Application for Authorization to Inject

- Original Order No. R-7766 - Effective 12/27/84
  Authorized injection within unitized interval
- C-108 Form for expansion of existing project
  - Notification of offset operators
  - Notification of landowners
  - Public notice published
  - Wellbore diagrams of offset wells
  - Wellbore diagrams & procedures for proposed conversions

BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No. 12320 Exhibit No. 6
Submitted by:
Chevron U.S.A. Production Co.
Hearing Date: March 2, 2000

Application for Authorization to Inject Cont.

- Wellbore diagrams indicate adequate casing and cement to prevent migration of injected fluids from injection zone into any other zone or to the surface. (Reg.702)
- Wellbore diagrams showing proposed construction
  - Plastic coated injection packer set within 100 ft of injection interval
  - Internally plastic coated tubing
  - Backside loaded with corrosion inhibitor fluid

Application for Authorization to Inject Cont.

- Mechanical Integrity Test (MIT) to be performed initially & every five years thereafter unless warranted - 300 PSI for 30 min
- Injection rate - 1500 BWIPD max., 750 BWIPD avg.
- Injection pressure - 750 PSI max., 650 PSI avg.
  - Below fracture gradient (≈0.267 PSI/ft) and below 0.2 PSI/ft gradient
  - If necessary, step-rate tests will be performed for the purpose of increasing injection pressure.
- Injection rates and pressures are regulated by manual chokes and monitored by SCADA.

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- Fluid-In/Fluid-Out ratios (FI/FO) for injection patterns will be maintained at ≈ 1.2 in order to increase reservoir pressure and achieve fill-up.
- Injection profiles will be run after stabilized injection rates and pressures have been reached to ensure injection is within the target zones. Profiles will be run every 3 yr. thereafter unless warranted.
- Injection will also be monitored by zone based on the HCPVI. Processed zones will be squeezed if economical.