

MEWBOURNE OIL COMPANY
APPLICATION FOR AUTHORIZATION TO INJECT
FEDERAL "E" NO. 9
LEA COUNTY, NEW MEXICO

VIII. *Geologic Data*

Lithology - Permian, Guadalupian

Queen (3870'-3894')

Sandstone: Red, translucent to transparent, very fine to medium grained, consolidated and unconsolidated, friable, well rounded.

Queen (3894'-3905')

Sandstone: Gray, clear, very fine grained consolidated and unconsolidated, friable.

Penrose (4120'-4152')

Sandstone: Clear, frosted, gray, very fine grained, consolidated and unconsolidated, siliceous matrix; some frosted medium grains, unconsolidated, well rounded.

Penrose (4202'-4208')

Sandstone: Clear, consolidated, very fine grained, friable.

Fresh water aquifers (above 300') Triassic.

IX. *Stimulation Program:*

A non-emulsifying, iron sequestering acid will be used when necessary to maintain injectivity. Perforation density will be increased as dictated by injection pressures.

X. *Logs on file with OCD.*

XI. *No producing fresh water wells within one mile.*

XII. *Available Geological and Engineering Data have been examined and no evidence of open faults or any other hydrologic connection between the Disposal Zone and any underground sources of Drinking Water have been found.*

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C. C. C.
HOBBS OFFICE