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July 18, 1988

Mr. David Catenach
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Subject: Application for Authorization to Inject
ARCO Oil & Gas Company's Wimberly WN #1
Justis Field, Lea County, New Mexico

As you requested, attached is a Blinebry structure map of the area in which our Wimberly WN #1 is located. The Grayburg structure overlies the Blinebry and should have similar relief. Hendrix's Wimberly 1, which is approximately 2700' to the east of ARCO's Wimberly WN #1, was a deep test that encountered both the San Andres and the Blinebry. The following tabulates the expected and actual formation tops in our well and Hendrix's well.

	ARCO Wimberly WN #1 <u>Expected Tops (SS)</u>	Hendrix Wimberly 1 <u>Actual Tops (SS)</u>
San Andres	-525'	-409'
Blinebry	-2055'	-1944'

The estimated tops for the Wimberly WN #1 are derived from our nearby #10 well. Based on this analysis, the relief between the subject well and the Hendrix well is approximately 111' in the Blinebry and 116' in the San Andres. Our well is down structure from Hendrix's well. The current disposal wells in the area (operated by Rice) are on a vacuum. We expect to dispose of water from our operations into the Grayburg on a vacuum too. Also, water should move by gravity drainage down structure away from Hendrix's well and should not be a hazard to his operations.

If you have any further questions, please call me at 915-688-5355.

Richard S. Prentice

R. S. Prentice
Senior Engineer

RSP:ls

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