

UIC CLASS VI GEOLOGIC STORAGE OF CO₂ PERMIT APPLICATION

Loving CCS Hub

Loving County, Texas

Section 8: Injection Well Plugging Plan

[40 CFR §146.92]

Prepared for:

EPA Region 6

Underground Injection Control Section

1201 Elm Street, Suite 500 | Dallas, Texas 75270



Prepared and submitted by:

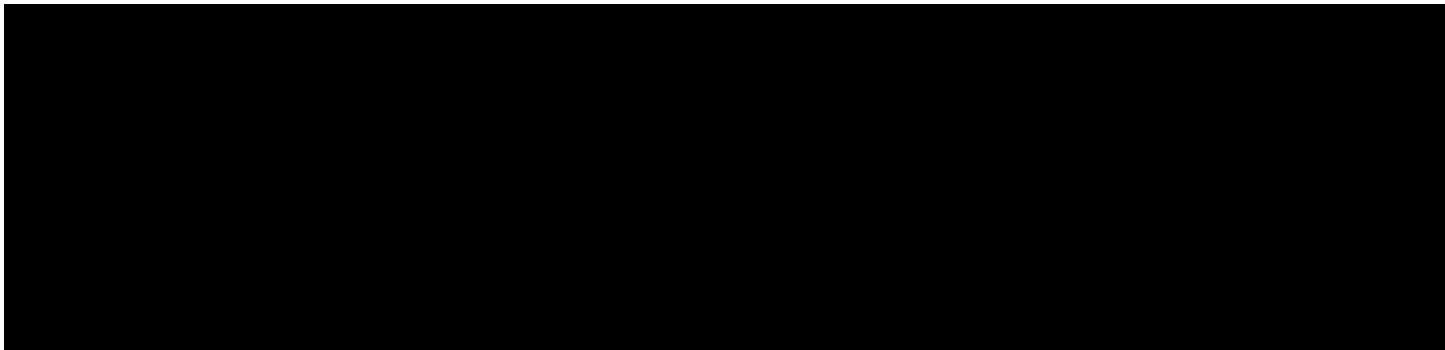
Milestone Carbon Delaware CCS Hub, LLC

840 Gessner Rd, Suite 600
Houston, Texas 77024

1 August 2024

Table of Contents

8.0	INJECTION WELL PLUGGING PLAN [40 CFR 146.82(a)(16), 146.92]	3
8.1	Planned Tests / Measures to Determine Bottomhole Reservoir Pressure [40 CFR 146.92(b)(1)]	3
8.2	Planned External Mechanical Integrity Test(s) [146.92 (b)(2)]	3
8.3	Plugging Procedures	4
8.3.1	Pre-Plugging Activities	4
8.3.2	Plugging Activities	4
8.4	Plug Information	5



8.0 INJECTION WELL PLUGGING PLAN [40 CFR 146.82(a)(16), 146.92]

Injection well plugging and abandonment will be conducted according to the procedures herein. Upon completion of the Project, or at the end of the life of the Well, the Well will be plugged and abandoned to meet the requirements of 40 CFR 146.92 and all state and local regulations. The plugging procedure and materials will be designed to prevent any unwanted fluid movement, to resist the corrosive aspects of carbon dioxide/water mixtures, and to protect USDWs. Prior to plugging the injection well, any necessary procedural revisions to address new information will be submitted to the UIC Program Director for review and approval. The final plugging plan will be submitted to the UIC Program Director no later than 60 days prior to plugging of the Well.

Following receipt of the approved plugging plan, the Well will be flushed with a kill weight buffer fluid. A minimum of three (3) tubing volumes will be injected without exceeding fracture pressure.

Bottomhole pressure measurements will be recorded and the well will be logged and pressure tested to ensure mechanical integrity prior to plugging. If a loss of mechanical integrity is discovered, it will be repaired prior to proceeding with plugging operations. The plugging procedure is presented herein.

All casing in this well will be cemented to surface at the time of construction and will not be retrievable at abandonment. The injection tubing and packer will be removed. After the tubing and packer are removed, a combination of bridge plugs and cement plugs will be set to plug the well.

All casing strings will be cut at least three feet (3ft) below ground level. A steel plate, with the required permit information, will be welded to the top of the casing.

8.1 Planned Tests / Measures to Determine Bottomhole Reservoir Pressure [40 CFR 146.92(b)(1)]

Milestone will record bottomhole pressure from a downhole pressure gauge and calculate kill fluid density.

8.2 Planned External Mechanical Integrity Test(s) [146.92 (b)(2)]

Milestone will conduct at least one of the tests listed in **Table 8-1** to verify external mechanical integrity prior to plugging the injection well as required in 40 CFR 146.92(a).

8.3 Plugging Procedures

Notification, regulatory and plugging procedures will include:

[REDACTED]

[REDACTED]

[REDACTED]

8.4 Plug Information

