

- c. East Bagley Unit #1
1980' FNL & 1980' FEL
Sec.6,T.12S.,R.34E.
Penn Formation--9956-9993'
See attached analysis.

- (5). Chlorides in the water produced by the above-mentioned wells range from 55,437 to 62,514 parts per million. A water sample from the proposed injection zone in the subject well is not available, but chlorides are expected to be in a range compatible with the produced water. Chlorides measured in a drill stem test sample taken from the Sand Springs Devonian interval in the nearby Petroleum Reserves Corp. Tenneco State No. 1 well in Unit P Sec.2,T.11S.,R.34E. were 45,000 parts per million. Chlorides in the Bagley Siluro-Devonian Field are reported as 24,500 parts per million in the Roswell Geological Society's "1956 Symposium of Oil and Gas Fields in Southeastern New Mexico."

The proposed injection zone is not included within the vertical limits of any established pool.

VIII. Geological data:

Injection zone: 13360-13500'

Devonian

100% Dolomite: Light tan to white, fine to coarse crystalline, slightly siliceous.
Contains excellent vuggy and intercrystalline porosity.
There may be a nonpermeable, finely crystalline limestone layer at the top of the Devonian or within the Dolomite.

The underground source of drinking water in this area is Ogallala formation of Tertiary age, the base of which is estimated at 100' at the location of the proposed disposal well. There are no other probable fresh water aquifers in this area.

- IX. The planned completion program is to selectively perforate and stimulate with acid within the proposed injection interval 13360-13500'.
- X. Electric logs have been submitted to the NMOCD, Hobbs District Office by the original operator, Earl T. Smith and Associates. Copies of new logs run by Yates Petroleum Corporation will also be filed with the NMOCD Hobbs District Office.
- XI. The New Mexico State Engineer records show seven water well locations within a one-mile radius of the subject well. Locations are given on the next page. During a joint field reconnaissance by representatives of surface landowner, Bogle Farms, and Yates Petroleum only one of the wells could be found. This well, located in Unit L Sec.24,T.11S.,R.34E., is capped.