

Application No. 45079, 45080, 46169, 46170, and 46171

PRE-OPERATIONAL TESTING PROGRAM

Pelican Sequestration Project

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1.0 Facility Information

Facility name: Pelican Sequestration Project
Pelican CCS 1, Pelican CCS 2, Pelican CCS 3, Pelican CCS 4, and Pelican CCS 5 wells

Facility contact: Tyler Spoede, Project Manager
5 Greenway Plaza Houston, TX 77046
713-985-6954 william_spoede@oxy.com

Well location: Livingston Parish, Louisiana

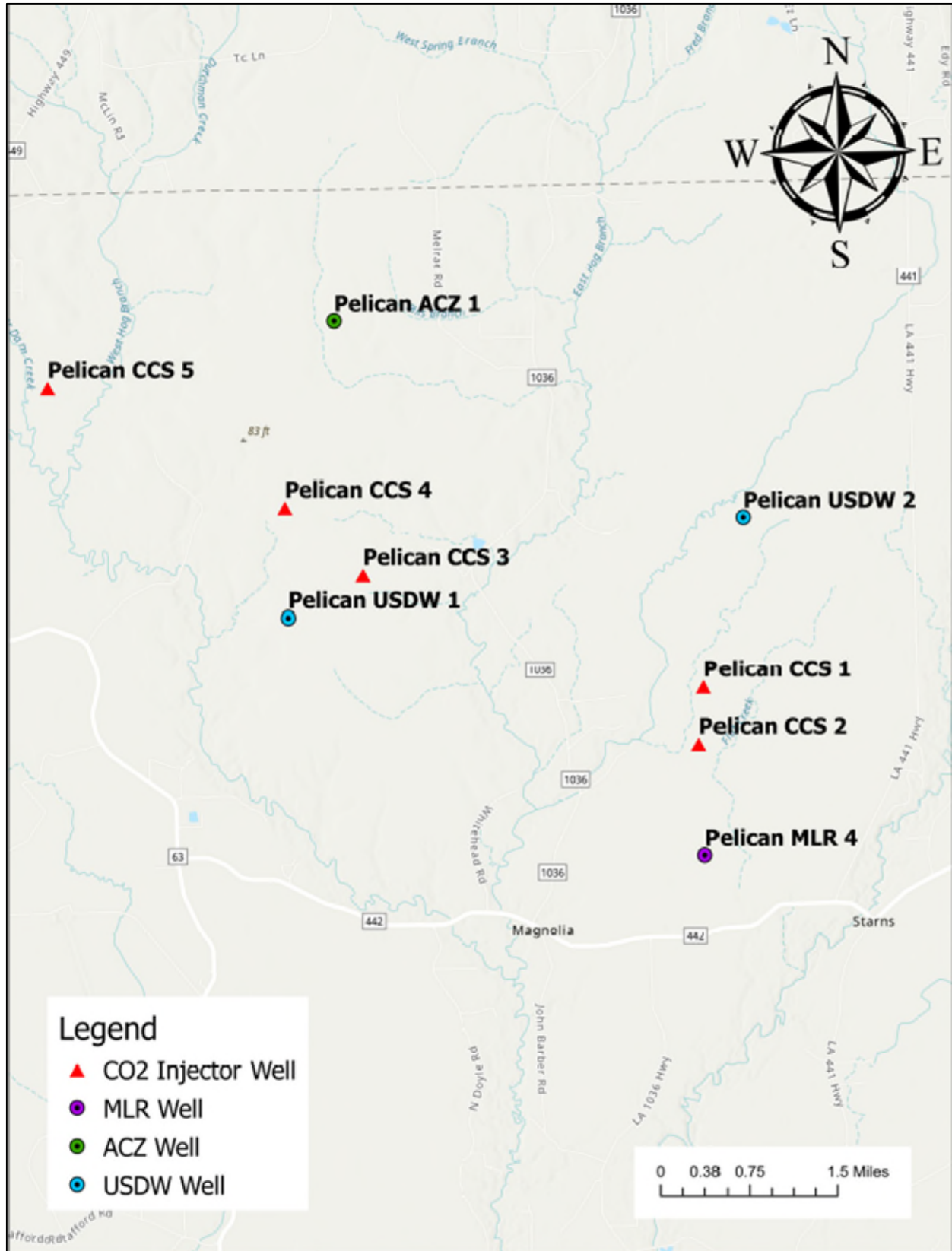
Well Name	Longitude (NAD 27)	Latitude (NAD 27)	Longitude (NAD 83)	Latitude (NAD 83)
Pelican CCS 1	-90° 40' 55.76"	30° 35' 19.16"	-90° 40' 56.10"	30° 35' 19.83"
Pelican CCS 2	-90° 40' 58.83"	30° 34' 53.98"	-90° 40' 59.17"	30° 34' 54.66"
Pelican CCS 3	-90° 43' 50.13"	30° 36' 10.56"	-90° 43' 50.48"	30° 36' 11.24"
Pelican CCS 4	-90° 44' 29.72"	30° 36' 41.03"	-90° 44' 30.06"	30° 36' 41.70"
Pelican CCS 5	-90° 46' 30.21"	30° 37' 35.26"	-90° 46' 30.56"	30° 37' 35.93°

The pre-operational formation testing activities for Pelican Sequestration Project wells Pelican CCS 1, Pelican CCS 2, Pelican CCS 3, Pelican CCS 4, Pelican CCS 5, and monitoring wells described in this attachment are restricted to the pre-injection phase and meet requirements under LAC 43:XVII.3617(B)(1). Testing and monitoring activities during the injection and post-injection phases are described in the Testing and Monitoring Plan along with other non-well related pre-injection baseline activities, such as geophysical and geochemical monitoring.

Pelican Sequestration Project will construct five new CO₂ injector wells, Pelican CCS 1, Pelican CCS 2, Pelican CCS 3, Pelican CCS 4, and Pelican CCS 5. The wells will target storage of CO₂ in the Frio and Anahuac formations, as detailed in the Injection Well Construction Plan of this application.

Pelican Sequestration Project drilled and tested one stratigraphic well, Pelican MLR 4 (SN 975919), in 2022. This well was used to obtain site-based information and additional characterization to complement the geological and numerical simulation models. The location of Pelican MLR 4 relative to the CO₂ injector wells is shown in Figure POT-1. Pelican MLR 4 was designed with the goal of being converted to an In Zone monitoring well for the project in the future to track CO₂ plume extension and pressure front, as described in the Testing and Monitoring Plan. The data acquisition program and information collected from Pelican MLR 4 is presented in the Project Narrative Appendices B and D.

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Figure POT-1—Location of stratigraphic well Pelican MLR 4 to CO₂ Injector Wells

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The Project plans to drill one Above Confining Zone monitoring well (Pelican ACZ 1) and two USDW wells.

The Louisiana Department of Conservation and Energy (C&E) will be notified at least 72 hours prior to conducting all wireline logging operations, well tests, and reservoir tests associated with injection wells per LAC 43:XVII.3617(B)(6).

2.0 Pre-Injection Formation Test Plan – CO₂ Injector Wells (CCS)

The following tests and logs will be run during drilling, casing installation, and completion in the Pelican CCS injector wells in accordance with the testing required under LAC 43:XVII.3617(B)(1) through (B)(6).

The CO₂ injector wells formation testing program includes a combination of advanced logging, sidewall coring, fluid sampling, and formation hydrogeologic testing. This program is complemented by an extensive data acquisition program executed in 2022 in the stratigraphic test well, Pelican MLR .

The pre-operational testing program will determine or verify the depth, fluid salinity, thickness, mineralogy, lithology, porosity, and permeability information of the injection zone, overlying confining zones, and other relevant geologic formations. This data acquisition program will ensure conformance with the injection well construction requirements and establish an accurate baseline data for future monitoring activities.

Table POT-1 lists the logs, tests, and surveys proposed for the Pelican CCS 1, Pelican CCS 2, Pelican CCS 3, Pelican CCS 4, and Pelican CCS 5 wells to comply with LAC 43:XVII.3617(B)(1).

Table POT-1—Logs, Test and Surveys for CO₂ Injector wells [LAC 43:XVII.3617(B)(1)]

Method	Interval (ft)/Well					Purpose
	Pelican CCS 1	Pelican CCS 2	Pelican CCS 3	Pelican CCS 4	Pelican CCS 5	
Open Hole Logs, Surveys, and Sampling During Construction						
Deviation survey [LAC 43:XVII.3617(B)(1)(a)] – Every 100 ft while drilling, as a minimum	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Define well trajectory, displacement, and tortuosity
Wireline - Spontaneous Potential – Surface Casing [LAC 43:XVII.3617(B)(1)(b)(i)]	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Correlation log, volume of shale indicator, estimate salinity
Wireline – Gamma Ray – Surface Casing [LAC 43:XVII.3617(B)(1)(b)(i)]	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Define stratigraphy, correlation log, shale indicator

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Method	Interval (ft)/Well					Purpose
	Pelican CCS 1	Pelican CCS 2	Pelican CCS 3	Pelican CCS 4	Pelican CCS 5	
Wireline - Resistivity – Surface Casing [LAC 43:XVII.3617(B)(1)(b)(i)]	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Fluid identification, estimate salinity, correlation log
Wireline - Density/Neutron – Surface Casing	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Estimate porosity, mineralogical characterization
Wireline - Sonic dipolar – Surface Casing	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Estimate mechanical properties, validation of velocity model, well tie to seismic
Wireline - Caliper – Surface Casing [LAC 43:XVII.3617(B)(1)(b)(i)]	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Identify borehole enlargement and calculate cement volume
Wireline - Resistivity – Long String Casing [LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Fluid identification, estimate salinity, correlation log
Wireline - Caliper – Long String Casing [LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Identify borehole enlargement and calculate cement volume
Wireline - Gamma Ray – Long String Casing LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Define stratigraphy, correlation log, shale indicator
Wireline - Magnetic resonance image – Long String Casing [LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Estimate porosity, pore size distribution, permeability index
Wireline - Sonic dipolar – Long String Casing	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Estimate mechanical properties, validation of velocity model, well tie to seismic

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Method	Interval (ft)/Well					Purpose
	Pelican CCS 1	Pelican CCS 2	Pelican CCS 3	Pelican CCS 4	Pelican CCS 5	
Wireline - Spectral gamma ray – Long String Casing [LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Define uranium-rich formation, clay indicator
Wireline - Density / Neutron – Long String Casing [LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Estimate porosity, mineralogical characterization
Wireline - High-definition image – Long String Casing [LAC 43:XVII.3617(B)(1)(c)(i)]	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Identify fracture, structural information, minimum stress orientation
Wireline - Litho-scanner or equivalent – Long String Casing	3,600 ft to TD	3,600 ft to TD	3,400 ft to TD	3,400 ft to TD	3,400 ft to TD	Identify mineralogy
Wireline - Formation pressure measurement – Long String Casing – Depths to be selected after drilling	Minimum 5 sample points	Minimum 5 sample points	Minimum 5 sample points	Minimum 5 sample points	Minimum 5 sample points	Measure formation pressure
Wireline - Mini Frac with MDT Tool in Confining Zones – Long String Casing	1-2 Tests in upper confining zone	1-2 Tests in upper confining zone	1-2 Tests in upper confining zone	1-2 Tests in upper confining zone	1-2 Tests in upper confining zone	Measure frac gradient in the confining zones
Mud Logging	Surface to TD (every 30 ft)	Surface to TD (every 30 ft)	Surface to TD (every 30 ft)	Surface to TD (every 30 ft)	Surface to TD (every 30 ft)	Identify lithology, hydrocarbon shows, gases composition
Cased Hole Logs and Surveys During Construction						

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Method	Interval (ft)/Well					Purpose
	Pelican CCS 1	Pelican CCS 2	Pelican CCS 3	Pelican CCS 4	Pelican CCS 5	
CBL-VDL-USIT-CCL - Surface Casing [LAC 43:XVII.3617(B)(1)(b)(ii)]	Surface to 3,600 ft	Surface to 3,600 ft	Surface to 3,400 ft	Surface to 3,400 ft	Surface to 3,400 ft	Cement bond, casing integrity. Validate external mechanical integrity
CBL-VDL-USIT-CCL - Long string casing [LAC 43:XVII.3617(B)(1)(C)(ii)]– The well is logged during completions operations.	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Cement bond, casing integrity. Validate external mechanical integrity
Annulus Pressure Test - Long string casing [LAC 43:XVII.3617(B)(1)(d)(i)]	Annular between tubing and long string.	Annular between tubing and long string.	Annular between tubing and long string.	Annular between tubing and long string.	Annular between tubing and long string.	Validate internal mechanical integrity between the tubing, long-string, and packer
Wireline - Activate pulsed neutron, through tubing – Long string casing	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Surface to TD	CO ₂ saturation, baseline for monitoring
Wireline - Casing Inspection Tool - Long string casing [LAC 43:XVII.3617(B)(1)(d)(iv)]	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Wall thickness, corrosion, ovality of tubulars. Validate external mechanical integrity. Baseline for monitoring.
Wireline – Temperature log after the casing has been set and cemented [LAC 43:XVII.3617(B)(1)(b)(ii) and (c)(ii)]	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Surface to TD	Validate cement job on production casing string.

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Notes: Logging depths will be adjusted when the wells are drilled.

The long string section of the injection wells will be drilled with synthetic based mud to ensure well stability while drilling, logging, and cementing and ensure optimum hole conditions during the construction of the well. Therefore, it will not be possible to acquire spontaneous potential logs; however, the project is proposing additional new generation logs to improve reservoir and confining zone characterizations as described in the table above.

The project will not collect whole cores while drilling the long string section in the injection wells, rather sidewall cores will be acquired within the Injection and Confining Zones, as allowed by the hole conditions, to comply with LAC 43:XVII.3617(B)(2). The Project will also collect water samples in the injection zone as shown in Table POT-2 with a wireline formation tester. A detailed well report will be submitted to the commission for each well.

The data acquisition program for the Pelican MLR 4 stratigraphic test well is included in Section 2.0.1 of the Narrative.

Table POT-2—Sidewall cores and water sampling for CO₂ Injector wells [LAC 43:XVII.3617(B)(2)]

Method	Interval (ft)	Samples	Purpose
Open Hole – Wireline - Sidewall core samples	upper confining zone, Anahuac and Frio sands	20-35 attempted samples per well. Depths to be defined once the well is drilled.	Define porosity and permeability, mineralogy, CO ₂ compatibility
Open Hole – Wireline - water samples	Injection Zones: Anahuac and Frio	2 attempted water samples. Depth to be defined after well is drilled	Define fluid temperature, formation pressure, water composition, pH, conductivity, mobility.

Pelican Sequestration Project will record the fluid temperatures, pH, conductivity, and reservoir pressure obtained from the wireline tool while taking the pressure points and water samples in the Injection Zones per LAC (43:XVII.3617(B)(3)). The project also plans to install downhole gauges that will allow us to determine the original pressure and temperature at top of the perforations.

The project plans to perform the analyses as given in Table POT-3 in the sidewall cores to be collected from the injection wells to evaluate the physical and chemical characteristics of the Injection and Confining Zones (LAC 43:XVII.3617(B)(4)(b)).

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Table POT-3—Core analysis to be performed in the whole core plugs and sidewall cores samples.

RSWC Testing
Standard CT scans
High Resolution Core Photography
X-ray Fluorescence
X-ray Diffraction - Bulk and Clay Analysis
Porosity and Permeability at Net Confining Stress
Laser Particle Size Analysis
Thin Section Petrography
SEM (Scanning Electron Microscopy)
Source Rock Pyrolysis
Mercury Injection Capillary Pressure
High Resolution CT scans
CO ₂ Threshold Entry Pressure

The Project will send the water samples to a third-party lab for a complete analysis including pH, conductivity, major cations, major anions, trace metals, dissolved gases, density, and TDS, amongst others. Table POT-4 shows the analytics to be characterized in the downhole samples defined as minimum by the project (LAC 43:XVII.3617(B)(3) and LAC 43:XVII.3617(B)(4)(c)).

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Table POT-4—Analyses and methods for water samples testing in the Injection Zones and above Confining Zone.

Parameter	Analytical Method
Cations: Al, Ba, B, Cd, Ca, Cu, Cr, Fe, Pb, Li, Mg, Mn, Ni, P, K, Si, Na, Sr, Zn	ICP-OES, EPA Method 6010d, ICP-MS Method 200.8 or equivalent
Other Metals: As, U, Co, Se, Pb, Mo, V	ICP-MS Method 200.8 or equivalent
Mercury	EPA 245.7 CVAA, or equivalent
Anions: Cl ⁻ , Br ⁻ , F ⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ , NO ₃ ⁻ , NO ₂ ⁻	Ion Chromatography, EPA Method 300.1 or similar
Alkalinity (carbonate, bicarbonate and hydroxide)	Titration, ASTM D3875.
Gravimetric Total Dissolved Solids (TDS)	Gravimetric Method Standard Methods 2540C, ASTM D5907 or equivalent
Water Density (specific gravity)	ASTM D5057, ASTM D4052 or equivalent
Stable Carbon Isotopes $\delta^{13}\text{C}$ of DIC in Water	Gas Bench and CF-IRMS for $\delta^{13}\text{C}$
Radiocarbon ^{14}C of DIC in Water	AMS for ^{14}C
Hydrogen and Oxygen Isotopes $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of Water	CRDS H ₂ O
Carbon and Hydrogen Isotopes (^{14}C , $\delta^{13}\text{C}$, $\delta^2\text{H}$) of Dissolved Methane in Water	Offline Prep & Dual Inlet IRMS for $\delta^{13}\text{C}$; AMS for ^{14}C
Compositional Analysis of Dissolved Gas in Water (including N ₂ , CO ₂ , O ₂ , Ar, H ₂ , He, CH ₄ , C ₂ H ₆ , C ₃ H ₈ , iC ₄ H ₁₀ , nC ₄ H ₁₀ , iC ₅ H ₁₂ , nC ₅ H ₁₂ , and C ₆ +))	GC, ASTM 1945D, RSK 175 or equivalent
pH	ASTM D1293, EPA 150.23 or equivalent
Temperature	ASTM 2550
Conductivity	ASTMD1125
Conductivity (field)	EPA 120.1
ICP-OES = inductively coupled plasma optic emission spectrometry; ICP-MS = inductively coupled plasma mass spectrometry; GC/MS = gas chromatography–mass spectrometry; AMS = accelerator mass spectrometry; CRDS = cavity ring down spectrometry; IRMS = isotope ratio mass spectrometry; CVAA: Cold Vapor Atomic Absorption; DIC: Dissolved Inorganic Carbon	

The static fluid level of the injection zones will be measured per LAC 43:XVII.3617(B)(3) after the completion of the wells during the step rate test, injectivity tests, and fall off tests((LAC 43:XVII.3617(B)(5)). The Project does not recommend acquiring the fluid samples though the open hole DST, performing a pump off, or swabbing after the well is completed, due to the potential for sand production when negative drawdown is applied to the reservoir resulting in potential damage of the well

To comply with LAC 43:XVII.3617(B)(4), which requires the owner or operator to determine or calculate fracture pressure and other physical and chemical characteristics of the injection and confining zones, the proposed data acquisition program in the CO₂ injection wells includes formation testing/logging, rotary sidewall core sampling and analyses, wireline mini-frac (Table POT-1), and hydrogeologic testing to determine the physical and chemical characteristics of the injection and confining zones. This program will complement the data acquired in 2022 by the stratigraphic well, Pelican MLR 4, during the initial site characterization and further serves as a baseline prior to commencing CO₂ injection.

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Upon completion and prior to injection in the sequestration wells, the Project will conduct the tests described in Table POT-5 to verify hydrogeologic characteristics of the injection zone and define fracture pressure for the injection zone and maximum parameters for ((LAC 43:XVII.3617(B)(4)(a) and LAC 43:XVII.3617(B)(5)).

Table POT-5—Summary of Pre-Injection Testing to evaluate reservoir condition.

Method	Comments
Step Rate Test (SRT) (Injection Target)	Determine fracture pressure in the injection zone, and define rate of injection for the injectivity and fall off test
Injectivity Test (Injection target)	Evaluate injectivity on the well
Pressure Fall-Off Test (Injection Target)	Determine transmissibility, skin factor, and well flowing and static pressures

3.0 Pelican MLR 4 – Recompletion as an In Zone Monitoring Well

As described in the previous section, the Pelican MLR 4 stratigraphic well will be recompleted as an in-zone monitoring well. In addition to the data acquired during the stratigraphic campaign in 2022, the well will be tested for mechanical integrity after the recompletion. A pulse neutron baseline will be acquired as well. Table POT-6 shows the logs and tests that will be performed during and after the recompletion of the well.

Table POT-6—Cased hole logs for Pelican MLR 4

Cased Hole Logs During and After Recompletion as an In-Zone monitoring well		
Method	Interval (ft)	Purpose
CBL-VDL-USIT-CCL - Long String Casing.	The log will be run after recompletion to validate the quality of the squeeze job proposed.	Cement bond, casing integrity. Validate external mechanical integrity.
Annulus Pressure Test - Long String Casing	Annular between tubing and long string.	Validate internal mechanical integrity between the tubing, long string, and packer.
Wireline – Activate Pulsed Neutron, Through Tubing – Long String Casing	Surface to PBTD (PBTD at 7841 ft-md)	CO ₂ saturation, baseline for monitoring.
Wireline - Casing Inspection Tool - Long String Casing	Surface to PBTD (PBTD at 7841 ft-md)	Wall thickness, corrosion, ovality of tubulars. Validate external mechanical integrity. Baseline for monitoring.

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4.0 Pre-Injection Formation Test Plan – Above-Confining-Zone Monitoring Well (ACZ)

Pelican ACZ 1 will be a new Above Confining Zone monitoring drilled to 5,250 ft-MD as part of the Project. Table POT-7 shows the proposed logging, surveys, and mud log sampling for this well.

Table POT-7—Logging, survey and sampling for Pelican ACZ 1

Method	Interval (ft)	Purpose
Open hole logs, surveys and sampling during construction		
Deviation survey	Every 100 ft while drilling as minimum, from surface to TD.	Define well trajectory, displacement and tortuosity.
Wireline- Spontaneous Potential – Surface Casing	Surface to TD	Correlation log, volume of shale indicator, estimate salinity
Wireline- Gamma Ray – Surface Casing	Surface to TD	Define stratigraphy, correlation log, shale indicator
Wireline –Resistivity – Surface Casing	Surface to TD	Fluid identification, estimate salinity, correlation log
Wireline – Caliper – Surface Casing	Surface to TD	Identify borehole enlargement and calculate cement volume.

The original pressure and temperature in the above confining zone will be measured with a downhole gauge installed in the tubing ported to the reservoir below the packer, as described in the Injection Well Construction Plan (CON). This well will be acquiring water samples in the Jasper equivalent aquifer, and the samples will be analyzed as described in the Testing and Monitoring Plan (TM).

5.0 Pre-Injection Test Plan – USDW Monitoring Wells

Pelican USDW 1 and Pelican USDW 2 will be drilled to the base of the Jasper equivalent aquifer similar to the Above Confining Zone monitoring wells, to track water quality and provide more coverage across the AOR for water sampling in the USDW. The well configuration is described in the Injection Well Construction Plan (CON).

Table POT-8 shows the proposed logging, surveys, and mud log sampling for these wells.

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Table POT-8—Logging, survey and sampling for Pelican USDW 1 and Pelican USDW 2

Method	Interval (ft)	Purpose
Open hole logs, surveys and sampling during construction		
Deviation survey	Every 100 ft while drilling as minimum, from surface to TD.	Define well trajectory, displacement and tortuosity.
Wireline- Spontaneous Potential – Surface Casing	Surface to TD	Correlation log, volume of shale indicator, estimate salinity
Wireline –Resistivity – Surface Casing	Surface to TD	Fluid identification, estimate salinity, correlation log
Wireline – Caliper – Surface Casing	Surface to TD	Identify borehole enlargement and calculate cement volume.

Detailed procedures and descriptions for each of the logging tools and tests are included in the Quality Assurance and Surveillance Plan (QASP).

All pre-injection testing procedures for logging, sampling, and testing, as required by LAC 43:XVII.3617(B), will be submitted to the Commissioner for review. The results of the testing activities will be documented in a report and submitted to the Commissioner after the well is drilled and testing activities have been completed, but before the start of CO₂ injection operations

The Pelican Sequestration Project will notify C&E at least 30 days prior to conducting a test and provide a detailed description of the testing procedure. Notice and the opportunity to witness these tests/logs shall be provided to C&E at least 72 hours in advance of a given test/log per LAC 43:XVII.3617(B)(6).