimulation services
5. Tuboscope Inspection services
6. Flowback services

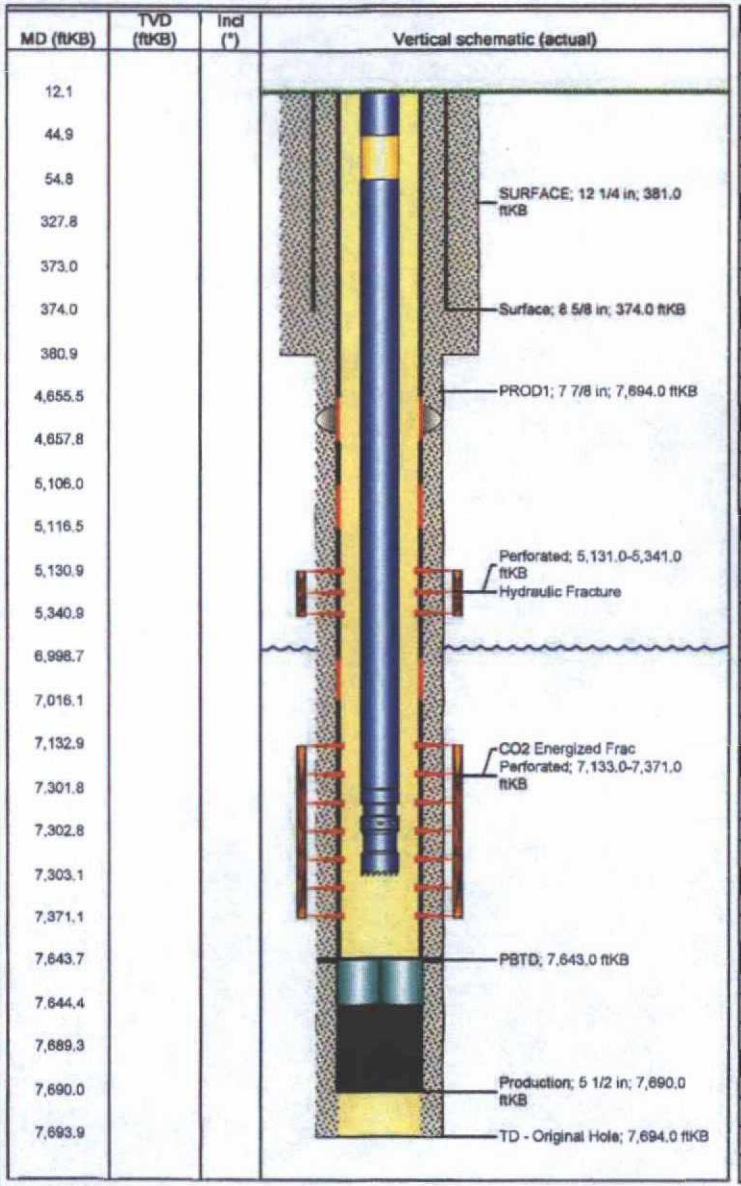
Equipment

1. 7 – 400 bbl frac tanks
2. 10K frac valve
3. Green completion flow back equipment
4. 1 - flowback tank
5. 5-1/2" CBP
6. Weatherford Fracgaurd Composite Plug
7. 4-3/4" bit & string mill
8. 6,900' 3-1/2", 9.2#, N-80 NUE workstring
9. 7,440' 2-3/8" 4.7#, J-55 EUE 8rd tbg pulled fr/well & new as needed per inspection results
10. 5-1/2" x 2-3/8" TAC
11. 2-3/8" x 30' OEMA w/weep hole & pin
12. 2 x 1-1/2" x 14' RWAC pmp w/1" x 1' stnr nipple
13. 10 – 1-1/4" grade "K" sinker bars
14. 178 – 3/4" grade "D" rods
15. 110 – 7/8" grade "D" rods

Downhole Well Profile - with Schematic

Well Name: Jicarilla Apache 14G

API/UWI	XTO Accounting ID	Permit Number	State/Province	County
30039296580000	77898		New Mexico	Rio Arriba
Location	**Spud Date**	**Original KB Elevation (ft)**	**Ground/Corrected Ground Elevation (ft)**	**KB-Ground Distance (ft)**
T26N-R05W-S34	4/22/2006 00:00	6,624.00	6,612.00	12.00



Wellbores

Wellbore Name	Parent Wellbore	Wellbore API/UWI
Original Hole	Original Hole	30039296580000
Start Depth (ftKB)	**Profile Type**	**Kick Off Depth (ftKB)**
12.0		

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	12.0	381.0
PROD1	7 7/8	381.0	7,694.0

Zones

Zone Name	Top (ftKB)	Btm (ftKB)	Current Status
Mesaverde	5,131.0	5,341.0	
Dakota	7,133.0	7,371.0	

Casing Strings

Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade
Surface	374.0	8 5/8	24.00	J-55
Production	7,690.0	5 1/2	15.50	J-55

Cement

Des	Type	String
Surface Casing Cement	Casing	Surface, 374.0ftKB
Production Casing Cement	Casing	Production, 7,690.0ftKB

Tubing Strings

Tubing Description	Run Date	Set Depth (ftKB)
Tubing - Production	8/14/2006	7,303.2

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.70	J-55	1	32.94	12.0	44.9
Tubing Sub	2 3/8	4.70	J-55	1	10.00	44.9	54.9
Tubing	2 3/8	4.70	J-55	220	7,246.77	54.9	7,301.7
Seat Nipple	2 3/8			1	1.10	7,301.7	7,302.8
Notched Collar	2 3/8			1	0.40	7,302.8	7,303.2

Rod Strings

Rod Description	Run Date	Set Depth (ftKB)

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)

Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

Perforations

Date	Top (ftKB)	Btm (ftKB)	Zone
8/1/2006	5,131.0	5,341.0	Mesaverde, Original Hole
6/10/2006	7,133.0	7,371.0	Dakota, Original Hole

Stimulations & Treatments

Frac #	Top Perf (ftKB)	Bottom Perf (ftKB)	AIR (bbl/min)	MIR (bbl/min)	TWP (bbl)	Total Proppant (lb)

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 19, 2009
Submit one copy to appropriate District Office

[X] AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-29658	97232	BASIN MANCOS

[4] Property Code	[5] Property Name	[6] Well Number
30320	JICARILLA APACHE	14G

[7] OGRID No.	[8] Operator Name	[9] Elevation
5380	XTO ENERGY INC.	6612'

[10] Surface Location

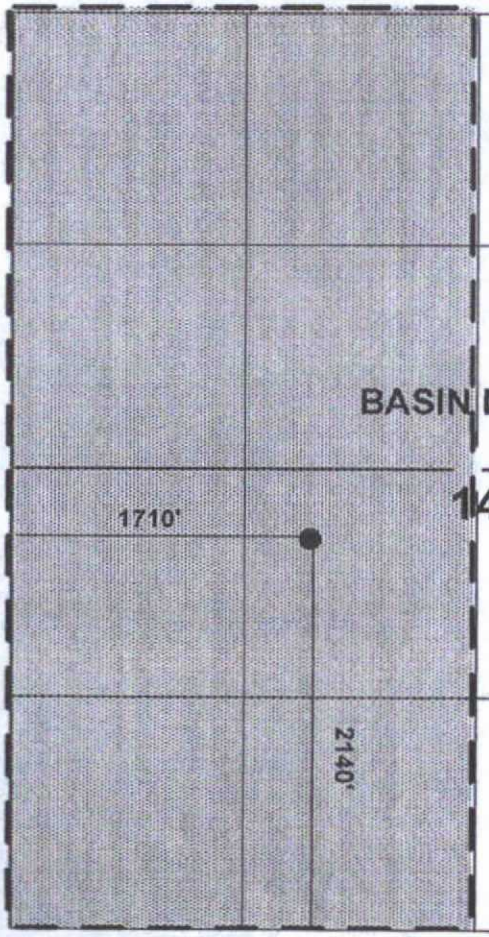
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	34	26N	05W		2140'	SOUTH	1710'	WEST	RIO ARRIBA

[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
SAME									

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
MC: 320 ACRES			

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.

Kristen Lynch
Signature

Kristen Lynch
Printed Name

KRISTEN D. LYNCH
Title

REGULATORY ANALYST
Date

2/02/2016

[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

Lynch, Kristen

From: Williams, Michael
Sent: Monday, February 08, 2016 6:52 AM
To: Lynch, Kristen
Cc: Pennington, Thomas
Subject: RE: Jicarilla Apache 14G Tops

Morning Kristen,

Below please find the formation tops for the Jicarilla Apache 14G

Formation	Depth (MD)
San Jose	Surface
Nacimiento	320'
Ojo Alamo	2386'
Kirtland	2572'
Fruitland	2722'
Pictured Cliffs	2938'
Lewis	3111'
Chacra	3836'
Cliffhouse	4578'
Menefee	4649'
Point Lookout	5164'
Mancos	5374'
Upper Gallup	6204'
Juana Lopez	6868'
Greenhorn	7050'
Graneros	7107'
Dakota	7131'
Morrison	7505'

Thanks,

Michael Williams
Geologist / Rocky Mountains Division
XTO **ENERGY** a subsidiary of ExxonMobil
810 Houston Street – Fort Worth, TX 76102
817-885-6632 (O) / 432-296-2123 (C)
Michael_Williams@xtoenergy.com

From: Pennington, Thomas
Sent: Friday, February 05, 2016 9:34 AM
To: Williams, Michael
Cc: Lynch, Kristen
Subject: Jicarilla Apache 14G Tops

Hey Mike,

Kristen needs formation tops in order to get things moving for the Jicarilla Apache 14G Organic Mancos recomplete permit. Could you please send those to her?

Thanks,
Tom Pennington
Western Division: Reservoir Engineering
Phone: 817-885-1279
Office: WTW 1508
XTO Energy an ExxonMobil Subsidiary