

P. MONITORING PROGRAM

No monitor well program is required for the two wells. A schematic of the well annulus monitoring system is included as Figure P1i for EGT's Wells #1-12 and #2-12. The annulus monitoring systems are identical.

The annulus monitoring system uses diesel or hydraulic oil or suitable equivalent as a carrier fluid to avoid freezing. Pressure transducers located at the wellhead on the injection stream and on the annulus will send continuous pressure readings to the computer. The computer will maintain an average pressure differential of 150 psi or more with the annular being the higher pressure. The computer will automatically start up an electric pump to add differential or open an actuated relief valve to reduce differential. If these actions ever prove ineffective in controlling the differential pressure, the computer will shut down the injection pumps and send an alarm to the operator. The differential changes programmed to trigger these actions will be varied to accommodate smooth and safe operation, but a low differential shutin and alarm will always be set at or above 100 psi.

Continuous monitoring will chart and store in data form the following:

- Injection Pressure
- Annulus Pressure
- Tank Level (annular system)
- Injection Volume
- Injection Rate
- pH

Continuous monitoring for the purpose of permit compliance will include an automated control system that will utilize injection pressure, annulus pressure, calculated differential pressure, and annulus tank level data at a minimum frequency of once every 5 seconds to assess well conditions and control the alarm and shut-down system. Continuous monitoring for the purpose of permit compliance will include a device that stores digital data and/or chart recorders that update and store discreet data points for injection pressure, annulus pressure, differential pressure, annulus fluid level, injection rate, and pH at a minimum frequency of once every 30 seconds. If these continuous monitoring capabilities are not available due to power or equipment failure, the wells will be secured in a shut-in condition, and manual readings of injection pressure, annulus pressure, differential pressure, and annulus tank level will be recorded in a log book or other suitable format on a frequency of not less than one data point every four (4) hours for each well monitoring parameter until the continuous monitoring system(s) are repaired