

Plan revision number: Revision 1
Plan revision date: December 2024

APPENDIX I
STIMULATION PROGRAM
40 CFR 146.82(A)(9)

Jasper County Storage Facility

1 FACILITY INFORMATION

Facility Name: Jasper County Storage Facility

Facility Contact: **Claimed as PBI**
501 Westlake Park Blvd., Houston, Texas 77079
Claimed as PBI

Well Location: Jasper County, TX

Claimed as PBI

2 INTRODUCTION

On June 28, 2023, BP Carbon Solutions LLC (BP) submitted this section of the Class VI application for the Jasper County Storage Facility (Site), and the application was deemed administratively complete on November 22, 2023. In the original submittal, a Stimulation Program was not proposed. In this Revision 1, the Stimulation Program is being proposed **Claimed as PBI**. The Area of Review (AoR) model has also been updated to incorporate additional appraisal and offset well data, providing an enhanced understanding of the subsurface. These updates are expected to reduce project risk by moving away from known faults within the AoR, minimizing the AoR extent, optimizing injection well operations, and reducing interactions with legacy wells.

BP intends to sequester carbon dioxide (CO₂) **Claimed as PBI**

Claimed as PBI is estimated to be stored at the Site during the injection period. The calculations and supporting documentation for injection rates and volume are provided in **Appendix B** (Area of Review and Corrective Action Plan).

This Stimulation Program describes the actions that BP will take in accordance with 40 CFR 146.82 to describe fluids to be utilized for stimulation activities and demonstrate that the stimulation is not expected to interfere with containment.

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During the life of the well, a maximum safe injection pressure will be established by maintaining injection pressure below the caprock pressure with adequate safety factors. Additional details for this stimulation procedure will be further evaluated and refined and included in the advanced written submission to the Underground Injection Control (UIC) Program Director per 40 CFR 146.91(d)(2). The Site will include **Claimed as PBI**

Claimed as PBI and infrastructure related to the construction, operations, and post-injection site care and closure.

3 STIMULATION PROGRAM

BP is proposing a possible stimulation program for the injection wells **Claimed as PBI**

Claimed as PBI Stimulation, as a general concept, may involve but is not limited to flowing fluids into or out of the wells, increasing or connecting pore spaces in the injection formation, and other activities that are intended to allow the injectate to move more readily into the injection formation.

At least 30 days prior to implementing a stimulation program, BP will provide notice of proposed stimulation activities and proposed stimulation procedures to the UIC Program Director in writing, per 40 CFR 146.91(d)(2). The notice will describe fluids to be utilized for stimulation activities and demonstrate that the stimulation is not expected to interfere with containment.

Claimed as PBI

Claimed as PBI

Claimed as PBI The treatment injection will take place below the confining zone shale fracture pressure and with adequate stand-off to prevent the confining zone from being affected. The subsurface model will be calibrated in

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advance of the treatment with data gathered from a fluid efficiency test pumped without proppant.

Claimed as PBI



These fluids will be tested for compatibility to the formation, formation fluids, immobile proppant, and injected medium prior to use. Fluid testing is part of standard operating practice for compatibility, corrosion, and core flood testing with surface and reservoir fluids.

Fluid rate and treating pressure will be measured and analyzed in real time to maintain consistency with the treatment design.

Any future interventions that would require stimulation would be performed after the initial completion and injection. This re-stimulation activity would be intended to remove formation damage.