

8 INJECTION WELL PLUGGING PLAN 40 CFR 146.92(b)

Bayou Bend East SL20220050 (BBE)

4 8.1 Facility Information

5 Facility Name: BAYOU BEND EAST SL20220050 - PHASE 1 (BBE-P1)
6 WELL: SL20220050 W4

10 Facility Contact: **Claimed as PBI** [REDACTED]
11 1500 LOUISIANA STREET, 11TH FLOOR
12 HOUSTON, TEXAS 77002

12 HOUSTON, TEXAS
13 Claimed as PBI
14 Claimed as PBI

15
16 Site Location: GULF OF MEXICO, TEXAS STATE WATERS
17
18 HIGH ISLAND BLOCK 3, 4, 11 AND 12
JEFFERSON COUNTY, TEXAS

19 Claimed as PBI

21 8.2 Introduction

22 Bayou Bend CCS LLC (Operator) will conduct injection well plugging and abandonment according to the
23 following sections.

24 Coordinate Reference System: NAD 83 Texas South Central

Claimed as PBI

29 8.3 Planned Tests or Measures to Determine Bottom-Hole Reservoir Pressure

30 The Operator will conduct a downhole pressure test to determine reservoir pressure prior to plugging the
31 injection well as required by 40 CFR 146.92(a). Once downhole pressure has been determined, the Operator
32 will calculate kill fluid density utilizing the existing permanent downhole gauge on tubing to determine
33 bottom-hole reservoir pressure. If a measurement cannot be obtained, then acquire reservoir pressure
34 through wireline in wellbore. The test will be run using slickline or electric-line, based on availability.

35 The downhole pressure acquisition procedure via logging is as follows:

Revision number: 0

Plan revision date: June 2024

- 1 • Rig up wireline unit.
- 2 • Pressure tests equipment and test for leaks.
- 3 • Run in hole with downhole gauge to record pressures.
- 4 • Pull out of hole. Confirm proper tool operation and data acquired.
- 5 • Rig down wireline unit.

6 **8.4 Planned External Mechanical Integrity Test(s)**

7 Prior to plugging activities, the tubing and packer will be removed. Operator will conduct at least one of
8 the tests listed in **Table 8-1** to verify external mechanical integrity of the injection well as required by 40
9 CFR 146.92(a).

10 A wireline log will be conveyed across the entire length of the wellbore. The data will be evaluated for
11 anomalies that may indicate a loss of mechanical integrity when compared to baseline and historical well
12 logs. If anomalies are detected, the plugging plan will be updated appropriately.

13 **Table 8-1:** Planned MITs.

Claimed as PBI

14 **8.5 Information on Plugs**

15 The Operator will use the materials and methods noted in **Table 8-2** to plug each injection well. The volume
16 and depth of the plug or plugs will depend on the final subsurface and downhole conditions of the well as
17 assessed during construction. The cement(s) formulated for plugging will be compatible with the carbon
18 dioxide stream. The cement formulation and required certification documents will be submitted to the
19 agency with the well plugging plan. The owner or operator will report the wet density and will retain
20 duplicate samples of the cement used for each plug.

21 Cement plugs will be calculated considering available data, which may include casing caliper data or at a
22 minimum nominal casing IDs. Cement simulations and testing will be performed to confirm cement designs
23 meet the minimum height provided in the cement plugging details. Plugging details are based on a vertical
24 well with respect to depth.

Revision number: 0

Plan revision date: June 2024

1 Table 8-2. Plugging details.

Claimed as PBI

Revision number: 0

Plan revision date: June 2024

1 **8.6 Narrative Description of Plugging Procedures**

2 ***8.6.1 Notifications, Permits, and Inspections***

3 In compliance with 40 CFR 146.92(c), Operator will notify EPA Region 6 at least 60 days before plugging
4 the well and provide updated Injection Well Plugging Plan, if applicable.

5 Notification and/or additional permits related to plugging and abandonment will be obtained from the Texas
6 Railroad Commission, Texas Committee on Environmental Quality, and the United States Army Corps of
7 Engineers. All required Federal and State permits will be acquired prior to starting operations.

8 Advance notice will also be provided to the Texas General Land Office, the United States Coast Guard, and
9 other stakeholders who might be impacted by plugging and abandonment operations.

10 The procedures described in the following sections are subject to modification during execution as
11 necessary to ensure a plugging operation that protects worker safety and is effective to protect offshore
12 environments. Any significant modifications due to unforeseen circumstances will be described in the
13 plugging report. The completed plugging report with charts and all laboratory information will be sent to
14 the regulatory agencies as required by permits. The plugging report shall be certified as accurate by the
15 Operator and plugging contractor and shall be submitted within 60 days after plugging is completed.

16

Revision number: 0

Plan revision date: June 2024

1 8.6.2 *Plugging Procedures*

2 **Claimed as PBI**

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

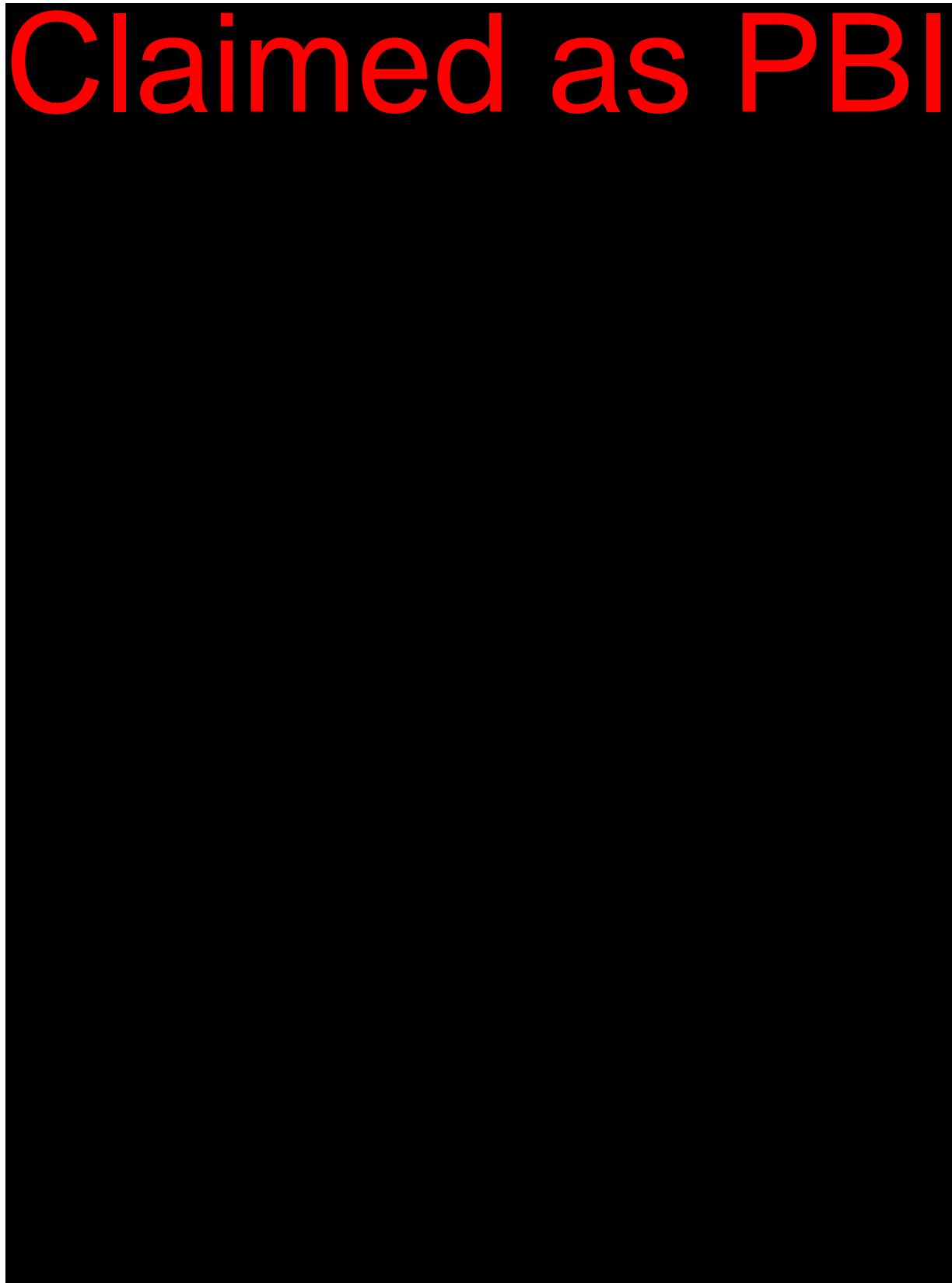
25

26

Revision number: 0

Plan revision date: June 2024

1 **Figure 8-1** Proposed Injector Abandonment Schematic



2