NSL 12/9/98



November 16, 1998

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 Paradox Pool Ute Mountain Tribal J #7 Section 12-31N-14W San Juan County, New Mexico NOV 1 9 1998

Gentlemen:

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

Well Name:	Ute Mountain Tribal J #7
Pool:	Ute Dome Paradox
Location:	575' FNL & 625' FWL
Acreage Dedication:	Section 12-31N-14W, containing 640 acres, more or less
County/State:	San Juan County, New Mexico
Pool Rules:	1,650' from lease 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
 - 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 & Lyon, JR.

Edwin S. Ryan, Jr.

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

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

Offset Operators

Gary Burch

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Bobby Smith - CTOC Midland

Barry Voigt

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UTE MOUNTAIN TRIBAL "J" #7 GEOLOGIC/GEOPHYSICAL SUMMARY

The Ute Mountain Tribal "J" #7 is a proposed 8700' Pennsylvanian Paradox Formation test to be located 575' FNL, and 625' FWL of Section 12-T31N-R14W, San Juan County, New Mexico. There is currently no Paradox production in Section 12.

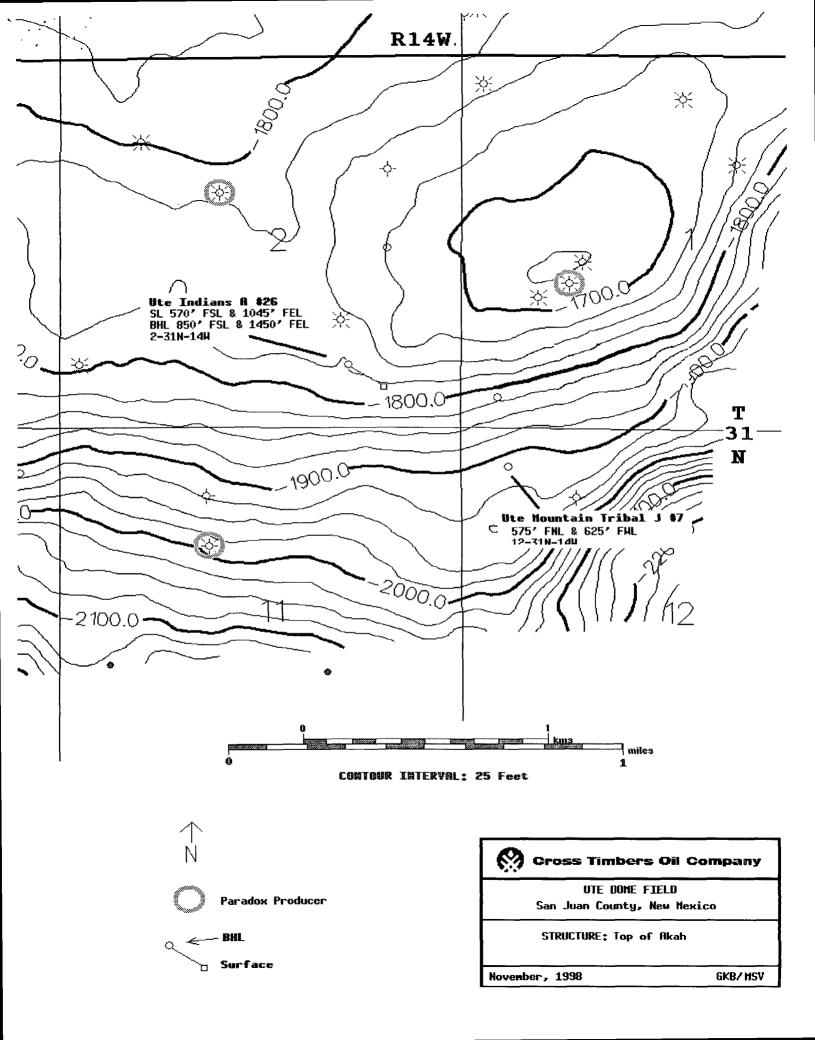
The Paradox Formation at Ute Dome is approximately 700 ft. thick and composed mostly of algal and fossiliferous carbonates deposited in a shallow water, shelf environment. The Paradox has been subdivided into 5 members, which are, in ascending order, the Alkali Gulch, Barker Creek, Akah, Desert Creek and Ismay. All of these members are productive at Ute Dome. It is implied by Neil Whitehead (1993) that there is no natural vertical communication between the various members of the Paradox, as each appear to have their own unique gas/water contact.

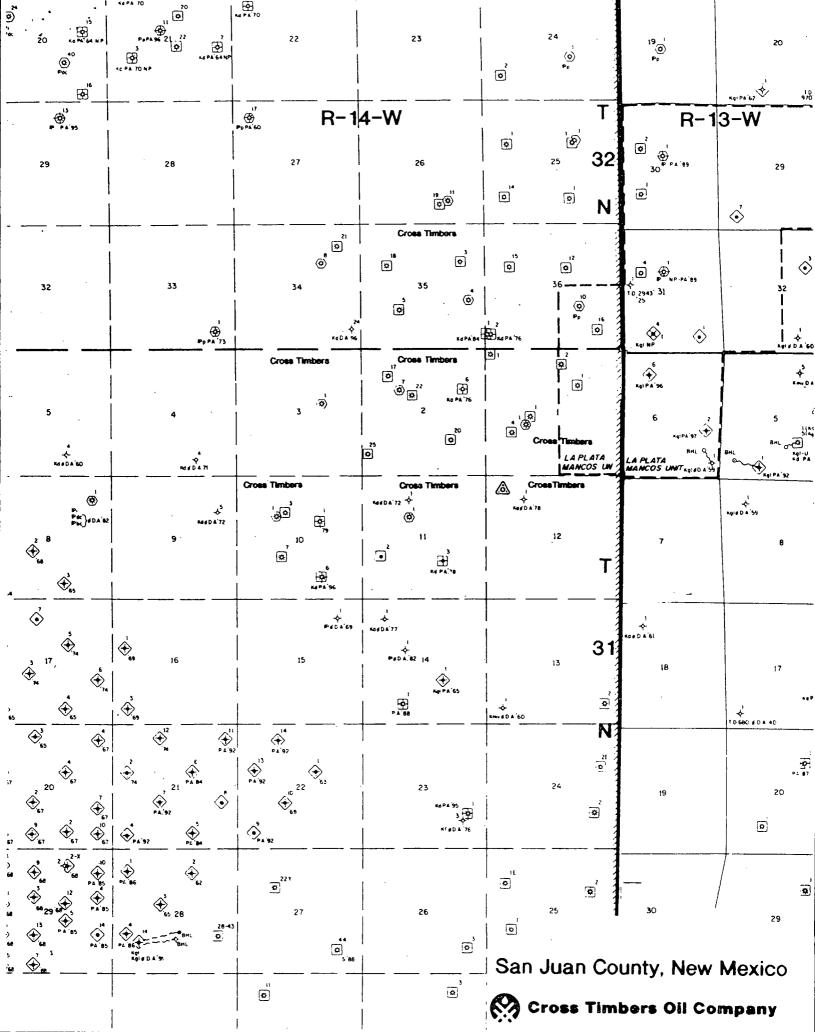
The Ute Dome feature is a structural high formed at the crest of an asymmetrical, northeast plunging anticline. Steeper dips are found on the southern and eastern sides of the anticline, which forms the edge of the present day San Juan Basin. The attached seismic structure map on the top of the Akah Member was interpreted from a vibroseis 3-D seismic survey shot by Amoco in 1995, and reprocessed by Cross Timbers in 1998.

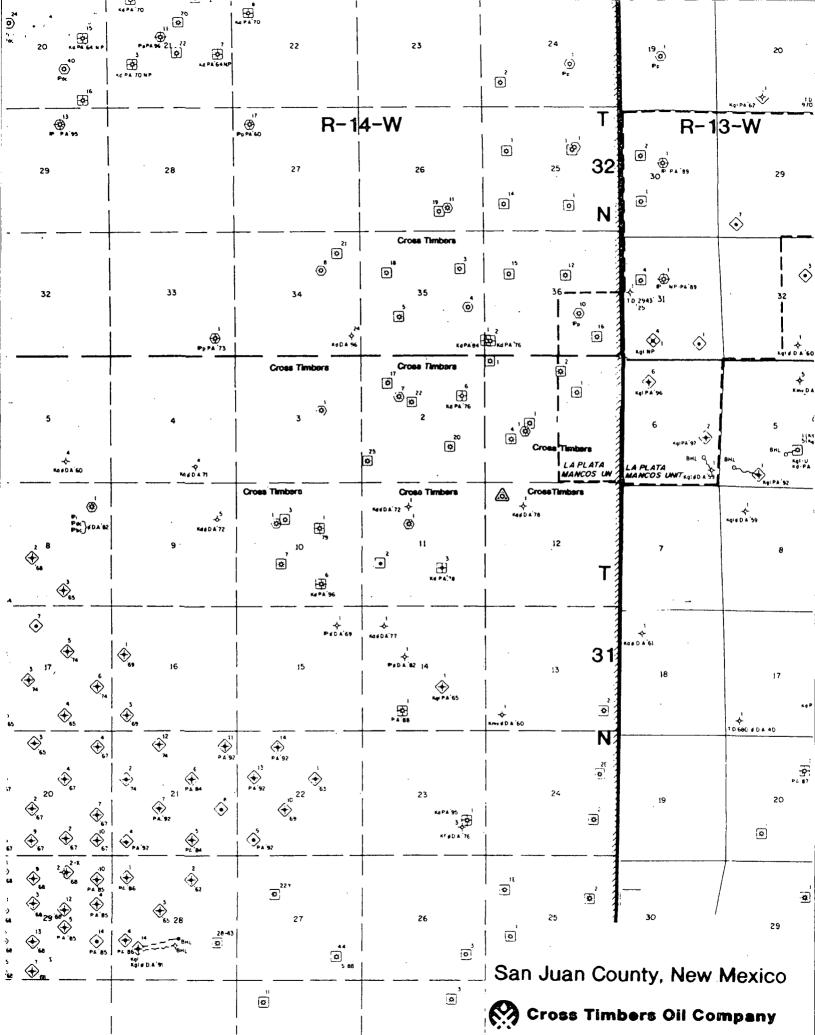
Several wells around the downdip margins of the productive area have experienced problems with water encroachment. In particular, the Ute Mountain Tribal "D" #1 well in Section 10 saw production rates in 1971 plummet from over 50,000 MCF/month to around 2000 MCF/month. Numerous attempts were made through the years to shut off the water production and get the gas rate back up to where it should be according to its previous decline rate, but all were unsuccessful. To avoid this problem, it is imperative that any future wells be drilled as far updip on the structure as practical.

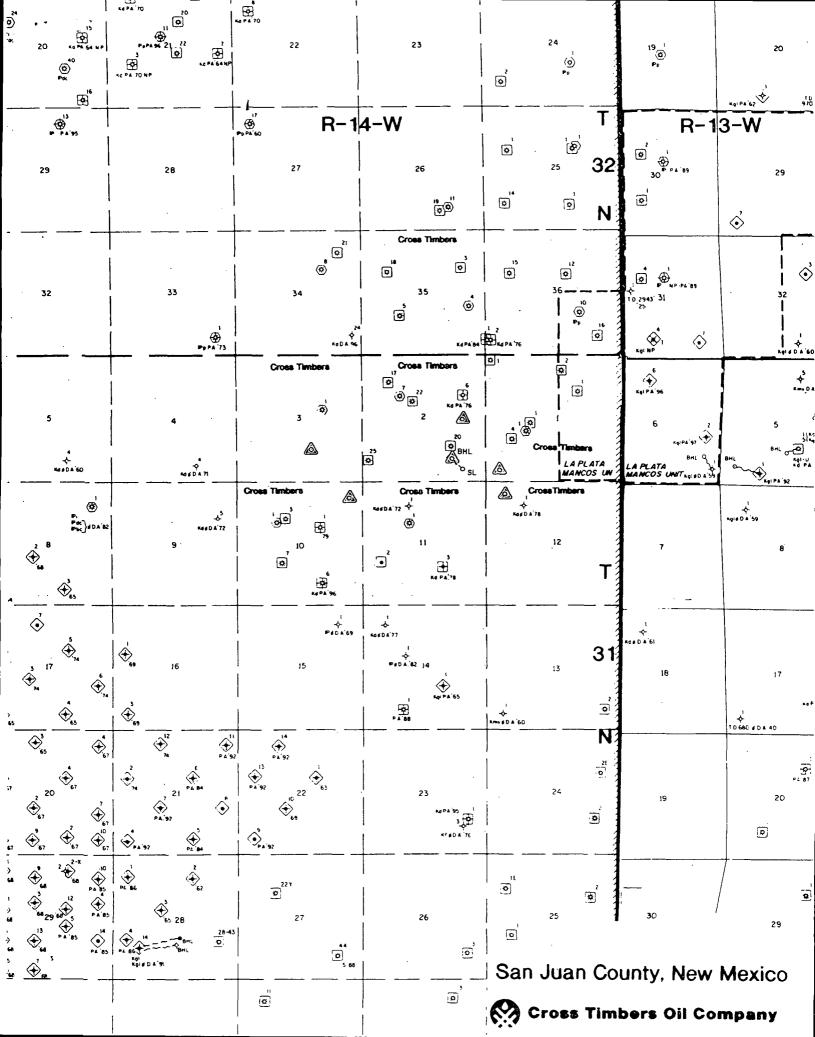
Structural mapping in conjunction with production data such as shown above places approximately 80-100 acres of the NW¹/₄ of Section 12 above the expected gas/water contacts in the various members of the Paradox Fm. At the Akah level, a well at the proposed location would be approximately 85 ft. high to the Ute Mountain Gas Com "M" #1 well in Section 11 and 90 ft. high to the Ute Mountain Tribal "D" #1 well in Section 10. An unorthodox location is requested in order to get as structurally high as possible, thereby greatly reducing the risk of encountering water which would seriously affect the performance of the well.

Dany K. Buch Nov 13 1998









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