

SUMMARY OF REQUIREMENTS

CLASS VI OPERATING AND REPORTING CONDITIONS

Elk Hills A1-A2 Storage Project

Facility Information

Facility name: Elk Hills A1-A2 Storage Project
357-7R & 355-7R

Well location: Elk Hills Oil Field, Kern County, CA
35.32802963 / -119.5449982

Table 1. Injection Well Operating Conditions

PARAMETER/CONDITION	LIMITATION or PERMITTED VALUE	
	355-7R	357-7R
Maximum Injection Pressure - Surface	2990 psi	2993 psi
Maximum Injection Pressure - Bottomhole	6260 psi	6281 psi
Annulus Pressure	3820 psi	3834 psi
Annulus Pressure/Tubing Differential	1397 psi	1531 psi
Maximum CO ₂ Injection Rate	15 mmscfpd	15 mmscfpd

The maximum injection pressure was determined using the 0.82 psi/ft fracture gradient obtained from well 327-7R-RD1 multiplied by 0.9, per 40 CFR 146.88(a).

Routine Shutdown Procedure

For injection shutdowns occurring under routine conditions (e.g., for well workovers), the permittee will reduce CO₂ injection at a rate of 130 tons per day over a 6-day period to ensure protection of health, safety, and the environment. Procedures that address immediately shutting in the well are in the Emergency and Remedial Response Plan of this permit.

Reporting requirements

Below tables summarize the reporting requirements for 355-7R, 357-7R and the A1-A2 storage project.

Table 2. Class VI Injection Well Reporting Requirements

ACTIVITY	REPORTING REQUIREMENTS
CO ₂ stream characterization	Semi-annually
Injection pressure, injection rate, injection volume, pressure on the annulus, and annulus fluid level	Semi-annually
Corrosion monitoring	Semi-annually
External MITs	Within 30 days of completion of test
Pressure fall-off testing	In the next semi-annual report

Note: All testing and monitoring frequencies and methodologies are included in the Testing and Monitoring Plan of this permit.

Table 3. Class VI Project Reporting Requirements

ACTIVITY	REPORTING REQUIREMENTS
Groundwater quality monitoring	Semi-annually
Plume and pressure front tracking	In the next semi-annual report
Monitoring well MITs	Within 30 days of completion of test
Financial responsibility updates	Within 60 days of update

Note: All testing and monitoring frequencies and methodologies are included in the Testing and Monitoring Plan of this permit.