

DATE 4/23/03	SUSPENSE N/A	ENGINEER WVS	LOGGED IN KW	TYPE NSL	APP NO. PKRV0311427884
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

**[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]**  
**[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]**  
**[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]**  
**[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]**  
**[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]**  
**[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]**

**[1] TYPE OF APPLICATION - Check Those Which Apply for [A]**

[A] Location - Spacing Unit - Simultaneous Dedication  
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

APR 23 2003

**[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply**

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

**[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

**[4] CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note: Statement must be completed by an individual with managerial and/or supervisory capacity.**

Tim Welch Tim Welch Senior Landman 4/21/03  
 Print or Type Name Signature Title Date

tim-welch@xtoenergy.com  
 e-mail Address



April 21, 2003

Mr. Michael E. Stogner  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Federal Express**

**Re: Application for Administration Approval of Unorthodox Location  
XTO Energy Inc. Ute Indians "A" #36 Well  
Proposed Location: 932' FSL' & 845' FEL of Sec. 27-T32N-R14W  
Unit P (SE/4 SE/4) San Juan County, New Mexico**

Dear Mr. Stogner:

XTO Energy Inc., as operator of the captioned well, hereby requests approval of the following unorthodox location:

Well Name: Ute Indians "A" #36 (API # 30-045-31604)  
Pool: Barker Creek-Paradox Gas Pool  
Location: 932' FSL & 845' FEL of Section 27-T32N-R14W  
Acreage Dedication: All of Section 27, being 640 acres, more or less  
County/State: San Juan County, New Mexico  
Pool Rules: 1,650' from outer boundary of the section line and not closer than 330' to the center of the section.

Attached please find the following support and documentation for this application:

1. C-102 Plat;
2. Geologic/Geophysical Summary;
3. Paradox Production map; and
4. Ownership map.

The proposed well is located on the following lease: **Tribal "D" 14-20-604-62**. All of Section 27 is owned by XTO Energy and our partner, Burlington Resources. The three (3) adjoining 640 acre spacing units to the east, southeast and south, towards which the requested unorthodox location encroaches, are 100% owned and operated by XTO Energy Inc.; therefore, there are no other offset operators or owners to notify.

It should be noted that the NW/4 of Section 27 is included in the Barker Dome Pool. The remaining portion of Section 27 does not appear to be part of the Barker Dome or Ute Dome Pools.

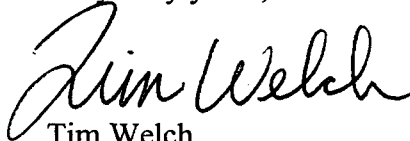
Ute Indians "A" #36  
NMOCD  
April 21, 2003  
Page 2

All of the shallower objectives in this test well (Barker Dome-Ismay Pool, Barker Dome-Desert Creek Pool & Barker Dome-Akah/Upper Barker Creek Pool) have orthodox locations.

By certified mail, a copy of this application has been sent to the parties listed below. The same parties are in agreement with our proposed location and the related APD has been approved by the BLM.

Thank you for your consideration in this matter and please call me at (817) 885-2661 if you have any questions.

Very truly yours,



Tim Welch  
Senior Landman  
XTO Energy Inc.

Enclosures

cc: Gordon Hammond  
Ute Mountain Ute Tribe  
P.O. Box 42  
Towaoc, Colorado 81334

Certified Mail

Dan Rabinowitz  
Bureau of Land Management  
15 Burnett Court  
Durango, Colorado 81301-3647

Certified Mail

Gerry Simon  
Data Consultants Incorporated  
P.O. Box 14749  
Albuquerque, New Mexico 87191

Certified Mail

## ***Ute Indians "A" #36 Geologic/Geophysical Summary***

The Ute Indians "A" #36 is a proposed 8,700' Pennsylvanian Paradox Formation test to be located 932' FSL and 845' FEL of Section 27-T32N-R14W, San Juan County, New Mexico. Although this well will be drilled in a section previously dedicated to Barker Dome Field, it will be testing the downdip structural limit of Ute Dome field and therefore, the following discussion will pertain entirely to the Ute Dome field. There is currently no Paradox production in Section 27.

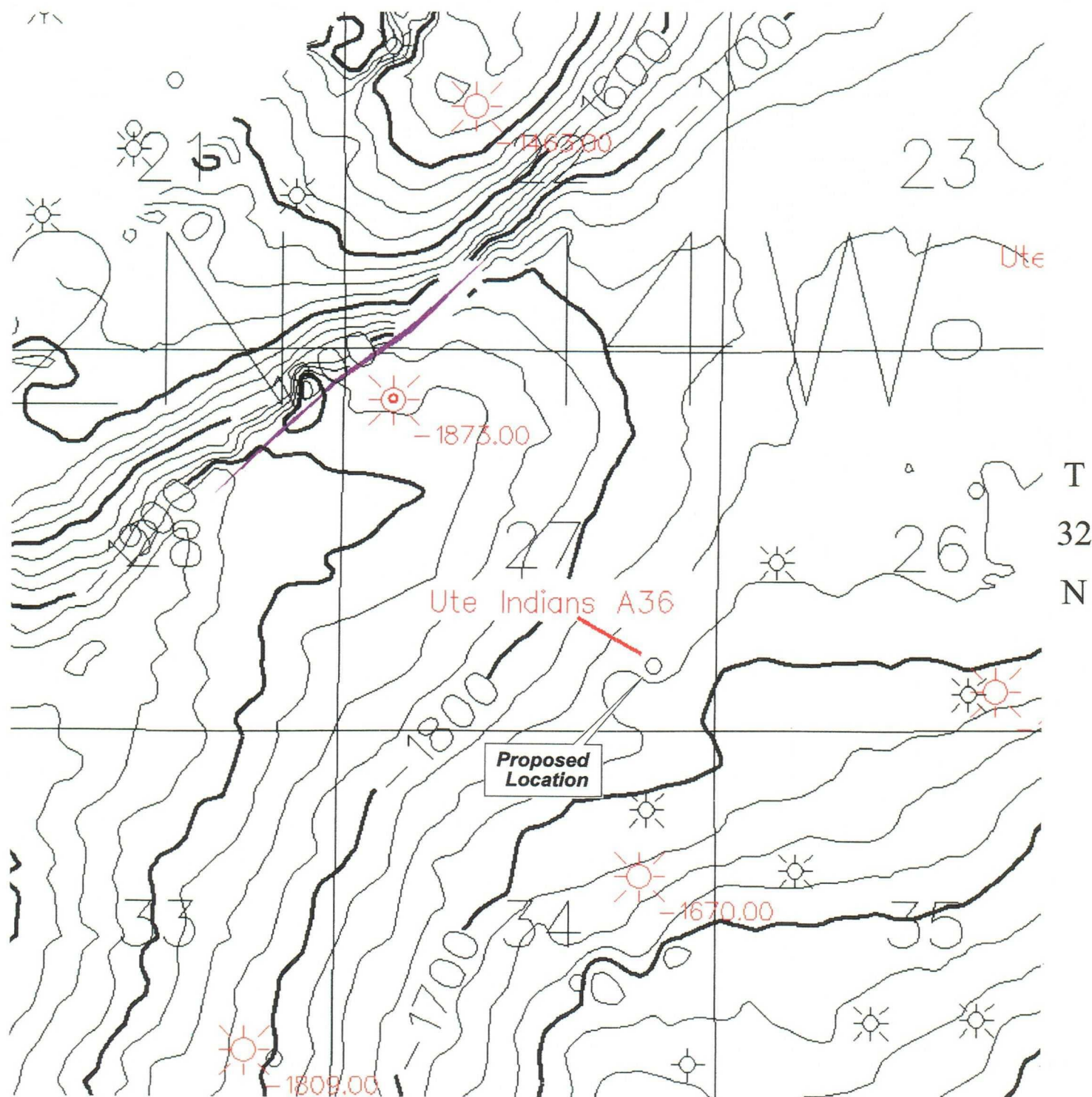
The Paradox Formation at Ute Dome is approximately 900' thick and is primarily composed of algal and fossiliferous carbonates deposited in a shallow water shelf environment. The Paradox has been subdivided into 5 members, which are, in ascending order, the Alkali Gulch, Barker Creek, Akah, Desert Creek, and Ismay. All of these members are productive at Ute Dome. Vertical communication between members appears to be negligible due unique gas/water contacts for each member.

The Ute Dome feature is a structural high formed at the crest of an asymmetrical, northeast plunging anticline. Steeper dips are found on the southern and eastern sides of the anticline, which forms the edge of the present day San Juan Basin. In 2000, XTO Energy acquired additional seismic data and merged it with the original 3-D survey shot by Amoco in 1995, extending 3-D coverage over the entire productive area of Ute Dome. The attached seismic structure map on the top of the Ismay Member was interpreted from the latest 3-D seismic survey.

Several wells along the downdip margins of the productive area have experienced problems with water encroachment. In particular, the Ute Mountain Tribal "D" #1 well in Section 10-T31N-R14W saw average production rates in 1971 plummet from 50,000 Mcf/mth to 2,000 Mcf/mth. Numerous attempts were made through the years to shut off the water production and restore gas production to economic rates. The well has since been shut-in. To maximize ultimate gas recovery and minimize water encroachment, it is imperative that any future wells be drilled as far updip on the structure as practical.

Based on seismic and well data, a well at the proposed location would be structurally flat to the Ute Mountain Tribal "D" #1 and would be approximately 75' high to the Ute Mountain Tribal "K" #1 in Section 33-T32N-R14W at the Ismay level. An unorthodox location is requested in order to get as structurally high as possible, thereby reducing the risk of encountering water which would seriously affect the performance of the well.

R 14 W



**UTE DOME**  
*Ute Indians "A" #36 New Drill*  
SE/4 Section 27 T32N - R14W  
San Juan County, New Mexico

**TOP OF ISMAY  
STRUCTURE MAP**

Contour Interval: 25'

Date: April, 2003



**XTO ENERGY INC.**

BURLINGTON  
UTE 14  
22 28873  
0 395  
4904- 0209  
PRDX

32N 14W

BURLINGTON  
UTE MNTN UTE 50  
0 59  
0 0  
9811- 0002  
PRDX

BURLINGTON  
UTE 011  
11 12726 21  
0 0  
4503- UNKN  
PRDX

22

23

EL PASO  
UTE 017  
0 28  
0 0  
5009- UNKN  
PRDX

28

27

26

UTE INDIAN A  
36  
LOC ○  
XTO  
PROPOSED WELL

XTO  
UTE INDIANS A 11  
0 616  
0 58  
7905- 0210  
PRDX

XTO  
UTE INDIANS A 8  
0 10781  
0 503  
7111- 0210  
PRDX

33

34

35

BP AMERICA  
UTE MNTN TRIBAL K 001  
0 4574  
0 0  
6605- 7303  
PRDX

XTO  
UTE INDIANS A 4  
0 6740  
0 134  
4809- 0210  
PRDX

#### WELLS W/PRODUCTION

Operator  
Well Name & Number  
Cum Oil MBO ● Cum Gas MMCF  
Curr Rate Bopd Curr Rate Mcfd  
Start-End Date  
Formation

#### BARKER CREEK PARADOX

#### UTE DOME PARADOX

#### XTO ENERGY

SAN JUAN COUNTY, NEW MEXICO  
9 SECTION 27-32N-14W  
PARADOX PRODUCERS

Jane Foster

B. Voigt

4/21/2003

Scale 1:24000.

1" = 2000'

273214PX.GPF



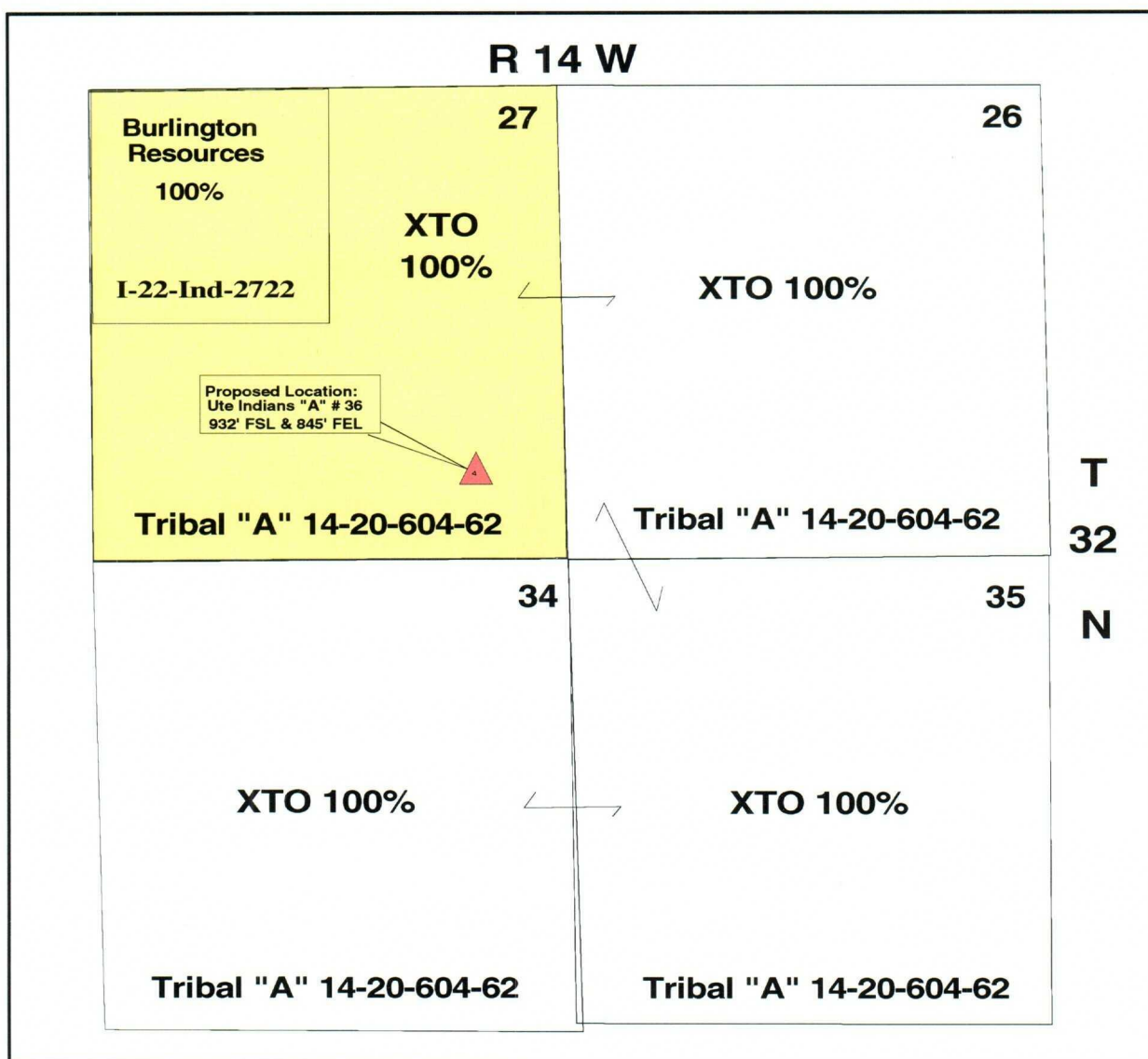
**OWNERSHIP MAP FOR Barker Creek - Paradox Gas Pool**  
**UTE Indians "A" # 36**

STATE: New Mexico COUNTY: San Juan

PROSPECT: 640 Acre Gas Spacing (Barker Creek - Paradox Gas Pool) DATE: April 21, 2003

SECTION: 27 TOWNSHIP: 32 N RANGE: 14 W

SCALE: 1" = 2000'



First, Artesia, N.M. 88210

III  
Rio Brazos Rd., Aztec, N.M. 87410DISTRICT IV  
340 South Pacheco, Santa Fe, NM 87505

## OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, NM 87505Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
<sup>4</sup> Property Code	<sup>5</sup> Property Name UTE INDIANS A	<sup>6</sup> Well Number 36
<sup>7</sup> GRID No.	<sup>8</sup> Operator Name XTO ENERGY INC.	<sup>9</sup> Elevation 5983'

<sup>10</sup> Surface Location

UL or lot no. P	Section 27	Township 32-N	Range 14-W	Lot Idn	Feet from the 932	North/South line SOUTH	Feet from the 845	East/West line EAST	County SAN JUAN
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<sup>11</sup> 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
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<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

				<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature _____  Printed Name _____  Title _____  Date _____	
				<b>18 SURVEYOR CERTIFICATION</b> 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 and correct to the best of my belief.  8-23 Date of Survey Signature and Seal of Professional Surveyor 8894- Certificate Number	

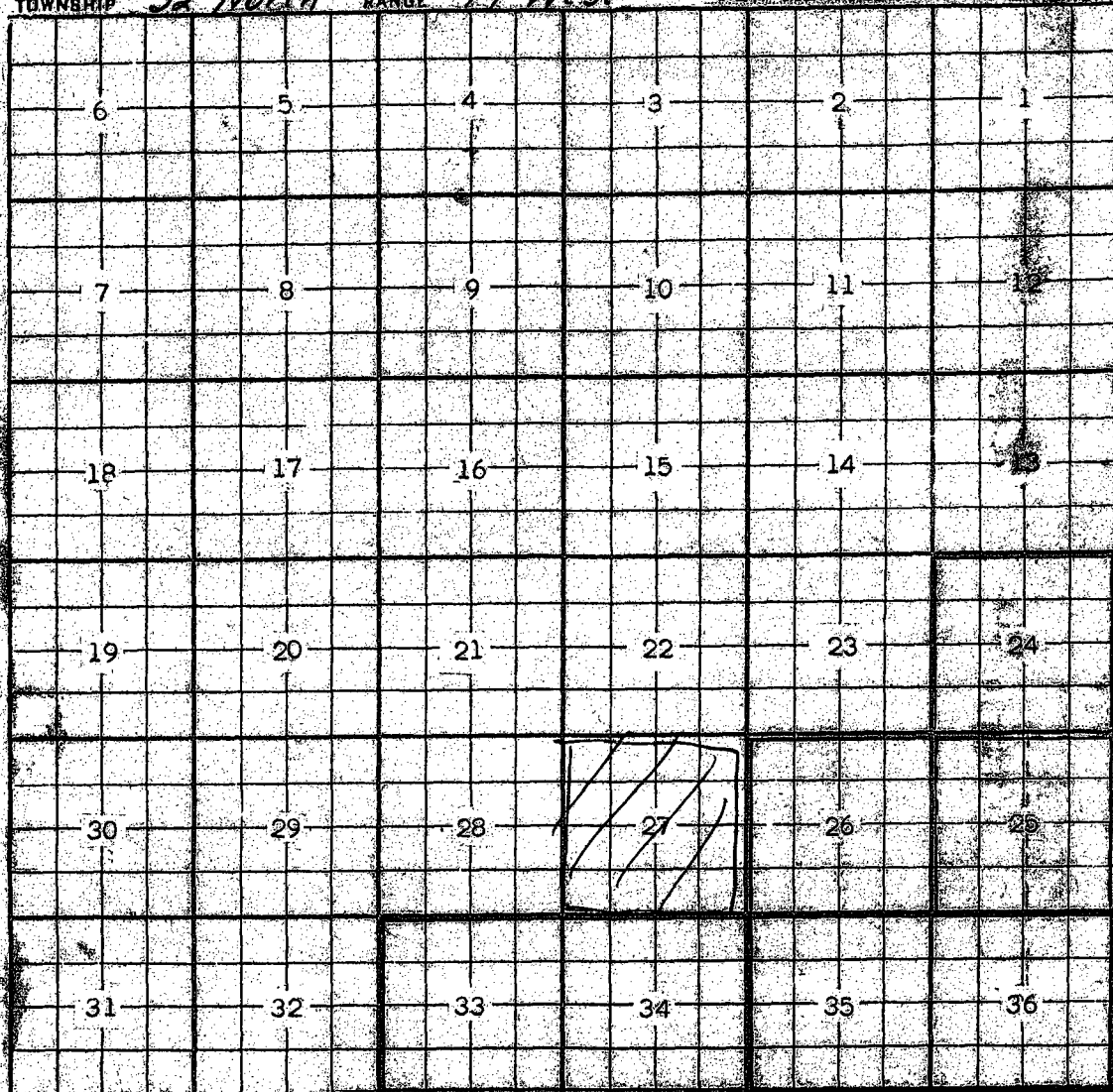


County San Juan

Pool

Ute Dome - Paradox

TOWNSHIP 32 North RANGE 14 West NEW MEXICO PRINCIPAL MERIDIAN



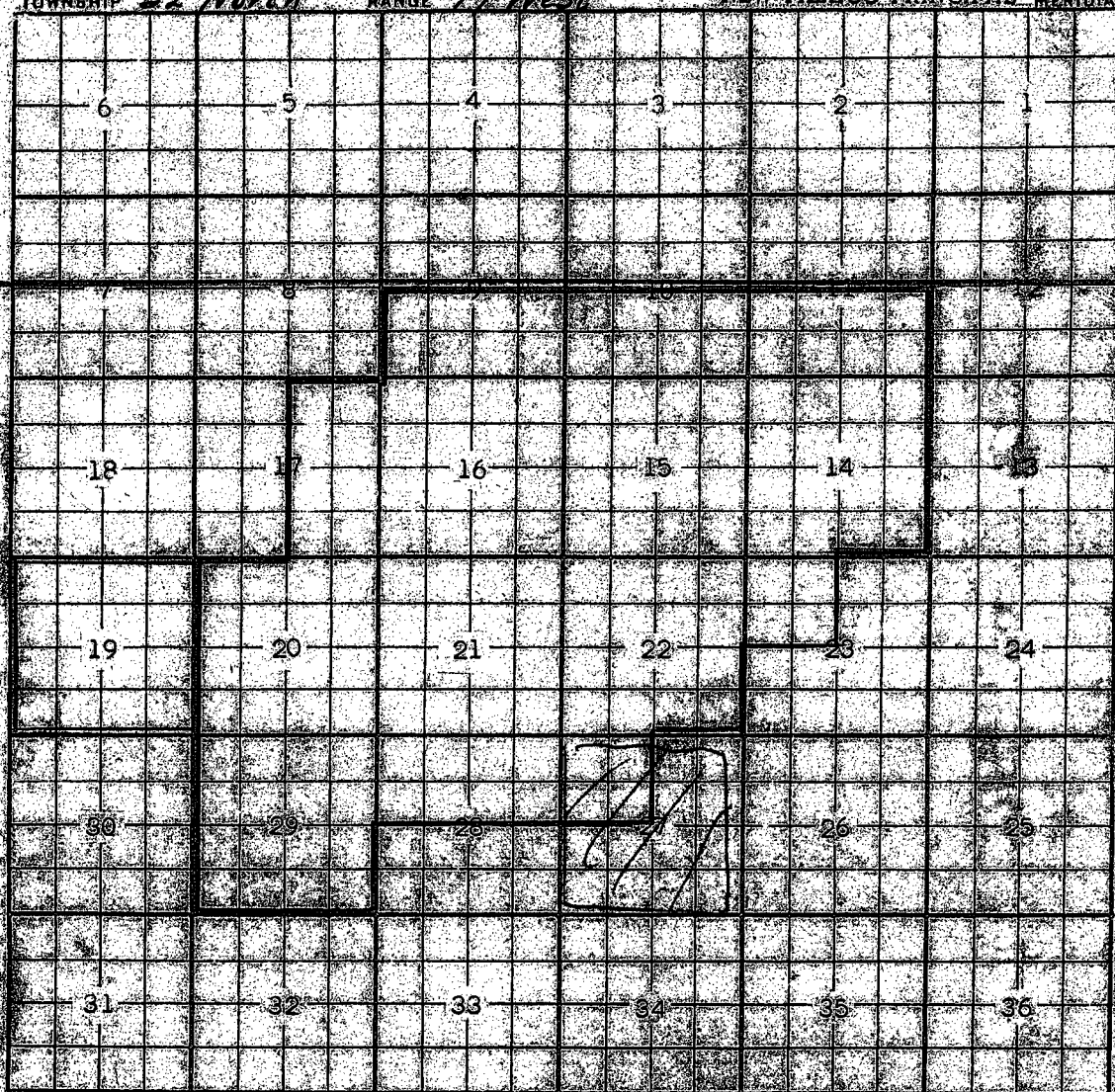
Description: All Sec 35 & 36 (R-13, 3-15-50)

Ext: All Secs 33 & 34 (R-4692, 5-1-72). Ext: All Sec 25 (R-4690, 12-1-73)

Ext: All Secs 24 & 26 (R-5772, 7-1-78)

County San JuanPool Barker Dome - ParadoxTOWNSHIP 32 NorthRANGE 14 West

NEW MEXICO PRINCIPAL MERIDIAN

Colo.  
N.M.Colo.  
N.M.

Description: All Sec. 9, 10, 11, 14, 15 & 16; E 1/2 Sec. 17; All Sec. 20, 21 & 22;  
NW 1/4 Sec. 23; NW 1/4 Sec. 27; N 1/2 Sec. 28; All Sec. 29.

Exc.: All Sec. 19 (R-G-66, 8-1-80)

Contract vertical limits to include only the Lower Barker Creek  
and Alkali Gulch intervals at Paradox formation and redesignate  
Barker Creek-Paradox Pool as Barker Dome-Paradox Pool (R-46-A, 2-13-95)

CMD : ONGARD 05/07/03 15:09:06  
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPM5

OGRID Idn : 167067 API Well No: 30 45 31604 APD Status(A/C/P): A  
Opr Name, Addr: XTO ENERGY, INC. Aprvl/Cncl Date : 03-21-2003  
2700 FARMINGTON AVENUE  
BUILDING K, SUITE 1  
FARMINGTON,NM 87401

Prop Idn: 22645 UTE INDIANS A Well No: 36

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
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Surface Locn :	P	27	32N	14W			FTG 932 F S	FTG 845 F E
OCD U/L :	P		API County :	45				

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): G Cable/Rotary (C/R) : R  
Lease typ(F/S/P/N/J/U/I): U Ground Level Elevation : 5983

State Lease No: Multiple Comp (S/M/C) : S  
Prpsd Depth : 8700 Prpsd Frmtn : UTE DOME PARADOX

I6504:UNLT IS IN TRACT U00. ENTER DATA TO MODIFY.  
PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM  
PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12