UIC APPLICATIONS: UIC-14s, UIC-17s, UIC-P&As, UIC-32s, AND UIC-WH1s

(This outline is provided as a companion to the UIC Applications PowerPoint slide presentation.)

UIC APPLICATION FORMS

ACCESSING THE FORMS

(SLIDE NOS. 2-7)

- Go to http://dnr.louisiana.gov
- Select the Conservation tab
- Select Forms/Reports/Documents in the left menu
- Click on the Injection and Mining Division tab
- Select the PDF hyperlink or word document for the desired form

FORM UIC-14: APPLICATION FOR SUBSURFACE DISPOSAL OF RESERVE PIT FLUIDS

PURPOSE

(SLIDE NO. 9)

To dispose of water based pit fluids through annular injection, open hole disposal, or disposal through perforations

DISPOSAL METHODS

(SLIDE NOS. 19-21)

ANNULUS OR OPEN-HOLE

Defined as injection within the interval from the base of the injection casing to the top of cement of the next cemented casing or TD.
OTHER UIC APPLICATIONS

- Surface casing must be set at least 200 feet below the base of the USDW and cemented to surface, and must pass the second casing integrity pressure test or Radioactive Tracer Survey (RTS).
- Oil-based fluids are not authorized.

DISPOSAL THROUGH PERFORATIONS

Defined as injection within the interval from the uppermost injection perforation to the lowermost injection perforation

- Surface casing must be set at least 200 feet below the base of the USDW and cemented to surface.
- A cement bond log (CBL) must be submitted showing adequate cement isolation above the perforations.
- The casing must be pressure tested before perforating (or with a bridge plug if already perforated).
- An RTS with a time-drive supplement may be run.
- Oil-based fluids are not authorized.

ATTACHMENTS

(SLIDE NOS. 27-35)

$252 NON-REFUNDABLE APPLICATION FEE

A check may be mailed to the Injection and Mining Division or payment may be remitted online by request. If submitting online payments, an invoice will be generated and faxed to the operator with instructions for submitting payment

CERTIFIED WELL LOCATION PLAT

Certified Well Location Plat with Louisiana Lambert X- & Y- coordinates referenced from NAD 1927 and 1983 for the surface hole location

SCHEMATIC DIAGRAM OF THE WELL

Must identify:

- Drilled hole diameters, depths, and sizes of all casing strings
- Interval of the disposal zone
- Total depth of the well

UIC WORK PERMITTING WORKSHOP
- Depth of the tops of cement for each casing string
- Depth of the USDW

**FORM CSG-T**

**CRITERIA FOR APPROVAL**

- Pressure must be held at 1000 psi or greater for a minimum of 30 minutes and must not drop more than 5%
- Packer must be set within 50 feet of the casing shoe
- Must have been performed within one year of submitting the application

**SUBSTITUTIONS**

- Pressure chart recordings may be submitted if the State Inspector did not witness the required second test
  - Must be properly labeled with: Well name, serial number, casing size, packer depth, test date, test start and stop time, and signature
- An inspector-witnessed RTS with a time drive supplement may be performed in lieu of the second pressure test

**MORNING REPORTS**

- Indicating that a shoe test was conducted in which the shoe held pressure to an Equivalent Mud Weight (EMW) within 15% of the Eaton 9# curve
- Indicating when the long string was run

**AREA OF REVIEW (AOR)**

(SLIDE NO. 36)

- ¼-mile radius search
- Disposal into hydrocarbon bearing horizons is prohibited
- All wells must have proof of cement isolation between USDW and top of the injection zone of the subject well

**PERMIT**

(SLIDE NOS. 40-44)

- Valid for 6 calendar months
- Issued via email with the following documents:
OTHER UIC APPLICATIONS

- Form UIC-14B—Daily Waste Disposal Log
  - Record daily injected volume, hourly mud weight, injection pressure, and rate.
    (must maintain a minimum 9 ppg mud weight)
  - Must indicate if subsequent injection is intended
  - Must be faxed daily
- Form UIC-14C—Certificate of No Incident
  - Record total amount of fluids injected during disposal and length of disposal period
    - If activity is suspended for a short period of time, the form must still be completed and must indicate that additional fluids will be injected
    - If injection is complete, the form must indicate that fluids will no longer be injected under the approved permit.
  - Must be submitted within seven (7) days of the conclusion of each reserve pit disposal operation

FORM UIC-17: INJECTION WELL WORK PERMIT

PURPOSE

(SLIDE NO. 47)

To perform work activities on a well after the permit-to-inject has been issued which utilizes the use of a rig

TYPES OF WORK ACTIVITIES

(SLIDE NO. 48)

- Deepen
- Perforate
- Squeeze
- Plugback
- Pull Tubing and Packer
- Plug and Abandon (P&A)
- Back wash or other well stimulation (Class I wells)
- Pull casing
- Replace wellhead
- Acidize (Class I wells)
COMPLETING THE FORM: KEYNOTES

- The description of work must include all work being performed on the well and the current packer depth. If the tubing and packer will be pulled, the depth at which the packer will be reset must be provided.
- A witnessed MIPT must be included in the work activity
- The form must include a signature and date.
- For P&As, a separate sheet may be provided detailing proposed work and this may be noted in the description of work, e.g., “work procedure is attached”

PLUG AND ABANDON

- Cement used must be either class A or class H with a minimum slurry weight of 15 ppg
- The number of sacks of cement must be provided for each plug
- There must be a minimum 9 ppg mud or inhibited brine placed between plugs
- Existing perforations must be isolated from one another by a permissible plug and must be pressure tested to a minimum of 300 psi for at least 30 minutes
- There must be cement isolation across the USDW. If a CBL or calculated cement doesn’t confirm isolation, then the work must include a plan to perforate and squeeze cement at a depth of 50 ft. below the base of the USDW such that calculated cement comes up to 50 ft. above the base of the USDW for an external plug of at least 100 ft.
  - Pressure test is not required for the USDW plug but it must be tagged to verify the top of cement
- Land locations must cut all casing strings at least 5 ft. below ground level and leave a surface plug of at least 30 ft. A ½ inch thick steel plate must be welded across all annuli and include well serial number and date
- Water locations must cut all casing strings at least 15 ft. below the mud line and leave a surface plug of at least 100 ft.

PERMIT

- 90 day permit will be issued unless remedial action is deemed necessary following a review of the well file. In that case, a 30 day permit will be issued
- Reporting requirements will be included with the permit providing a time table and detailed instructions for submitting follow-up documentation
FORM UIC-P&A: INJECTION WELL PLUG & ABANDONMENT REPORT

PURPOSE

(SLIDE NO. 61)

This form is now used in lieu of Form WH1 to document the plugging and abandonment of an injection well. (Temporary abandonment should not be submitted on this form)

COMPLETING & SUBMITTING THE FORM

(SLIDE NOS. 62-65)

- All work and tests performed should be reported
- Should be completed with as much historical and current information as possible
- Must include an original signature from an authorized representative of the operating company
- Must be filed in duplicate in the Injection and Mining Division within 20 days of completion

FORM UIC-32: APPLICATION TO CHANGE DISPOSAL/INJECTION ZONE

PURPOSE

(SLIDE NO. 68)

To request approval to perforate outside of the current permitted zone

COMPLETING THE FORM

(SLIDE NOS. 71-76)

- The majority of the data needed to complete the form may be obtained from historical well information and proposed work
- The description of work must include all work to be performed on the well and must include a witnessed MIPT

ATTACHMENTS

(SLIDE NOS. 77-80)

$126 NON-REFUNDABLE APPLICATION FEE

A check may be mailed to the Injection and Mining Division or payment may be remitted online by request. If submitting online payments, an invoice will be generated and faxed to the operator with instructions for submitting payment
ELECTRIC LOG

- The serial number must be written on the log
- A complete log must be submitted, from the heading to the depth logged
- Must identify the proposed injection zone and perforated interval

WELLBORE DIAGRAM

- Should include all of the details provided on the application regarding the proposed injection zone and any proposed work that needs to be performed in order to obtain approval
- A diagram of the current wellbore construction may also be submitted at the operator’s discretion

PERMIT

(SLIDE NO. 81)

- Approval to Recomplete will be issued and is valid for 6 calendar months
- Reporting requirements will be included with the permit providing a time table and detailed instructions for submitting follow-up documentation needed in order to receive the permit to inject
  - Once field activities are complete and reporting requirements are met, a final review will be conducted for the permit to inject

FORM UIC-WH1: INJECTION WELLS WELL HISTORY & WORK RESUME REPORT

PURPOSE

(SLIDE NO. 84)

To document the drilling and completion of an injection well, the conversion and completion of an existing well to an injection well, recompletion of an existing injection well involving a change of zone, and the completion of a workover procedure of an injection well

COMPLETING & SUBMITTING THE FORM

(SLIDE NOS. 89-104)

- Data will be based on available historical well information and will include any changes that occur during the permitted work
- Data may be verified in Sonris Lite under “Wells by Serial Number”
The description of work must include all work performed under the approved permit and must include a successful MIPT.

Must include an original signature from an authorized representative of the operator of record.

Must be filed in duplicate in the Injection and Mining Division within 20 days of completion.
Group Activities
### WHAT IS WRONG WITH THIS AFFIDAVIT?

**AFFIDAVIT OF TEST OF CASING IN WELL**

**STATE OF LOUISIANA**

**OFFICE OF CONSERVATION**

**DATE**
3/20/2011

**OPERATOR’S NAME AND ADDRESS:**
XYZ Resources, LLC

**OPERATOR CODE:** X007

**PHONE:** 555-555-5553

**WELL INFORMATION**

**WELL NAME AND NO.:** KMLSL 2 NO. 001

**SERIAL NO.:** 99999

**FIELD:** Logansport

**PARISH:** De Soto

**SEC:** 34

**TWP:** 13N

**RNG:** 16W

**CASING SIZE:** 9 5/8

**HOLE SIZE:** 12 1/4

**CASING WEIGHT:** 36

**MAKE:** GuKast

**NUMBER OF THREADS/INCH:** 6

**GRADE:** J-55

**SEAMLESS:** Yes

**NEW OR 2ND HAND PIPE:** New

**DEPTH CASING SHOE LANDED BELOW DERRICK FLOOR:** 1854 ft.

**NO. OF SACKS OF CEMENT:** 896

**SIZE OF HOLE:** 12 1/4

**AMOUNT OF CEMENT LEFT IN PIPE:** 41 feet

**MANNER OF CEMENTING:** Schlumberger

**CEMENT SET IN 4 HOURS:** Under

**TOTAL DEPTH OF HOLE:**

**TOTAL TIME SET 30 HOURS:**

**DETAIL OF PRESSURE TEST BEFORE DRILLING PLUG**

**DATE OF TEST:** 3/22/2011

**GAUGE PRESSURE OF CASING:** 1000 psig

**PRESSURE AT END OF 30 MINUTES:** 975 psig

**PRESSURE DROP:** 25 psig

**TEST FLUID:** ☐ WATER ☐ MUD

**WEIGHT:** 8.0

**VISCOSITY:** 32

**REMARKS:** Retest 9 5/8 casing. Packer set at 1805’ (Test Good) Charted.

**CERTIFICATION BY OPERATOR**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this form and that, based on my examination of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (L.R.S. 33:17).

**WITNESS:**

**SIGNATURE:**

**OPERATOR REP.:** Les Gho

**SIGNATURE:** Les Gho

**GROUP ACTIVITY #1**
WHAT IS MISSING ON THIS PRESSURE CHART RECORDING?
OTHER UIC APPLICATIONS

WHAT VITAL INFORMATION IS MISSING IN THE DESCRIPTION OF WORK?

INJECTION WELL WORK PERMIT
Office of Conservation
Injection and Mining Division

UIC-17

IMD Injection Well Permit No.

Operator's Name and Address:
XYZ Resources LLC
123 Alphabet Street
Somewhere, US 00000

Serial No. 99999
Operator Code: X007

Well Name and Number:
KMSL 2 SWD #001

Phone: (555) 555-5555
Fax: (555) 555-5550

Field: TEPEATE
Parish: ACADIA
Sec. 023
Twp. 07S
Reg. 02W

DESCRIPTION OF WORK
MlRU, RH & release ADL-1 plr. RH with mule shoe and wash to at least 4110' (sickline tagged sand at 4046' 8/2/10).
RH with CIEP for 5-3/4" ceg & set at 4100' w/10' cmt on lop. RH with tng and plr & set at 3900'. Backwash well. Turn well over to injection.

Field Contact to Schedule Well Test: Doug Hole
Permit Requested By: Anita Klew
Phone: 555-555-5551
Date: 01/01/2024

Signature: Anita Klew

Permit Authorized By:

INSTRUCTIONS
A single application will suffice for one or combinations of the operations below provided that if more than one operation is requested on one form, such work must be performed consecutively.

1. Plug and Abandon (Pressurized Well with Liquid)
2. Deepen
3. Rework Wellhead
4. Squeeze
5. Packoff
6. Well Intervention (Pressurized Well with Liquid)
7. Book Work or Other Well Services (Pressurized Well Only)

Mail all Injection Well Work Permits to:
Department of Natural Resources
Office of Conservation
Injection and Mining Division
P.O. Box 94275
Baton Rouge, LA 70804-9475

To perform any of the above work types without first obtaining a work permit is a violation of the law (LAC 43:IX.105), which carries with it possible civil and criminal penalties.

FORM UIC-17
Rev 07-03

UIC WORK PERMITTING WORKSHOP

126
WHAT VITAL INFORMATION IS MISSING IN THE DESCRIPTION OF WORK?

INJECTION WELL WORK PERMIT
Office of Conservation
Injection and Mining Division

UIC-17

<table>
<thead>
<tr>
<th>Operator's Name and Address:</th>
<th>XYZ Resources LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>123 Alphabet Street</td>
<td>Serial No.: 99999</td>
</tr>
<tr>
<td>Somewhere, US 00000</td>
<td>Operator Code: X007</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Well Name and Number:</th>
<th>KMSL 2 SWD #001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: (555)555-5555</td>
<td>Sec. 02B</td>
</tr>
<tr>
<td>Fax: (555)555-5550</td>
<td>Top. 07S</td>
</tr>
<tr>
<td>Fields: TEPETATE</td>
<td>Reg. 02W</td>
</tr>
<tr>
<td>Parish: ACADIA</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION OF WORK

PULL PACKER AND CHECK TUBING FOR LEAKS. CHANGE PACKER.

PERFORM MIPT WITNESSED BY CES AGENT.

Field Contact to Schedule Well Test: Doug Hole

Permit Requested By: Anita Klow

Signature: Anita Klow

Permit Authorized By: Date: 01/01/2024

INSTRUCTIONS

A single application will suffice for one, or combinations of the operations below provided that if more than one operation is requested on one form, such work must be performed consecutively.

1. Plug and Decommission
2. Reinjection
3. Recharge
4. Pack/Insert
5. Pressure Test
6. Blowback
7. Water Test
8. Well Closure

Mail all Injection Well Work Permits to:
Department of Natural Resources
Office of Conservation
Injection and Mining Division
P.O. Box 94275
Baton Rouge, LA 70804-9275

To perform any of the above work types without first obtaining a work permit is a violation of the law (LAC 43:XI, 105), which carries with it possible civil and criminal penalties.

FORM UIC-17

Rev. 07/03
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