



**Cross Timbers Oil Company**

NSL 5/25/99  
MAY - 5 1999  
BUREAU OF LAND MANAGEMENT

May 3, 1999

Bureau of Land Management  
San Juan Resource Area  
701 Camino Del Rio  
Durango, Colorado 81301  
Attention: Mr. Dan Rabinowitz

Re: Application for Unorthodox Location  
Ute Dome Dakota Pool and Morrison Sandstone  
Ute Indians A #29  
SW/4 Section 36-32N-14W  
San Juan County, New Mexico

Gentlemen:

Cross Timbers Operating Company hereby requests approval of the following unorthodox location:

Well Name:	Ute Indians A #29
Pool:	Ute Dome Dakota and Morrison Sandstone formation
Location:	1,510' FSL & 2,100' FWL
Acreage Dedication:	SW/4 Section 36-32N-14W, containing 160 acres, more or less
County/State:	San Juan County, New Mexico
Pool Rules:	790' from lease lines and quarter section lines

Attached is the following support and documentation for said application:

1. C-102 Plat
2. Geologic discussion
3. Copy of certified letter sent to offset operators/owners (None)
  - A. Plat of offset operators
  - B. List of offset operators

We look forward to your approval and please call me at (817) 877-2336 with any questions.

Yours very truly,

Edwin S. Ryan, Jr.

04/19/99 10:53

915 657 0862

CROSS TIMBERS

FW LAND

002/002

PO Box 1990, Hobbs, NM 88241-1990

State of New Mexico  
Energy, Minerals & Natural Resources DepartmentForm C-10  
Revised February 21, 1997  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 CopiesDistrict II  
PO Drawer 00, Artesia, NM 88211-0719OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088District III  
1000 Rio Brazos Rd., Aztec, NM 87410District IV  
PO Box 2088, Santa Fe, NM 87504-2088☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

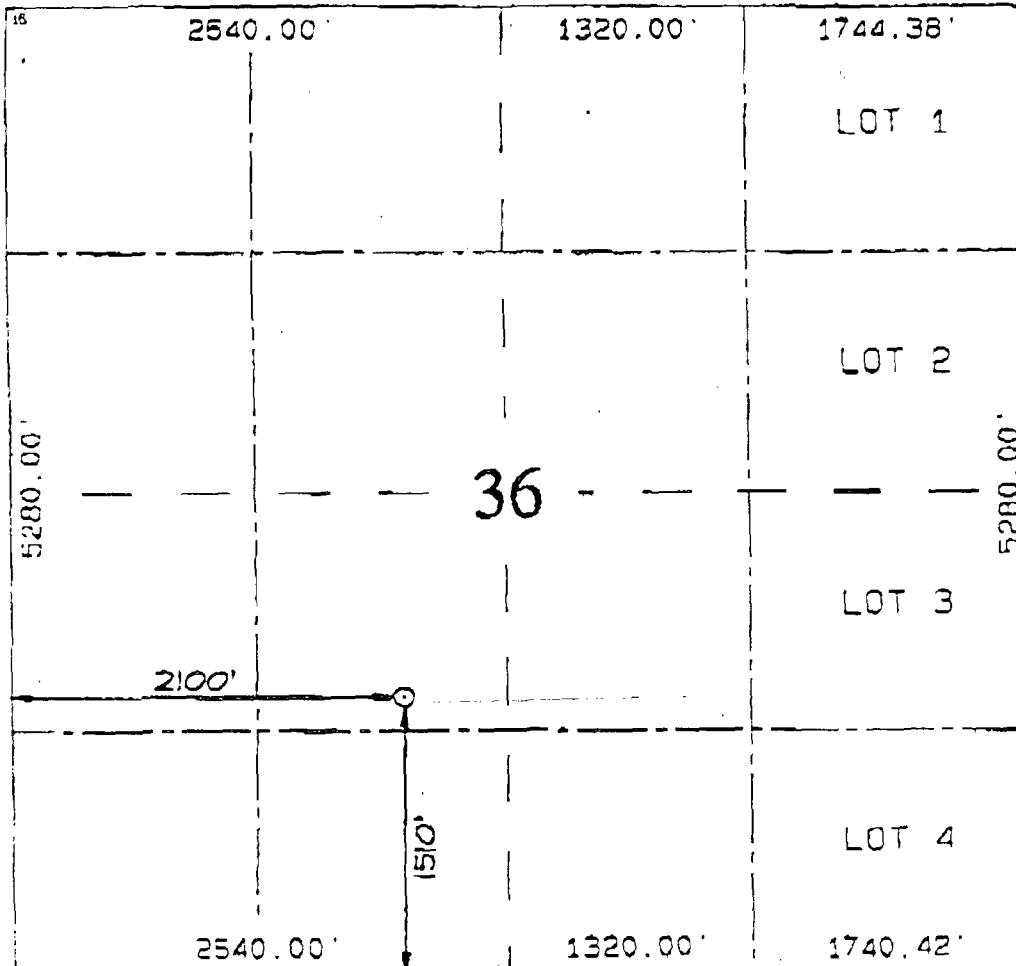
*API Number	*Pool Code 86720	*Pool Name UTE DOME DAKOTA
*Property Code	*Property Name UTE INDIANS A	*Well Number 29
*OGRID No. 167067	*Operator Name CROSS TIMBERS OPERATING COMPANY	*Elevation 6165'

## 10 Surface Location

UL or lot no.	Section	Township	Range	Lot 101	Feet from line	North/South line	Feet from line	East/West line	County
K	36	32N	14W		1510	SOUTH	2100	WEST	SAN JUAN

## 11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 101	Feet from line	North/South line	Feet from line	East/West line	County
*Dedicated Acreage	*Joint or Infill	*Dedication Code	*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 and complete to the best of my knowledge and belief.

Signature

Gary L. Markestad

Printed Name

Vice-President / Production

Title

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 and correct to the best of my belief.

MARCH 29, 1999

Date of Survey

Signature and Seal of Professional Surveyor

  
Certification Number 6857

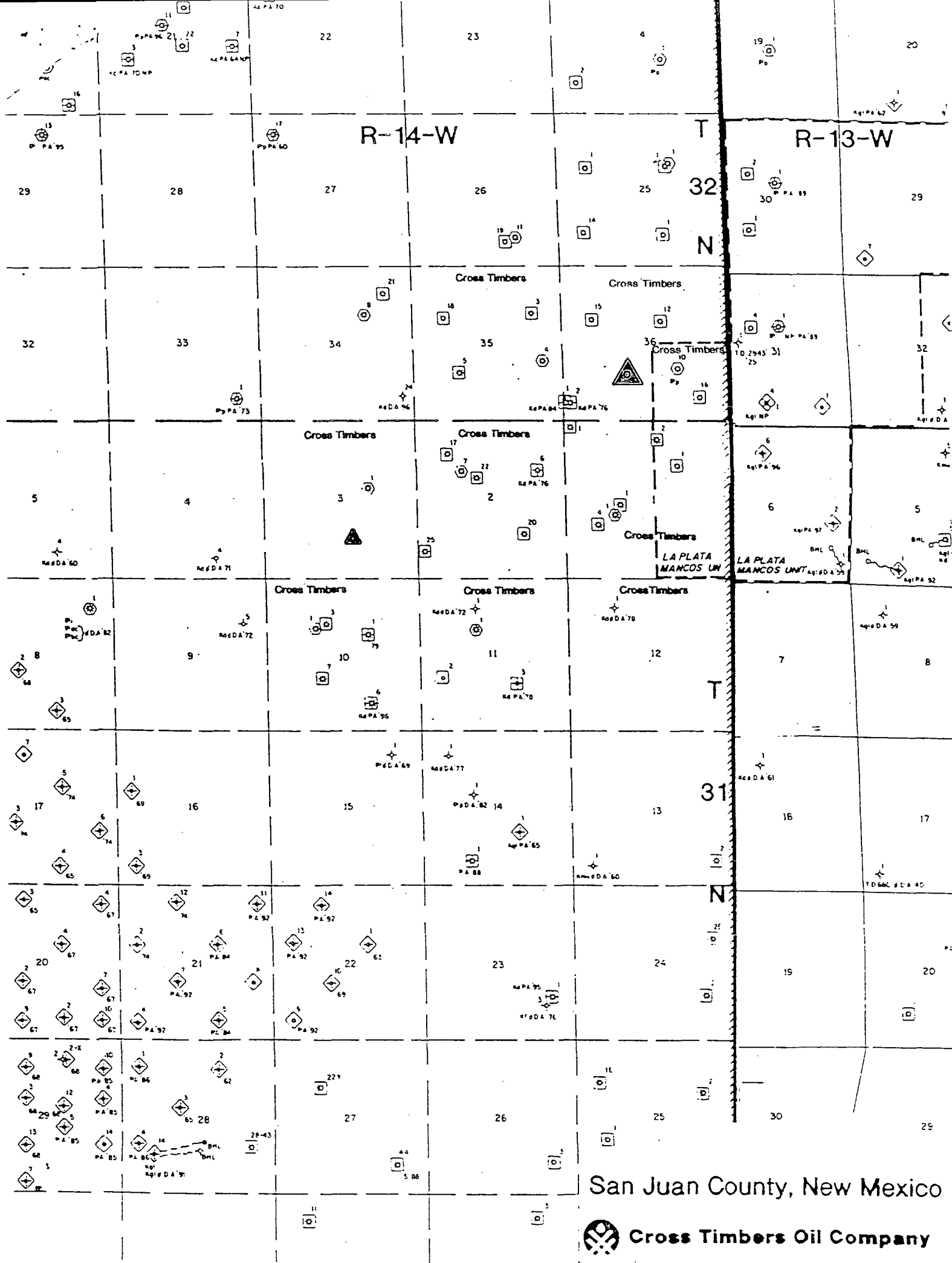
UTE INDIANS "A" #29  
GEOLOGIC SUMMARY

The Ute Indians "A" #29 is a proposed 2700' Dakota test to be located 1510' FSL and 2100' FWL of Section 36-T32N-R14W. There are currently active Dakota wells in the NW¼, NE ¼ and SE¼ of Section 36. The discovery wells for the Ute Dome Dakota field, the Ute Indian "A" #1M36 and the Southern Ute #2-30X, both drilled in 1921, are in the SWSW of Section 36. Last production from these wells was in 1984, and they are both plugged. Production records for both wells suggest that the vast majority of their production came from the Burro Canyon Sandstone, which lies unconformably just below the base of the Dakota Formation. The Burro Canyon Ss. is not a primary objective of the proposed well.

The primary objective of this well is to test the lower Dakota fluvial sandstones which are sinuous in nature and generally oriented in a N-S or NNE-SSW direction across Ute Dome. These sands are known to develop thicknesses of 50 ft. or more in sections to the south and up to 49 ft. in Section 25 to the north. These sands are either poorly developed or thin in the existing wells within Section 36. Geologic mapping indicates that the axis of maximum sand thickness for the 4<sup>th</sup> Dakota Ss. should extend N-S through the E½W½ of Section 36, and for the 5<sup>th</sup> Dakota Ss. should extend from SW-NE through the S½ of Section 36.

The placement of the proposed well in an unorthodox location is based on a combination of 1) defining an area most likely to encounter both the 4<sup>th</sup> and 5<sup>th</sup> Dakota Sandstones, while being near the axis of maximum thickness for the 4<sup>th</sup> Dakota Ss.; 2) selecting a location far enough away from existing or previous wells to minimize depletion factors, and; 3) finding a topographically suitable surface location where a well pad can be built relatively inexpensively and without unnecessary damage to the environment. The proposed location satisfies all 3 of the above conditions.

*Larry K. Burch*  
*April 28, 1999*



San Juan County, New Mexico



Cross Timbers Oil Company

## OFFSET OPERATORS/OWNERS

Cross Timbers Oil Company, Applicant, is the only offset operator.

cc: ☐ Lori Wrotenbery, Director  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

NMCOD - Aztec District Office  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Offset Operators - None

Gary Burch

Ute Mountain Ute Tribe  
P.O. Box 248  
Towaoc, Colorado 81334  
Attention: Gordon Hammond

Bureau of Indian Affairs  
Ute Mountain Ute Agency  
P.O. Box KK  
Towaoc, Colorado 81334

Bobby Smith - CTOC Midland

Barry Voigt

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

05/18/99 09:41:33  
OGOMES -TPFE  
PAGE NO: 1

Sec : 36 Twp : 32N Rng : 14W Section Type : NORMAL

D      U00 40.00 ***	C      U00 40.00 ***	B      U00 40.00 ***	A      U00 40.00 ***
Indian owned	Indian owned	Indian owned	Indian owned
E      U00 40.00 ***	F      U00 40.00 ***	G      U00 40.00 ***	H      U00 40.00 ***
Indian owned	Indian owned	Indian owned	Indian owned

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION05/18/99 09:41:39  
OGOMES -TPFE  
PAGE NO: 2

Sec : 36 Twp : 32N Rng : 14W Section Type : NORMAL

L      U00 40.00 ***  Indian owned	K      U00 40.00 ***  Indian owned	J      U00 40.00 ***  Indian owned	I      U00 40.00 ***  Indian owned
M      U00 40.00 ***  Indian owned	N      U00 40.00 ***  Indian owned	O      U00 40.00 ***  Indian owned	P      U00 40.00 ***  Indian owned

PF01 HELP  
PF07 BKWDPF02  
PF08 FWDPF03 EXIT  
PF09 PRINTPF04 GoTo  
PF10 SDIVPF05  
PF11PF06  
PF12



County San Juan Pool Ute Dome - Dakota

TOWNSHIP 31 North RANGE 14 West NEW MEXICO PRINCIPAL MERIDIAN

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Description: All Sec. 1 & 2 (R-13, 3-15-50)

Ext: All Sec 10 & 11 (R-4690, 12-1-73)

COUNTY *San Juan*POOL *Ute Dome - Dakota*TOWNSHIP *32 North*RANGE *13 West*

NMFM

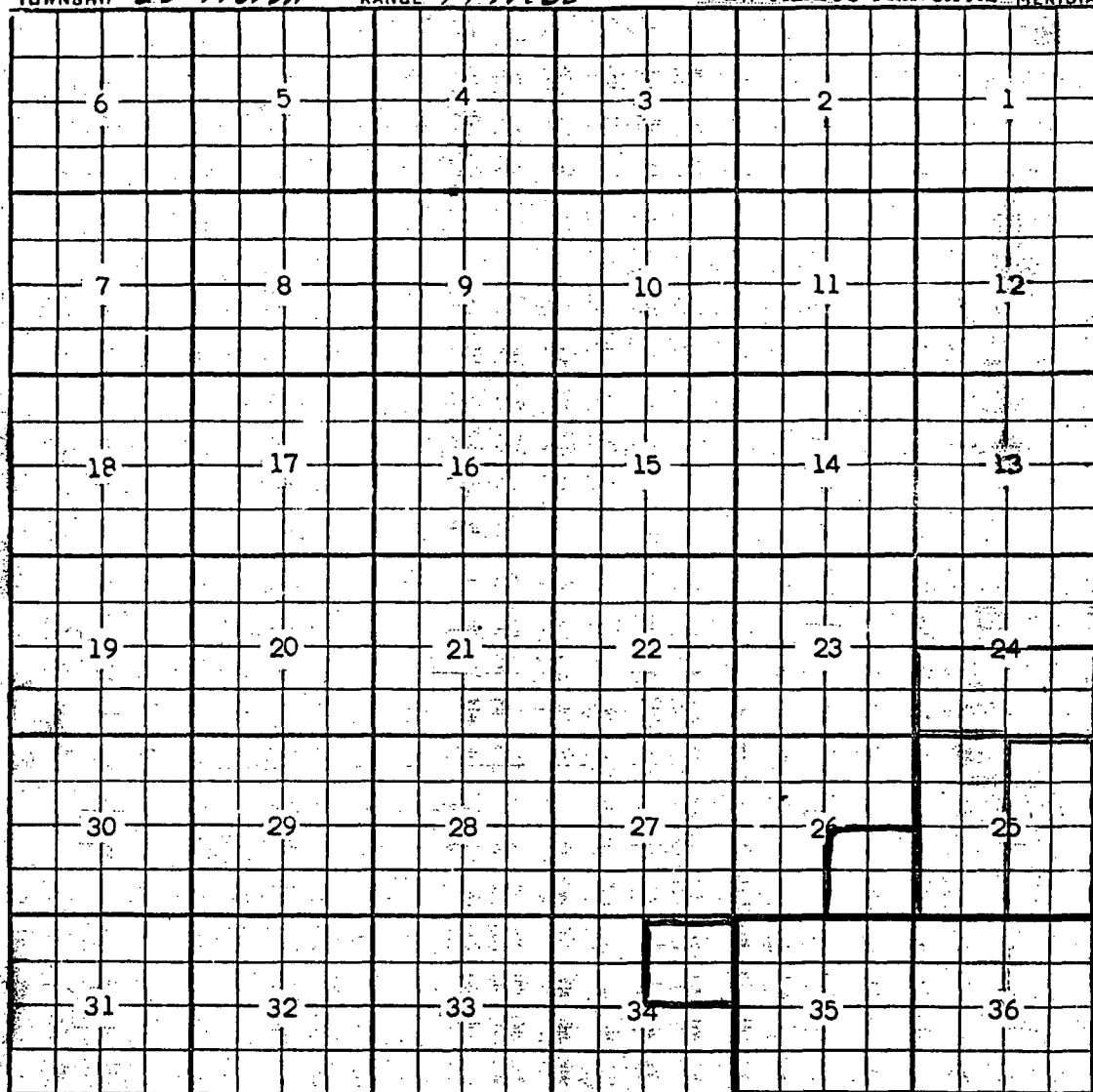
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Ext:  $\frac{SW}{4}$  Sec 30 (R-5339, 2-1-77) EXT:  $\frac{N}{2} + \frac{SE}{4}$  Sec. 30 (R-6056, 8-1-79)

Ext:  $\frac{N}{2}$  Sec 31 (R-7046, 8-6-82)

County San Juan Pool Ute Dome - Dakota

TOWNSHIP 32 North RANGE 14 West NEW MEXICO PRINCIPAL MERIDIAN



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

Ext. E 1/2 Sec 25 (R-4690, 12-1-73) Ext. 1/2 Sec 24 (R-5779, 8-1-78)

Ext. W 1/2 Sec. 25 (R-6327, 5-1-80) Ext. SE 1/4 sec 26, NE 1/4 sec 34,  
(R-6886, 1-22-82)