

# **Underground Injection Control – Class VI Permit Application for**

**High West CCS Project  
Spoonbill No. 001 to 005**

**St. Charles and Jefferson Parishes, Louisiana**

## **SECTION 6 – PLUGGING PLAN**

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## SECTION 6 – PLUGGING PLAN

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## 6.1 Introduction

This plan for the High West CCS Project was prepared to meet the requirements of Statewide Order (SWO) 29-N-6, **§3631**. This plan provides the steps that will be taken to plug and abandon the injection wells. Plugging activities required for the monitoring wells associated with this project are also discussed. Complete plugging and abandonment (P&A) prognoses have been included in *Appendix H – Plugging and Abandonment*.

## 6.2 Injection Well Zonal Isolation and Final Plugging and Abandonment

As described in *Section 4 – Engineering Design and Operating Strategy*, each injection well will be completed with a single injection interval within the gross injection zone, with each well targeting a separate interval. Each well will be injected into for 20 years, or until the available storage capacity has been fully utilized. At the end of injection, the perforations will be isolated with a plug, and monitoring of the gross injection interval will continue.

Once the monitoring phase is complete, and the regulator approves project cessation, Spoonbill No. 001 through 005, and the associated monitoring wells will be permanently plugged and abandoned. The plugging operations for the injection and monitoring wells will be performed according to the procedures and designs that prevent CO<sub>2</sub> or formation fluids in the injection zone from migrating to Underground Sources of Drinking Water (USDW).

The following details outline the plugging procedures for the injection and monitoring wells. For the High West CCS Project, two types of plugs will be used:

- Wireline-set bridge plugs will isolate the injection zones.
- Cement plugs will be set to isolate the gross injection interval and USDW during final plugging and abandonment.

Pre-closure well schematics are shown in Figures 6-1 through 6-5 (SWO 29-N-6 **§3631.A.3.i**).

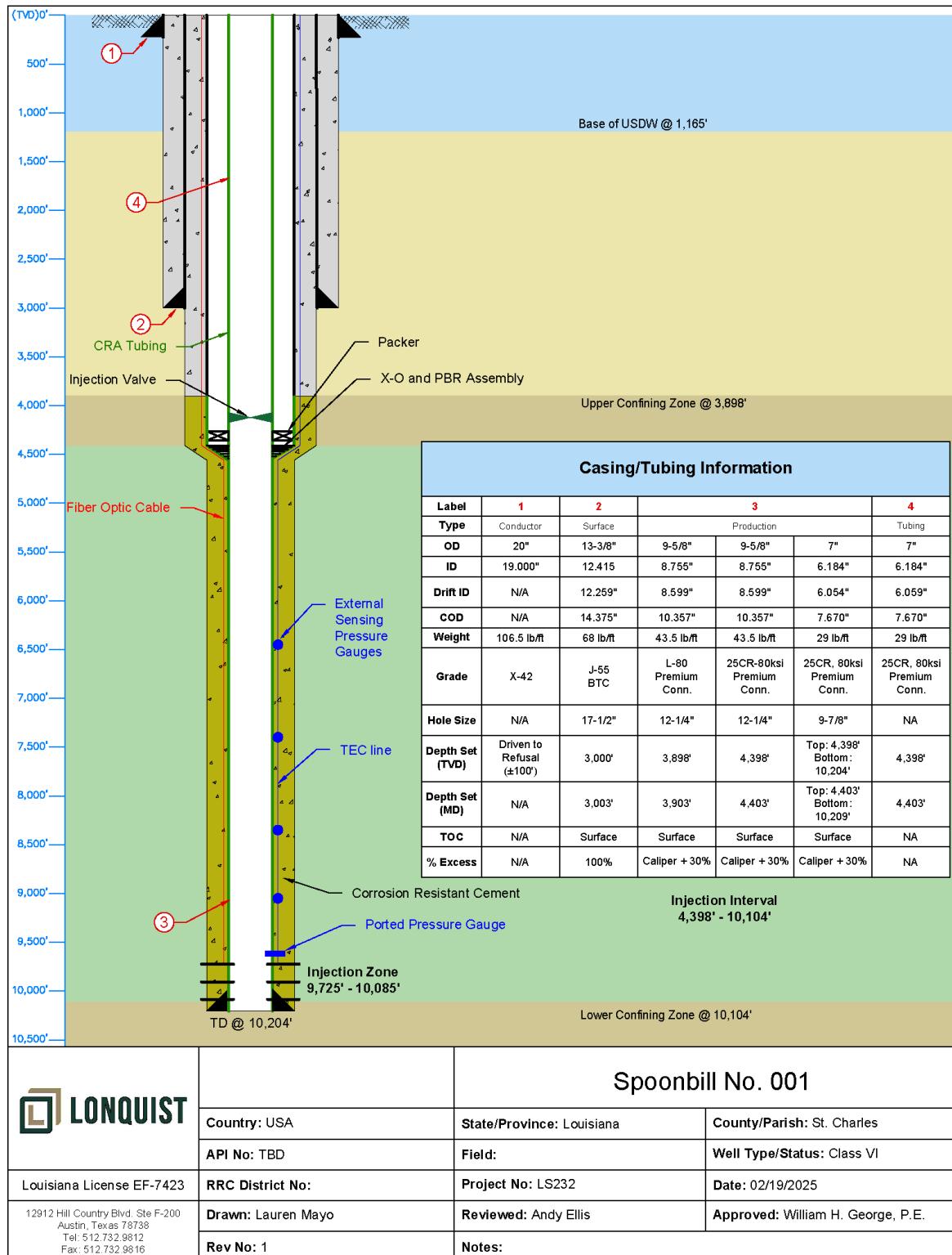


Figure 6-1 – Pre-closure Wellbore Schematic, Spoonbill No. 001

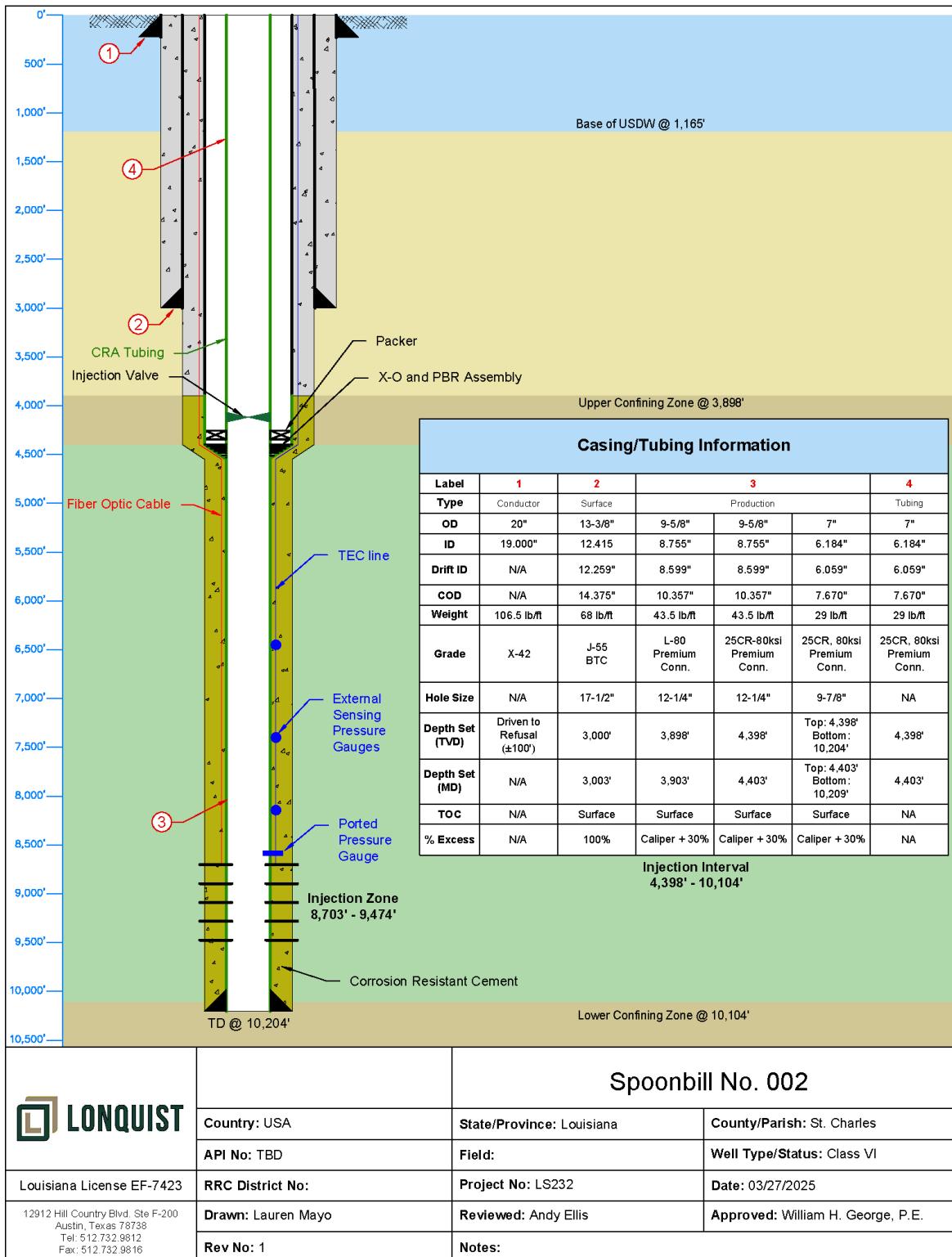


Figure 6-2 – Pre-closure Wellbore Schematic, Spoonbill No. 002

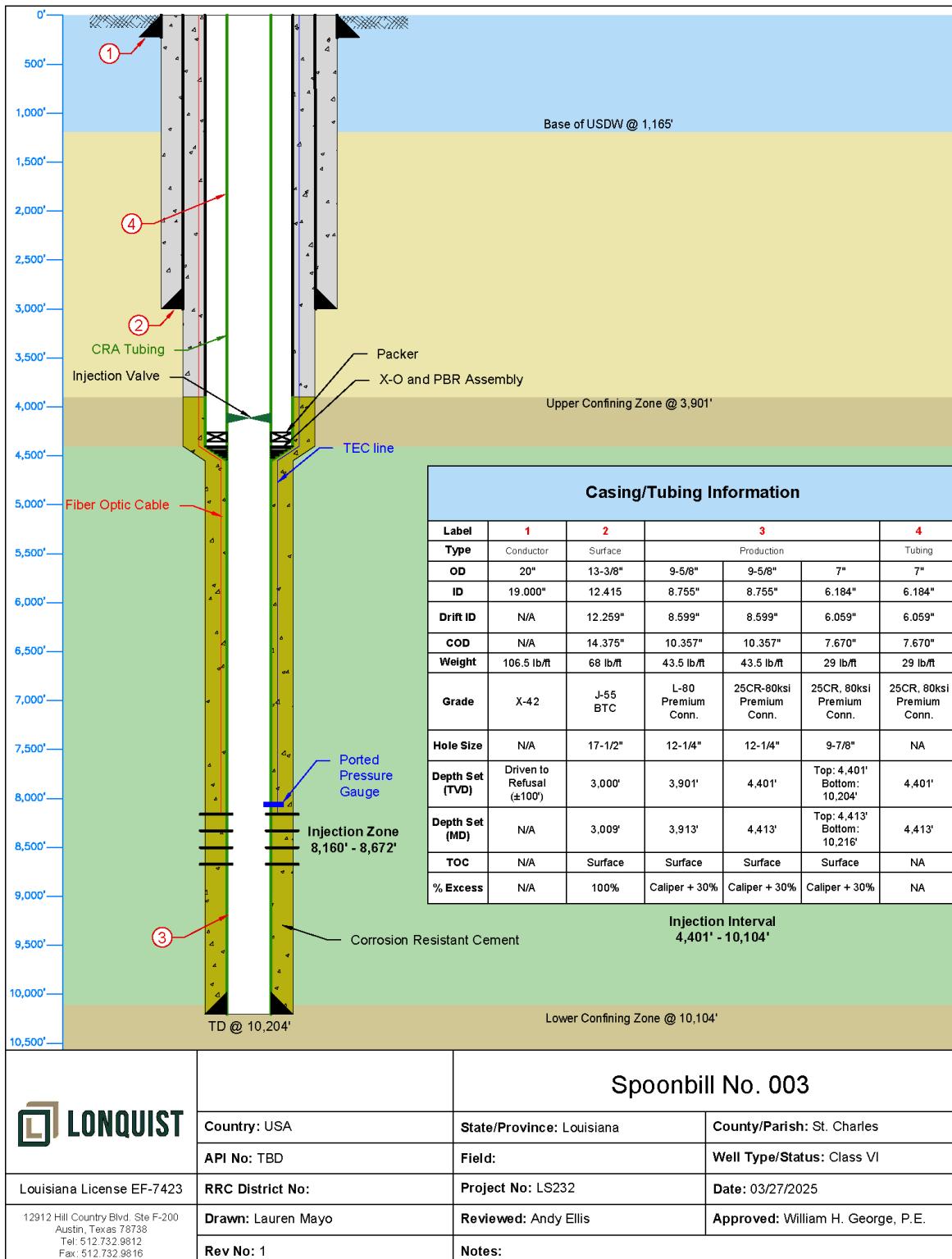


Figure 6-3 – Pre-closure Wellbore Schematic, Spoonbill No. 003

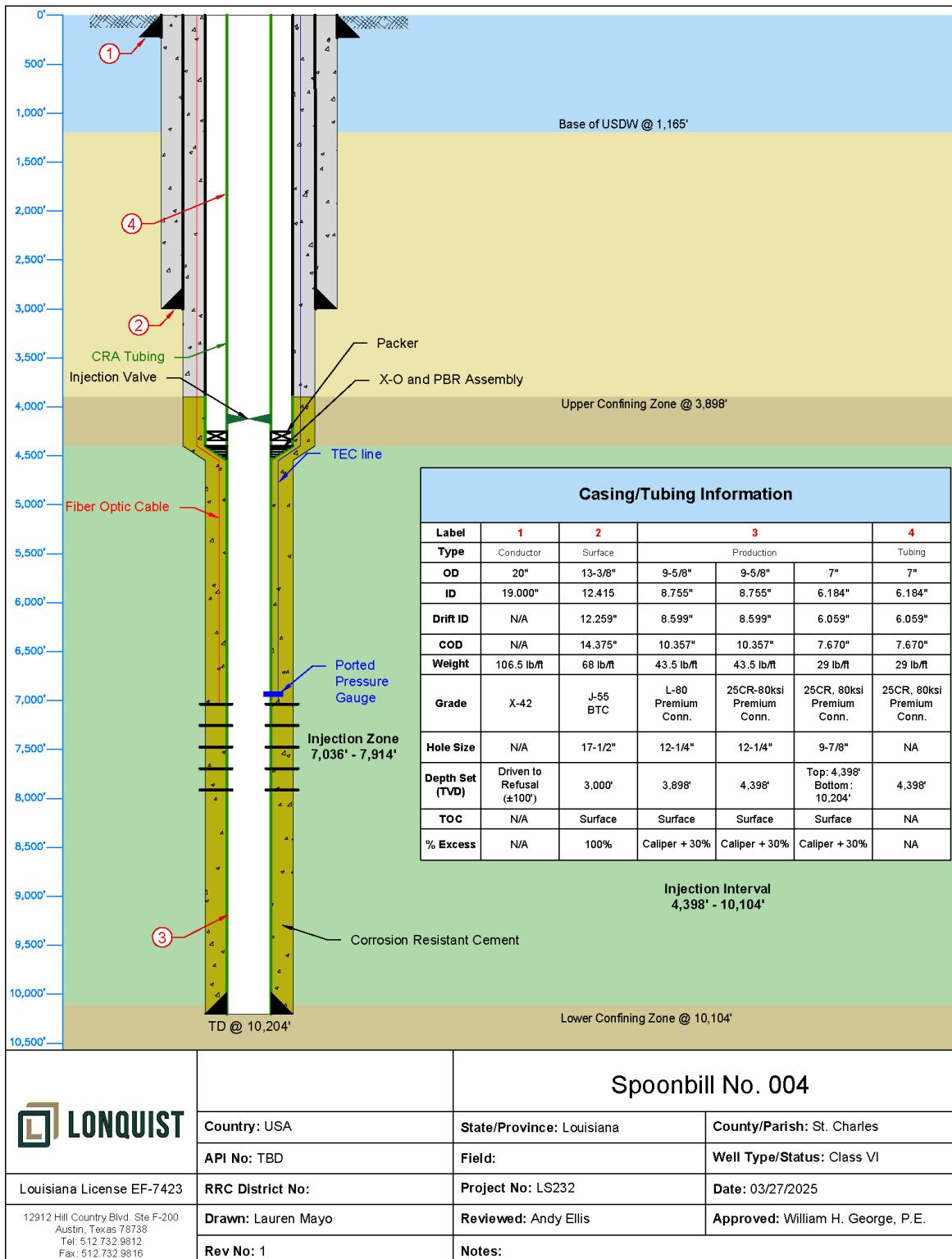


Figure 6-4 – Pre-closure Wellbore Schematic, Spoonbill No. 004

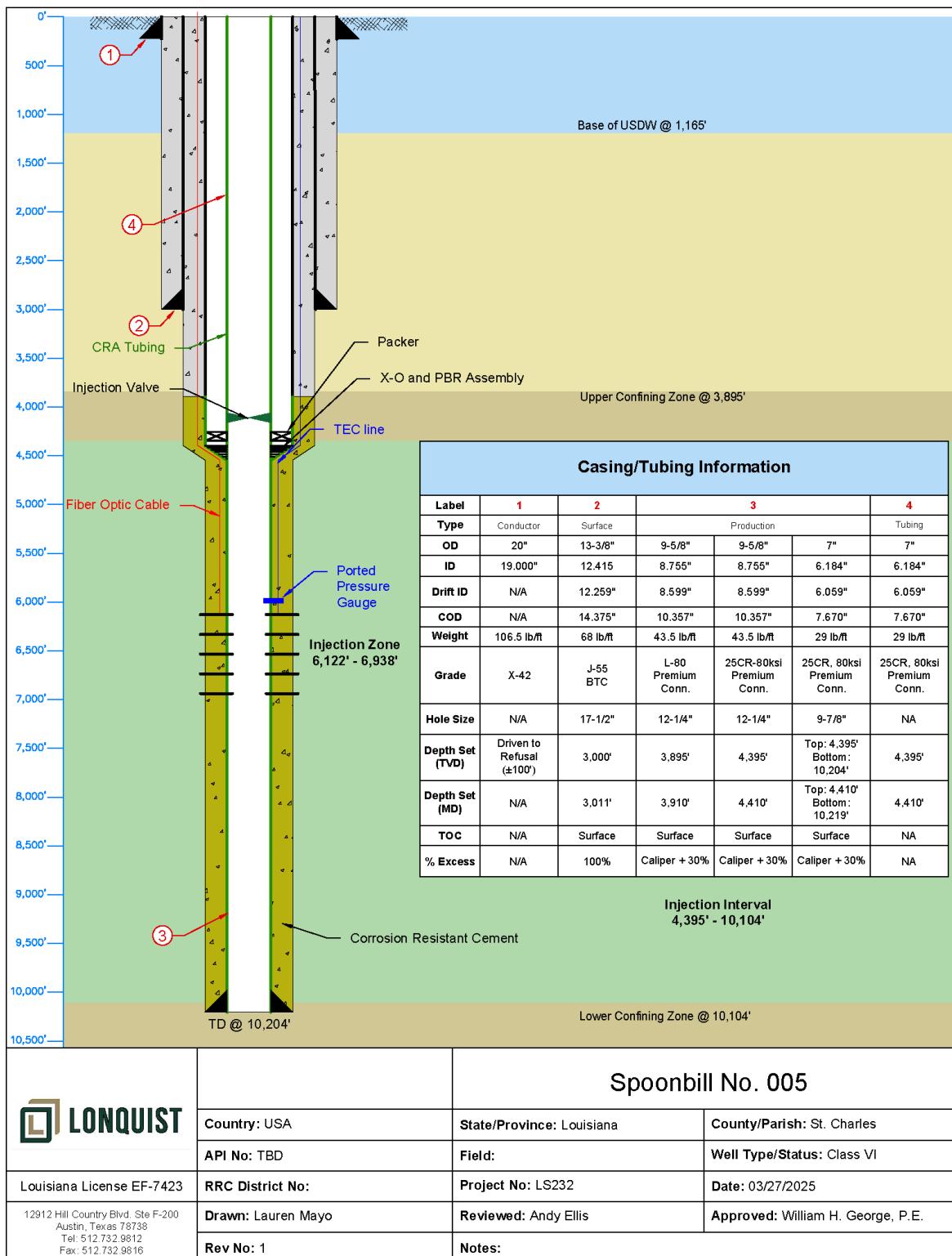


Figure 6-5 – Pre-closure Wellbore Schematic, Spoonbill No. 005

## 6.2.1 Zonal Isolation of Injection Zone / Post Injection Monitoring Plugback Plan

The injection zone in each well will be isolated and plugged once it has reached the end of its injection period. The general procedure for zonal isolation includes the following:

### 6.2.1.1 Pre-final zonal Isolation Activities

1. High West Sequestration LLC (High West) will comply with all reporting and notification provisions.
  - a. Notice of Intent to Plug will be communicated to the Louisiana Department of Energy and Natural Resources (LDENR) by submitting detailed plans in Form UIC-17 in accordance with SWO 29-N6 **§3631.A.4**. Well plugging operations will commence after written approval is received from the Commissioner.
2. The bottomhole pressure will be measured with the ported pressure and temperature gauges, installed on fiber/TEC Cable, as discussed in *Section 5 – Testing and Monitoring Plan* (SWO 29-N-6 **§3631.A.2**).
  - a. External mechanical integrity will be demonstrated through the approved monitoring methods described in *Section 5* (SWO 29-N-6 **§3631.A.2**).
3. The well will be flushed with a  buffer fluid prior to any plugging operations (SWO 29-N-6 **§3631.A.2**).

### 6.2.1.2 Final Zonal Isolation Activities

1. A bridge plug, topped with 50 ft of corrosion-resistant cement, will be placed above the perforated injection zone.
2. The plug will be tagged and a pressure test will be conducted to confirm the plug is properly set (SWO 29-N-6 **§3631.A.3.j**).
3. To allow for the continued monitoring of the injection zone, the plug will be set above the ported pressure gauge and the perforations will not be squeezed.

The injection well design allows for zonal isolation activities that can be conducted without removing any well components. Figures 6-6 through 6-10 show the zonal isolation of Spoonbill No. 001 through 005, respectively.

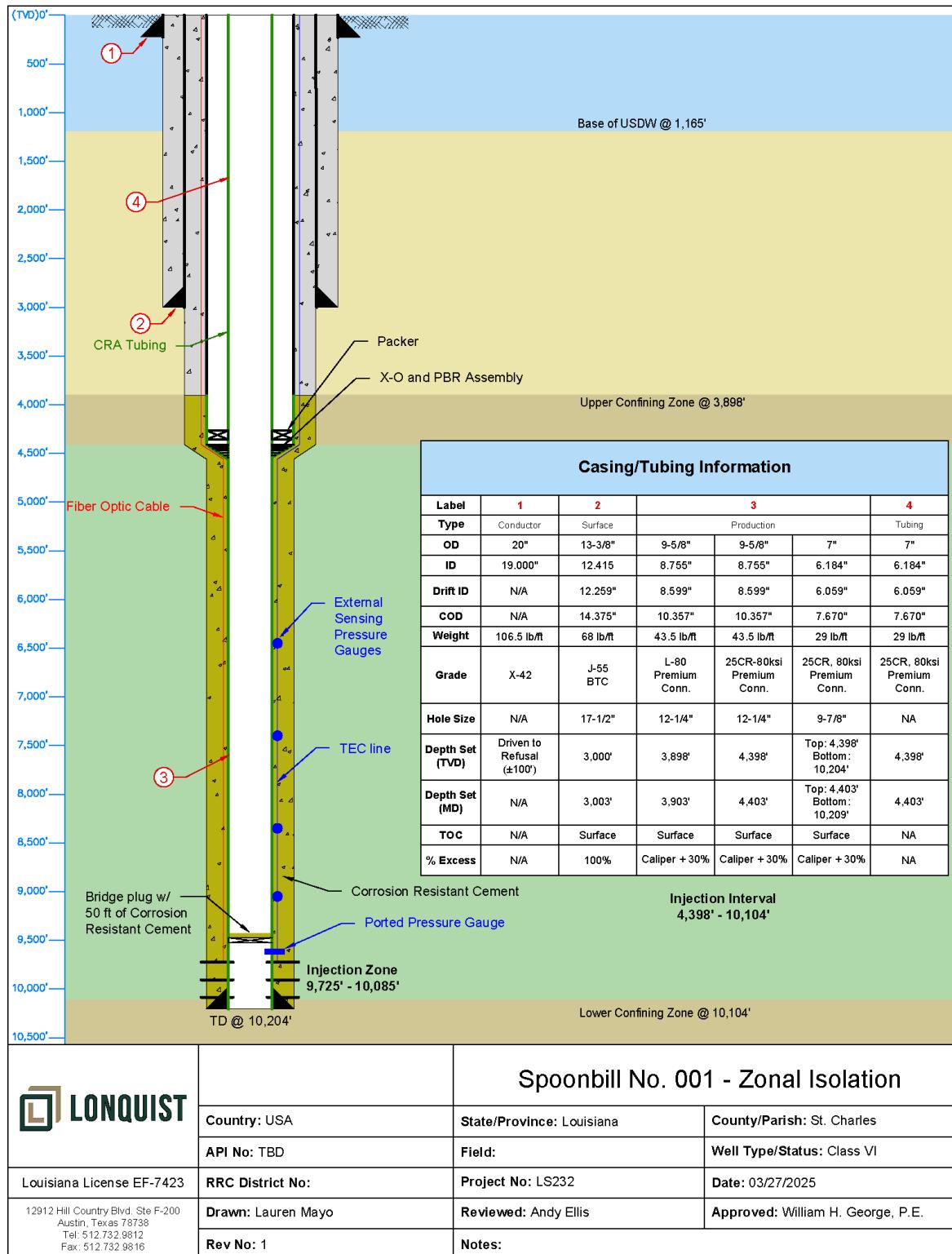


Figure 6-6 – Zonal Isolation Schematic for Spoonbill No. 001

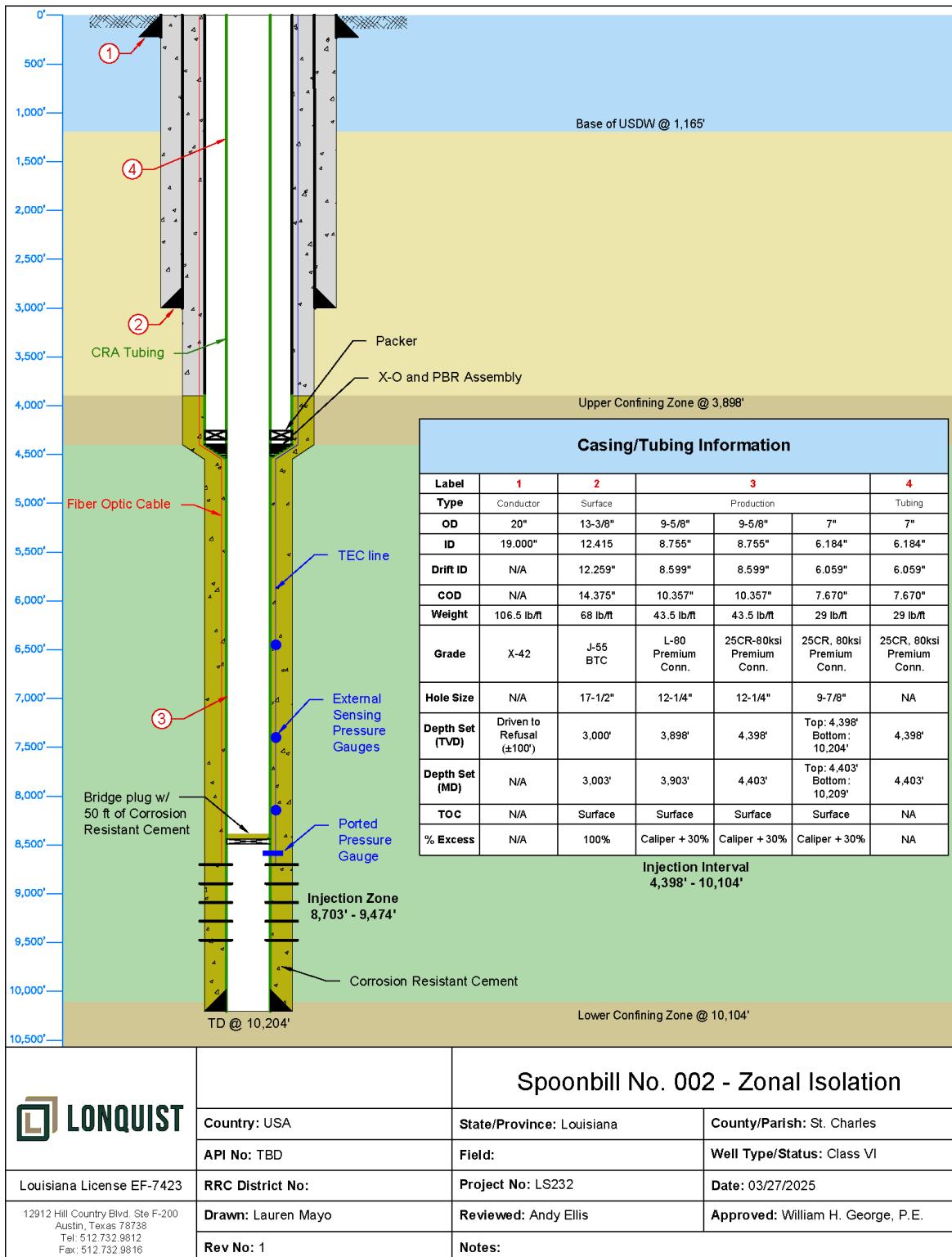


Figure 6-7 – Zonal Isolation Schematic for Spoonbill No. 002

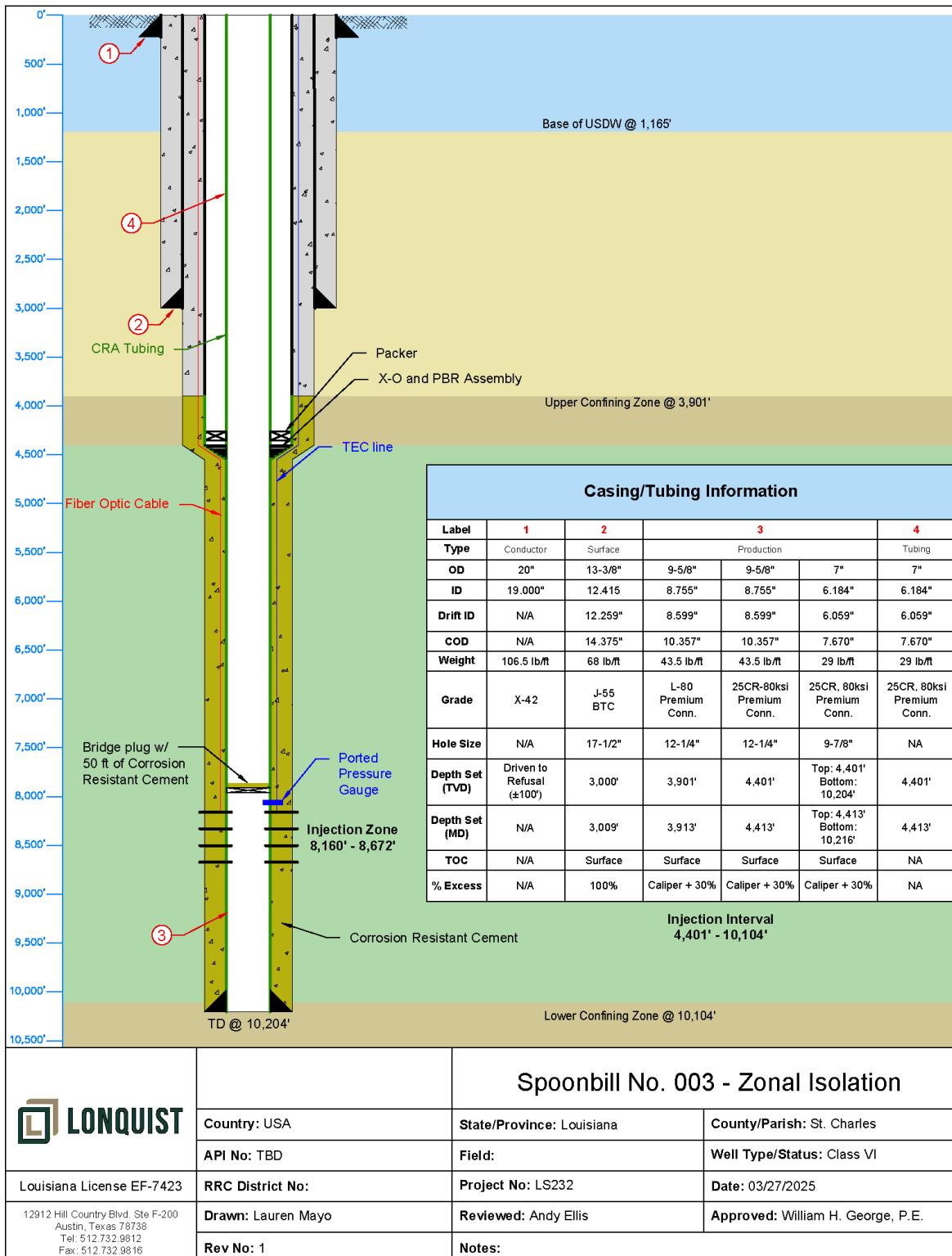


Figure 6-8 – Zonal Isolation Schematic for Spoonbill No. 003

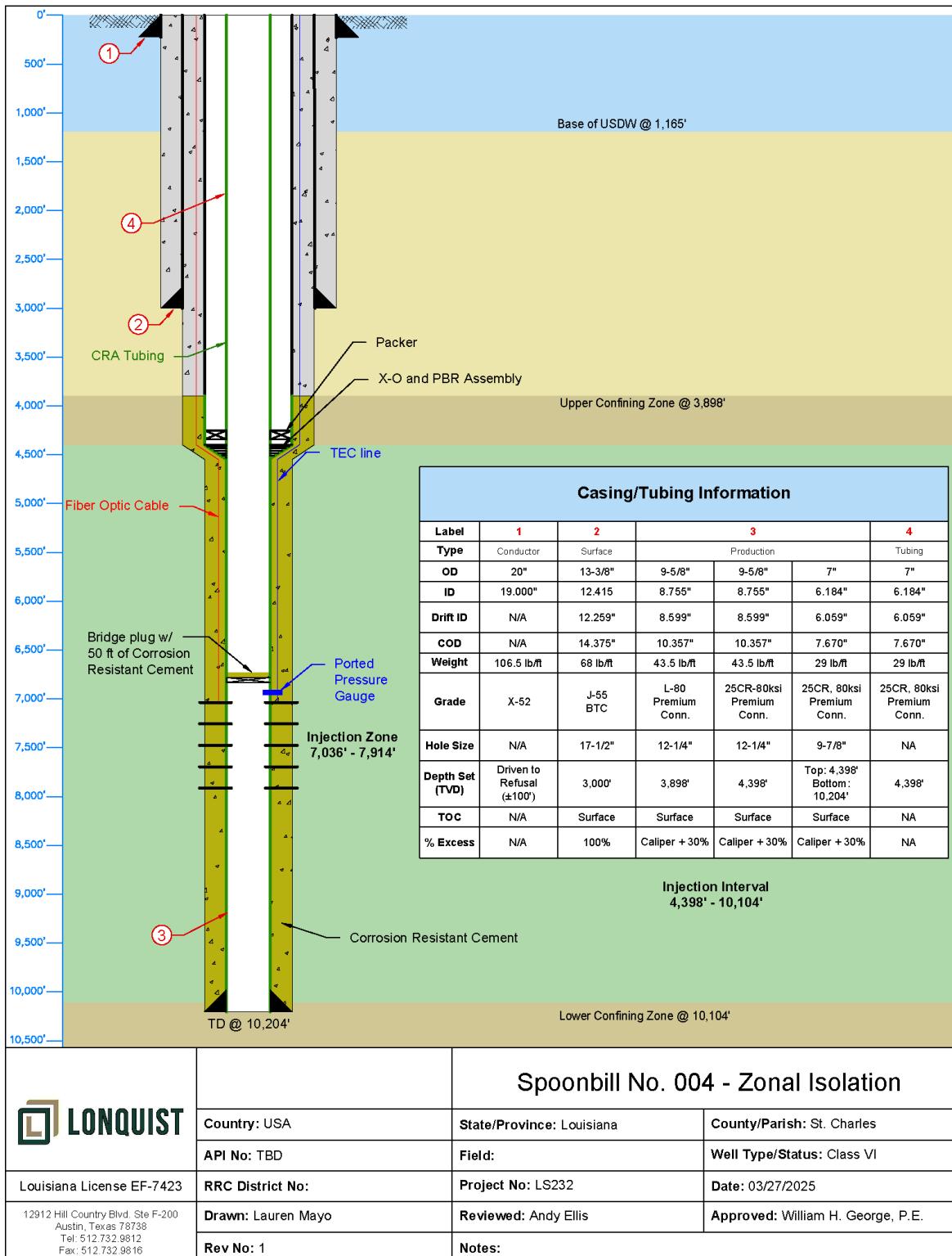


Figure 6-9 – Zonal Isolation Schematic for Spoonbill No. 004

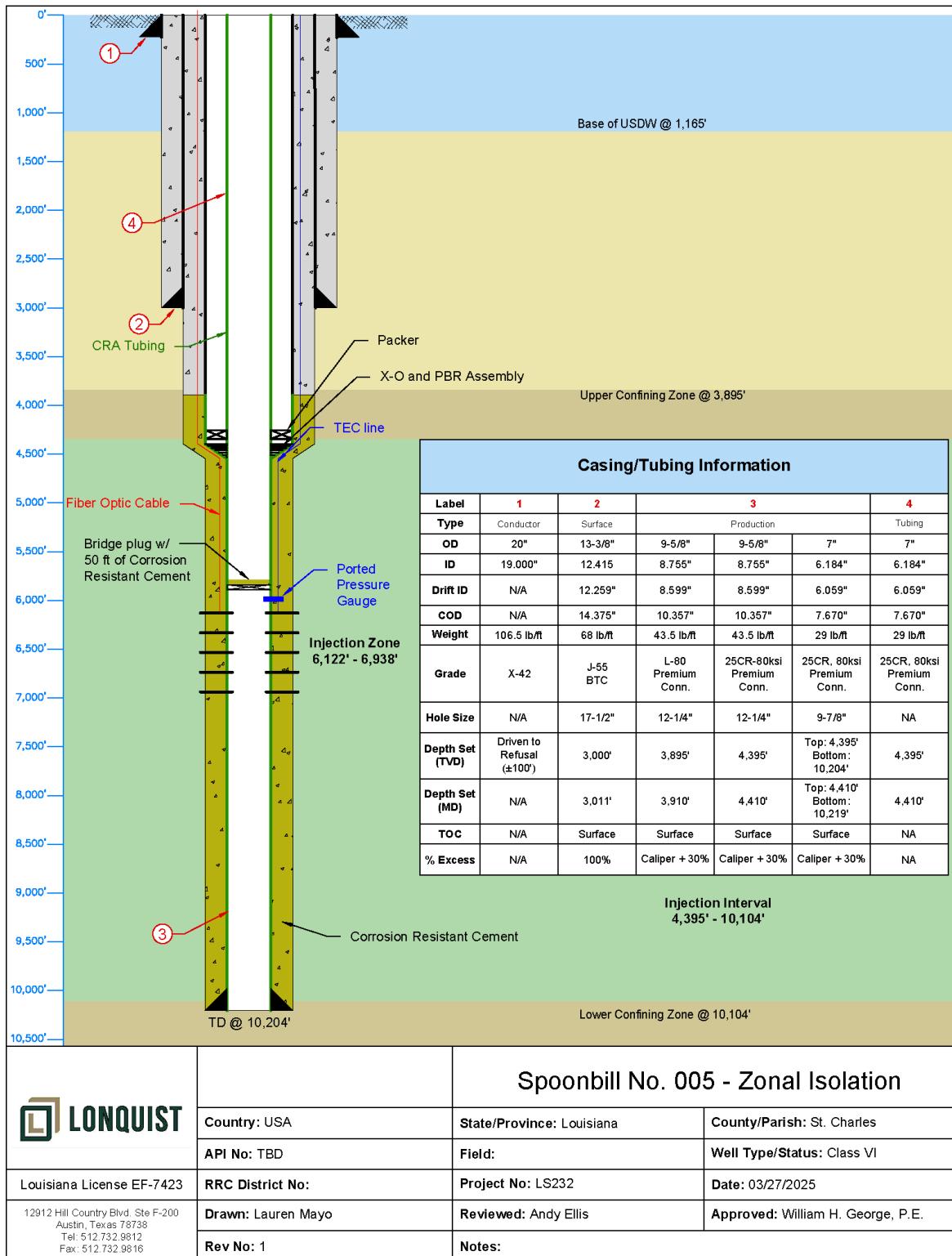


Figure 6-10 – Zonal Isolation Schematic for Spoonbill No. 005

## 6.2.2 Final Plugging and Abandonment

### 6.2.2.1 Pre-plugging Activities

1. High West will comply with all reporting and notification provisions.
  - a. Notice of Intent to Plug will be communicated to LDENR by submitting detailed plans in Form UIC-17 in accordance with SWO 29-N-6 **§3631.A.4**. Well plugging operations will commence after written approval is received from the Commissioner.
2. The well will be flushed with a buffer fluid prior to any plugging operations. (SWO 29-N-6 **§3631.A.2**)
3. Downhole ported pressure gauges as well as external sensing pressure and temperature gauges, will be used to measure the bottomhole reservoir pressure. Details for this system are provided in *Section 5* (SWO 29-N-6 **§3631.A.2**).
4. Mechanical integrity of the tubing-casing annulus will be demonstrated by pressure testing, as described in *Section 5* (SWO 29-N-6 **§3631.A.2**).
5. Casing inspection and cement bond logs will be performed prior to final plugging. Log evaluation will determine if the plugging procedure needs revision.
6. All uncemented, nonpermanent well components will be removed as listed in Table 6-1.

Table 6-1 – Casing, Tubing, and Other Well Construction Materials to be removed for Spoonbill Injection Wells 001 through 005

Well Component	Size (in.)	Amount (ft)
25CR-80 ksi Tubing	7	~4,400
Injection Packer	7 x 9-5/8	-
Polished Bore Receptacle (PBR) Seal Assembly	7	-

### 6.2.2.2 Plugging Procedure

The summary procedure is as follows. A full plugging procedure is included in *Appendix H*.

1. Wireline-set CIBP 50 ft below the base of the upper confining zone (UCZ).
2. After pressure testing the annulus, the tubing, packer, and PBR will be removed.
3. Prior to the placement of plugs, the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method (SWO 29-N-6 **§3631.A.3.d**).
4. A balanced, corrosion resistant cement plug will be set across the UCZ, from a depth 50 ft below the UCZ, and extending to the top of the UCZ.
  - a. The plug will be qualified by tagging the top and conducting a successful pressure test (SWO 29-N-6 **§3631.A.3.j**).
5. A balanced Class A cement plug will be set across the surface casing shoe, from a depth 50 ft below the surface casing shoe, and extending to 50 ft above the surface casing shoe.

- a. The plug will be qualified by tagging the top and conducting a successful pressure test (SWO 29-N-6 **§3631.A.3.j**).
- 6. A balanced Class A cement plug will be set across the base of the USDW, from a depth 50 ft below the base of the USDW and extending to 50 ft above the base of the USDW.
  - a. The plug will be qualified by tagging the top and conducting a successful pressure test (SWO 29-N-6 **§3631.A.3.j**).
- 7. A balanced Class A cement plug will be set from 45 to 15 ft.
- 8. Casing will be cut 15 ft below the mud line, a 30 ft cement plug will be set from 45 to 15 ft, and a  $\frac{1}{2}$ -inch steel plate with the serial number and date of plugging and abandonment will be welded on (SWO 29-N-6 **§3631.A.3.k**, SWO 29-N-6 **§3631.A.3.l**).

#### 6.2.2.3 Plug Details

Tables 6-2 through 6-6 show the planned plugging details for Spoonbill No. 001 through 005. Figures 6-11 through 6-15 show Spoonbill No. 001 through 005 after plugging and abandonment.

Table 6-2 – Plugging Details for Spoonbill No. 001

Plug Description	Zonal Isolation Plug	UCZ Plug	Surface Casing Shoe Plug	USDW Plug	Surface Plug
Casing OD* (in.)	7	7 x 9-5/8	9-5/8	9-5/8	9-5/8
Casing ID* (in.)	6.184	6.184 x 8.559	8.559	8.559	8.559
Top of Plug (ft) (MD)	9,600	3,903	2,953	1,115	15
Bottom of Plug (ft) (MD)	9,650	4,453	3,053	1,215	45
Cement Volume (sacks)	10	196	36	36	11
Slurry Weight (lb/gal)	14.8	14.8	15.6	15.6	15.6
Cement Yield (cuft/sack)	1.12	1.12	1.18	1.18	1.18
Type of Cement	CIBP w/ Corrosion Resistant	CIBP w/ Corrosion Resistant	Class A	Class A	Class A
Method of Placement	Wireline	Wireline/Circulation	Circulation	Circulation	Circulation

\* OD – Outer Diameter

ID – Inner Diameter

Table 6-3 – Plugging Details for Spoonbill No. 002

Plug Description	Zonal Isolation Plug	UCZ Plug	Surface Casing Shoe Plug	USDW Plug	Surface Plug
Casing OD (in.)	7	7 x 9-5/8	9-5/8	9-5/8	9-5/8
Casing ID (in.)	6.184	6.184 x 8.559	8.559	8.559	8.559
Top of Plug (ft) (MD)	8,575	3,903	2,953	1,115	15
Bottom of Plug (ft) (MD)	8,625	4,453	3,053	1,215	45
Cement Volume (sacks)	10	196	36	36	11
Slurry Weight	14.8	14.8	15.6	15.6	15.6
Cement Yield	1.12	1.12	1.18	1.18	1.18
Type of Cement	CIBP w/ Corrosion Resistant	CIBP w/ Corrosion Resistant	Class A	Class A	Class A
Method of Placement	Wireline	Wireline/Circulation	Circulation	Circulation	Circulation

Table 6-4 – Plugging Details for Spoonbill No. 003

Plug Description	Zonal Isolation Plug	UCZ Plug	Surface Casing Shoe Plug	USDW Plug	Surface Plug
Casing OD (in.)	7	7 x 9-5/8	9-5/8	9-5/8	9-5/8
Casing ID (in.)	6.184	6.184 x 8.559	8.559	8.559	8.559
Top of Plug (ft) (MD)	8,025	3,913	2,959	1,115	15
Bottom of Plug (ft) (MD)	8,075	4,463	3,059	1,215	45
Cement Volume (sacks)	10	196	36	36	11
Slurry Weight	14.8	14.8	15.6	15.6	15.6
Cement Yield	1.12	1.12	1.18	1.18	1.18
Type of Cement	CIBP w/ Corrosion Resistant	CIBP w/ Corrosion Resistant	Class A	Class A	Class A
Method of Placement	Wireline	Wireline/Circulation	Circulation	Circulation	Circulation

Table 6-5 – Plugging Details for Spoonbill No. 004

Plug Description	Zonal Isolation Plug	UCZ Plug	Surface Casing Shoe Plug	USDW Plug	Surface Plug
Casing OD (in.)	7	7 x 9-5/8	9-5/8	9-5/8	9-5/8
Casing ID (in.)	6.184	6.184 x 8.559	8.559	8.559	8.559
Top of Plug (ft) (MD)	6,875	3,898	2,950	1,115	15
Bottom of Plug (ft) (MD)	6,925	4,448	3,050	1,215	45
Cement Volume (sacks)	10	196	36	36	11
Slurry Weight	14.8	14.8	15.6	15.6	15.6
Cement Yield	1.12	1.12	1.18	1.18	1.18
Type of Cement	CIBP w/ Corrosion Resistant	CIBP w/ Corrosion Resistant	Class A	Class A	Class A
Method of Placement	Wireline	Wireline/Circulation	Circulation	Circulation	Circulation

Table 6-6 – Plugging Details for Spoonbill No. 005

Plug Description	Zonal Isolation Plug	UCZ Plug	Surface Casing Shoe Plug	USDW Plug	Surface Plug
Casing OD (in.)	7	7 x 9-5/8	9-5/8	9-5/8	9-5/8
Casing ID (in.)	6.184	6.184 x 8.559	8.559	8.559	8.559
Top of Plug (ft) (MD)	5,975	3,910	2,961	1,115	15
Bottom of Plug (ft) (MD)	6,025	4,460	3,061	1,215	45
Cement Volume (sacks)	10	196	36	36	11
Slurry Weight	14.8	14.8	15.6	15.6	15.6
Cement Yield	1.12	1.12	1.18	1.18	1.18
Type of Cement	CIBP w/ Corrosion Resistant	CIBP w/ Corrosion Resistant	Class A	Class A	Class A
Method of Placement	Wireline	Wireline/Circulation	Circulation	Circulation	Circulation

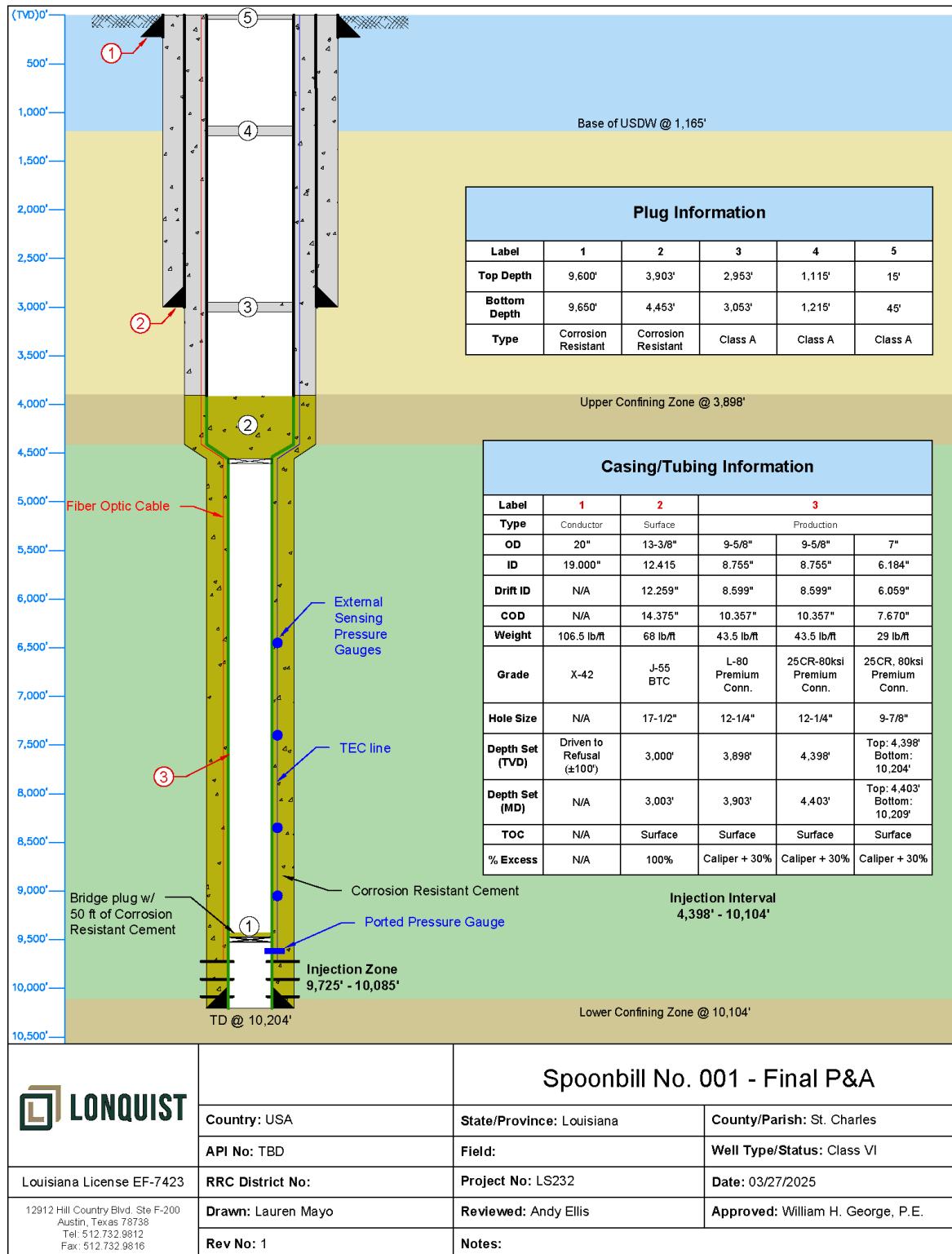


Figure 6-11 – P&A Schematic for Spoonbill No. 001

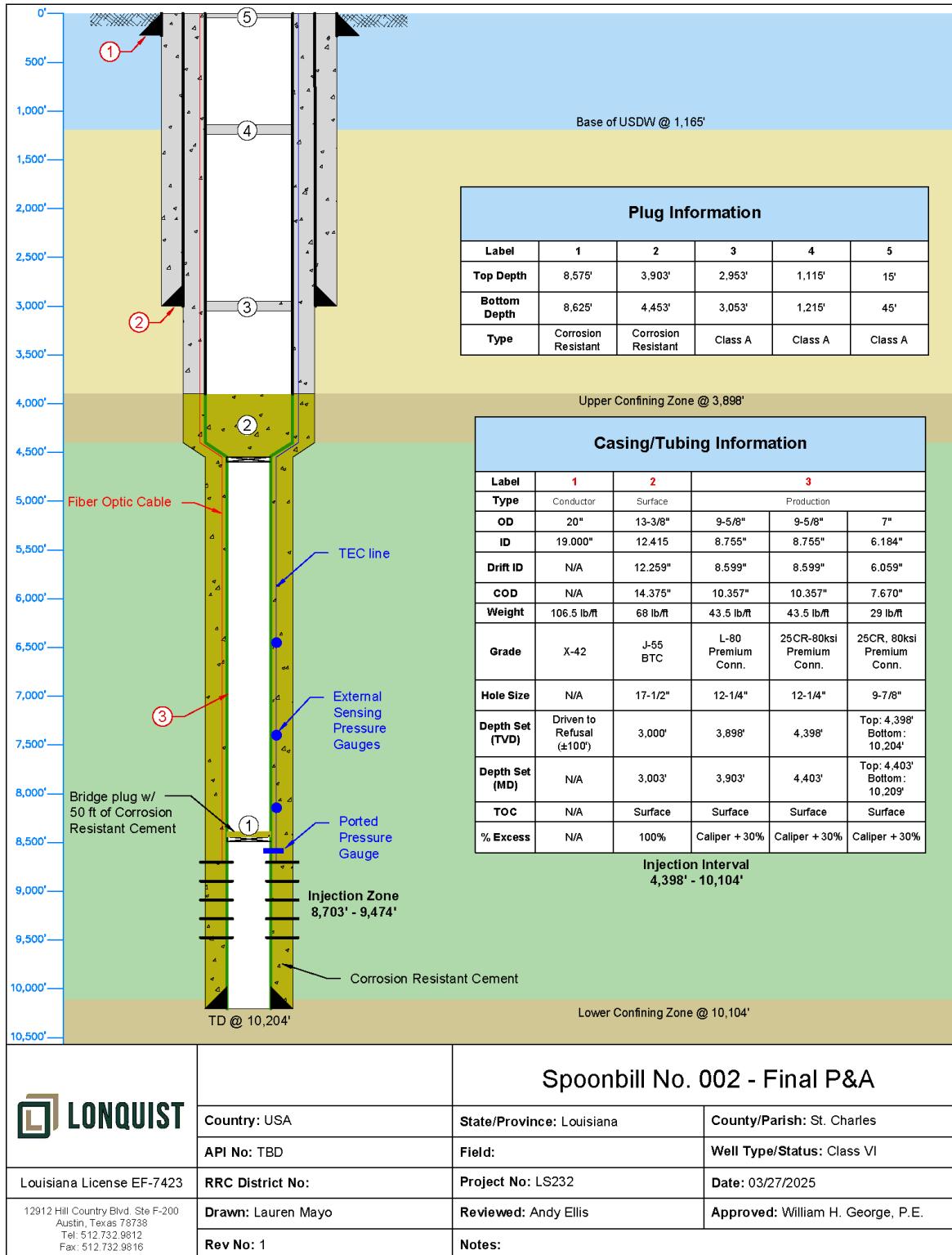


Figure 6-12 – P&A Schematic for Spoonbill No. 002

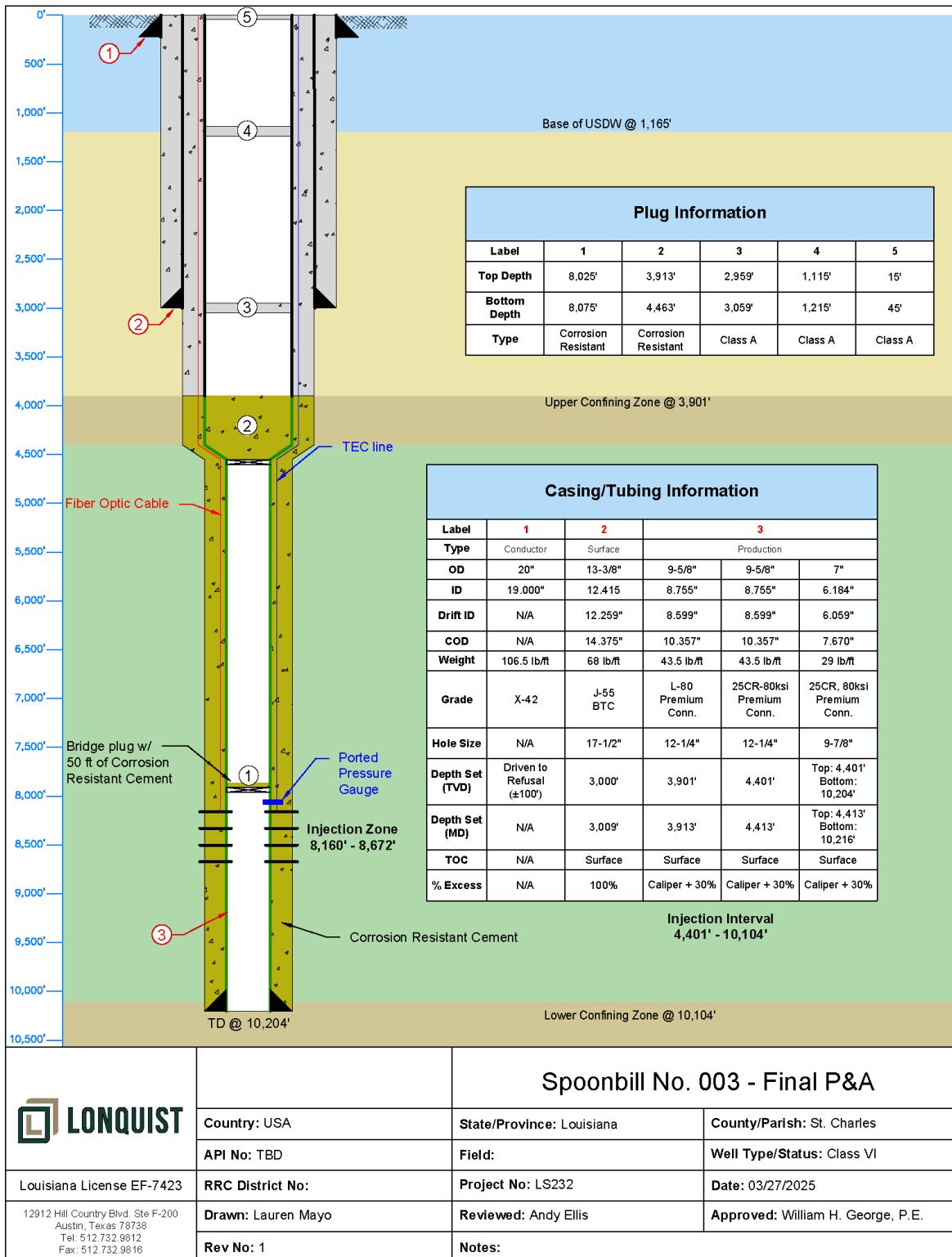


Figure 6-13 – P&A Schematic for Spoonbill No. 003

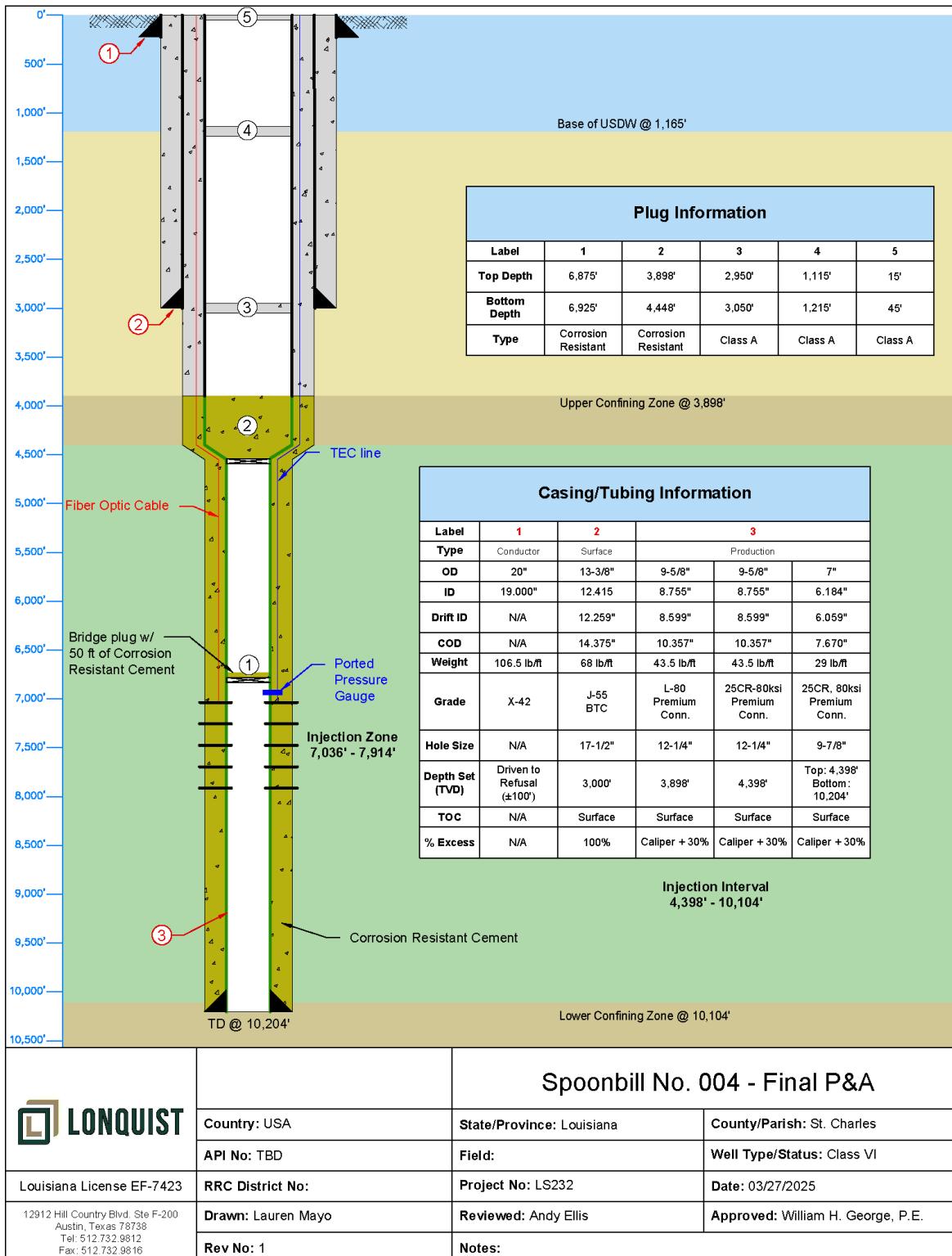


Figure 6-14 – P&A Schematic for Spoonbill No. 004

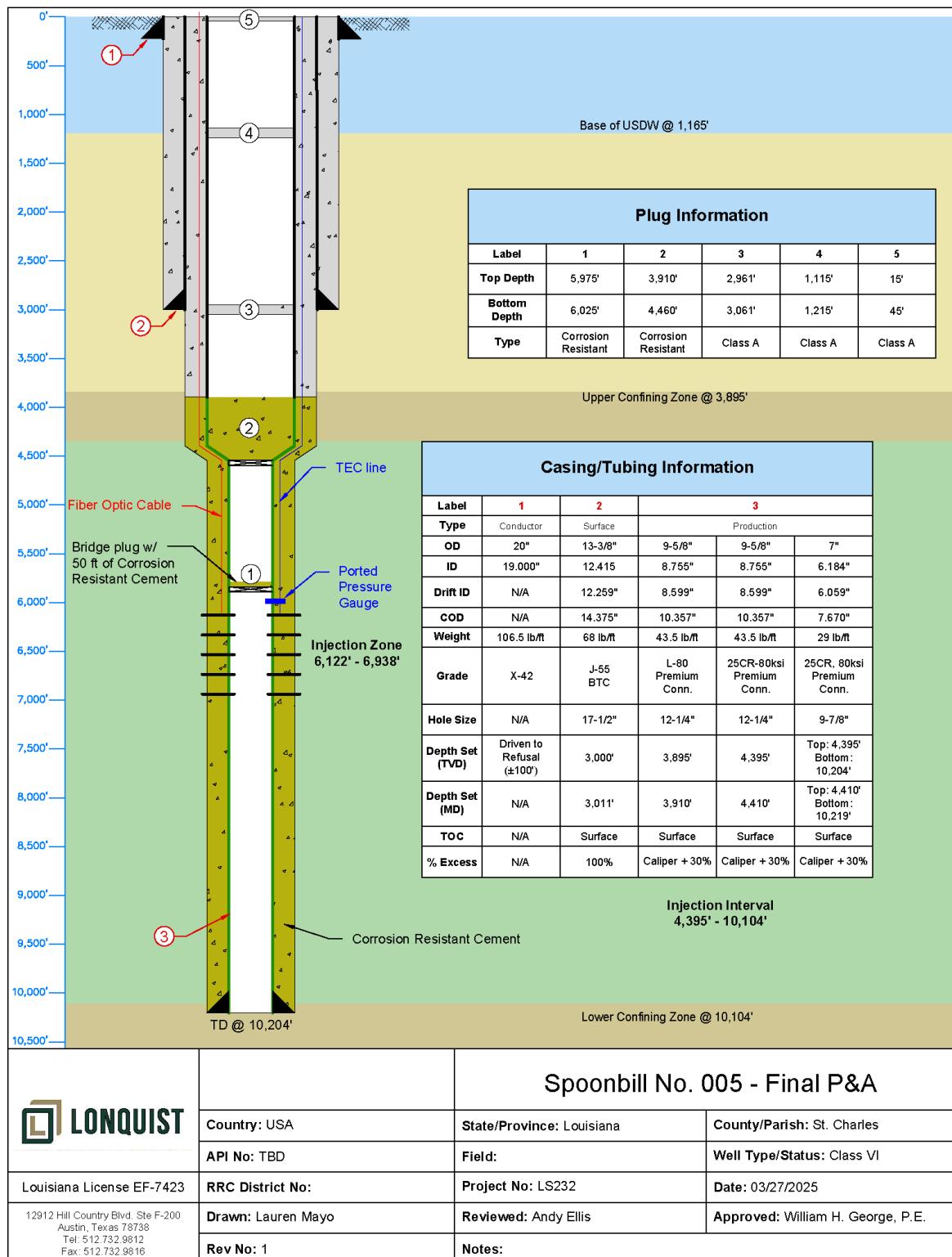


Figure 6-15 – P&A Schematic for Spoonbill No. 005

## 6.3 Monitoring Wells Plugging and Abandonment

### 6.3.1 Pre-plugging Activities

1. High West will comply with all reporting and notification provisions.
  - a. Notice of Intent to Plug will be communicated to the LDENR by submitting detailed plans in Form UIC-17 in accordance with SWO 29-N6 **§3631.A.4**. Well plugging operations will commence after written approval is received from the Commissioner.
2. The well will be flushed with a buffer fluid prior to any plugging operations (SWO 29-N-6 **§3631.A.2**).
3. Mechanical integrity will be demonstrated by pressure testing, as described in *Section 5* (SWO 29-N-6 **§3631.A.2**).
4. Casing inspection and cement bond logs will be performed prior to final plugging. Log evaluation will determine if the plugging procedure needs revision.
5. All uncemented, nonpermanent well components will be removed as listed in Tables 6-7 through 6-9, for the AZM monitor well and the USDW monitor wells.

Pre-closure well schematics are shown in Figures 6-16 through 6-5 (SWO 29-N-6 **§3631.A.3.i**).

Table 6-7 – Casing, Tubing, and Other Well Construction Materials to be removed from AZM Well No. 001

Well Component	Size (in.)	Amount (ft)
N-80/L-80 Tubing	2-7/8	~3,600
Packer	2-7/8 x 5-1/2	-

Table 6-8 – Casing, Tubing, and Other Well Construction Materials to be removed from USDW Monitor Well No. 001

Well Component	Size (in.)	Amount (ft)
N-80/L-80 Tubing	2-7/8	~1,000
Submersible Pump	-	-

Table 6-9 – Casing, Tubing, and Other Well Construction Materials to be removed from USDW Monitor Well No. 002

Well Component	Size (in.)	Amount (ft)
N-80/L-80 Tubing	2-7/8	~1,000
Submersible Pump	-	-

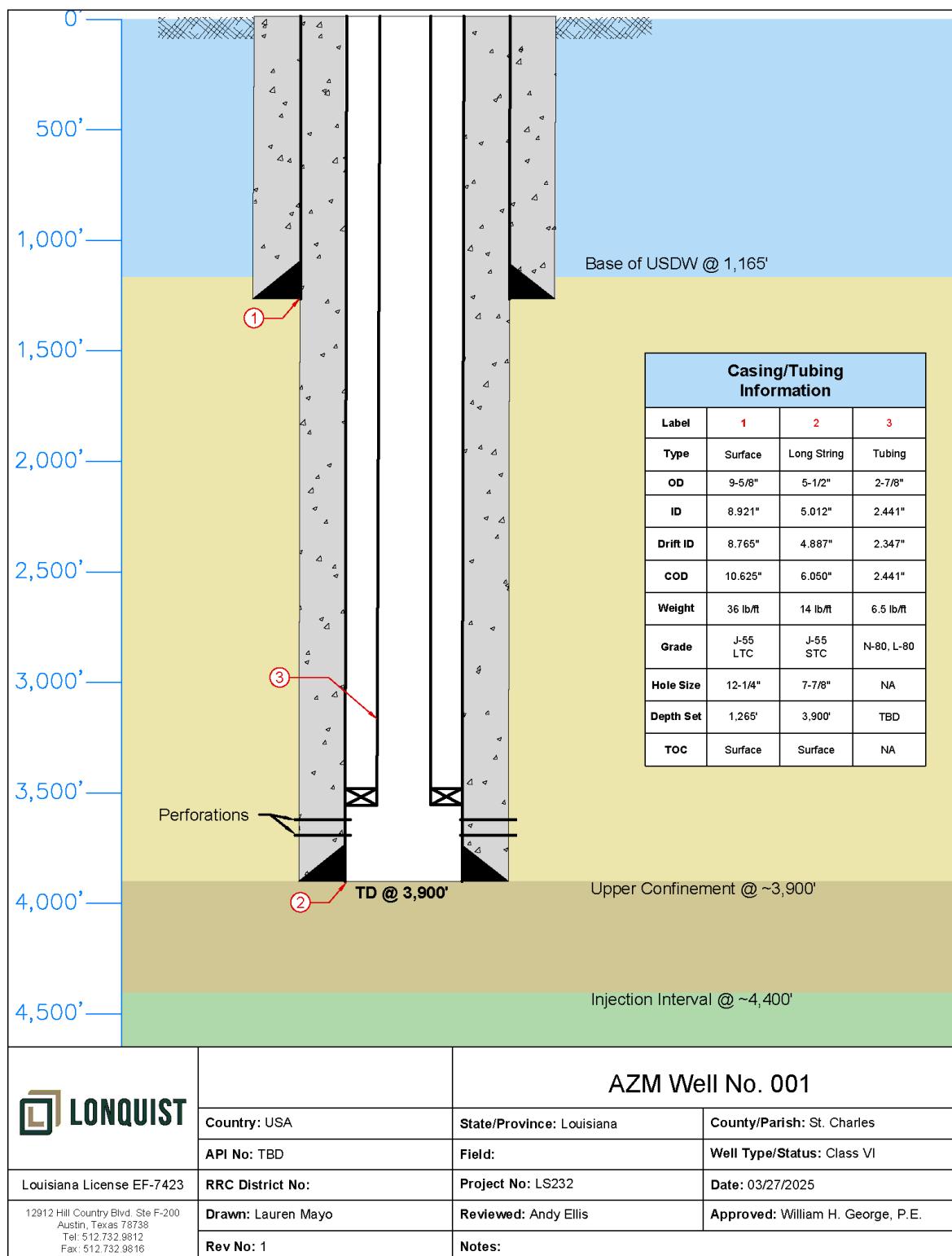


Figure 6-16 – AZM Well No. 001 Pre-Closure Schematic

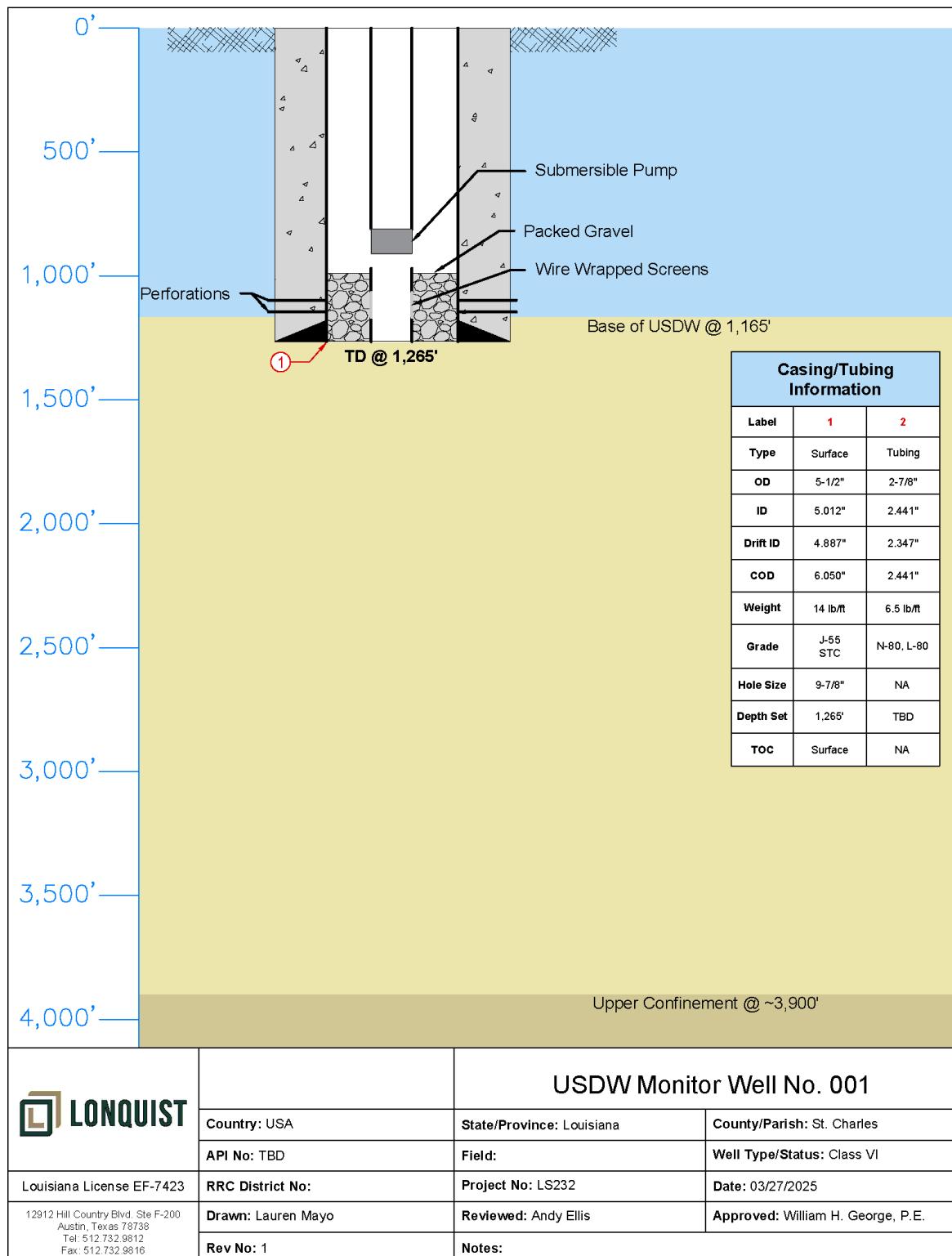


Figure 6-17 – USDW Monitor Well No. 001 Pre-Closure Schematic

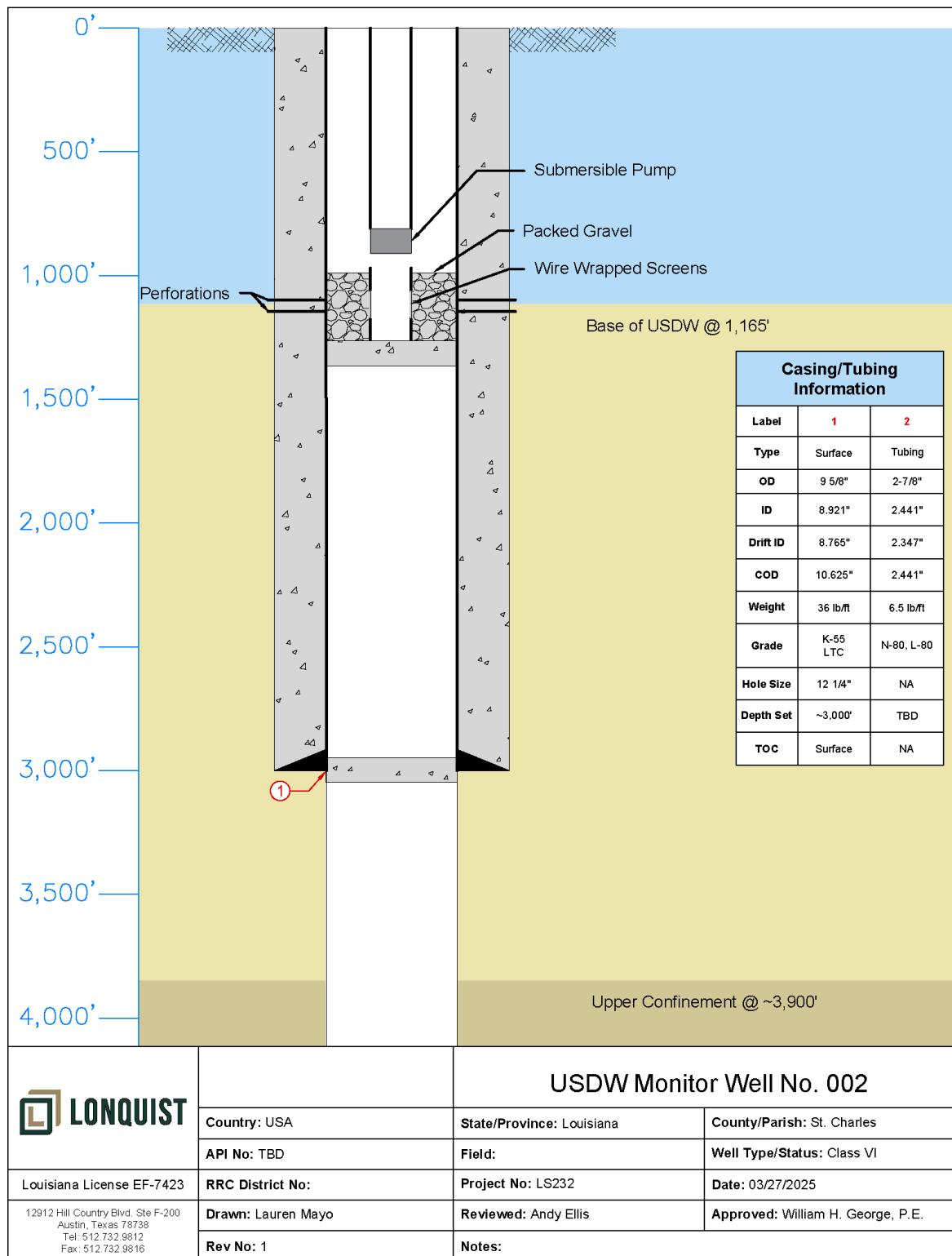


Figure 6-18 – USDW Monitor Well No. 002 Pre-Closure Schematic

### 6.3.2 Plugging Procedure (Above-Zone Monitoring Well)

The summary procedure is as follows. A full plugging procedure is included in *Appendix H*.

1. After pressure testing the annulus, the tubing and packer will be removed.
2. Prior to the placement of plugs, the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method (SWO 29-N-6 **3631.A.3.d**).
3. A balanced, Class A cement plug will be set across the perforations, from a depth 50 ft below the perforations, and extending to 50 ft above the perforations.
  - a. The plug will be qualified by tagging the top and conducting a successful pressure test (SWO 29-N-6 **§3631.A.3.j**).
4. A balanced Class A cement plug will be set across the surface casing shoe and the base of the USDW, from a depth 50 ft below the surface casing shoe, and extending to 50 ft above the base of the USDW.
  - a. The plug will be qualified by tagging the top and conducting a successful pressure test (SWO 29-N-6 **§3631.A.3.j**).
5. A balanced Class A cement plug will be set from 45 ft to 15 ft.

Casing will be cut 15 ft below the mud line, a 30 ft cement plug will be set from 45 ft to 15 ft, and a  $\frac{1}{2}$ -inch steel plate with the serial number and date of plugging and abandonment will be welded on (SWO 29-N-6 **§3631.A.3.k**, SWO 29-N-6 **§3631.A.3.l**).

#### 6.3.2.1 Plug Details

Table 6-10 – Plug Details for AZM Well No. 001

Plug Description	Perforated Interval Plug	Surface Casing Shoe/ USDW Plug	Surface Plug
Casing OD (in.)	5-1/2	5-1/2	5-1/2
Casing ID (in.)	5.012	5.012	5.012
Top of Plug (ft) (MD)	~3,600	1,115	15
Bottom of Plug (ft) (MD)	~3,700	1,315	45
Cement Volume (sacks)	12	24	4
Slurry Weight	15.6	15.6	15.6
Cement Yield	1.18	1.18	1.18
Type of Cement	Class A	Class A	Class A
Method of Placement	Circulation	Circulation	Circulation

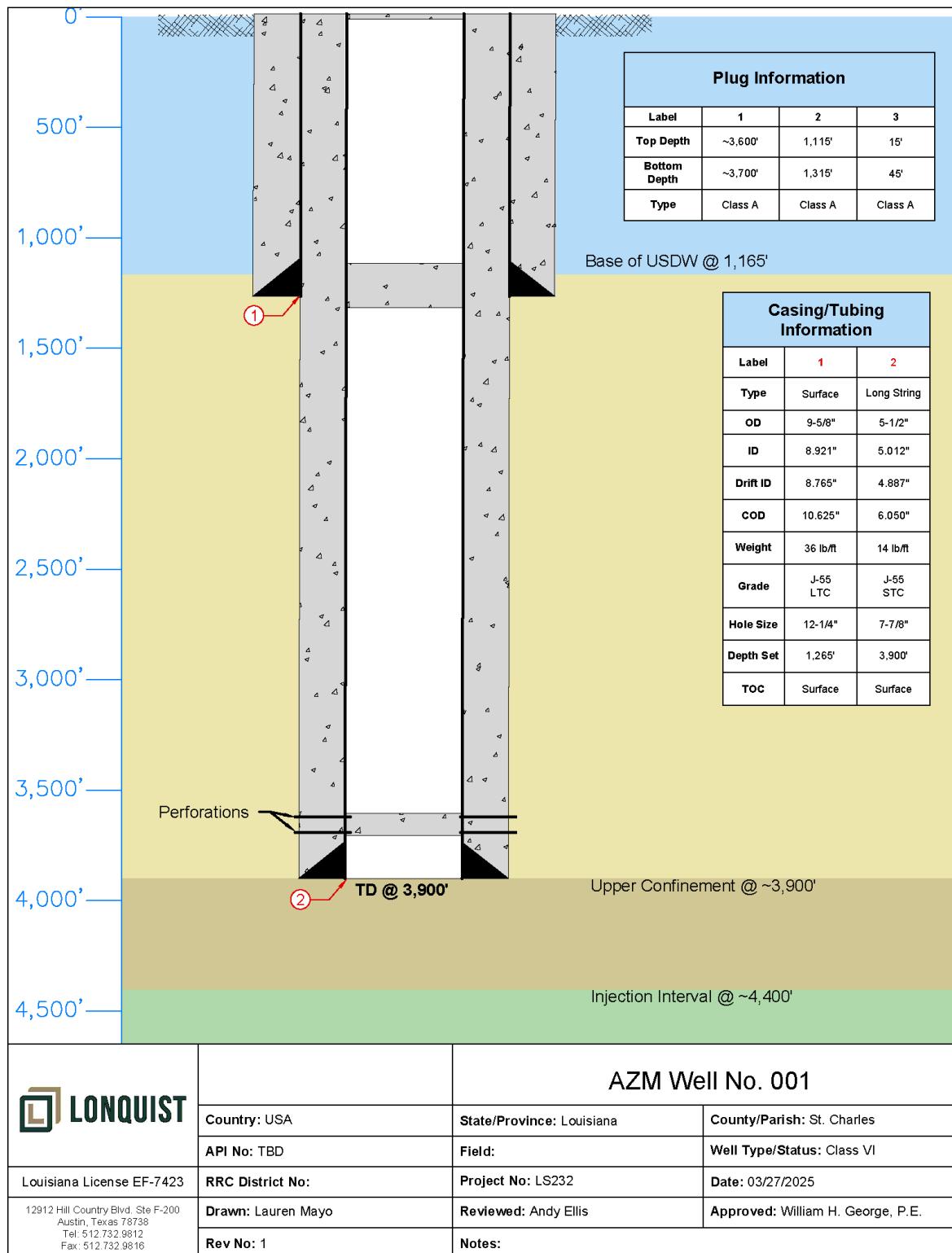


Figure 6-19 – AZM Well No. 001 P&A Schematic

### 6.3.3 Plugging Procedure (USDW Monitoring Wells)

The summary procedure is as follows. A full plugging procedure is included in *Appendix H*.

1. Wireline set a cement retainer above the gravel pack.
2. After pressure testing the annulus, the tubing and packer will be removed.
3. Prior to the placement of plugs, the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method (SWO 29-N-6 **§3631.A.3.d**).
4. A balanced, Class A cement plug will be set below the cement retainer, from TD to the base of the cement retainer.
  - a. The plug will be qualified by tagging the top and conducting a successful pressure test (SWO 29-N-6 **§3631.A.3.j**).
5. A 30 ft balanced Class A cement plug will be set at surface.

Casing will be cut 5 ft below the ground level or 15 ft below the mud line, a 30 ft cement plug will be set at surface, and a  $\frac{1}{2}$ -inch steel plate with the serial number and date of plugging and abandonment will be welded on (SWO 29-N-6 **§3631.A.3.k**, SWO 29-N-6 **§3631.A.3.l**).

#### 6.3.3.1 Plug Details

Table 6-11 – Plug Details for USDW Monitor Well No. 001

Plug Description	Perforated Interval Plug	Surface Plug
Casing OD (in.)	5-1/2	5-1/2
Casing ID (in.)	5.012	5.012
Top of Plug (ft) (MD)	~1,000	15
Bottom of Plug (ft) (MD)	1,265	45
Cement Volume (sacks)	31	4
Slurry Weight	15.6	15.6
Cement Yield	1.18	1.18
Type of Cement	Cement Retainer/Class A	Class A
Method of Placement	Circulation	Circulation

Table 6-12 – Plug Details for USDW Monitor Well No. 002

Plug Description	Perforated Interval Plug	Surface Plug
Casing OD (in.)	9-5/8	9-5/8
Casing ID (in.)	8.921	8.921
Top of Plug (ft) (MD)	~1,000	5
Bottom of Plug (ft) (MD)	1,265	35
Cement Volume (sacks)	98	11
Slurry Weight	15.6	15.6
Cement Yield	1.18	1.18
Type of Cement	Cement Retainer/Class A	Class A
Method of Placement	Circulation	Circulation

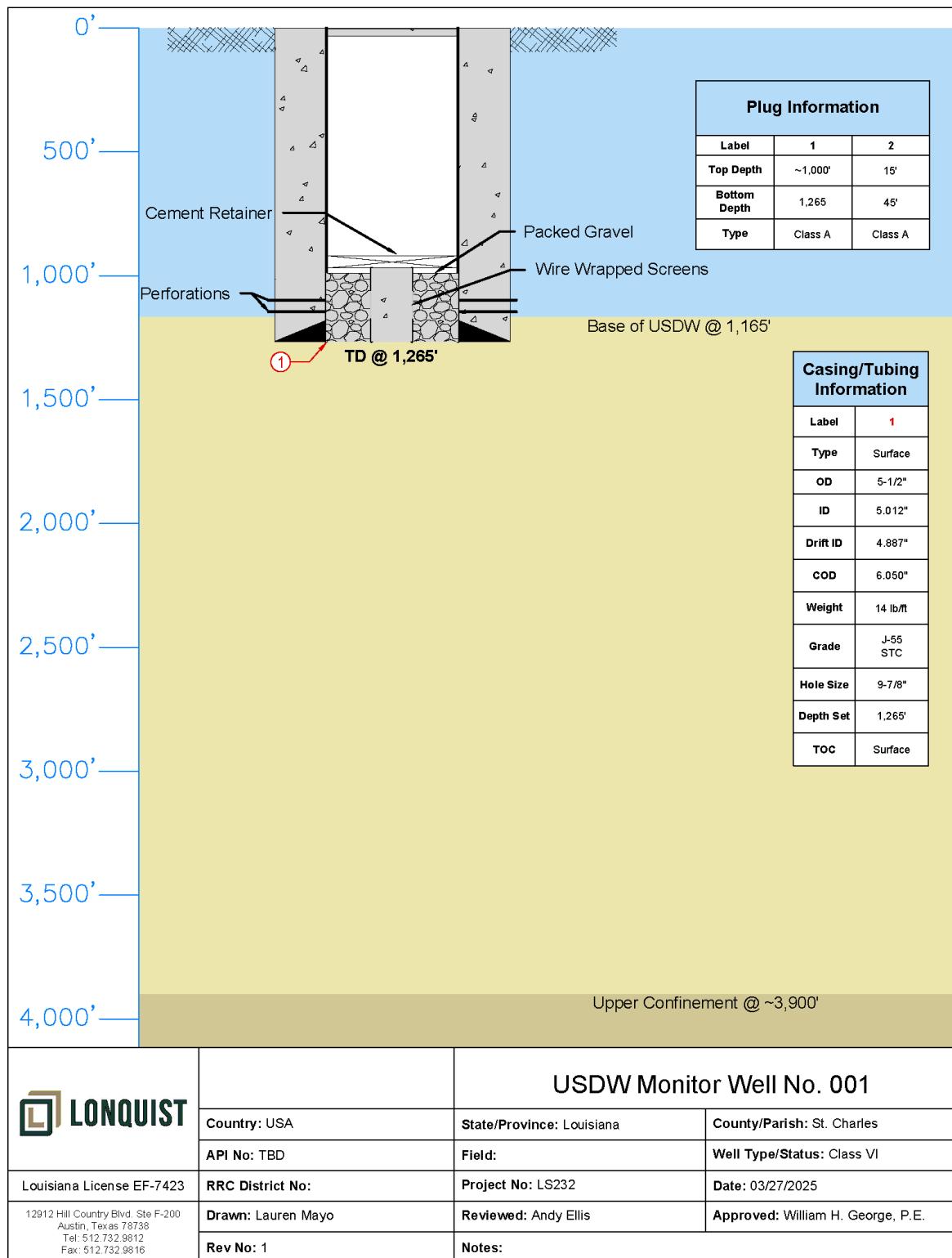


Figure 6-20 – USDW Monitor Well No. 001 P&A Schematic

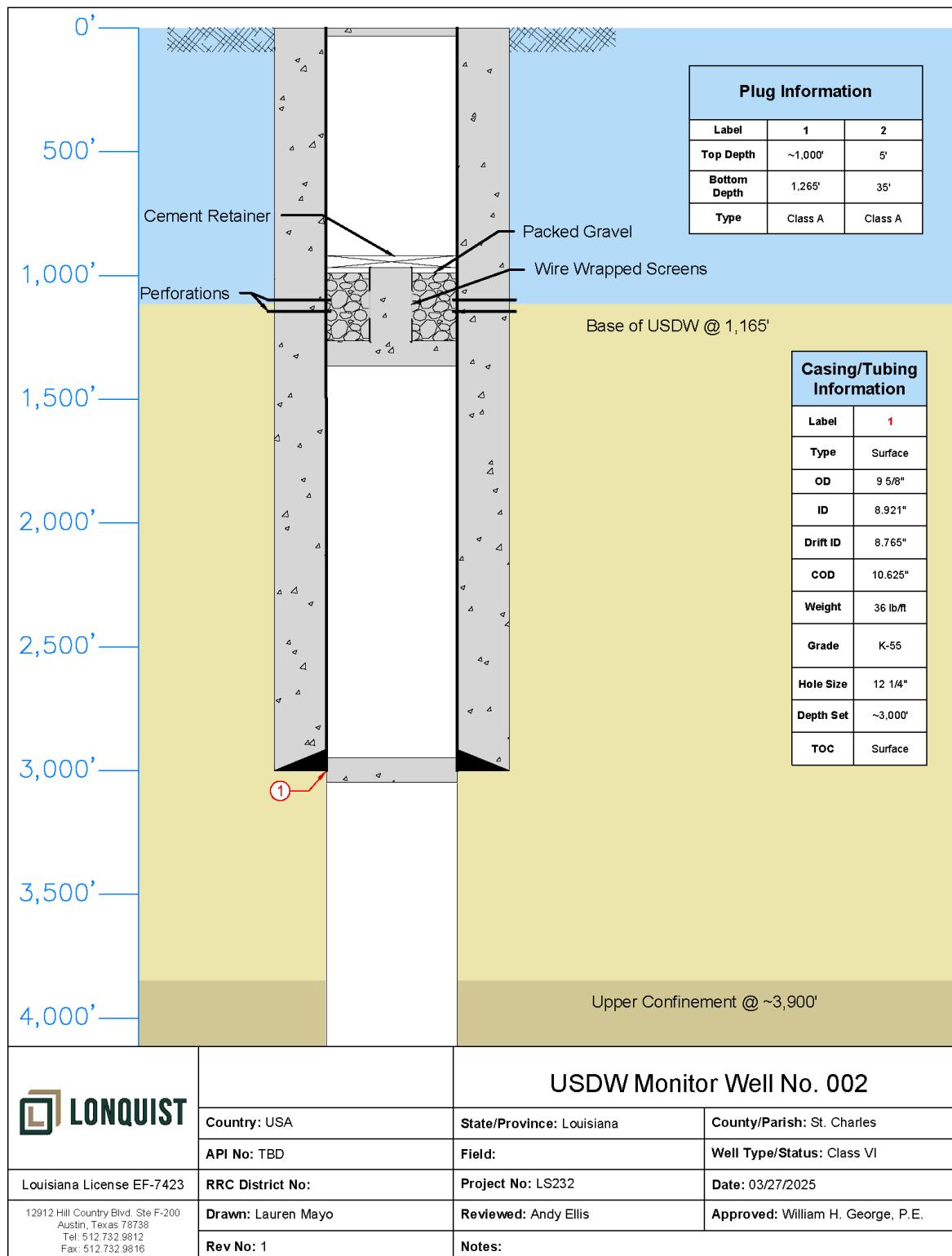


Figure 6-21 – USDW Monitor Well No. 002 P&A Schematic

### 6.3 Conclusion

As detailed previously, the Spoonbill No. 001, No. 002, No. 003, No. 004, No. 005 and all related monitor wells will be plugged in a manner to prevent the movement of injected CO<sub>2</sub> out of the injection interval and up to the USDW.

#### *Appendix H – Plugging Plans:*

- Appendix H-1 Spoonbill No. 001 Zonal Isolation Schematic
- Appendix H-2 Spoonbill No. 002 Zonal Isolation Schematic
- Appendix H-3 Spoonbill No. 003 Zonal Isolation Schematic
- Appendix H-4 Spoonbill No. 004 Zonal Isolation Schematic
- Appendix H-5 Spoonbill No. 005 Zonal Isolation Schematic
- Appendix H-6 Spoonbill No. 001 Final P&A Schematic
- Appendix H-7 Spoonbill No. 001 Detailed Plugging Procedure
- Appendix H-8 Spoonbill No. 002 Final P&A Schematic
- Appendix H-9 Spoonbill No. 002 Detailed Plugging Procedure
- Appendix H-10 Spoonbill No. 003 Final P&A Schematic
- Appendix H-11 Spoonbill No. 003 Detailed Plugging Procedure
- Appendix H-12 Spoonbill No. 004 Final P&A Schematic
- Appendix H-13 Spoonbill No. 004 Detailed Plugging Procedure
- Appendix H-14 Spoonbill No. 005 Final P&A Schematic
- Appendix H-15 Spoonbill No. 005 Detailed Plugging Procedure
- Appendix H-16 AZM Well No. 001 P&A Schematic
- Appendix H-17 AZM Well No. 001 Detailed Plugging Procedure
- Appendix H-18 USDW Monitor Well No. 001 P&A Schematic
- Appendix H-19 USDW Monitor Well No. 001 Detailed Plugging Procedure
- Appendix H-20 USDW Monitor Well No. 002 P&A Schematic
- Appendix H-21 USDW Monitor Well No. 002 Detailed Plugging Procedure