Oxy Seminole San Andres Unit Subpart RR Monitoring, Reporting and Verification (MRV) Plan

July 2023

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1. Introduction

OXY USA INC, a subsidiary of Occidental (Oxy) operates a CO₂-Enhanced Oil Recovery (CO₂-EOR) project in the Seminole San Andres Unit (SSAU). This Monitoring, Reporting, and Verification (MRV) plan was developed in accordance with 40 CFR §98.440-449 (Subpart RR) to provide for the monitoring, reporting, and verification of the quantity of CO₂ sequestered at the SSAU during a specified period of injection.

2. Facility Information

2.1 Reporter Number

XXXX -Seminole San Andres Unit

2.2 UIC Permit Class

The Oil and Gas Division of the Texas Railroad Commission (TRRC) regulates oil and gas activity in Texas. All in-service wells in the SSAU (including production, injection, and monitoring wells) are permitted by TRRC through Texas Administrative Code (TAC) Title 16 Chapter 3. TRRC has primacy to implement the Underground Injection Control (UIC) Class II program in the state for injection wells. All EOR injection wells in the SSAU are currently classified as UIC Class II wells.

2.3 Existing Wells

Wells in the SSAU are identified by name and number, API number, type, and status. The list of wells as of November 2022 is included in Section 12.1. Any changes in these wells or additional wells will be indicated in the annual monitoring report.

3. Project Description

This project takes place in the SSAU, an oilfield located in West Texas that was first produced in 1941. CO_2 flooding was initiated in 1983 and the injection plan calls for an additional total of approximately 174 million metric tons of CO_2 to be stored over the remaining lifetime of the project. The field is well characterized and Oxy determined that it is suitable for secure geologic storage. Oxy uses a water alternating with gas (WAG) injection process and maintains an injection-to-withdrawal ratio (IWR) of 1.0 or very close to it. Oxy constructed a history-matched reservoir simulation of the injection at SSAU.

3.1 Project Characteristics

The Seminole San Andres field was discovered in 1936 and started producing in 1941. The field was unitized in 1968, and waterflood was initiated in 1969. CO_2 flooding was initiated in 1983. A long-term forecast for SSAU was developed using the reservoir modeling approaches described in Section 3.4, including storage of an additional total of approximately 174 million metric tons of CO_2 over the remaining life of the project. Figure 1 shown below, is a graph of the quantity of CO_2 injected, produced, and stored between 1983 and 2021 (solid lines) and a forecast of the CO_2 that will be injected, produced, and stored between 2022 and 2055 (dashed lines) in the SSAU. Oxy has injected 224 million metric tons (MMT) of CO_2 into the SSAU through the end of 2021. Of

that amount, 109 MMT CO_2 was produced and reinjected, and 115 MMT CO_2 was stored. Oxy forecasts CO_2 injection of 532 MMT from the year 2022 until the year 2055, which is currently projected to be the end of the project. Of that amount, 358 MMT is forecast to be produced and 174 MMT will be stored.

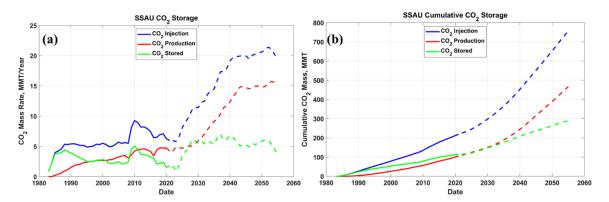


Figure 1—SSAU Historic and Forecast CO₂ Injection, Production, and Storage (a) Rate (MMT/Year), (b) Cumulative Mass (MMT)

3.2 Environmental Setting

The SSAU is located in the northeast portion of the Central Basin Platform in West Texas (Figure 2).

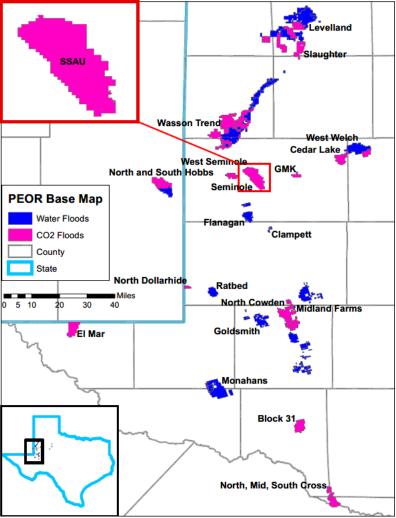


Figure 2—Location of SSAU in West Texas

Figure 3 is a schematic of the SSAU storage complex. The SSAU sequestration zone ranges between 1,165 and 1,850 ft in thickness with an average thickness of 1,600 ft. This productive interval, or reservoir, is within the San Andres Formation and is composed of layers of permeable dolomites that were deposited in a shallow marine environment during the Permian Era, some 250 to 300 million years ago.

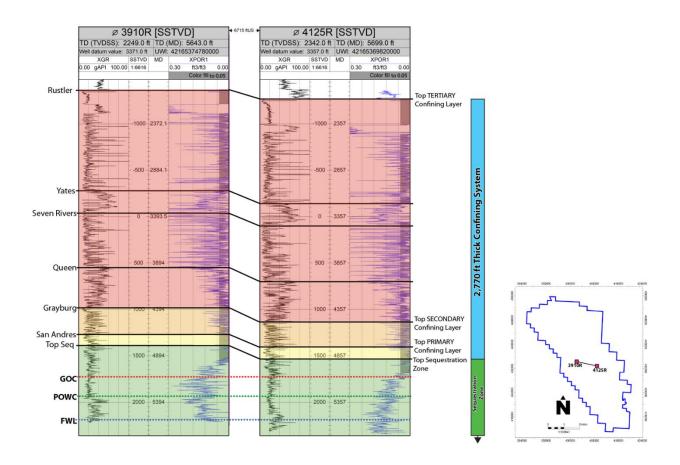


Figure 3—SSAU Geologic Column. Notes: TD = Total Depth, TVDSS or SSTVD = Total Vertical Depth Subsea, MD = Measured Depth, UWI = Unique Well Identification number, XGR = Gamma Ray log, XPOR1 = Porosity log, GOC = Gas Oil Contact, POWC = Producing Oil Water Contact, FWL = Free Water Level.

Figure 3 shows the overlying confining system, which consists of non-porous anhydritic strata that are \sim 2,770 ft thick and are comprised of three sub-zones:

- A ~95 ft thick primary confining layer between the top of sequestration zone and top of San Andres Formation;
- A ~200 ft thick secondary confining layer between San Andres Formation and Grayburg Formation; and,
- A ~2,350 ft thick tertiary confining layer from the Grayburg Formation to the Rustler Formation.

There are numerous relatively thin layers that provide additional secondary containment between the sequestration zone and freshwater aquifers found at a depth of 250 feet. These layers are comprised of siltstones, shales, salts, and anhydrite sequences with little to no porosity or permeability. SSAU is located in the Permian Basin on the northeast portion of the Central Basin Platform in West Texas. SSAU is draped over a fault-bounded doubly plunging anticline that tips out in Devonian strata where several N-NW trending seismically resolvable faults have been identified and mapped. Faults are situated southwest of the structural crest, with a maximum offset of 1,800 ft within Devonian strata and tip out approximately 1,700 ft below the SSAU sequestration zone. Oxy extensively analyzed seismic data acquired over the SSAU to assess potential leakage pathways and basement-rooted faults. Oxy determined that seismic attributes, such as coherence, do not reveal linear discontinuities beyond those currently mapped. Likewise, Oxy found that downhole measurements from profile logs and micro-resistivity imaging tools show no indication of conductive faults or fractures. Pressure-based interference tests and simulation-based history matching also indicate that reservoir behavior has not been modified by faults and fractures. In summary, Oxy determined that multiple fault/fracture characterization tools indicate the sequestration zone and confining system are free of faults and fractures that could act as leakage pathways.

SSAU is a dome structure that includes the highest elevations within the area. The elevated area forms a natural trap for oil and gas that migrated upward from deeper source rocks over millions of years. Once trapped in these higher elevations, the oil and gas remained in place. In the case of SSAU, this oil and gas has been trapped in the reservoir for 50 to 100 million years. Over time, buoyant fluids, including CO₂, rose vertically until reaching the highest elevation of the structure. Figure 4 shows the Top San Andres pay interval structure. The colors in the structure map in Figure 4 indicate the subsurface elevation, with red illustrating a higher or shallower level and dark blue illustrating a lower or deeper level.

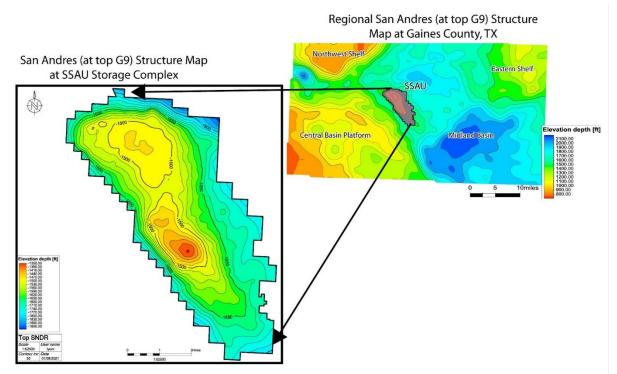


Figure 4—Local Area Structure on Top of San Andres. Note: Top SNDR = Top San Andres

Because of buoyancy differences between oil, water and gas phases, the gas column at SSAU sits above the oil. Water, being the least buoyant of the three fluid phases, is found below the oil. At the time of its discovery, natural gas was trapped at the structural high points of SSAU, forming a "gas cap." The presence of an oil deposit and a gas cap is evidence of the effectiveness of the seal formed by the Upper San Andres Formation. Gas is buoyant and highly mobile. If it could escape SSAU naturally, through faults or fractures, it would have done so over the millennia. Below the gas cap is an oil accumulation called the oil zone. There are no distillable hydrocarbons below the oil zone.

Once the CO_2 flood is complete and injection ceases, the remaining mobile CO_2 will rise slowly upward, driven by buoyancy forces and will be trapped by the confining system. There is more than enough pore space to sequester the planned CO_2 injection. The amount of CO_2 injected will not exceed the reservoir's secure storage capacity; consequently, there is negligible risk that CO_2 could migrate to other reservoirs in the Central Basin Platform. The total reservoir pore volume is calculated to be 5,816 million reservoir barrels (MMRB) from the top of the reservoir down to the base of the oil zone. This equals the volume of rock multiplied by porosity. Table 1 shows the conversion of this amount of pore space into an estimated maximum mass of CO_2 storage of approximately 509 MMT. The total stored CO_2 from previous EOR and the planned forecast injection will fill approximately 57% of the total calculated storage capacity.

Top of Pay to Free Water Level (2,175 ft subsea)			
Variables	SSAU Outline		
Pore Volume (MMRB)	5,816		
Bco ₂	0.41		
Swirr	0.18		
SorCO ₂ (volume weighted)	0.14		
Max CO ₂ Billion Cubic Feet (Bcf)	9,646		
Max CO ₂ (MMT)	509		

Table 1—Calculation of Maximum CO₂ Storage Capacity (MMT) at SSAU

Max CO₂ = Pore Volume (RB) * $(1 - S_{wirr} - S_{orCO2}) / B_{CO2}$

Where:

Max CO_2 = maximum CO_2 storage capacity, MMT Pore Volume (RB) = volume of the rock formation in Reservoir Barrels B_{CO2} = formation volume factor for CO_2 S_{wirr} = irreducible water saturation S_{orCO2} = irreducible oil saturation

Oxy has a high degree of confidence that stored CO_2 will be contained securely within the reservoir because: 1) SSAU is located at the highest subsurface elevations in the area; 2) the confining zone has proved competent over millions of years and with current CO_2 flooding; and, 3) SSAU has ample storage capacity.

3.3 Description of CO₂-EOR Project Facilities and the Injection Process

Figure 5 shows a simplified process flow diagram (PFD) of the project facilities and equipment in the SSAU. CO_2 is delivered to SSAU via the Permian Basin CO_2 pipeline network from several different sources.

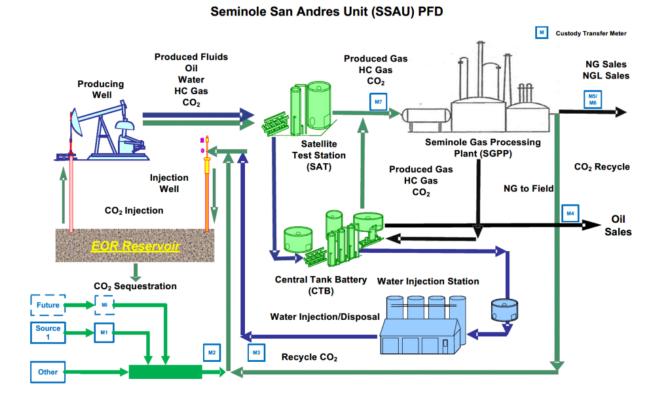


Figure 5—SSAU Process Flow Diagram. Notes: HC = Hydrocarbon, NG = Natural Gas, NGL = Natural Gas Liquids

Once CO₂ enters SSAU, there are three main processes involved in EOR operations:

- 1. **CO₂ Distribution and Injection.** The mass of CO₂ received at SSAU is metered and calculated through the custody transfer meter located at the pipeline delivery point, as indicated by the box labeled "M2" in the bottom left of Figure 5. The mass of CO₂ received is combined with recycled CO₂ from the Seminole Gas Processing Plant (SGPP), denoted by box labeled "M3," and distributed to the CO₂ trunklines for injection into the injection wells according to the pre-programmed injection plan for each well pattern, which alternates between water and CO₂ injection. This is an EOR project, and reservoir pressure must be maintained above the minimum miscibility pressure (MMP). Therefore, injection pressure is maintained at a level that is sufficiently high to allow injectants to enter the reservoir, but below the formation parting pressure (FPP).
- 2. **Produced Fluids Handling.** Produced fluids from the production wells are a mixture of oil, hydrocarbon gas, water, CO₂, and trace amounts of other constituents in the field including nitrogen and hydrogen. Fluids are gathered from producer wells and sent to

satellite test stations (SAT) for separation into a gas/CO₂ mix and a produced fluids mix of water, oil, gas, and CO₂. The gas/CO₂ mix, which is composed primarily of hydrocarbons and CO₂, is sent to the SGPP for CO₂ separation, dehydration, sweetening, and compression before reinjection into the reservoir. The mix of water, oil, gas, and CO₂ is sent to the central tank battery (CTB) where water is separated for reinjection or disposal; oil is separated for sale and metered through a custody transfer meter, and then moved into the pipeline; and, the remaining gas/CO₂ mix is combined with gas/CO₂ separated from the produced fluids in the SAT. The total amount of CO₂ produced is measured using meters labeled "M4" and "M3" on Figure 5.

3. Water Treatment and Injection. Water is recovered from the CTB for reuse and forwarded to the water injection station for treatment and reinjection using a closed loop process or for disposal.

3.3.1 Wells in the SSAU

The TRRC has broad authority over oil and gas operations, including primacy to implement UIC Class II wells. The rules are found in Texas Administrative Code Title 16, Part 1, Chapter 3 and are also explained in a TRRC Oil and Gas Procedure Manual (see Appendix 12.2). TRRC rules govern well siting, construction, operation, maintenance, and closure for all wells in oilfields. Briefly, TRRC rules include the following requirements:

- Fluids must be constrained in the strata in which they are encountered;
- Activities cannot result in the pollution of underground sources of drinking water or surface water;
- Wells must adhere to specified casing, cementing, drilling well control, and completion requirements designed to prevent fluids from moving from the strata where they are encountered into other strata, or into subsurface and surface waters;
- A completion report for each well that includes an electric log (e.g., a density, sonic, or resistivity) run over the entire wellbore must be prepared;
- Operators must follow plugging procedures that require advance approval from the TRRC Director and allow consideration of the suitability of the cement based on the use of the well and the location and setting of plugs; and,
- Injection well operators must identify an Area of Review (AoR), use materials and equipment compatible with the injection fluids, test, and maintain well records.

Table 2 provides a well count by type and status as of November 2022. All these wells are in material compliance with TRRC rules.

Row Labels	ACTIVE	INACTIVE	P&A	SHUT-IN	TA	Grand Total
INJ_H2O	27	4	16	0	10	57
INJ_WAG	190	3	11	4	2	210
PROD_OIL	306	21	60	0	30	417
Grand Total	523	28	87	4	42	684

Table 2—SSAU Well Penetrations by Type and Status (as November 2022)

Notes: INJ_H2O = water injector, INJ_WAG = Water Alternating Gas Injector, PROD_OIL = Oil producer, P&A = Plugged and Abandoned, TA = Temporarily Abandoned

As indicated in Figure 6, wells are distributed across the SSAU. The well patterns currently undergoing CO_2 flooding are outlined in the black box. During the life of the project the well count and status is projected to change as the SSAU injection plan is implemented. Oxy may seek TRRC approval to drill new wells, recomplete existing wells, or plug and abandon existing wells. Such changes will be included in the annual monitoring report.

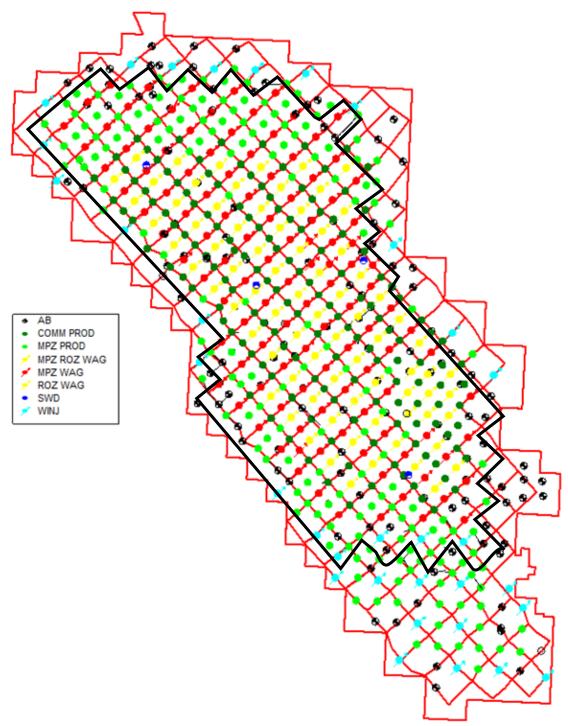


Figure 6—SSAU Wells and Injection Patterns. Notes: AB = Abandoned, COMM PROD = Commingled Producer, MPZ PROD = Main Pay Zone Producer, MPZ ROZ WAG = Main Pay Zone Residual Oil Zone Water Alternating Gas, MPZ WAG = Main Pay Zone Water Alternating Gas, ROZ WAG = Residual Oil Zone Water Alternating Gas, SWD = Saltwater Disposal, WINJ = Water Injector

SSAU CO₂ EOR operations are designed to avoid conditions that could damage the reservoir and create a potential leakage pathway. Oxy manages reservoir pressure by maintaining an injection-to-withdrawal ratio $(IWR)^1$ of approximately 1.0. To do this, fluid injection and production are monitored and managed to ensure that reservoir pressure does not increase to a level that would compromise the reservoir seal or otherwise damage the integrity of the oilfield.

Oxy maintains injection pressure below the FPP, which is measured using step-rate tests.

3.4 Reservoir Modeling

A history-matched reservoir model of the current and forecast SSAU CO_2 injection plan has been constructed using tNavigator, which is a commercially available reservoir simulation software program. The model simulates the recovery mechanism in which CO_2 is miscible with the hydrocarbon phase in the reservoir.

The model was created to:

- Demonstrate that the storage complex has, at the minimum, the capacity to contain the planned mass of injected CO₂; and
- Track injected CO₂, identify how and where CO₂ is trapped in the SSAU, and monitor sequestration mass and distribution.

The reservoir model utilizes four types of data:

- 1. Site Characteristics as described in the SSAU geomodel,
- 2. Initial reservoir conditions and fluid property data,
- 3. Capillary pressure data, and
- 4. Well data.

The static geomodel that serves as the foundation for the dynamic simulation model used data from digital open- and cased-hole logs of 684 wells within the SSAU boundary to correlate formation tops. Oxy developed a sequence stratigraphic framework for SSAU based on core descriptions and outcrop analogs. Oxy selected the sequence stratigraphic correlations of flow units at the base of mud-dominated flooding surfaces in core, linked to well logs, and extrapolated throughout the field.

The dynamic simulation model is a four-component model consisting of water, oil, reservoir gas, and injected CO_2 . It is an extension of the black oil model that enables the modeling of various recovery mechanisms, including miscible injection of CO_2 , which is justified because the reservoir under study is above MMP. Oxy used the total hydrocarbon and solvent (CO_2) saturation to calculate relative permeability to water. Oxy then used the solvent and oil relative permeability to

¹ Injection-to-withdrawal ratio (IWR) is the ratio of the volume of fluids injected to the volume of fluids produced (withdrawn). Volumes are measured under reservoir conditions for all fluids. By keeping IWR close to 1.0, reservoir pressure is held constant, neither increasing nor decreasing.

calculate multipliers from a look-up table. Oxy used the Todd-Longstaff² model to calculate the effective viscosity and density of the hydrocarbon and solvent phases.

Oxy conducted history matching on the dynamic simulation model to adjust input parameters within the range of data uncertainties until the actual reservoir performance was closely reproduced in the model. Using this process, Oxy obtained an 84-year history match. All three phase rates (oil, gas, and water) are included in the history record. The model uses liquid rate control (combination of oil and water) for the history match.

The four graphs in Figure 7 present the history match results of oil rate, water rate, liquid rate, and gas rate, showing that the reservoir model provides an excellent match to actual historical data. Figure 8 shows the matches of water and CO_2 injection.

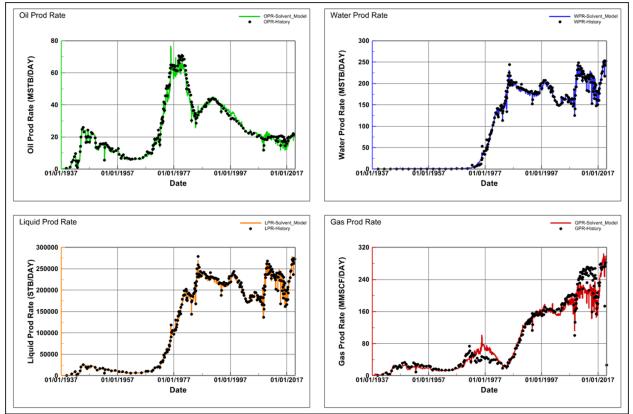


Figure 7—Four Parameters of History-Matched Modeling in the SSAU Reservoir Model. Notes: OPR = Oil Production Rate; WPR = Water Production Rate; MSTB/Day = Thousand Stock Tank Barrels per Day, MMSCF/Day = Million Standard Cubic Feet per Day

² Todd, M.R., Longstaff, W.J.: The development, testing and application of a numerical simulator for predicting miscible flood performance. J. Petrol. Tech. 24(7), 874–882 (1972).

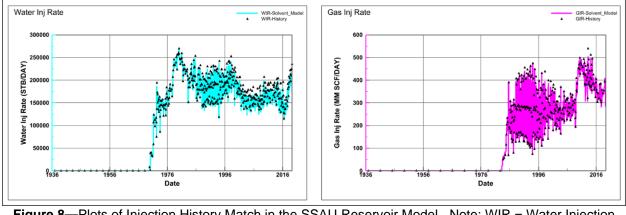


Figure 8—Plots of Injection History Match in the SSAU Reservoir Model. Note: WIR = Water Injection Rate; GIR = Gas Injection Rate

Oxy used the SSAU reservoir model to evaluate the plume of CO_2 using a set of injection, production, and facilities constraints that describe the injection plan. The history match indicates that the model is robust and that there is little chance that uncertainty about any specific variable will have a meaningful impact on the reservoir's CO_2 storage performance. The model forecast showed that CO_2 is contained in the reservoir within the boundaries of SSAU.

4. Delineation of Monitoring Area and Timeframes

4.1 Active Monitoring Area

The Active Monitoring Area (AMA) is shown in Figure 9. It is the SSAU plus the required ¹/₂-mile buffer. The AMA is consistent with the requirements in 40 CFR 98.449 because it is the area projected:

(1) to contain the free phase CO_2 plume for the duration of the project (year t), plus an allaround buffer zone of one-half mile.

(2) to contain the free phase CO_2 plume for at least 5 years after injection ceases (year t + 5).

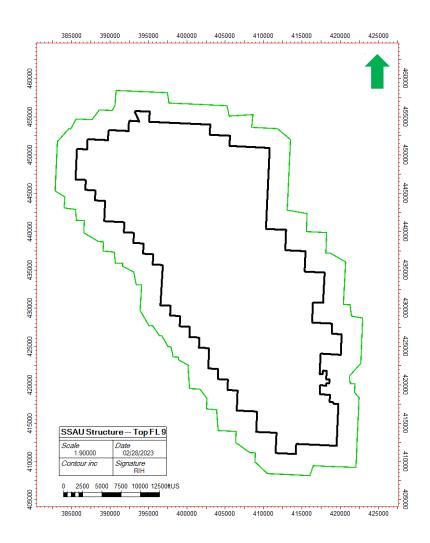


Figure 9—SSAU Unit Boundary with the ½ mile buffer boundary (green)

The AMA determination is supported by project design and site geology as follows:

- Oxy operates injector and producer wells throughout the SSAU as indicated in Figure 6.
- CO₂ injected into the SSAU remains contained within the SSAU because of Oxy's fluid and pressure management practices, i.e., the maintained IWR of 1.0 is consistent with stable reservoir pressure. Managed lease line injection and production wells are used to retain fluids, and operational results confirm that the injected CO₂ is retained within the SSAU.
- The SSAU is a structural high within the formation, therefore CO₂ will migrate updip within the SSAU to the structurally highest position and be retained by the geologic confining unit. CO₂ will not migrate downdip.

4.2 Maximum Monitoring Area

The Maximum Monitoring Area (MMA) is the SSAU plus the required $\frac{1}{2}$ -mile buffer (see Figure 9). The maximum extent of CO₂ after the CO₂ plume has stabilized will be contained within the SSAU, therefore the boundary of SSAU plus $\frac{1}{2}$ mile buffer is consistent with the definition in 40 CFR 98.449. After operations cease, the CO₂ plume is projected to remain within the SSAU due to the factors described in Section 3.2 (presence of a <u>structural trap</u>, competent confining zone that has sealed for millions of years, and sufficient pore space), and use of IWR of approximately 1.0. The reservoir model shows that by the end of CO₂ injection, average reservoir pressure will be approximately 2,790 psi. Once injection ceases, reservoir pressure is predicted to stabilize within one year. Over time, reservoir pressure is expected to decline by approximately 10 psi. The trend of the reservoir pressure decline will be one of the bases of a request to discontinue monitoring and reporting.

4.3 Monitoring Timeframes

The primary purpose for injecting CO_2 is to produce oil that would otherwise remain trapped in the reservoir and not, as in UIC Class VI, "specifically for the purpose of geologic storage."³ During a specified period, there will be a subsidiary purpose of establishing the long-term containment of CO_2 in the SSAU. The specified period will be shorter than the period of production from the SSAU.

At the conclusion of the specified period, a request for discontinuation of reporting will be submitted with a demonstration that current monitoring and model(s) show that the cumulative mass of CO_2 reported as sequestered during the specified period is not expected to migrate in the future in a manner likely to result in Surface Leakage. It is expected that it will be possible to make this demonstration almost immediately after the specified period ends, based upon predictive modeling supported by monitoring data.

The reservoir pressure in the SSAU is collected for use in reservoir modeling and operations management. Reservoir pressure is not forecast to change appreciably because the IWR will be maintained at approximately 1.0. The reservoir model shows that by the end of CO_2 injection, average reservoir pressure will be approximately 2,790 psi. Once injection ceases, reservoir pressure is predicted to stabilize within one year. Over time, reservoir pressure is expected to decline by approximately 10 psi. The trend of the reservoir pressure decline will be one of the bases of a request to discontinue monitoring and reporting.

5. Evaluation of Potential Pathways for Leakage to the Surface, Leakage Detection, Verification, and Quantification

In the 84 years since the SSAU oilfield was discovered, the reservoir has been studied and documented extensively. Based on the knowledge gained from that experience, this section assesses the potential pathways for leakage of stored CO_2 to the surface, including:

³ EPA UIC Class VI rule, EPA 75 FR 77291, December 10, 2010, Section 146.81(b).

- 1. Existing Wellbores,
- 2. Faults and Fractures,
- 3. Natural and Induced Seismic Activity,
- 4. Previous Operations,
- 5. Pipeline/Surface Equipment,
- 6. Lateral Migration Outside the SSAU,
- 7. Drilling Through the CO_2 Area, and
- 8. Diffuse Leakage Through the Seal.

This analysis shows that leakage through wellbores and surface equipment pose the only meaningful potential leakage pathways. The monitoring program to detect and quantify leakage is based on this assessment, as discussed below.

5.1 Existing Wellbores

As part of the TRRC requirement to initiate CO_2 flooding, an extensive review of all SSAU penetrations was completed to determine the need for any corrective action. That analysis showed that all penetrations have either been adequately plugged and abandoned or, if still in use, do not require corrective action. All wells Oxy constructed and operates in the SSAU are in compliance with TRRC rules.

As part of routine risk management, the potential risk of leakage associated with the following were identified and evaluated:

- CO₂ flood beam-pumped wells,
- Electrical submersible pump (ESP) producer wells,
- Naturally flowing producer wells,
- Hydraulic jet pump producer wells,
- CO₂ WAG injector wells, and
- Water injectors.

A risk assessment undertaken for SSAU classified all risks associated with the subsurface as low risk, i.e., less than 1% likelihood to occur and having a consequence that is insubstantial, which is less than 1% of injected volume during the duration of the event. The risks were classified as low risk because the SSAU geology is well suited to CO_2 sequestration with an extensive confining zone that is free of fractures and faults that could be potential conduits for CO_2 migration. The low risk is supported by the results of the reservoir model, which shows that stored CO_2 is not predicted to leave the SSAU boundary. Any risks are further mitigated because the SSAU is operated in a manner that maintains, monitors, and documents the integrity of the reservoir.

The risk of well leakage is mitigated through:

- Adhering to regulatory requirements for well drilling and testing;
- Implementing best practices Oxy has developed through its extensive operating experience;
- Monitoring injection and production performance, wellbores, and the surface; and,

• Maintaining surface and subsurface equipment.

Continual and routine monitoring of the wellbores and site operations will be used to detect leaks or other potential well problems, as follows, and as discussed in Section 6.1.5 below:

- Pressure in injection wells is monitored on a continual basis. The injection plans for each pattern are programmed into the injection WAG skids to govern the rate, pressure, and duration of either water or CO₂ injection. Pressure monitors on the injection wells are programmed to flag whenever statistically significant pressure deviations from the targeted ranges in the plan are identified. Leakage on the inside or outside of an injection wellbore would affect pressure and be detected through this approach. If such events occur, they are investigated and addressed. Oxy's experience, from over 40 years of operating CO₂ EOR projects, is that such leakage is very rare, and there have been no incidents of fluid migration out of the intended zone at SSAU.
- Production well performance is monitored using the production well tests, when produced fluids are gathered and sent to a SAT. There is a routine well testing cycle for each SAT, with each well being tested approximately once every two months. During this cycle, each production well is diverted to the well test equipment for a period sufficient to measure and sample produced fluids (generally 8-12 hours). These tests are the basis for allocating a portion of the produced fluids measured at the SAT to each production well, assessing the composition of produced fluids by location, and assessing the performance of each well. Performance data are reviewed on a routine basis to ensure that CO₂ flooding efficiency is optimized. Production well performance that does not meet planned performance is investigated and any identified issues are addressed. Leakage to the outside of production wells is not considered a major risk because reduced pressure in the casing will prevent leakage outside the wellbore. Further, the personal H₂S monitors are designed to detect the presence of leaked fluids around production wells during well inspections.
- Field inspections are conducted on a routine basis by field personnel. CO₂ leaking through an orifice is cold and leads to formation of bright white clouds and ice that are easily spotted. All field personnel are trained to identify leaking CO₂ and other potential problems at wellbores and in the field. Any CO₂ Surface Leakage detected will be documented and reported and quantified.

Based on ongoing monitoring activities and review of the potential leakage risks posed by wellbores, Oxy concludes that the risk of CO_2 Surface Leakage through wellbores is being mitigated by continuous monitoring and by promptly responding to any detected problems as they arise. Any mass of CO_2 Surface Leakage that occurs will be quantified.

5.2 Faults and Fractures

After reviewing geologic and seismic data, Oxy concluded that there are no known faults or fractures that transect the San Andres Formation in the project area. As a result, there is no risk of CO_2 Surface Leakage due to known fractures or faults.

Oxy manages injections patterns to ensure that the injection pressure does not exceed formation parting pressure (FPP) and does not induce faults of fractures. Oxy routinely measures and updates

FPP and reservoir pressure. Oxy also maintains an IWR at or near 1.0. These practices mitigate the potential for CO_2 injection to induce faults or fractures. As a safeguard, WAG skids are continuously monitored and equipped with automatic shutoff controls should injection pressures exceed programmed settings.

5.3 Natural or Induced Seismicity

After reviewing the literature and actual operating experience, Oxy concluded that there is no direct evidence that natural seismic activity poses a significant risk for loss of CO_2 to the surface in the Permian Basin, specifically in the SSAU.

To evaluate the potential seismic risk at SSAU, Oxy reviewed the nature and location of seismic events in West Texas. Some of the recorded earthquakes in West Texas are far removed from any injection operation. These seismic events are judged to be from natural causes. Others are near oilfields or water disposal wells and are placed in the category of "quakes in close association with human enterprise."⁴ In December 2022, Oxy reviewed the United States Geological Survey (USGS) database of recorded earthquakes at M3.0 or greater in the Permian Basin and found that none have occurred at or near the SSAU. The nearest recorded earthquake occurred in 1992 and was located approximately 30 miles away. Oxy also participates in the TexNet seismic monitoring network⁵ and will continue to monitor for seismic signals that could indicate the creation of potential leakage pathways in SSAU.

The absence of any M3.0 or greater seismic events at or near SSAU indicates that Oxy's injection operations at SSAU do not induce seismicity. Also, natural seismicity is not significant in the area. Therefore, Oxy concludes there is no likely seismicity pathway for CO₂ Surface Leakage.

In addition, Oxy is not aware of any reported loss of injectant (brine water or CO_2) to the surface above SSAU associated with any seismic activity. If induced seismicity resulted in a pathway for material amounts of CO_2 to migrate from the injection zone, Oxy's other reservoir fluid monitoring provisions (e.g., reservoir pressure, well pressure, and pattern monitoring) would detect the migration and lead to further investigation.

5.4 Previous Operations

 CO_2 flooding was initiated in SSAU in 1983. To obtain permits for CO_2 flooding, the AoR around all CO_2 injector wells was evaluated for the presence of any known and unknown penetrations and to assess if corrective actions were required. As indicated in Section 5.1, this evaluation reviewed the identified penetrations and determined that no additional corrective actions were needed. Further, Oxy's standard practice for drilling new wells includes a rigorous review of nearby wells to ensure that drilling will not cause damage to or interfere with existing wells. Throughout its CO_2 EOR operations, Oxy's constructs wells with materials that are designed to be compatible with CO_2 injection. These practices ensure that there are no unknown penetrations within SSAU and that the risk of a release from legacy wells has been evaluated (as already indicated, no

⁴ Frohlich, Cliff (2012) "Induced or Triggered Earthquakes in Texas: Assessment of Current Knowledge and Suggestions for Future Research," Final Technical Report, Institute for Geophysics, University of Texas at Austin, Office of Sponsored Research.

⁵ <u>https://www.beg.utexas.edu/texnet-cisr/texnet</u>

corrective actions were required). Oxy's continuous monitoring program, described above in section 5.1, further mitigates the risk of a CO_2 Surface Leakage from the identified penetrations. The successful experience with CO_2 flooding in SSAU demonstrates that the confining zone has not been impaired by previous operations.

5.5 Pipelines and Surface Equipment

As part of routine risk management described in Section 5.1, the potential risk of Surface Leakage associated with the following were identified and evaluated:

- The production satellite;
- The Central Tank Battery; and
- Facility pipelines.

As described in Section 5.1, the risk assessment classified all subsurface risks as low, i.e., less than 1% likelihood to occur and having a consequence that is insubstantial, i.e., less than 1% of volume flowing through the equipment during the duration of the event. The risks associated with pipelines and surface equipment were classified as low risk because the SSAU is operated in a manner that maintains, monitors, and documents the integrity of the reservoir.

The risk of pipeline and surface equipment leakage is mitigated through:

- Adhering to regulatory requirements for well drilling and testing;
- Implementing best practices Oxy has developed through its extensive operating experience;
- Monitoring injection and production performance, wellbores, and the surface; and,
- Maintaining subsurface and surface equipment.

Personnel continuously monitor the pipeline using the Supervisory Control and Data Acquisition (SCADA) system and can detect and mitigate pipeline leaks expeditiously. Such risks will be prevented, to the extent possible, by relying on the use of prevailing design and construction practices and maintaining compliance with applicable regulations. The facilities and pipelines currently utilize and will continue to utilize materials of construction and control processes that are standard for CO_2 EOR projects in the oil and gas industry. Operating and maintenance practices currently follow and will continue to follow demonstrated industry standards. CO_2 delivery via the Permian Basin CO_2 pipeline system will continue to comply with all applicable regulations. Finally, routine visual inspection of surface facilities by field staff will provide an additional way to detect leaks and further support the efforts to detect and remedy any leaks in a timely manner. Should Surface Leakage be detected from pipeline or surface equipment, the mass of CO_2 Surface Leakage will be quantified following the requirements of Subpart W of EPA's Greenhouse Gas Reporting Program (GHGRP).

5.6 Lateral Migration Outside the SSAU

It is highly unlikely that injected CO_2 will migrate downdip and laterally outside the SSAU because of the nature of the geology and the approach Oxy uses for injection. The SSAU boundary contains a local structural high of the San Andres formation, as well as overlying and underlying formations. As injected CO_2 will rise vertically upward over long periods of time, the SSAU structure forms a trap configuration that funnels the injected CO_2 towards the crest of the structure, thereby preventing lateral migration beyond the unit boundary. In addition, the planned injection mass and active fluid management during injection operations will prevent CO_2 from migrating laterally out of the structure. Finally, the total mass of fluids contained in the SSAU will stay relatively constant. Based on site characterization and planned and projected operations, it is estimated that the total mass of stored CO_2 will be considerably less than the calculated storage capacity.

5.7 Drilling in the SSAU

The TRRC regulates well drilling activity in Texas. Pursuant to TRRC rules, well casing shall be securely anchored in the hole to control the well effectively at all times, all usable-quality water zones shall be isolated and sealed off effectively to prevent contamination or harm, and all productive zones, potential flow zones, and zones with corrosive formation fluids shall be isolated and sealed off to prevent vertical migration of fluids, including gases, behind the casing. Where TRRC rules do not detail specific methods to achieve these objectives, operators shall make every effort to follow the intent of the section, using good engineering practices and the best currently available technology. The TRRC requires applications and approvals before a well is drilled, recompleted, or re-entered. Well drilling activity at SSAU is conducted in accordance with TRRC rules. Oxy's visual inspection process, including routine site visits, will identify any unapproved drilling activity in the SSAU.

In addition, Oxy intends to operate SSAU for several more decades and will continue to be vigilant about protecting the integrity of its assets and maximizing the potential of its resources, including oil, gas, and CO_2 . Consequently, the risks associated with third parties penetrating the SSAU are negligible.

5.8 Diffuse Leakage Through the Seal

Diffuse leakage through the seal formed by the upper San Andres is highly unlikely. The presence of a gas cap trapped over millions of years confirms that the seal has been secure. Injection pattern monitoring ensures that no breach of the seal will be created. Wellbores that penetrate the seal make use of cement and steel construction that is closely regulated to ensure that no leakage takes place. Injection pressure is continuously monitored, and unexplained changes in injection pressure that might indicate leakage would trigger investigations as to the cause.

5.9 Leakage Detection, Verification, and Quantification

Oxy monitors the potential sources of CO_2 Surface Leakage. Table 3 summarizes the range of identified potential scenarios that could result in CO_2 Surface Leakage, the monitoring activities designed to detect such leakage, and Oxy's standard response.

Risk	Monitoring Plan	Response Plan		
Tubing Leak	Monitor changes in tubing and annulus pressure; Mechanical Integrity Testing (MIT) for injectors	Wellbore is shut in and workover crews respond within days		
Casing Leak	Routine field inspection; Monitor changes in annulus pressure; MIT for injectors; extra attention to high-risk wells	Well is shut in and workover crews respond within days		
Wellhead Leak	Routine field inspection, SCADA system monitors wellhead pressure	Well is shut in and workover crews respond within days		
Loss of bottomhole pressure control	Blowout during well operations	Expeditiously conduct well kill procedures		
Unplanned wells drilled through San Andres	Routine field inspection to prevent unapproved drilling; compliance with TRRC permitting for planned wells	Ensure compliance with TRRC regulations		
Loss of seal in abandoned wells	Reservoir pressure in WAG Skids; high pressure found in new wells	Re-enter and reseal abandoned wells		
Pumps, valves, etc.	Routine field inspection, SCADA	Workover crews respond within days		
Overfill beyond spill points	Reservoir pressure in WAG Skids; high pressure found in new wells	Fluid management along lease lines		
Leakage through induced fractures	Reservoir pressure in WAG Skids; high pressure found in new wells	Comply with rules for keeping injection pressures below parting pressure		
Leakage due to seismic event	Reservoir pressure in WAG Skids; high pressure found in new wells	Shut in injectors near seismic event, assess reservoir and take corrective action as needed		

Given the uncertainty concerning the nature and characteristics of any leaks that may be encountered, Oxy will determine the most appropriate method to quantify the volume of CO_2 using an event-driven process to assess, address, track, and (if applicable) quantify any potential CO_2 Surface Leakage. In the event CO_2 Surface Leakage is confirmed, the most appropriate methods for quantifying the mass of CO_2 Surface Leakage will be determined, and the information will be reported as part of the required annual Subpart RR submission. The potential quantification methods may include, but are not limited to:

- For leakage through wellbores, continuous SCADA monitoring data provide the basis to determine duration and the amount of CO₂ loss;
- For leakage from surface equipment and pipelines, continuous SCADA monitoring data and acceptable emission factors, such as those in 40 CFR Part §98 Subpart W, provide the basis to determine duration and the amount of CO₂ loss;
- For leakage related to the competency of the confining layer, reservoir modeling and engineering estimates provide the basis for determining the amount of CO₂ loss.

 CO_2 Surface Leakage will be documented, evaluated, and addressed in a timely manner. Records of CO_2 Surface Leakage will be retained in the electronic environmental documentation and reporting system. Repairs requiring a work order will be documented in the electronic equipment maintenance system.

5.10 Summary

The structure and stratigraphy of the San Andres reservoir in the SSAU is ideally suited for the injection and storage of CO_2 . The stratigraphy within the CO_2 injection zones is porous, permeable, and thick, providing ample capacity for long-term CO_2 storage. The reservoir is overlain by several intervals of impermeable geologic zones that form effective seals for fluids in the reservoir. After assessing the potential risk of release from the subsurface and mitigating the risk of leakage from wellbores, it has been determined that the potential threat of CO_2 Surface Leakage is extremely low.

In summary, based on a careful assessment of the potential risk of release of CO_2 from the subsurface, it has been determined that there are no leakage pathways at the SSAU that are likely to result in CO_2 Surface Leakage. Further, given the detailed knowledge of the field and its operating protocols, it is concluded that in the unlikely event CO_2 leakage to the surface occurs, either through identified or unexpected leakage pathways, it would be detected quickly, quantified, and addressed promptly.

6. Monitoring and Considerations for Calculating Site-Specific Variables

Monitoring will be used to determine the quantities in the mass balance equations and to make the demonstration that the CO_2 plume will not migrate to the surface after CO_2 injection is discontinued.

The first part of this section describes how site-specific monitoring will be used to quantify the variables used in the mass balance equations discussed in Section 8 below. The second part of this section describes the monitoring program in place to collect data for the demonstration that the CO_2 plume will not migrate to the surface and support the request to discontinue monitoring described in Sections 4.3 and 9.

6.1 Variables for the Mass Balance Equation

6.1.1 General Monitoring Procedures

Flow rate, pressure, and CO_2 gas composition data are monitored and collected from the SSAU in centralized data management systems as part of ongoing operations. These data are monitored by qualified technicians who follow response and reporting protocols when the systems deliver notifications that data exceed statistically acceptable boundaries.

Metering protocols used at SSAU follow the prevailing industry standard(s) for custody transfer as currently promulgated by the American Petroleum Institute (API), the American Gas Association (AGA), and the Gas Processors Association (GPA), as appropriate. This approach is consistent with EPA GHGRP's Subpart RR, Section §98.444(e)(3). These meters will be maintained and calibrated routinely, operated continually, and will feed data directly to the centralized data collection systems. The meters meet the industry standard for custody transfer meter accuracy and calibration frequency.

6.1.2 CO₂ Received

Oxy measures the volumetric rate of received CO_2 using a commercial custody transfer meter at the point at which custody of the CO_2 from the Permian Basin CO_2 pipeline delivery system is transferred to the SSAU, marked as flow meter M2 on Figure 5. This meter measures flow rate continually. The transfer is a commercial transaction that is documented. In accordance with \$98.444(a)(3)(ii), Oxy uses CO_2 concentration data from the commercial sales contract. No CO_2 is received at the SSAU in containers.

6.1.3 CO₂ Injected in the Subsurface

In accordance with 98.444(b)(1), Oxy measures the flow rate of injected CO₂ using the custody transfer meter M2, on Figure 5, and at the outlet of the SGPP, flow meter M3, on Figure 5. In accordance with 98.444(b)(2), the flow rate will be collected quarterly. In accordance with 98.444(b)(3), CO₂ concentration will be sampled at least once per quarter.

6.1.4 CO₂ Produced and Entrained in Products

In accordance with 98.444(c), Oxy measures CO₂ produced at flow meter M4 on Figure 5, that is located at the outlet of the separation unit that sends the CO₂ stream to the injection wells. CO₂ concentration and flow rates will be collected quarterly.

 CO_2 that is entrained (i.e., dissolved) in produced oil and natural gas, as indicated in Figure 5, is measured using volumetric flow through the custody transfer meters (M5 and M6).

6.1.5 CO₂ from Equipment Leaks and Vented Emissions of CO₂

In accordance with §98.444(d), Oxy uses 40 CFR §98 Subpart W to estimate the mass of CO_2 emitted from equipment leaks at the SSAU. In accordance with §98.446(f)(3), Oxy will report CO_{2FI} and CO_{2FP} .

6.2 Detection and Quantification of CO2 Surface Leakage

Oxy uses a multi-layered, risk-based monitoring program for event-driven incidents designed to meet two objectives: 1) to detect problems before CO_2 is emitted by Surface Leakage; and 2) to detect and quantify any CO_2 Surface Leakage that does occur. This section discusses how this monitoring will be conducted and used to quantify the mass of CO_2 Surface Leakage.

6.2.1 Monitoring Potential CO₂ Emissions from the Injection/Production Zone

In addition to the measures discussed in Section 5.9 both injection into and production from the reservoir will be monitored as a means of early identification of potential anomalies that could indicate CO_2 Surface Leakage from the subsurface.

Reservoir simulation modeling, confirmed with extensive history-matched data, is used to develop injection plans (fluid rate, pressure, volume) that are programmed into each WAG satellite. If injection pressure or rate measurements are outside the specified set points determined as part of each pattern injection plan, a data flag is automatically triggered, and field personnel will investigate and resolve the problem. These excursions will be reviewed by well management personnel to determine if CO_2 emissions by Surface Leakage may be occurring. Excursions are

not necessarily indicators of Surface Leakage; they simply indicate that injection rates and pressures are not conforming to the pattern injection plan. In many cases, problems are straightforward to fix (e.g., a meter needs to be recalibrated or some other minor action is required), and there is no threat of CO_2 Surface Leakage. In the case of issues that are not readily resolved, more detailed investigation and response would be initiated, and support staff would provide additional assistance and evaluation. Such issues would lead to the development of a work order record in the computerized maintenance management system (CMMS). This record enables the tracking of progress on investigating potential leaks and, if CO_2 has been emitted by Surface Leakage, to quantify its magnitude.

Likewise, a forecast of the rate and composition of produced fluids is developed using the reservoir simulation model. Each producer well is assigned to a specific SAT and is isolated during each cycle for a well production test. The data from the test results are reviewed on a periodic basis to confirm that production is at the level forecasted. If there is a significant deviation from the plan, well management personnel investigate. If the issue cannot be resolved quickly, more detailed investigation and response will be initiated. As in the case of injection pattern monitoring, if the investigation leads to a work order in the CMMS, this record will provide the basis for tracking the outcome of the investigation and if a leak has occurred, recording the quantity Surface Leakage. If a CO_2 release in the flood zone were detected, an investigation would be conducted that would include an appropriate method to quantify the mass of any CO_2 confirmed to have been emitted by Surface Leakage. This might include use of material balance equations based on known injected quantities and monitored pressures in the injection zone to estimate the mass of CO_2 involved.

Generally, it is highly unlikely that a subsurface release at SSAU will lead to CO_2 Surface Leakage. In the unlikely event that there are indications of a potential subsurface release, Oxy would determine the appropriate approach for tracking subsurface release to determine whether there was a risk of CO_2 Surface Leakage, address and remedy the release and quantify any actual CO_2 Surface Leakage. To quantify CO_2 Surface Leakage, the relevant parameters (e.g., the rate, concentration, and duration of CO_2 Surface Leakage) would be either be directly measured or estimated to quantify the release mass. Depending on specific circumstances, these determinations may rely on engineering estimates.

In the event a release from the subsurface occurred diffusely through the seals to the surface, the CO_2 Surface Leakage would necessarily include H_2S , which is also present in the SSAU, which would trigger the alarm on the personal monitors worn by field personnel. CO_2 Leakage from the subsurface to the surface have not occurred in the SSAU. If CO_2 Surface Leakage was detected, personnel would use modeling, engineering estimates, and direct measurements to assess, address, and quantify the mass of CO_2 Surface Leakage.

6.2.2. Monitoring of Wellbores

SSAU wells are monitored through continual, automated pressure monitoring of the injection zone, monitoring of the annular pressure in wellheads, and routine maintenance and inspection.

 CO_2 Surface Leakage from wellbores would be detected through the follow-up investigation of pressure anomalies, visual inspection, or the use of personal H₂S monitors.

Anomalies in injection zone pressure may not indicate CO_2 Surface Leakage. However, if an investigation leads to a work order, field personnel would inspect the equipment in question and determine the nature of the problem. Where possible, repairs will be made with materials on hand and the mass of CO_2 Surface Leakage would be included in the 40 CFR Part §98 Subpart W report for the SSAU. If repairs require additional time and materials, the appropriate approach for quantifying mass of CO_2 Surface Leakage using the relevant parameters (e.g., the rate, concentration, and duration) would be determined. The work order would serve as the basis for tracking the event for GHG reporting.

Anomalies in annular pressure or other issues detected during routine maintenance inspections would be treated in the same way. Field personnel would inspect the equipment in question and determine the nature any identified issues. Where possible, repairs will be made with materials on hand at the time of inspection and the mass of CO_2 Surface Leakage would be included in the 40 CFR Part §98 Subpart W report for SSAU. If repairs require additional time and materials, the affected well would be shut in, a work order would be generated, and the appropriate approach for quantifying the mass of CO_2 Surface Leakage using the relevant parameters (e.g., the rate, concentration, and duration) would be determined. The work order would serve as the basis for tracking the event for GHG reporting.

Because a CO_2 release at the surface is very cold and leads to formation of bright white clouds and ice that are easily spotted, a visual inspection process in the area of the SSAU is employed to detect unexpected releases from wellbores and surface facilities. Field personnel visit the surface facilities on a routine basis. Inspections may include tank levels, equipment status, lube oil levels, pressures and flow rates in the facility, and valves. Field personnel also check that injectors are on the proper WAG schedule and observe the facility for visible CO_2 emissions.

Finally, the data collected by the H_2S monitors, which are always worn by all field personnel, are used as an additional method to detect CO_2 Surface Leakage from wellbores. The H_2S monitors' detection limit is 10 ppm; if an H_2S alarm is triggered, the first response is to protect the safety of the personnel, and the next step is to safely investigate the source of the alarm. As noted previously, H_2S is considered a proxy for potential CO_2 Surface Leakage in the field; thus, detected H_2S will be investigated to determine any if confirmed CO_2 Surface Leakage is occurring. If the incident results in a work order, this will serve as the basis for tracking the event for GHG reporting.

6.2.3. Other Potential CO₂ Emissions by Surface Leakage

The same visual inspection process and H_2S monitoring system for identifying potential CO_2 Surface Leakage s from wellbores will be used to detect other potential CO_2 Surface Leakage. Routine visual inspections are used to detect CO_2 Surface Leakage. Field personnel routinely visit surface facilities to conduct a visual inspection. Inspections may include review of tank level, equipment status, lube oil levels, pressures and flow rates in the facility, valves, ensuring that injectors are on the proper WAG schedule, and conducting a general observation of the facility for visible CO_2 emissions. If problems are detected, field personnel would investigate, and, if maintenance is required, generate a work order in the CMMS, which is tracked through completion. In addition to these visual inspections, the results of the personal H_2S monitors worn by field personnel will be used as a supplement to identify CO_2 Surface Leakage that may escape visual detection. If CO_2 Surface Leakage are detected, they will be reported to surface operations personnel, who will review the reports and conduct a site investigation. If maintenance is required, steps will be taken to prevent further emissions, and a work order will be generated in the CMMS. The work order will describe the appropriate corrective action and be used to track completion of the maintenance action. It will also serve as the basis for tracking the event for GHG reporting and quantifying the mass of CO_2 Surface Leakage.

6.3. Monitoring to Demonstrate that Injected CO_2 Is Not Expected to Migrate to the Surface

At the end of the specified period, Oxy will cease injecting CO_2 for the subsidiary purpose of establishing the long-term storage of CO_2 in the SSAU. Sometime after the end of the specified period, a request to discontinue monitoring and reporting will be submitted. The request will demonstrate that the amount of CO_2 reported under 40 CFR §98.440-449 (Subpart RR) is not expected to migrate in the future in a manner likely to result in CO_2 Surface Leakage. At that time, the request will be supported with years of data collected during the specified period as well as two to three (or more, if needed) years of data collected after the end of the specified period. This demonstration will provide the information necessary for the EPA Administrator to approve the request to discontinue monitoring and reporting and may include, but is not limited to:

- Data comparing actual performance to predicted performance (purchase, injection, production) over the monitoring period;
- An assessment of the CO₂ Surface Leakage detected, including discussion of the estimated mass of CO₂ emitted and the distribution of emissions by Surface Leakage pathway;
- A demonstration that future operations will not release the injected CO₂ to the surface;
- A demonstration that there has been no significant CO₂ emissions by Surface Leakage; and,
- An evaluation of reservoir pressure that demonstrates that injected fluids are not expected to migrate in a manner to likely to result in Surface Leakage.

7. Determination of Baselines

Existing automatic data systems will be utilized to identify and investigate excursions from expected performance that could indicate CO_2 emissions from the SSAU. Data systems are used primarily for operational control and monitoring and thus are set to capture more information than is necessary for reporting in the Annual Subpart RR Report. The necessary system guidelines to capture the information that is relevant to identify possible CO_2 Surface Leakage will be developed. The following describes the approach to collecting this information.

7.1 Visual Inspections

As field personnel conduct routine inspections, work orders are generated in the CMMS for maintenance activities that cannot be addressed on the spot. Methods to capture work orders that involve activities that could potentially involve CO_2 Surface Leakage will be developed, if not currently in place. Examples include occurrences of well workover or repair, as well as visual identification of vapor clouds or ice formations. Each incident will be flagged for review by the

person responsible for MRV documentation (the responsible party will be provided in the monitoring plan, as required under Subpart A, §98.3(g)). The Annual Subpart RR Report will include an estimate of the mass of CO₂ Surface Leakage. Records of information used to calculate emissions will be maintained on file for a minimum of three years.

7.2 Personal H₂S Monitors

Oxy's injection gas compositional analysis indicates H_2S is approximately 1% of the total injected fluid stream. H_2S monitors are worn by all field personnel. The H_2S monitors detect concentrations of H_2S up to 500 ppm in 0.1 ppm increments and will sound an alarm if the detection limit exceeds 10 ppm. If an H_2S alarm is triggered, the immediate response is to protect the safety of the personnel, and the next step is to safely investigate the source of persistent alarms. Oxy considers H_2S to be a proxy for identifying CO₂ Surface Leakage. The person responsible for MRV documentation will receive notice of all incidents where H_2S is confirmed to be present. If the incident results in a work order, this will serve as the basis for tracking the event for GHG reporting. The Annual Subpart RR Report will provide an estimate of the mass of CO₂ confirmed on file for a minimum of three years.

7.3 Injection Rates, Pressures and Volumes

Target injection rate and pressure for each injector are developed within the permitted limits based on the results of ongoing reservoir modeling. The injection targets are programmed into the WAG satellite controllers. High and low set points are also programmed into the controllers, and flags are generated whenever statistically significant deviations from these ranges are identified. The set points are designed to be conservative, because it is preferable to have too many flags rather than too few. As a result, flags can occur frequently and are often found to be insignificant. For purposes of Subpart RR reporting, flags (or excursions) will be screened to determine if they could lead to CO₂ Surface Leakage. The person responsible for the MRV documentation will receive notice of excursions and related work orders that could potentially involve CO₂ Surface Leakage. The Annual Subpart RR Report will provide an estimate of the mass of CO₂ confirmed Surface Leakage. Records of information used to calculate emissions will be maintained on file for a minimum of three years.

7.4 Production Volumes and Compositions

A general forecast of production volumes and composition is developed and used to evaluate performance periodically and refine current and projected injection plans and the forecast. This information is used to make operational decisions, but it is not recorded in an automated data system. Sometimes, this review may result in the generation of a work order in the CMMS. The MRV plan implementation lead will review such work orders and identify those that could result in CO_2 Surface Leakage. Should such events occur, the mass of CO_2 confirmed Surface Leakage would be calculated following the approaches described in Sections 5 and 6. Impact to Subpart RR reporting will be addressed, if deemed necessary.

8. Determination of Sequestration Volumes Using Mass Balance Equations

This section describes how Oxy uses the equations in Subpart RR §98.443 to calculate the mass of CO₂ received using equations RR-2 and RR-3, the mass of CO₂ injected using equations RR-5

and RR-6, the amount of CO₂ produced using equations RR-8 and RR-9, the mass of CO₂ Surface Leakage using equation RR-10, and the mass of CO₂ sequestered using equation RR-11.

8.1 Mass of CO₂ Received

In accordance with §98.443, Equation RR-2 will be used to calculate the mass of CO_2 Received. In accordance with the requirements at Subpart RR §98.444(a), CO_2 will be measured at the custody transfer meter from the Permian Basin CO_2 pipeline delivery system (M2 on Figure 5). Because there is no redelivery of CO_2 , $S_{r,p}$ will be zero ("0"). Quarterly CO_2 concentration will be taken from the gas measurement database. The volumetric flow at standard conditions will be multiplied by the CO_2 concentration and the density of CO_2 at standard conditions to determine net Annual Mass of CO_2 Received.

$$CO_{2T,r} = \sum_{p=1}^{4} (Q_{r,p} - S_{r,p}) * D * C_{CO2,p,r}$$
(Eq. RR-2)

Where:

 $CO_{2T, r}$ = Net annual mass of CO_2 received through flow meter r (metric tons);

- Q_{r,p} = Quarterly volumetric flow through a receiving flow meter r in quarter p at standard conditions (standard cubic meters);
- $S_{r,p}$ = Quarterly volumetric flow through a receiving flow meter r that is redelivered to another facility without being injected into a site well in quarter p (standard cubic meters);
- D = Density of CO_2 at standard conditions (metric tons per standard cubic meter), 0.0018682;
- $C_{CO2,p,r}$ = Quarterly CO₂ concentration measurement in flow for flow meter r in quarter p (vol. percent CO₂, expressed as a decimal fraction);

p = Quarter of the year; and

r = Receiving flow meters.

In accordance with §98.443, Equation RR-3 will be used to sum the mass of CO₂ received from all flow meters is calculated in the following equation.

$$CO_2 = \sum_{r=1}^{R} CO_{2T,r}$$
 (Eq. RR-3)

Where:

 $CO_2 = Total net annual mass of CO_2 received (metric tons).$

 $CO_{2T, r}$ = Net annual mass of CO_2 received through flow meter r (metric tons).

8.2 Mass of CO₂ Injected into the Subsurface

As described in Section 6.1.3, the amount of CO_2 injected is measured at M2 and M3. In accordance with §98.443, Equation RR-5 will be used to calculate the mass of CO_2 flowing through each of these meters. Quarterly CO_2 concentration will be taken from the gas measurement database. The volumetric flow at standard conditions will be multiplied by the CO_2 concentration and the density of CO_2 at standard conditions to determine net Annual Mass of CO_2 Received.

$$CO_{2,u} = \sum_{p=1}^{4} Q_{p,u} * D * C_{CO2,p,u}$$
(Eq. RR-5)

Where:

 $CO_{2,u}$ = Annual CO_2 mass recycled (metric tons) as measured by flow meter u;

- Q_{p,u} = Quarterly volumetric flow rate measurement for flow meter u in quarter p at standard conditions (standard cubic meters per quarter);
- $D = Density of CO_2 at standard conditions (metric tons per standard cubic meter), 0.0018682;$
- $C_{CO2,p,u} = CO_2$ concentration measurement in flow for flow meter u in quarter p (vol. percent CO₂, expressed as a decimal fraction);

p = Quarter of the year; and

u = Flow meter.

In accordance with 98.443, Equation RR-6 will be used to calculate the total Mass of CO₂ Injected, which is the sum of the Mass of CO₂ from flow meters M2 and M3.

$$CO_{2I} = \sum_{u=1}^{U} CO_{2,u} \qquad (\text{Eq. RR-6})$$

Where:

 $CO_{2,u}$ = Annual CO_2 mass recycled (metric tons) as measured by flow meter u + Net annual mass of CO_2 received through flow meter r (metric tons).

8.3 Mass of CO₂ Produced

In accordance with §98.443, Equation RR-8 will be used the calculate the Mass of CO_2 Produced at flow meter M4 on Figure 5, as described in Section 6.1.4. Quarterly CO_2 concentration will be taken from the gas measurement database. The volumetric flow at standard conditions will be multiplied by the CO_2 concentration and the density of CO_2 at standard conditions to determine net Annual Mass of CO_2 Received.

$$CO_{2w} = \sum_{p=1}^{4} Q_{p,w} * D * C_{CO2,p,w}$$
(Eq. RR-8)

Where:

 CO_{2w} = Annual CO_2 mass produced (metric tons);

- $Q_{p,w}$ = Volumetric gas flow rate measurement for meter w in quarter p at standard conditions (standard cubic meters);
- D = Density of CO_2 at standard conditions (metric tons per standard cubic meter), 0.0018682;
- $C_{CO2,p,w} = CO_2$ concentration measurement in flow for meter w in quarter p (vol. percent CO₂, expressed as a decimal fraction);
- p = Quarter of the year; and

w = Separator.

In accordance with §98.443 Equation RR-9, Oxy will calculate the amount of CO₂ entrained in oil at the custody transfer meters for oil sales, M4.

$$CO_{2,p} = (1+X) * \sum_{w=1}^{w} CO_{2,w}$$
 (Eq. RR-9)

Where:

CO_{2,p} = Total annual CO₂ mass produced (metric tons) through all meters in the reporting year;

 $CO_{2,w}$ = Annual CO_2 mass produced (metric tons) through meter w in the reporting year; X = Entrained CO_2 in produced oil or other fluid divided by the CO_2 separated through all separators in the reporting year (weight percent CO_2 , expressed as a decimal fraction); w = Separator

8.4 Mass of CO₂ Emitted by Surface Leakage

The total annual Mass of CO_2 Emitted by Surface Leakage will be calculated and reported using an approach that is tailored to specific events. Oxy is prepared to address the potential for CO_2 Surface Leakage in a variety of settings. Estimates of the mass of confirmed CO_2 Surface Leakage will depend on several site-specific factors including measurements, engineering estimates, and emission factors, depending on the source and nature of the CO_2 Surface Leakage.

The process for quantifying the mass of CO_2 Surface Leakage will entail using best engineering principles or emission factors. While it is not possible to predict in advance all the types of events that may lead to CO_2 Surface Leakage, some approaches for quantification are described in Sections 5.9 and 6. In the event CO_2 Surface Leakage is confirmed the mass of CO_2 Surface Leakage would be quantified and reported, and records that describe the methods used to estimate or measure the mass emitted as reported in the Annual Subpart RR Report would be retained. Further, the Subpart W report and results from any event-driven quantification will be reconciled to assure that the mass of CO_2 Surface Leakage are not double-counted. In accordance with §98.443, Equation RR-10 will be used to calculate and report the Annual Mass of CO₂ Emitted by Surface Leakage:

$$CO_{2E} = \sum CO_{2x}$$
(Eq. RR-10)
x=1

Where:

- CO_{2E} = Total annual CO_2 mass emitted by Surface Leakage (metric tons) in the reporting year;
- CO_{2x} = Annual CO_2 mass emitted (metric tons) at leakage pathway x in the reporting year; and

x = Leakage pathway.

8.5 Mass of CO₂ Sequestered in Subsurface Geologic Formation

In accordance with §98.443, Equation RR-11 will be used to calculate the Mass of CO₂ Sequestered in Subsurface Geologic Formations in the Reporting Year as follows:

$$CO_2 = CO_{2I} - CO_{2P} - CO_{2E} - CO_{2FI} - CO_{2FP}$$
 (Eq. RR-11)

Where:

- $CO_2 =$ Total annual CO_2 mass sequestered in subsurface geologic formations (metric tons) at the facility in the reporting year;
- CO_{2I} = Total annual CO_2 mass injected (metric tons) in the well or group of wells covered by this source category in the reporting year;
- CO_{2P} = Total annual CO_2 mass produced (metric tons) in the reporting year;
- CO_{2E} =Total annual CO₂ mass emitted (metric tons) by Surface Leakage in the reporting year;
- CO_{2FI} =Total annual CO_2 mass emitted (metric tons) from equipment leaks and vented emissions of CO_2 from equipment located on the surface between the flow meter used to measure injection quantity and the injection wellhead.
- CO_{2FP} =Total annual CO_2 mass emitted (metric tons) from equipment leaks and vented emissions of CO_2 from equipment located on the surface between the production wellhead and the flow meter used to measure production quantity.

8.6 Cumulative Mass of CO_2 Reported as Sequestered in Subsurface Geologic Formation The total annual mass obtained using equation RR-11 in §98.443 will be summed to arrive at the Cumulative Mass of CO_2 Sequestered in Subsurface Geologic Formations.

9. MRV Plan Implementation Schedule

This MRV plan will be implemented starting January 1, 2023. GHG reports are filed on March 31 of the year after the reporting year, and Oxy anticipates that the Annual Subpart RR Report will be filed at the same time. Oxy anticipates that the MRV program will be in effect during the specified period, during which time one of the operating purposes will be to establish long-term containment of a measurable quantity of CO_2 in subsurface geological formations at the SSAU.

Oxy anticipates that it will be able to demonstrate that a quantifiable mass of CO_2 injected during the specified period will be stored such that it will not migrate in the future in a manner that likely to result in Surface Leakage. At the end of the specified period, a demonstration supporting the long-term containment determination will be prepared and a request to discontinue monitoring and reporting under this MRV plan will be submitted. See 40 C.F.R. §98.441(b)(2)(ii).

10. Quality Assurance Program

10.1 Monitoring QA/QC

The requirements of 98.444 (a) – (d) have been incorporated in the discussion of mass balance equations. These include the following provisions:

10.1.1 CO2 Received and Injected

- The quarterly flow rate of CO₂ received by pipeline is measured at the receiving custody transfer meters.
- The quarterly CO₂ flow rate for recycled CO₂ is measured at the flow meter located at the SGPP outlet.

10.1.2 CO₂ Produced

- The point of measurement for the quantity of CO₂ produced from oil or other fluid production wells is a flow meter at the outlet of each separator that sends a stream of gas into a recycle or end use system.
- The produced gas stream is sampled at least once per quarter immediately downstream of the SGPP flow meter used to measure flow rate of the gas stream, and the CO₂ concentration of the sample will be measured.
- The quarterly flow rate of the produced gas is measured at the flow meters located at the SGPP outlet.

10.1.3 CO2 Emissions from Equipment Leaks and Vented Emissions of CO2

The mass of CO_2 emitted from equipment leaks and vented emissions are measured in conformance with the monitoring and QA/QC requirements specified in Subpart W of 40 CFR Part §98.

10.1.4 Flow Meter Provisions

The flow meters used to generate data for the mass balance equations are:

- Operated continuously except as necessary for maintenance and calibration;
- Operated using the calibration and accuracy requirements in 40 CFR §98.3(i);
- Operated in conformance with either industry standard practices or an appropriate standard method published by a consensus-based standards organization; and,
- Calibrated, when necessary, using National Institute of Standards and Technology (NIST) methods that are traceable.

10.1.5 Concentration of CO2

 CO_2 concentration is measured using an industry standard practice or an appropriate standard method. Further, all measured CO_2 has been converted to standard cubic meters at a temperature of 60°F and at an absolute pressure of 1 atmosphere, including those used in Equations RR-2, RR-5, and RR-8 in Section 8.

10.2 Missing Data Procedures

In the event data needed for the mass balance calculations cannot be collected, procedures for estimating missing data in §98.445 will be used as follows:

- A quarterly flow rate of CO₂ received that is missing will be estimated using invoices or using a representative flow rate value from the nearest previous time period.
- A quarterly CO₂ concentration of a CO₂ stream received that is missing will be estimated using invoices or using a representative concentration value from the nearest previous time period.
- A quarterly quantity of CO₂ injected that is missing will be estimated using a representative quantity of CO₂ injected from the nearest previous time period at a similar injection pressure.
- For any values associated with CO₂ emissions from equipment leaks and vented emissions of CO₂ from surface equipment at the facility that are reported in this subpart, missing data estimation procedures specified in Subpart W of 40 CFR Part §98 will be followed.
- The quarterly quantity of CO₂ produced from subsurface geologic formations that is missing will be estimated using a representative quantity of CO₂ produced from the nearest previous time period.

10.3 MRV Plan Revisions

Within 180 days of a material change to the monitoring and/or operational parameters of the CO_2 EOR operations in the SSAU that is not anticipated in this MRV plan, a change in UIC permit class, EPA notification of substantive errors in this MRV plan or monitoring report, or if Oxy chooses to revise this MRV plan, the MRV plan will be revised and submitted to the EPA Administrator as required in §98.448(d).

11. Records Retention

The record retention requirements specified by §98.3(g) will be followed. In addition, the requirements in Subpart RR §98.447 will be met by maintaining the following records for at least three years:

- Quarterly records of CO₂ received at standard conditions and operating conditions, operating temperature and pressure, and concentration of these streams.
- Quarterly records of produced CO₂, including volumetric flow at standard conditions and operating conditions, operating temperature and pressure, and concentration of these streams.
- Quarterly records of injected CO₂ including volumetric flow at standard conditions and operating conditions, operating temperature and pressure, and concentration of these streams.

- Annual records of information used to calculate the CO₂ emitted by Surface Leakage.
- Annual records of information used to calculate the CO₂ emitted from equipment leaks and vented emissions of CO₂ from equipment located on the surface between the flow meter used to measure injection quantity and the injection wellhead.
- Annual records of information used to calculate the CO₂ emitted from equipment leaks and vented emissions of CO₂ from equipment located on the surface between the production wellhead and the flow meter used to measure production quantity.

These data will be collected as generated and aggregated as required for reporting purposes.

12. Appendix

12.1 Well Identification Numbers

Table 4 presents the well name and number, API number, type, and status for active wells in SSAU as of September 2020. The table is subject to change over time as new wells are drilled, existing wells change status, or existing wells are repurposed. The following terms are used:

- Well Status
 - ACTIVE refers to active wells.
 - DRILL refers to wells under construction.
 - TA refers to wells that have been temporarily abandoned.
 - SHUT_IN refers to wells that have been temporarily idled or shut in.
 - INACTIVE refers to wells that have been completed but are not in use.

• Well Type

- DISP_H2O refers to wells for water disposal.
- INJ_GAS refers to wells that inject CO₂ gas.
- INJ_WAG refers to wells that inject water and CO₂ gas.
- INJ_H2O refers to wells that inject water.
- OBSERVATION refers to observation or monitoring wells.
- PROD_GAS refers to wells that produce natural gas.
- PROD_OIL refers to wells that produce oil.
- SUP_H2O refers to wells that supply water.

Table 4—SSAU Well Numbers, Types, and Status

The Well Name & Number, API Number, Well Type, and Well Status are all from OXYODS.MDMODS.Well_All. They include only Oxy Operated wells with a field name like SEMINOLE (SAN ANDRES).

Well Name & Number from OXYODS	<u>API Number</u>	Well Type	<u>Well Status as of November</u> <u>2022</u>
SSAU-3901	42165000220000	INJ_WAG	ACTIVE
SSAU-1301	42165000230000	PROD_OIL	ACTIVE
SSAU-0701	42165000240000	PROD_OIL	ACTIVE
SSAU-3902	42165000250000	INJ_WAG	ACTIVE
SSAU-1302	42165000260000	INJ_WAG	ACTIVE
SSAU-0702	42165000270000	INJ_WAG	ACTIVE
SSAU-3903	42165000290000	PROD_OIL	P & A
SSAU-1303	42165000300000	PROD_OIL	ТА
SSAU-0703	42165000310000	PROD_OIL	ACTIVE
SSAU-3904	42165000320000	PROD_OIL	ACTIVE
SSAU-1304	42165000330000	PROD_OIL	ACTIVE
SSAU-0704	42165000340000	PROD_OIL	P & A
SSAU-3905W	42165000350000	INJ_WAG	ACTIVE
SSAU-0705	42165000360000	PROD_OIL	ACTIVE
SSAU-3906	42165000370000	PROD_OIL	ACTIVE
SSAU-1306	42165000380000	INJ_WAG	ACTIVE
SSAU-0706	42165000390000	INJ_H2O	ACTIVE
SSAU-3907	42165000400000	PROD_OIL	ACTIVE
SSAU-0707	42165000410000	INJ_H2O	ACTIVE
SSAU-3908	42165000420000	INJ_WAG	ACTIVE
SSAU-1102	42165000520000	INJ_WAG	P & A
SSAU-1202	42165000650000	PROD_OIL	ACTIVE
SSAU-3602	42165000660000	PROD_OIL	ТА
SSAU-4801	42165000670000	PROD_OIL	ACTIVE
SSAU-1201	42165000690000	INJ_H2O	P & A
SSAU-4302	42165000720000	PROD_OIL	ACTIVE
SSAU-4303W	42165000730000	INJ_WAG	ACTIVE
SSAU-4304	42165000740000	INJ_WAG	ACTIVE
SSAU-4305	42165000750000	INJ_WAG	ACTIVE
SSAU-4306	42165000760000	INJ_WAG	ACTIVE
SSAU-4307	42165000770000	INJ_WAG	ACTIVE
SSAU-4308	42165000780000	INJ_WAG	ACTIVE
SSAU-4309	42165000790000	PROD_OIL	TA
SSAU-0401	42165000820000	INJ_H2O	ACTIVE

SSAU-0501	42165000830000	INJ_H2O	ACTIVE
SSAU-0402	42165000840000	PROD_OIL	P & A
SSAU-0502	42165000850000	PROD_OIL	ACTIVE
SSAU-0801	42165000980000	PROD_OIL	ACTIVE
SSAU-3501W	42165000990000	INJ_H2O	ТА
SSAU-3502	42165001000000	PROD_OIL	ACTIVE
SSAU-3503	42165001010000	INJ_WAG	ACTIVE
SSAU-3504	42165001020000	INJ_WAG	SHUT-IN
SSAU-3505	42165001030000	INJ_WAG	ACTIVE
SSAU-3506	42165001040000	PROD_OIL	ТА
SSAU-3507W	42165001050000	INJ_WAG	ACTIVE
SSAU-3508	42165001060000	PROD_OIL	ACTIVE
SSAU-3509	42165001070000	INJ_WAG	SHUT-IN
SSAU-3510	42165001080000	INJ_WAG	ТА
SSAU-3511	42165001090000	INJ_WAG	ACTIVE
SSAU-3512	42165001100000	PROD_OIL	P & A
SSAU-3513W	42165001110000	INJ_WAG	ACTIVE
SSAU-3514	42165001120000	INJ_WAG	ACTIVE
SSAU-3515	42165001130000	PROD_OIL	P & A
SSAU-3516	42165001140000	PROD_OIL	ТА
SSAU-6401	42165001700000	PROD_OIL	ACTIVE
SSAU-6402	42165001710000	INJ_WAG	ACTIVE
SSAU-6403	42165001720000	PROD_OIL	ACTIVE
SSAU-6404	42165001730000	PROD_OIL	ACTIVE
SSAU-6405	42165001740000	PROD_OIL	ACTIVE
SSAU-6406W	42165001750000	INJ_H2O	ТА
SSAU-6407	42165001760000	PROD_OIL	ACTIVE
SSAU-2401W	42165001880000	INJ_WAG	ACTIVE
SSAU-2402	42165001890000	PROD_OIL	ACTIVE
SSAU-2403	42165001900000	PROD_OIL	ACTIVE
SSAU-2404	42165001910000	INJ_WAG	ACTIVE
SSAU-6001	42165001920000	PROD_OIL	ТА
SSAU-5301	42165001930000	INJ_WAG	ACTIVE
SSAU-5302	42165001940000	PROD_OIL	ACTIVE
SSAU-5303	42165001950000	PROD_OIL	ACTIVE
SSAU-5304W	42165001960000	INJ_WAG	ACTIVE
SSAU-5305	42165001970000	INJ_WAG	ACTIVE
SSAU-5306	42165001980000	PROD_OIL	ACTIVE
SSAU-5307	42165001990000	PROD_OIL	ACTIVE
SSAU-5308W	42165002000000	INJ_WAG	P & A
SSAU-2701	42165002040000	INJ_WAG	ACTIVE

SSAU-2702	42165002050000	PROD_OIL	ACTIVE
SSAU-2702 SSAU-2703W	42165002060000	INJ_WAG	ACTIVE
SSAU-2704W	42165002000000	INJ_WAG	ACTIVE
SSAU-2705	42165002080000	PROD OIL	ACTIVE
SSAU-2706	42165002080000	PROD_OIL	ACTIVE
SSAU-2700	42165002050000	INJ_WAG	ACTIVE
SSAU-2707	42165002100000	PROD_OIL	ACTIVE
SSAU-2708	42165002270000	INJ_H2O	ACTIVE
SSAU-4001	42165002290000	PROD_OIL	P & A
SSAU-4001 SSAU-1401	42165002300000	PROD_OIL	ACTIVE
SSAU-3701	42165002300000	INJ_WAG	ACTIVE
SSAU-4002W	42165002320000	INJ_WAG	ACTIVE
SSAU-4002W	42165002320000	INJ_H2O	P & A
SSAU-1402 W SSAU-3702	42165002330000	PROD_OIL	ACTIVE
SSAU-3702 SSAU-4003	42165002350000	INJ_H2O	P & A
SSAU-1403 SSAU-4004	42165002360000 42165002370000	INJ_WAG	ACTIVE ACTIVE
		PROD_OIL	
SSAU-1404	42165002380000	PROD_OIL	ACTIVE
SSAU-4005	42165002390000	INJ_H2O	P & A
SSAU-1405	42165002400000	PROD_OIL	ACTIVE
SSAU-4006	42165002410000	PROD_OIL	ACTIVE
SSAU-1406	42165002420000	INJ_WAG	ACTIVE
SSAU-4007	42165002430000	PROD_OIL	INACTIVE
SSAU-1407	42165002440000	PROD_OIL	ACTIVE
SSAU-4008	42165002450000	INJ_WAG	ACTIVE
SSAU-1408	42165002460000	INJ_H2O	P & A
SSAU-3601	42165002520000	INJ_H2O	TA
SSAU-1504	42165002570000	PROD_OIL	ACTIVE
SSAU-1505W	42165002580000	INJ_WAG	P & A
SSAU-1506	42165002590000	INJ_WAG	ACTIVE
SSAU-1507	42165002600000	PROD_OIL	ACTIVE
SSAU-5901	42165002630000	PROD_OIL	ACTIVE
SSAU-5902	42165002640000	PROD_OIL	ТА
SSAU-3801	42165002690000	INJ_WAG	INACTIVE
SSAU-3802	42165002700000	PROD_OIL	INACTIVE
SSAU-3803	42165002710000	PROD_OIL	P & A
SSAU-3804	42165002720000	PROD_OIL	ACTIVE
SSAU-3805	42165002730000	PROD_OIL	INACTIVE
SSAU-3806	42165002740000	INJ_H2O	ACTIVE
SSAU-1901	42165002800000	PROD_OIL	ACTIVE
SSAU-1902	42165002820000	INJ_WAG	ACTIVE

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SSAU-330342165002940000SSAU-330442165002950000SSAU-180142165003180000SSAU-130542165003400000SSAU-640842165003410000SSAU-020142165003420000SSAU-020242165003430000SSAU-510142165003440000SSAU-510242165003450000SSAU-510342165003460000SSAU-510342165003460000	INJ_WAG PROD_OIL INJ_WAG PROD_OIL INJ_H2O INJ_H2O INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	INACTIVE ACTIVE ACTIVE P & A ACTIVE TA INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-3304 42165002950000 F SSAU-1801 42165003180000 D SSAU-1305 42165003400000 F SSAU-6408 42165003410000 F SSAU-0201 42165003420000 F SSAU-0202 42165003430000 F SSAU-0202 42165003430000 D SSAU-5101 42165003450000 D SSAU-5102 42165003450000 D SSAU-5103 42165003460000 F SSAU-5103 42165003460000 F SSAU-5103 42165003460000 F	PROD_OIL INJ_WAG PROD_OIL INJ_H2O PROD_OIL INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	ACTIVE ACTIVE P & A ACTIVE TA INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-180142165003180000SSAU-130542165003400000SSAU-640842165003410000SSAU-020142165003420000SSAU-020242165003430000SSAU-510142165003440000SSAU-510242165003450000SSAU-510342165003460000SSAU-510342165003460000FSSAU-5103SSAU-510142165003620000FSSAU-5101	INJ_WAG PROD_OIL INJ_H2O PROD_OIL INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	ACTIVE P & A ACTIVE TA INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-1305 42165003400000 F SSAU-6408 42165003410000 F SSAU-0201 42165003420000 F SSAU-0202 42165003430000 F SSAU-5101 42165003440000 F SSAU-5102 42165003450000 F SSAU-5103 42165003450000 F SSAU-5103 42165003460000 F SSAU-5103 42165003620000 F	PROD_OIL INJ_H2O PROD_OIL INJ_H2O INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	P & A ACTIVE TA INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-640842165003410000SSAU-020142165003420000SSAU-020242165003430000SSAU-510142165003440000SSAU-510242165003450000SSAU-510342165003460000FSSAU-1501	INJ_H2O PROD_OIL INJ_H2O INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	ACTIVE TA INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-0201 42165003420000 F SSAU-0202 42165003430000 F SSAU-5101 42165003440000 F SSAU-5102 42165003450000 F SSAU-5103 42165003460000 F SSAU-5103 42165003620000 F	PROD_OIL INJ_H2O INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	TA INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-020242165003430000SSAU-510142165003440000SSAU-510242165003450000SSAU-510342165003460000FSSAU-150142165003620000F	INJ_H2O INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	INACTIVE ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-5101 42165003440000 1 SSAU-5102 42165003450000 1 SSAU-5103 42165003460000 F SSAU-1501 42165003620000 F	INJ_WAG INJ_WAG PROD_OIL PROD_OIL INJ_WAG	ACTIVE ACTIVE ACTIVE ACTIVE
SSAU-510242165003450000ISSAU-510342165003460000FSSAU-150142165003620000F	INJ_WAG PROD_OIL PROD_OIL INJ_WAG	ACTIVE ACTIVE ACTIVE
SSAU-510342165003460000FSSAU-150142165003620000F	PROD_OIL PROD_OIL INJ_WAG	ACTIVE ACTIVE
SSAU-1501 42165003620000 F	PROD_OIL INJ_WAG	ACTIVE
	INJ_WAG	
	_	ACTIVE
SSAU-1502 42165003630000	PROD_OIL	
SSAU-1503 42165003690000 F		TA
SSAU-6301 42165003870000 F	PROD_OIL	ACTIVE
SSAU-6302 42165003880000 F	PROD_OIL	ACTIVE
SSAU-6303 42165003890000 F	PROD_OIL	ACTIVE
SSAU-6304 42165003900000	INJ_WAG	ACTIVE
SSAU-6305 42165003910000	INJ_H2O	ACTIVE
SSAU-6306 42165003920000 F	PROD_OIL	ACTIVE
SSAU-6307 42165003930000	INJ_H2O	ACTIVE
SSAU-6308 42165003940000 F	PROD_OIL	INACTIVE
SSAU-7301 42165004090000 F	PROD_OIL	ACTIVE
SSAU-7302 42165004100000 F	PROD_OIL	ACTIVE
SSAU-8201 42165004110000 F	PROD_OIL	INACTIVE
SSAU-8202 42165004120000 F	PROD_OIL	P & A
SSAU-8203 42165004130000 F	PROD_OIL	P & A
SSAU-7701 42165004140000 F	PROD_OIL	ACTIVE
SSAU-7702 42165004150000	INJ_H2O	ACTIVE
SSAU-8101 42165004160000 F	PROD_OIL	INACTIVE
SSAU-8102 42165004170000 F	PROD_OIL	ACTIVE
SSAU-8103 42165004180000 F	PROD_OIL	INACTIVE
SSAU-8104 42165004190000	INJ_H2O	ACTIVE
SSAU-7401W 42165004230000	INJ_H2O	P & A
SSAU-6101 42165004240000 F	PROD_OIL	ACTIVE
SSAU-4501 42165008710000 F	PROD_OIL	P & A
SSAU-8401 42165009570000	INJ_H2O	P & A

SSAU-5601	42165009880000	PROD_OIL	ACTIVE
SSAU-5602	42165009890000	PROD_OIL	P & A
SSAU-5603	42165009900000	PROD_OIL	P & A
SSAU-3001	42165011170000	PROD_OIL	INACTIVE
SSAU-0301	42165011180000	PROD_OIL	P & A
SSAU-3401W	42165011950000	INJ_WAG	ACTIVE
SSAU-3402	42165012040000	PROD_OIL	ACTIVE
SSAU-3403	42165012050000	PROD_OIL	ACTIVE
SSAU-3404	42165012060000	INJ_WAG	ACTIVE
SSAU-2807	42165012130000	PROD_OIL	ACTIVE
SSAU-2808	42165012140000	INJ_WAG	ACTIVE
SSAU-1601	42165012320000	INJ_WAG	ACTIVE
SSAU-1602	42165012330000	PROD_OIL	ACTIVE
SSAU-1603	42165012340000	PROD_OIL	ACTIVE
SSAU-1604	42165012350000	INJ_WAG	ACTIVE
SSAU-1605	42165012360000	PROD_OIL	ACTIVE
SSAU-1606W	42165012370000	INJ_WAG	ACTIVE
SSAU-1607	42165012380000	PROD_OIL	ACTIVE
SSAU-1608	42165012390000	INJ_WAG	ACTIVE
SSAU-2601	42165012430000	PROD_OIL	P & A
SSAU-2501	42165012770000	PROD_OIL	ACTIVE
SSAU-2801	42165012830000	PROD_OIL	P & A
SSAU-2802	42165012840000	INJ_WAG	SHUT-IN
SSAU-2803	42165012850000	PROD_OIL	ACTIVE
SSAU-2804	42165012860000	INJ_WAG	ACTIVE
SSAU-2805W	42165012870000	INJ_WAG	ACTIVE
SSAU-2806	42165012880000	PROD_OIL	ACTIVE
SSAU-0903	42165014280000	INJ_WAG	P & A
SSAU-0902	42165014290000	PROD_OIL	P & A
SSAU-0901W	42165014300000	INJ_WAG	P & A
SSAU-5701	42165014410000	PROD_OIL	P & A
SSAU-0101	42165015120000	INJ_H2O	ТА
SSAU-2001	42165015590000	PROD_OIL	P & A
SSAU-0102	42165015620000	PROD_OIL	P & A
SSAU-2202	42165015770000	PROD_OIL	ACTIVE
SSAU-7512	42165015790000	PROD_OIL	P & A
SSAU-5516	42165015800000	INJ_WAG	ACTIVE
SSAU-4101	42165017730000	INJ_WAG	ACTIVE
SSAU-6501	42165017790000	PROD_OIL	P & A
SSAU-6502	42165017800000	INJ_H2O	P & A
SSAU-6503	42165017810000	PROD_OIL	P & A

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SSAU-7501	42165017830000	PROD_OIL	ACTIVE
SSAU-7502	42165017840000	PROD_OIL	INACTIVE
SSAU-7503	42165017850000	PROD_OIL	P & A
SSAU-7504	42165017860000	PROD_OIL	ACTIVE
SSAU-7505	42165017870000	PROD_OIL	ACTIVE
SSAU-7506W	42165017880000	INJ_H2O	ACTIVE
SSAU-7507W	42165017890000	INJ_H2O	ACTIVE
SSAU-7508	42165017900000	PROD_OIL	ACTIVE
SSAU-7509	42165017910000	PROD_OIL	INACTIVE
SSAU-7510	42165017920000	PROD_OIL	ACTIVE
SSAU-7511	42165017930000	INJ_H2O	ACTIVE
SSAU-5501	42165017940000	PROD_OIL	ACTIVE
SSAU-5502	42165017950000	INJ_WAG	ACTIVE
SSAU-5503	42165017960000	PROD_OIL	P & A
SSAU-5504W	42165017970000	INJ_WAG	ACTIVE
SSAU-5505	42165017980000	PROD_OIL	P & A
SSAU-5506	42165017990000	INJ_WAG	ACTIVE
SSAU-5507	42165018000000	PROD_OIL	ACTIVE
SSAU-5508	42165018010000	INJ_WAG	ACTIVE
SSAU-5509	42165018020000	INJ_WAG	ACTIVE
SSAU-5510	42165018030000	PROD_OIL	ACTIVE
SSAU-5511W	42165018040000	INJ_WAG	ACTIVE
SSAU-5512	42165018050000	PROD_OIL	P & A
SSAU-5513	42165018060000	PROD_OIL	ТА
SSAU-5514	42165018070000	PROD_OIL	P & A
SSAU-5515	42165018080000	PROD_OIL	P & A
SSAU-2901	42165018090000	PROD_OIL	ACTIVE
SSAU-2902	42165018100000	INJ_WAG	ACTIVE
SSAU-2903	42165018110000	PROD_OIL	P & A
SSAU-2904W	42165018120000	INJ_WAG	ACTIVE
SSAU-2905	42165018130000	INJ_WAG	SHUT-IN
SSAU-2906	42165018140000	INJ_WAG	ACTIVE
SSAU-2907	42165018150000	PROD_OIL	ACTIVE
SSAU-2908	42165018160000	INJ_WAG	ACTIVE
SSAU-2909	42165018170000	INJ_WAG	ТА
SSAU-2910	42165018180000	PROD_OIL	ACTIVE
SSAU-2911	42165018190000	PROD_OIL	ТА
SSAU-2912	42165018200000	PROD_OIL	ACTIVE
SSAU-2913W	42165018210000	INJ_H2O	INACTIVE
SSAU-2914	42165018220000	INJ_H2O	ACTIVE
SSAU-4102	42165018230000	PROD_OIL	ACTIVE

SSAU-4103	42165018240000		ACTIVE
SSAU-4105 SSAU-4104W		PROD_OIL	
	42165018250000	INJ_WAG	ACTIVE
SSAU-4105 SSAU-4106	42165018260000	PROD_OIL	ACTIVE
	42165018270000	PROD_OIL	ТА
SSAU-4107	42165018280000	INJ_WAG	ACTIVE
SSAU-4108W	42165018290000	INJ_WAG	ACTIVE
SSAU-4109	42165018300000	PROD_OIL	ACTIVE
SSAU-4110	42165018310000	INJ_WAG	ACTIVE
SSAU-4111	42165018320000	PROD_OIL	ACTIVE
SSAU-4114	42165018330000	INJ_WAG	ACTIVE
SSAU-4116	42165018340000	INJ_WAG	ACTIVE
SSAU-4115	42165018350000	PROD_OIL	ACTIVE
SSAU-4112	42165018360000	INJ_WAG	ACTIVE
SSAU-4113	42165018370000	PROD_OIL	P & A
SSAU-6201	42165018380000	INJ_WAG	ACTIVE
SSAU-6202	42165018390000	PROD_OIL	ACTIVE
SSAU-6203	42165018400000	INJ_WAG	ACTIVE
SSAU-6204	42165018410000	INJ_H2O	ACTIVE
SSAU-6205	42165018420000	PROD_OIL	ACTIVE
SSAU-6206	42165018430000	PROD_OIL	ACTIVE
SSAU-6208	42165018440000	PROD_OIL	P & A
SSAU-6209	42165018450000	INJ_H2O	ACTIVE
SSAU-6210	42165018460000	PROD_OIL	ACTIVE
SSAU-3101	42165018470000	PROD_OIL	ACTIVE
SSAU-3102	42165018480000	INJ_WAG	ACTIVE
SSAU-3103	42165018490000	PROD_OIL	ACTIVE
SSAU-3107	42165018510000	INJ_WAG	P & A
SSAU-3108	42165018520000	PROD_OIL	ACTIVE
SSAU-3109	42165018530000	PROD_OIL	ACTIVE
SSAU-3110	42165018540000	INJ_H2O	ACTIVE
SSAU-3111	42165018550000	PROD_OIL	ACTIVE
SSAU-3106	42165018560000	INJ_WAG	ACTIVE
SSAU-2204	42165018570000	PROD_OIL	ACTIVE
SSAU-2201	42165018580000	INJ_WAG	ACTIVE
SSAU-2203	42165018590000	INJ_WAG	ACTIVE
SSAU-2205	42165018600000	PROD_OIL	P & A
SSAU-2206	42165018610000	PROD_OIL	ACTIVE
SSAU-2208	42165018620000	INJ_WAG	ACTIVE
SSAU-2207	42165018630000	PROD_OIL	INACTIVE
SSAU-2209	42165018640000	PROD_OIL	ACTIVE
SSAU-2210	42165018650000	 INJ_WAG	ACTIVE

SSAU-2211	42165018660000		ACTIVE
SSAU-2211 SSAU-3104	42165018660000	PROD_OIL INJ_H2O	P & A
SSAU-5104 SSAU-6207	42165018730000	PROD_OIL	ACTIVE
SSAU-6207 SSAU-7601	42165018740000	PROD_OIL PROD_OIL	ACTIVE
SSAU-7602	42165018800000	PROD_OIL PROD_OIL	ACTIVE
SSAU-7603 SSAU-7604	42165018820000 42165018830000	INJ_H2O	TA P & A
SSAU-7004 SSAU-7001	42165018850000	PROD_OIL	ACTIVE
	42165020110000	PROD_OIL	ACTIVE
SSAU-4901		PROD_OIL	
SSAU-4902	42165020120000	PROD_OIL	P & A
SSAU-4903 SSAU-4904	42165020130000 42165020140000	PROD_OIL	ACTIVE
		INJ_WAG	ACTIVE
SSAU-4905	42165020150000	PROD_OIL	ACTIVE
SSAU-3201	42165020170000	PROD_OIL	P & A
SSAU-3202	42165020180000	INJ_WAG	INACTIVE
SSAU-3203	42165020190000	PROD_OIL	ACTIVE
SSAU-3204	42165020200000	INJ_WAG	ACTIVE
SSAU-3205	42165020210000	PROD_OIL	TA
SSAU-3206	42165020220000	INJ_WAG	ACTIVE
SSAU-3207	42165020230000	PROD_OIL	ACTIVE
SSAU-3208	42165020240000	INJ_WAG	ACTIVE
SSAU-2301	42165020250000	PROD_OIL	ACTIVE
SSAU-2302	42165020260000	INJ_WAG	ACTIVE
SSAU-2303	42165020270000	PROD_OIL	INACTIVE
SSAU-2304W	42165020280000	INJ_WAG	P & A
SSAU-2305	42165020290000	PROD_OIL	ACTIVE
SSAU-2306	42165020300000	INJ_WAG	ACTIVE
SSAU-2307	42165020310000	PROD_OIL	ACTIVE
SSAU-2308	42165020320000	INJ_WAG	ACTIVE
SSAU-2101	42165020630000	PROD_OIL	ACTIVE
SSAU-1701	42165020650000	PROD_OIL	ACTIVE
SSAU-1702	42165020660000	PROD_OIL	ACTIVE
SSAU-1101	42165020680000	PROD_OIL	ACTIVE
SSAU-1001	42165020690000	PROD_OIL	ACTIVE
SSAU-1002W	42165020700000	INJ_WAG	ACTIVE
SSAU-1003	42165020710000	INJ_WAG	ACTIVE
SSAU-1004	42165020720000	PROD_OIL	ACTIVE
SSAU-1005	42165020730000	PROD_OIL	ACTIVE
SSAU-1006W	42165020740000	INJ_WAG	ACTIVE
SSAU-1007	42165020750000	PROD_OIL	ACTIVE
SSAU-1008	42165020760000	INJ_WAG	ACTIVE

SSAU-1009	42165020770000		ACTIVE
	42165020770000	PROD_OIL	
SSAU-1010		INJ_WAG	ACTIVE
SSAU-5201A	42165024290000	PROD_OIL	ACTIVE
SSAU-5202	42165024300000	INJ_WAG	ACTIVE
SSAU-5203	42165024310000	PROD_OIL	P & A
SSAU-5204A	42165024330000	INJ_WAG	ACTIVE
SSAU-5401	42165025670000	PROD_OIL	ACTIVE
SSAU-5402	42165025680000	PROD_OIL	ACTIVE
SSAU-5403	42165025690000	INJ_WAG	P & A
SSAU-5404W	42165025700000	INJ_WAG	ACTIVE
SSAU-4201	42165025740000	INJ_WAG	P & A
SSAU-4202	42165025750000	PROD_OIL	ТА
SSAU-4203	42165025760000	INJ_WAG	P & A
SSAU-4204	42165025770000	INJ_WAG	ACTIVE
SSAU-7513	42165025950000	PROD_OIL	P & A
SSAU-3105A	42165025990000	PROD_OIL	P & A
SSAU-2602A	42165028350000	INJ_WAG	ACTIVE
SSAU-2502	42165028520000	INJ_WAG	ACTIVE
SSAU-5801	42165032350000	PROD_OIL	ТА
SSAU-5702	42165032360000	PROD_OIL	P & A
SSAU-5704	42165032380000	PROD_OIL	ТА
SSAU-5705	42165032390000	INJ_H2O	P & A
SSAU-6901	42165032410000	PROD_OIL	P & A
SSAU-7201	42165033030000	PROD_OIL	ACTIVE
SSAU-5001A	42165033170000	INJ_WAG	ACTIVE
SSAU-2214	42165100130000	PROD_OIL	ACTIVE
SSAU-2603	42165100340000	PROD_OIL	ACTIVE
SSAU-4310	42165100700000	PROD_OIL	P & A
SSAU-1508	42165100770000	PROD_OIL	P & A
SSAU-3703	42165101260000	PROD_OIL	P & A
SSAU-3209	42165101610000	PROD_OIL	ACTIVE
SSAU-1906	42165101920000	PROD_OIL	P & A
SSAU-4311	42165101990000	PROD_OIL	ACTIVE
SSAU-4312	42165102000000	PROD_OIL	ТА
SSAU-0503	42165102010000	INJ_H2O	P & A
SSAU-3114W	42165106050000	INJ_H2O	P & A
SSAU-3113	42165106300000	PROD_OIL	P & A
SSAU-6211	42165300130000	INJ_H2O	ACTIVE
SSAU-3807	42165300140000	INJ_H2O	P & A
SSAU-3704	42165300150000	 INJ_H2O	ACTIVE
SSAU-0403	42165300160000	 INJ_H2O	P & A

SSAU-6212	42165300170000	INJ_H2O	ACTIVE
SSAU-7202	42165300180000	INJ_H2O	INACTIVE
SSAU-4907	42165300540000	INJ_H2O	ACTIVE
SSAU-2213	42165300550000	INJ_H2O	ТА
SSAU-0303	42165300560000	INJ_H2O	P & A
SSAU-0603	42165300570000	INJ_H2O	ACTIVE
SSAU-4602	42165301250000	INJ_H2O	TA
SSAU-4401	42165301260000	INJ_H2O	ACTIVE
SSAU-2003	42165301270000	INJ_H2O	INACTIVE
SSAU-1907	42165301280000	INJ_H2O	P & A
SSAU-1802	42165301290000	INJ_H2O	TA
SSAU-4802	42165301300000	INJ_H2O	TA
SSAU-8204	42165301310000	INJ_H2O	ТА
SSAU-3105R	42165303490000	PROD_OIL	P & A
SSAU-5514R	42165304820000	INJ_WAG	ACTIVE
SSAU-7514	42165304840000	INJ_H2O	ACTIVE
SSAU-1803	42165304850000	INJ_H2O	ACTIVE
SSAU-2915	42165304890000	PROD_OIL	ACTIVE
SSAU-2405	42165305540000	INJ_WAG	ACTIVE
SSAU-3910	42165305550000	PROD_OIL	P & A
SSAU-2406	42165305660000	PROD_OIL	ACTIVE
SSAU-2505	42165305670000	PROD_OIL	ТА
SSAU-2504	42165305680000	INJ_WAG	ACTIVE
SSAU-2310	42165311550000	PROD_OIL	ACTIVE
SSAU-4902R	42165311560000	INJ_WAG	ACTIVE
SSAU-2710	42165311570000	INJ_WAG	ACTIVE
SSAU-2810	42165311580000	PROD_OIL	ACTIVE
SSAU-2809	42165311590000	INJ_WAG	ACTIVE
SSAU-2309	42165311600000	PROD_OIL	ACTIVE
SSAU-2312	42165311610000	PROD_OIL	ACTIVE
SSAU-2311	42165311620000	INJ_WAG	ACTIVE
SSAU-2709	42165311760000	PROD_OIL	ACTIVE
SSAU-3119	42165312170000	PROD_OIL	ACTIVE
SSAU-2218	42165312530000	INJ_WAG	ACTIVE
SSAU-2219	42165312540000	PROD_OIL	ACTIVE
SSAU-2217	42165312550000	INJ_WAG	ACTIVE
SSAU-2216	42165312560000	PROD_OIL	ACTIVE
SSAU-2712	42165312640000	INJ_WAG	ACTIVE
SSAU-2711	42165312650000	PROD_OIL	ACTIVE
SSAU-2811	42165312660000	INJ_WAG	ACTIVE
SSAU-2812	42165312670000	PROD_OIL	ACTIVE

SSAU-3116	42165313540000	INIL WAC	ACTIVE
SSAU-3116 SSAU-3306	42165313540000	INJ_WAG	
SSAU-3210	42165313650000	INJ_WAG	ACTIVE ACTIVE
		PROD_OIL	
SSAU-3305	42165313660000	PROD_OIL	ACTIVE
SSAU-3211	42165313670000	INJ_WAG	ACTIVE
SSAU-3213	42165313720000	INJ_WAG	ACTIVE
SSAU-3212	42165313730000	PROD_OIL	ACTIVE
SSAU-3519	42165313780000	INJ_WAG	ACTIVE
SSAU-3406	42165313790000	INJ_WAG	ACTIVE
SSAU-3517	42165313800000	INJ_WAG	ACTIVE
SSAU-3405	42165313810000	PROD_OIL	ACTIVE
SSAU-3520	42165313820000	PROD_OIL	P & A
SSAU-3118	42165313830000	INJ_WAG	ACTIVE
SSAU-2220	42165313840000	INJ_WAG	ACTIVE
SSAU-3518	42165313850000	PROD_OIL	ACTIVE
SSAU-3117	42165313860000	PROD_OIL	ACTIVE
SSAU-3115	42165314520000	PROD_OIL	ACTIVE
SSAU-3521	42165314660000	INJ_WAG	ACTIVE
SSAU-4313	42165318840000	PROD_OIL	ACTIVE
SSAU-4314	42165318850000	PROD_OIL	P & A
SSAU-4119	42165318860000	INJ_WAG	ACTIVE
SSAU-4315	42165318870000	PROD_OIL	ACTIVE
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SSAU-4118	42165318890000	PROD_OIL	P & A
SSAU-4011	42165318920000	INJ_WAG	ACTIVE
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SSAU-6310	42165332250000	PROD_OIL	ACTIVE
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SSAU-6309	42165332270000	PROD_OIL	ACTIVE
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	401 (5000010000		
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SSAU-5313	42165332410000	INJ_WAG	ACTIVE
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SSAU-6410	42165335190000	PROD_OIL	ACTIVE
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SSAU-4005R	42165339360000	INJ_WAG	ACTIVE
SSAU-4203R	42165339380000	INJ_WAG	ACTIVE
SSAU-1311	42165340630000	PROD_OIL	ACTIVE
SSAU-1105	42165340860000	PROD_OIL	TA
SSAU-7607	42165341760000	PROD_OIL	P & A
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SSAU-1104	42165342300000	PROD_OIL	ACTIVE
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SSAU-3506R	42165361810000	PROD_OIL	ACTIVE
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SSAU-3123	42165369140000	PROD_OIL	P & A
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SSAU-3123R	42165369440000	PROD_OIL	ACTIVE
SSAU-5503R	42165369580000	PROD_OIL	ACTIVE
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SSAU-3528R	42165374790000	INJ_WAG	ACTIVE
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SSAU-3104R	42165377800000	INJ_WAG	ACTIVE
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SSAU-6217	42165380060000	PROD_OIL	ACTIVE
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SSAU-2317R	42165386290000	PROD_OIL	ACTIVE
SSAU-4113R	42165386310000	PROD_OIL	ACTIVE
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SSAU-4021S	42165386760000	PROD_OIL	ACTIVE
SSAU-4021S	42103380700000	PROD_OIL	ACTIVE

12.2 Regulatory References

Regulations cited in this plan:

1. Texas Administrative Code Title 16 Part 1 Chapter 3 Oil & Gas Division https://texreg.sos.state.tx.us/public/readtac\$ext.ViewTAC?tac_view=4&ti=16&pt=1&ch=3 &rl=Y

2. Oil and Gas Procedure Manual:

https://www.rrc.texas.gov/oil-and-gas/publications-and-notices/manuals/oil-and-gasprocedure-manual/