Class VI Operating and Reporting Conditions

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SCS ENGINEERS

Capio Sherburne CCS Well No. 1 | January, 2023

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CLASS VI OPERATING AND REPORTING CONDITIONS

Facility Information

Facility Name: Capio Sherburne Sequestration, LLC
Well Name: Capio Sherburne CCS Well No. 1

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Well location: Sherburne Wildlife Management Area (WMA)
Pointe Coupee Parish, Louisiana
30.521385, -91.718429

Table 7-1. Injection Well Operating Conditions

Parameter/Condition	Limitation or Permitted Value
Maximum Injection Pressure - Surface	1,750 psi
Maximum Injection Pressure - Bottomhole	3,524 psi
Annulus Pressure	up to 1,950 psi
Annulus Pressure/Tubing Differential	150 to 200 psi (above surface injection pressure)
Maximum CO_2 Injection Rate	3,020 tons per day
Maximum Temperature	144°F

Injection pressure will be monitored at the wellhead by permanently installed pressure transducers (PTs). Distributed Fiber Optic Sensors (DFOS) deployed along the outside of the long string casing will continuously monitor pressure, temperature, and strain along the casing string and at the bottomhole. DFOS deployed in monitoring wells will continuously monitor changes in the subsurface as described in Section 8 - Testing and Monitoring Plan.

The maximum injection pressure, which serves to prevent confining-formation fracturing, was determined using the fracture gradient of 0.7 multiplied by 0.8, per 40 CFR 146.88(a). The maximum injection pressure at the wellhead (the delivery pressure) will be approximately 1,450 psi, and the maximum bottom of hole pressure will be approximately 3,100 psi, less than the limitation values reported above.

Routine Shutdown Procedure

For injection shutdowns occurring under routine conditions (e.g., for well workovers), the permittee may gradually reduce the injection rate of CO_2 as warranted to ensure the protection of health, safety, and environment. Procedures that address immediately shutting in the well are included in Section 11 - Emergency and Remedial Response Plan.

Table 7-2. 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 Section 8 - Testing and Monitoring Plan.

Table 7-3. Class VI Project Reporting Requirements

Activity	Reporting Requirements
Groundwater quality monitoring	Semi-annual reporting
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
Surface air and/or soil gas monitoring	In the next semi-annual report

Note: All testing and monitoring frequencies and methodologies are included in Section 8 - Testing and Monitoring Plan.