

SUPPLEMENT TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT

III. Well Data: See attached Injection Well Data Sheet.

VI. The only well within a 1/2 mile radius of the proposed injection well is Union Texas Petroleum's Post #1. The well was completed as a Devonian oil well on January 17, 1983. The C-105 is attached which shows the construction, date drilled, location, depth and record of completion.

VII. Data on proposed operation:

1. Estimated average daily rate	2000 BWPD
Estimated average daily volume	1000 BWPD
Estimated maximum daily rate	3000 BWPD
Estimated maximum daily volume	3000 BWPD

2. The system is closed.

3. Estimated average injection pressure 500 psi
Estimated maximum injection pressure 1200 psi*

* Not to exceed fracture pressure of the reservoir

4. & 5. Analysis of Devonian water to be disposed of is attached. Compatibility tests cannot be performed since the San Andres reservoir is non productive in the area and no record of water analysis can be found. However, Cabot Corporation's WD #1 Johnny is currently disposing of produced Devonian water into the San Andres and Glorieta reservoirs in Section 1, T-14-S, R-37-E. No compatibility problems between waters has been noticed.

VIII. The proposed injection interval of 4661' to 6750' consists of the San Andres and Glorieta reservoirs.

The San Andres reservoir consists of dolomite filled with anhydrite and some chert with a top at 4625' (-787 S.S.) and a bottom at 6150' (-2312 S.S.) The Glorieta reservoir is a dolomite with interbedded sandstone and anhydrite with a top at 6150' (-2312 S.S.) and a bottom at 6782' (-2944 S.S.)

The deepest fresh water (10,000 mg/l or less solids) overlying the proposed zone of injection is the top of the Triassic at approximately 300'. The Santa Rosa (located to a depth of 2050' is not believed to be potable in the area.

IX. The well will be stimulated with 15% HCl (if required) to remove near wellbore damage caused by drilling operations.

X. No logging programs are planned. The Heidel #1 has a GR-Elec-SP log dated 2-18-1958 which should be on file with the Division.

XI. A chemical analysis of water taken from two fresh water wells within one mile of the proposed well is attached. Also attached is a map showing the location of the fresh water wells from which the samples were taken.

XII. Union Texas Petroleum Corporation has examined engineering and geologic data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.