

Geo-Ject Inc. is a wholly owned subsidiary of EMPAK, Inc.



TEXAS WATER COMMISSION

Stephen F. Austin State Office Building
Austin, Texas

PERMIT NO. WDW-157

COMMERCIAL WASTE
DISPOSAL WELL

PERMIT to conduct underground

injection under provisions of

Chapter 27, Texas Water Code

- I. Name of Permittee: Geo-Ject, Incorporated
A. Name: Geo-Ject, Incorporated
2000 West Loop South
B. Address: Suite 1800
Houston, Texas 77027

II. Type of Permit: Regular XX Amended

III. Nature of Business:

Commercial Waste Disposal Well

IV. General Description and Location of Injection Activity

The disposal well will be used to dispose of industrial wastes from various sources. The well will be located on company property approximately 13,200 feet north of the south line and 1,275 feet west of the east line of the George Ross Survey, Abstract 646, Harris County, Texas. The well is located on property adjacent to the Houston Ship Channel approximately one mile southwest of the San Jacinto Monument. Injection will be into the Basal Frio Formation in the approximate subsurface interval from 6,800 feet to 7,500 feet.

CONTINUED on Pages 2 through 9.

The permittee is authorized to conduct injection activity in accordance with limitations, requirements and other conditions set forth herein. This permit is granted subject to the rules of the Department, other Orders of the Commission and the laws of the State of Texas. This permit is valid until amended or revoked by the Commission.

APPROVED, ISSUED AND EFFECTIVE this 9th day of October, 1979.

ATTEST:

Mary Ann Zepher

For the Commission

SAL 000019849

2. Long String Casing Hole

- a. Spontaneous Potential and Resistivity Log
 - b. Gamma-Ray Log (Full Hole)
 - c. Caliper Log
 - d. Cement Bond Log after casing is set and cemented.
- D. The surface casing shall be tested to 1,000 psi for 30 minutes and the long string casing shall be tested to 1,500 psi for 30 minutes.
- E. After completion of the well, injectivity tests shall be performed to determine the well capacity and reservoir characteristics. Surveys shall be performed to establish preferred injection zones. Prior to performing injectivity tests, the bottom hole pressure, bottom hole temperature, and static fluid level shall be determined and a sample of formation water obtained and analyzed.

VII. Character of the Waste Streams

The industrial waste so permitted to be injected shall consist of the following waste streams:

- A. Pesticide wastes,
- B. Caustic wastes,
- C. Spent metallic wastes,
- D. Organic wastes,
- E. Spent acids,
- F. Waste oils and solvents.

VIII. Injection Rates and Volumes

- A. The rate of injection shall not exceed 300 gallons per minute.