Class II – Salt Water Disposal and Enhanced Oil Recovery Wells

Presented by
Cody Todd & Addie Roberts, Petroleum Engineers
Injection and Mining Division
I. The Underground Injection Control (UIC) Program
II. UIC Application Process
III. UIC Application Guidance
IV. Forms
V. Useful Links
VI. Contact Information
VII. Questions
Underground Injection Control (UIC) Program

The 1974 Safe Drinking Water Act (SDWA) established national UIC Program under the EPA and charged them to:

- Establish Technical Regulations for UIC Program
- Define the Underground Source of Drinking Water (USDW)
- Establish Injection Well Classifications

Office of Conservation was granted primacy of the UIC program in 1982.
The basic regulations of the Office of Conservation are a series of documents called Statewide Orders. These Orders form the backbone of the regulatory scheme and provide structure for operational requirements. The regulations are lawfully codified in the Louisiana Administrative Code and are prefixed by the letters LAC.

<table>
<thead>
<tr>
<th>Louisiana Administrative Code</th>
<th>Statewide Order</th>
<th>Subject or Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAC 43:XIX.Chapter 3</td>
<td>Statewide Order No. 29-B, Chapter 3</td>
<td>Onsite storage, treatment and disposal of oilfield waste. Primarily oilfield pit regulations, but also has some general requirements for Class II disposal wells</td>
</tr>
<tr>
<td>LAC 43:XIX.Chapter 4</td>
<td>Statewide Order No. 29-B, Chapter 4</td>
<td>General regulations for a Class II produced fluids disposal well</td>
</tr>
<tr>
<td>LAC 43:XIX.Chapter 5</td>
<td>Statewide Order No. 29-B, Chapter 5</td>
<td>Regulations specific to commercial oilfield waste facilities</td>
</tr>
</tbody>
</table>
## Injection Well Class Types

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class I</td>
<td>Industrial (Hazardous &amp; Non-Hazardous) or Municipal Waste</td>
</tr>
<tr>
<td>Class II</td>
<td>Oil &amp; Gas Related (SWD, EOR, Storage)</td>
</tr>
<tr>
<td>Class III</td>
<td>Solution Mining (Caverns)</td>
</tr>
<tr>
<td>Class IV</td>
<td>Hazardous Waste above or into USDW</td>
</tr>
<tr>
<td>Class V</td>
<td>Wells not covered under the remaining classifications</td>
</tr>
<tr>
<td>Class VI</td>
<td>Carbon Sequestration</td>
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</table>
Injection wells in Louisiana

As of fiscal year 2021

<table>
<thead>
<tr>
<th>Class</th>
<th>Number</th>
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<tbody>
<tr>
<td>Total Wells</td>
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<tr>
<td>Class I</td>
<td>34</td>
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<tr>
<td>Class II</td>
<td>3425</td>
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<tr>
<td>Class III</td>
<td>81</td>
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<tr>
<td>Class IV</td>
<td>0</td>
</tr>
<tr>
<td>Class V</td>
<td>1030</td>
</tr>
<tr>
<td>Class VI</td>
<td>0... yet</td>
</tr>
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</table>
Class II Classification (injects oil and gas production fluids)

Different Types:
- New Drill SWD – Form UIC-2
- Conversion SWD – Form UIC-2
- Commercial SWD – Form UIC-2 COM
- Community SWD – Form UIC-2
- Enhanced Recovery – Form UIC-2 EOR

3 – 5 month review process for New Drill/Conversion SWD Applications
- Expedited 4-6 week review time

Majority of Class II Wells & today’s focus
La. Revised Statute 30:4(Q) allows authorized staff to review expedited permits outside of customary work hours while being paid time and one-half.

Applicants setup and pay into an escrow account ($1,500 minimum). Expedited permitting fees are held in escrow while staff work on the permit requests. This escrow fund, established specifically for expediting permitting, serves as the financial source from which overtime compensation is paid. Thus, the monies expended neither pose a financial liability nor directly impact the budget for Office of Conservation.

Once the permitting process is complete, any remaining escrow balance is released to the applicant.

Expedited permitting is strictly performed by applicable staff during overtime hours, so as not to negatively impact non-expedited permitting conducted during regular business hours.
UIC-2 Application Process
<table>
<thead>
<tr>
<th>Attachment 1</th>
<th>Location Plat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attachment 2</td>
<td>Area of Review</td>
</tr>
<tr>
<td>Attachment 3</td>
<td>Facility Diagram</td>
</tr>
<tr>
<td>Attachment 4A, 4B, 4C, 4D</td>
<td>Current Wellbore Schematic (Conversion), Wellhead Diagram, Proposed Wellbore Schematic, Work Prognosis</td>
</tr>
<tr>
<td>Attachment 5</td>
<td>Sources of Produced Water List</td>
</tr>
<tr>
<td>Attachment 6</td>
<td>Fluid Source Analysis</td>
</tr>
<tr>
<td>Attachment 7</td>
<td>Electric Logs</td>
</tr>
<tr>
<td>Attachment 8</td>
<td>Public Notice</td>
</tr>
<tr>
<td>Attachment 9 (Conversions)</td>
<td>Work History Resume (Historical WH1s)</td>
</tr>
</tbody>
</table>
Part 1: Review Process

Operator mails to IMD:
- Application Form (Paper Copy)
- Attachments (Paper Copy)
- MD-10-R-A (pink card) (conversion only)
- Fees
- Proof of publication

Application Processed
IMD Notifies operator of:
- Application Number
- Missing/Incorrect Information
- Receipt of Fees

Geologic Review
- Location Plat Review
- Water/Fluid Source Analysis
- USDW and Well Log Review
- Injection Zone Isolation
- Productive Zone Protection
- Proximity to Salt Domes

Notice of Deficiencies (NOD)

Wednesday, July 20, 2022
Part 1: Review Process (Continued)

Att. 1 Area of Review (Engineering)

- ¼ Mile AOR:
  - Wells in AOR
  - Well Construction Information
  - Proximity to Texas/In Coastal Zone/Cross Lake Watershed

Engineering Review

- Deficient Well Search
- Well Schematic and Work Prog
- MASIP Calculation
- Cement Calculations

Notice of Deficiencies (NOD)

All Deficiencies Addressed = Approval To Construct Granted

Unable to Address Deficiencies = Letter of Denial Issued

Wednesday, July 20, 2022
Part 2: Final Review for Permit-to-Inject

- **NEW SWD WELL**
  - Operator mails to IMD:
    - One (1) Original Signed Form UIC-WH1
    - Two (2) Copies of Signed Form UIC-WH1
    - Two (2) Copy of the Electric Log(s)
      - 1 Hardcopy 1 Digital
    - Two (2) Copy of the Cement Bond Log (CBL)
      - 1 Hardcopy 1 Digital
    - Form CSG-T for Each Casing String
    - ENG-16 if necessary

- **CONVERTED SWD WELL**
  - Operator mails to IMD:
    - One (1) Original Signed Form UIC-WH1
    - Two (2) Copies of Signed Form UIC-WH1
    - Two (2) Copies of the Cement Bond Log (CBL)
      - 1 Hardcopy 1 Digital
    - Form CSG-T for Each Casing String
    - ENG-16 if necessary

**Geologic Review**
- Review Form WH-1 and confirm:
  - Approved Zone
  - Perforation Depths
  - Base of USDW

**Notice of Deficiencies (NOD)**

*Wednesday, July 20, 2022*
Part 2: Final Review for Permit-to-Inject (Cont.)

Engineering Review

- Review Form WH-1/CBL and confirm:
  - Casing Depths
  - Perforation Depths
  - Cement Review (TOC) & Calculations
  - Plugged back Depth/Total Depth
  - Tubing and Packer Depths
  - Check/Recalculate MASIP
  - Confirm CES witnessed MIPT Conducted
  - Financial Security

Notice of Deficiencies (NOD)

- All Deficiencies Addressed
  - Approval To Inject Granted
- Unable to Address Deficiencies
  - Letter of Denial Issued

Wednesday, July 20, 2022
# Financial Security

## Footage

<table>
<thead>
<tr>
<th>Depth</th>
<th>Land Locations</th>
<th>Water - Coastal</th>
<th>Water - Offshore</th>
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</thead>
<tbody>
<tr>
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<td>$2/ft.</td>
<td>$8/ft.</td>
<td>$12/ft.</td>
</tr>
<tr>
<td>3,001 - 10,000 ft.</td>
<td>$5/ft.</td>
<td>$8/ft.</td>
<td>$12/ft.</td>
</tr>
<tr>
<td>≥ 10,001 ft.</td>
<td>$4/ft.</td>
<td>$8/ft.</td>
<td>$12/ft.</td>
</tr>
</tbody>
</table>

## Blanket ← After August 12, 2016

<table>
<thead>
<tr>
<th>Number of wells</th>
<th>Land Locations</th>
<th>Water - Coastal</th>
<th>Water - Offshore</th>
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</thead>
<tbody>
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<td>$50,000</td>
<td>$250,000</td>
<td>$500,000</td>
</tr>
<tr>
<td>11-99</td>
<td>$250,000</td>
<td>$1,250,000</td>
<td>$2,500,000</td>
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<tr>
<td>≥ 100</td>
<td>$500,000</td>
<td>$2,500,000</td>
<td>$5,000,000</td>
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</tbody>
</table>
UIC Application Guidance
Located 569 feet from the West line and 670 feet from the South line of SECTION 33, T 17 N - R 11 W, BOSSIER PARISH, LOUISIANA.
Injection and Mining Location Plat

Requirements
Policy No. IMD-GS-10
Effective November 1, 2010
http://www.dnr.louisiana.gov >> Conservation >> Divisions >> Injection & Mining >> IMD-GS-10 (under “Injection & Mining Policy Statements”)

“I, [insert license name], Professional Land Surveyor, certify that the well location depicted and described in this plat [staked or located] and surveyed in the field by me or under my direction with accuracy and precision to the nearest foot. I have properly examined this plat and have determined that it complies with the existing local Louisiana codes, and has been properly site adapted to use in this area.”

***NOTE: Policy No. IMD-GS-10 requires that the location must be surveyed on the ground with measurements that are accurate to the nearest foot.***
Underground Source of Drinking Water (USDW)

**EPA Definition of USDW**
- Supplies any public water system; OR
- Contains a quantity of ground water sufficient to supply a public water system; AND
- Contains fewer than 10,000 mg/l Total Dissolved Solids (TDS) and is not an exempted aquifer (prior to 1981, the Office of Conservation used 3,000 mg/l TDS as the base of the freshwater).

**One-Mile Search from the Proposed Well Location**
Locate the closest well with an e-log and approximate the base of the USDW in sands at the following depths:
- Ground surface to 1,000 feet: 3 ohms or greater is considered USDW
- 1,000 feet to 2,000 feet: 2 ½ ohms or greater is considered USDW
- 2,000 feet and deeper: 2 ohms or greater is considered USDW

**100 Feet of Net Shale Must Exist Between the Top of Zone and the Base of the USDW**
Finding the USDW

Be sure to look at the deep resistivity curve.

USDW must be at base of sand unit with an isolating shale below.

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Area of Review & Area of Review List

The AOR search must include:

- Conducting a foot-search of the AOR to identify any wells in the field;
- Searching SONRIS for wells in the DNR database; **AND**
- Researching field maps and company files.

Applicants must complete the AOR Well List that is included in the Form UIC-2 SWD Application package or create an AOR List with **only the requested information**.

Adequate cement in an offset well is defined as:

- A surface casing set through and cemented above the base of the USDW;
- A cemented long string whose calculated top of cement is above the proposed injection zone; **OR**
- A well with an open-hole plug set between the base of the USDW and the proposed injection zone.
AOR in Directional Wells
Injection Fluid Source List & Analyses

* The Injection Fluid Source List should include:
  * Each well that will contribute fluid to the proposed injection well
  * Only wells that are operated by the applicant.

* Applicants must complete the Injection Fluid Source List that is included in the Form UIC-2 SWD Application package or create an Injection Fluid Source Well List with only the requested information.

* Laboratory analyses must include:
  * Signed originals from a LDEQ LELAP accredited laboratory;
  * Measurements of Chloride (mg/l), Specific Gravity or Density (g/cc or ppg), Total Dissolved Solids (mg/l), and the Temperature when the specific gravity was measured; AND
  * Sample name(s) that correlates to the well(s) on the Injection Fluid Source List.
Establishing an Injection Zone

* 100 Feet of Net Shale Must Exist Between the Injection Zone and Productive Intervals
  * Conduct a one-mile search from the proposed well location
  * Correlate e-logs of productive wells to the e-log of the proposed well
  * Ensure 100 feet of net shale
    * < 100 feet leads to enhanced geologic review

* Sufficient Shale Must Confine the Top and Bottom of Zone
  * Rule-of-Thumb: Look for 30 foot continuous shale interval

* Permitting Multiple Sands
  * The proposed injection zone may contain more than one sand unit, provided that the USDW and productive intervals are isolated
  * Permitting a zone of multiple sand units will allow for future perforations within the permitted injection zone by applying for a work permit (Form UIC-17)
Establishing the Injection Zone

The Injection Zone Can Include More Than One Sand

30+ ft. thick

TOZ

BOZ

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**Well Design**

* **Surface Casing**
  * Regulations: Must be set below the base of the USDW
  * IMD policy: Must be set at least 100 feet below the base of the USDW

* **Packer**
  * Regulations: The packer may not be set more than 150 feet above the top of the proposed injection zone; **AND**
  * IMD policy: Set the packer deeper than the bottom of the minimum required continuous interval of 60% bonded cement in the first continuous confining shale formation immediately above the approved injection zone

* **Cement Isolation**
  * Must be confirmed by Cement Bond Log (CBL)
  * CBL must show 60% (≤10mv) bonded cement to first isolating shale formation
  * Amount of bonded cement depends on casing size (e.g. 7-5/8” csg → 12 feet)
Well Design (Cont’d)

• Examples of Plugs to Isolate Productive Pools

- **POOL 1**
  - 10.750 in Csg
  - 32.75 lbm/ft
  - 3,000 ft

- **POOL 2**
  - 7.625 in Csg
  - 24.00 lbm/ft
  - 10,000 ft

- **POOL 3**
  - CIBP with 10 feet of cement on top or a cement retainer with 20 feet of cement on top
  - Cement across perfs/perfs squeezed w/ 100 feet of cement above upper perforation
  - 100 foot balanced plug immediately above upper perforation

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Well Design (Cont’d)

• Plug to Isolate Bottom of Zone

- Top of Zone
- Bottom of Zone

- Injection Perforations

- Must be within or shallower than the first Isolating Shale Formation immediately below the proposed Bottom of Zone

- CIBP with 10 feet of cement on top; CR with 20 feet of cement on top; or a 100 foot cement plug

- Pool

- 10.750 in Csg
  32.75 lbm/ft
  3,000 ft

- 7.625 in Csg
  24.00 lbm/ft
  10,000 ft

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New Drill Wells: Must record reservoir pressure and submit to IMD after perforating and prior to injecting

* Bottomhole Pressure Gauge
* Static Fluid Level
Logging the Well

Provide Open-Hole E-Logs of the USDW and the Proposed Injection Zone

New-Drill Wells

- Must run open-hole e-log (dual induction or triple combo) of the injection zone; **AND**
- If USDW **cannot** be identified from offset well within ¼-mile, must run open-hole e-log from total depth to surface before running surface casing; **OR**
- If USDW **can** be identified from offset well within ¼-mile, only need to run open-hole e-log from total depth THROUGH THE BASE OF the surface casing shoe.

Conversions or New Drills

- Must submit an open-hole e-log (dual induction or triple combo) from the well itself or from the closest well within a 1-mile AOR, that shows:
  - USDW
  - Proposed Injection Zone
- May be shown on separate e-logs
Logging the Well (Cont’d)

* Provide Cased-Hole Logs to prove no fluid migration behind Long String:

Applicants must submit (or propose to run):

* Cement Bond Log (CBL)* – detects cement by measuring the loss of acoustic energy as it passes through casing. We do not accept pipe-inside-of-pipe.

* Radioactive Tracer Survey (RTS)** – detects RA “tagged” fluid movement through channels while on injection. Can also be used to detect height of stimulation.

* Temperature Log** – able to locate top of cement outside larger heavier casings and also detect channels and height of stimulation due to acidizing/fracturing.

* Oxygen Activation Log** – detects channels by identifying movement of water.

* Other Acceptable Tests**

* = required. ** = may be required.

Guideline for running CBLs and RTSS:

* [http://www.dnr.louisiana.gov](http://www.dnr.louisiana.gov) >> Conservation >> Forms >> Injection & Mining Division
Cement Bond Logs

- CBLs are required to be run on all new drills, conversions, and zone changes
- IMD cannot accept “pipe-in-pipe” CBL
- Minimum interval of continuous 60% bonded cement in a continuous confining shale
- Rule of Thumb: <10mV on amplitude curve for x-amount of feet
CBL EXAMPLE

USDW: 300ft
Surface Casing: 16” (84 #/ft) @ 500 ft
Long String: 10-3/4” (40.5 #/ft) @ 2000 ft
Proposed Zone: 1276 – 1326 ft

How many feet of isolating cement do we need for:

TOZ: ?
BOZ: ?

Where would you call the bottom of the required cement interval?

Where is the shallowest allowed packer depth?
### Open-Hole Log scale:

<table>
<thead>
<tr>
<th>SELF-POTENTIAL (millivolts)</th>
<th>DEPTHS</th>
<th>RESISTIVITY (ohms. m²/m.)</th>
<th>RESISTIVITY (ohms. m²/m.)</th>
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</thead>
<tbody>
<tr>
<td>-30</td>
<td>0</td>
<td>5</td>
<td>100</td>
</tr>
<tr>
<td>+</td>
<td>0</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>AMP.</td>
<td>0</td>
<td>1</td>
<td>NORM. 2</td>
</tr>
<tr>
<td>5</td>
<td>0</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>50</td>
<td>0</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>
### Cement Bond Log Interpretation Guide

<table>
<thead>
<tr>
<th>Casing Size</th>
<th>Weight</th>
<th>Travel Time</th>
<th>Free Pipe</th>
<th>Class H Cement 3000 psi</th>
<th>60% Bond 100% cmt cut off</th>
<th>Interval for Isolation</th>
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<tbody>
<tr>
<td>4 1/2&quot;</td>
<td>9.6</td>
<td>264</td>
<td>81 mv</td>
<td>0.2 mv</td>
<td>2.3 mv</td>
<td>5 feet</td>
</tr>
<tr>
<td></td>
<td>11.0</td>
<td></td>
<td></td>
<td>0.6 mv</td>
<td>4.0 mv</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13.5</td>
<td></td>
<td></td>
<td>1.0 mv</td>
<td>7.0 mv</td>
<td></td>
</tr>
<tr>
<td>5&quot;</td>
<td>15.0</td>
<td>258</td>
<td>76 mv</td>
<td>0.9 mv</td>
<td>5.5 mv</td>
<td>5 feet</td>
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<tr>
<td></td>
<td>18.0</td>
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<td></td>
<td>2.2 mv</td>
<td>10.0 mv</td>
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<tr>
<td></td>
<td>21.0</td>
<td></td>
<td></td>
<td>3.8 mv</td>
<td>15.0 mv</td>
<td></td>
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<td>5 1/2&quot;</td>
<td>15.5</td>
<td></td>
<td></td>
<td>0.7 mv</td>
<td>4.8 mv</td>
<td></td>
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<td>17.0</td>
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<td></td>
<td>20.0</td>
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<td>2.1 mv</td>
<td>9.0 mv</td>
<td>6 feet</td>
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<td>23.0</td>
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<td></td>
<td>3.5 mv</td>
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<td>26.0</td>
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<td>1.7 mv</td>
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<td></td>
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<td>11 feet</td>
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<td>4.0 mv</td>
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<td>38.0</td>
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<td>40.0</td>
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<td>6.0 mv</td>
<td>17.0 mv</td>
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<td>289</td>
<td>62 mv</td>
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<td>5.5 mv</td>
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<td>1.8 mv</td>
<td>7.5 mv</td>
<td></td>
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<td>33.7</td>
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<td></td>
<td>2.6 mv</td>
<td>10.0 mv</td>
<td>12 feet</td>
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<tr>
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<td>39.0</td>
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<td></td>
<td>3.5 mv</td>
<td>13.0 mv</td>
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<td>9 5/8&quot;</td>
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<td></td>
<td>1.0 mv</td>
<td>0.0 mv</td>
<td></td>
</tr>
<tr>
<td></td>
<td>43.5</td>
<td></td>
<td></td>
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<td>47.0</td>
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<td></td>
<td>2.7 mv</td>
<td>9.0 mv</td>
<td>15 feet</td>
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<td>63.5</td>
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<td></td>
<td>4.0 mv</td>
<td>12.0 mv</td>
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</tr>
<tr>
<td>10 3/4&quot;</td>
<td>40.0</td>
<td>352</td>
<td>48 mv</td>
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<td>5.1 mv</td>
<td>10 feet</td>
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<td>45.5</td>
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<td>1.8 mv</td>
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<td>48.0</td>
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<td>2.8 mv</td>
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</table>
FREE PIPE SECTION – verifies tool is calibrated:

48mV is considered “free pipe” (meaning no cement behind the pipe) for a 10-3/4” casing.
Continuous confining shale: 1134’ – 1275’

Start at top of shale and work your way down until you hit the required 18’ of continuous cement (<10mV)

*** PACKER MUST BE SET AT OR BELOW 1230’ ***
Bottom of Zone (BOZ) is at 1326 feet:

BOZ @ 1326 ft

There is “evidence of cement” at the BOZ – i.e. not “free pipe”.

Wednesday, July 20, 2022
**Proof of Publication**

* **SWD Well associated with Oil and Gas Production**
  * Must be published for at least 15 days before application can be approved
  * Notice only in State Journal, *The Advocate*
  * Submit original notarized copy of Proof of Publication with application
  * Check accuracy of **Serial Number; Well Name and Number; Sec/Twn/Rng; Operator Name and Address; Operator Code; Field Name and Field Code.**
Form UIC-2 SWD Signature

- Application must contain a signature from an associate of the Operating Company:
  - Officer
  - Manager
  - General Partner
  - Proprietor
  - Operator of the Well
  - Direct Employee in decision-making role

- Agent or Contact authorized to act for Operator
  - Operator must designate who receives correspondence regarding the application.
  - Operator will receive all correspondence. Authorized agent will only be cc’d if the box is selected.
Forms

Applicable to SWD Wells
IMD Forms

- **Form UIC–5**
  Injection Well Integrity Affidavit

- **Form UIC–7**
  Injection Well Inspection Form – MIT (for CES use only)

- **Form UIC–10**
  Annual Disposal / Injection Well Monitoring Report – [Online Reporting via SONRIS](#)

- **Form UIC–13**
  Community Saltwater Disposal System Initial Notification

- **Form UIC–17**
  Injection Well Work Permit

- **Form UIC–32**
  Application to Change Disposal/Injection Zone

Wednesday, July 20, 2022
**IMD Forms**

- Form UIC–P&A (Don’t need UIC-WH-1 with this!)
  *Injection Well Plug and Abandonment Report*

- Form UIC–WH1
  *Well History & Work Resume Report for Injection Wells*

- Form IMD-1
  *Request for Expedited Review*

- Form CSG-T
  *Affidavit of Test of Casing in Well*
* **Form MD-10-R (yellow card)** – *no longer necessary* for new-drill SWD wells
  Application for Permit to Drill for Minerals

* **Form MD-10-R-A-1 (pink sheet)** – *required for conversions*
  Application to Amend Permit to Drill for Minerals for a Single Well

* **Form MD-10-R-AO (blue sheet)**
  Optional Application to Amend Operator for Multiple Wells Only

* **Form WH-1**
  Well History and Work Resume Report

* **Form P&A**
  Plug and Abandon Report
Enhanced Recovery Wells

Use Form UIC-2 EOR

The application process is the same as with Class II UIC-2 SWDs except for the following:

- An Order creating a Secondary Recovery or Enhanced Recovery (EOR) project, signed by the Commissioner of Conservation must exist before a permit can be issued for an ER well.
- EOR projects and Orders associated with them are under the jurisdiction of the Engineering and Geological Divisions of Conservation.
- Pilot projects must first have approval through the Engineering and Geological Divisions of Conservation before the Injection and Mining Division can approve the permit.
Internet Links

Applicable to SWD Wells
Internet Links

- DNR Regulations

- Downloadable DNR Application Forms

- DNR Online Public Database Access (SONRIS)

- DNR Scanned Documents (SONRIS)

- Great Information!!! UIC Permitting Workshop Outlines & Presentations
Internet Links (Cont’d)

- SONRIS Registered Water Well Database
  http://www.dnr.louisiana.gov >> SONRIS (orange box on left side of page) >> SONRIS Data Portal >> Groundwater Well Information >> Water Wells by <several options>

- LDEQ LELAP Accredited Laboratories
  http://www.deq.louisiana.gov >> About LDEQ >> Public Participation and Permit Support >> Louisiana Laboratory Accreditation >> Accredited Laboratories >> LELAP Accredited Labs* (scroll down the list of Accredited Laboratories or you can export to an Excel spreadsheet)

FYI: Application Fees for IMD effective AUGUST 1, 2015
Fees can be found in LAC 43:XIX Chapter 7, aka Statewide Order No. 29-R.
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<td>Annular Saltwater Disposal</td>
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<td>Request for Variance to Class V Well Permitting/Class V Waiver Request*</td>
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<td>Application for Change of Zone</td>
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Office of Conservation

Richard P. Ieyoub
Commissioner
Main Phone (225) 342-5540
Fax (225) 342-3705

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Office of Conservation

Forms, Reports & Documents

This page contains links to various Office of Conservation documents of interest to the public, including data, forms, reports, publications, newsletters, and other items.

Forms Assistance >>

The Office of Conservation has begun to incorporate some forms that can be Filled-in, Saved & Printed using Adobe Reader. Look for the symbol in the table below for forms that have been converted to this format. Please refer to the Forms Assistance page for guidance in using these forms.
Thank you!

QUESTIONS?

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Addie Roberts – Addie.Roberts@LA.gov