

The subject well was drilled as the L&B Oil Company, Inc., State "AJ" Well No. 1 and is located in Unit G, 2310 feet from the north and east lines of Section 33, Township 18 South, Range 36 East, Lea County, New Mexico. It was drilled to a total depth of 12,164 feet to the Devonian formation as an oil and gas test. It was spudded on 12/17/82 and plugged and abandoned on 2/17/83. Surface casing is 13 3/8" set at 373 feet with 400 sxs. cement circulated and 8 5/8" intermediate casing set at 5000 feet with 2300 sxs. cemented circulated.

Applicant proposes to re-enter, drill out cement plugs and clean out to the total depth of 12,164 feet. Acid will be used to treat those intervals of good porosity as indicated on the electric log. Plastic lined 2 7/8" tubing will be utilized in the well and will be used in conjunction with a packer to be set at approximately 4950 feet. The annular space above the packer will be filled with an inert fluid and a pressure guage installed to detect any tubing or packer leaks.

The disposal system will be an open system with facilities available for truck delivery. Initial injection of 2000 barrels per day is anticipated with a maximum volume of 10,000 barrels per day. The well should handle these volumes by gravity. However, an injection pressure of 2430 psi is requested for the well.

The primary injection zone is the Devonian from 12,136 to 12,162 feet. The Devonian in the well is a limestone with vuggy porosity and good indicated permeability. During periods of high injection rates the fluid level may be high enough in the well bore wherein fluids may enter other zones as well. The electric log indicates zones of good porosity and permeability in the Mississippian, Wolfcamp, and Abo which could take water if the fluid level is high enough in the well bore. These formations are also predominately limestone interbedded with shale and minor amounts of sandstone. The depth and thickness of these formations is as follows:

Abo	7434'	1286'
Wolfcamp	9384'	627'
Mississippian	11309'	634'

There are no known wells within the one-half mile area of review.

Analysis of the receiving fluid will be accomplished upon completion of the well. Compatibility tests will be conducted on all fluids to be injected prior to injection of those fluids.

The only fresh water in the area is found in the Ogallala formation. The base of the fresh water is around 280 feet. After examining the available geologic and engineering data, there is no evidence of open faulting or any other hydrolic connection between any disposal zones and any underground source of drinking water. Fresh water samples from nearby wells have been analyzed and are attached as part of this application.

Copies of this application have been furnished to the surface owner and to all leasehold operators within one-half mile of the well, address list attached.

RETURNED TO SENDER POLLUTION 4	
CASE NO. 8817	