

APPLICATION FOR AUTHORIZATION TO INJECT

III. Well Data

- A. (1) Exxon Federal No. 2, Section 9, T-26-S, R-32-E, 660' FWL & 705' FSL, Lea County, New Mexico.
- (2) Casing: 8 5/8" 24# @ 1389' and cemented with 450 sx. Cement circulated. Set in 12 1/4" hole.
5 1/2" 15.5# @ 4545' and cemented with 150 sx.
Cement top @ 3800'. Set in 7 7/8" hole.
- (3) Tubing will be 2 7/8" 6.5# J-55 set @ 4500'.
- (4) Packer will be Baker Model "R" Production Packer.
- B. (1) Injection zone: Delaware sand (Ramsey zone)
North Mason Delaware Field
- (2) Injection interval: 4482' to 4502'. Perforated 1 shot/ft.
- (3) Well drilled for production and was a dry hole.
- (4) No other zones perforated.
- (5) None.

- VII. (1) 200 barrels daily (average). 400 barrels maximum.
- (2) Open system.
- (3) Gravity to 50#.
- (4) Produced Delaware formation water.
- (5) Re-injection of formation water into productive zone.

- VIII. (1) Lithologic detail: Fine grain silt sandstone with 20% porosity and low permeability.
- (2) Name: Delaware sand.
- (3) Thickness: 68'
- (4) Depth: 4482' to 4550'.
- (5) No known fresh water in the area.

- IX. (1) No stimulation required.

- X. (1) Well logs attached. Production test recovered salt water with some oil and gas. Well produces 100% water.

- XI. (1) No producing water wells in area.

- XII. (1) We find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

- XIII. (1) Proof of Notice completed.