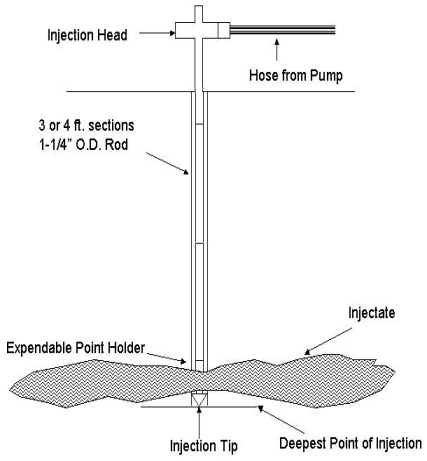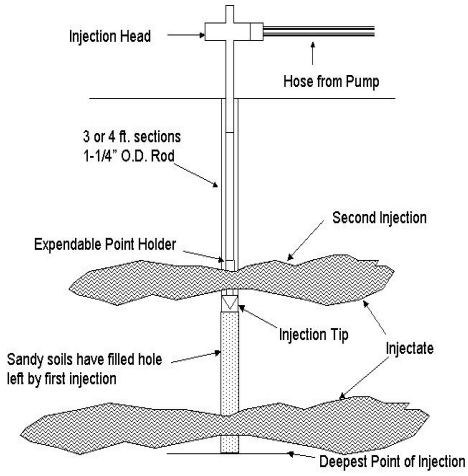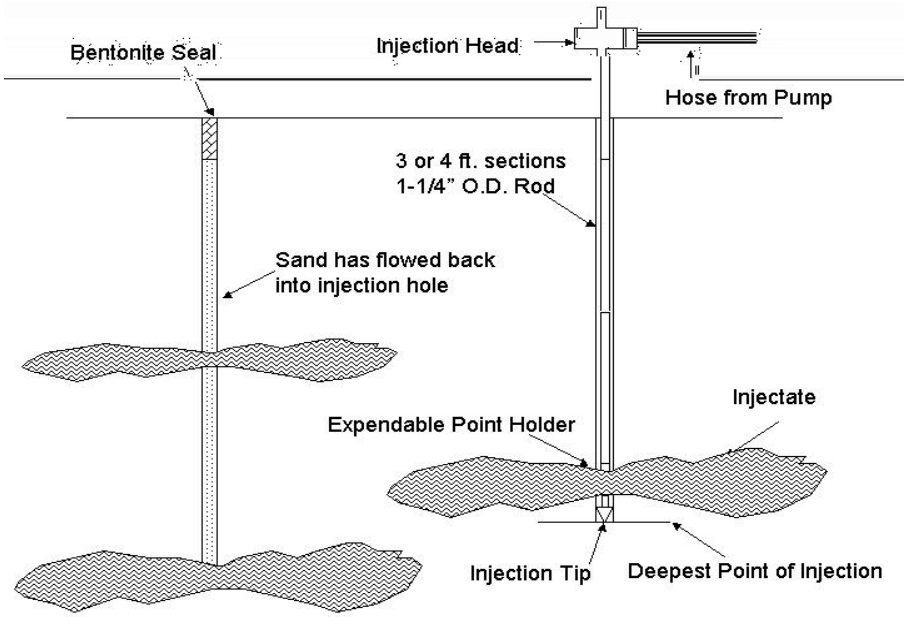Bottom-Up Injection Pattern