





# Underground Injection Control (UIC) Permitting

Rob Castillo July 2020















### **Session Overview**



- UIC Online Manual
- Safe Drinking Water Act & Primacy
- Permit Application Details
  - Forms and Attachments
  - Administrative Review
  - Technical Review
  - Seismicity Review
- Application Decisions, Protests & Hearings



### Where is it?

## **UIC ONLINE MANUAL**

## Permitting UIC Manual



Q

**Contact Us** 

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About Us- Oil & Gas- Alternative Fuels- Gas Services- Pipeline Safety- Mining & Exploration- Hearings- General Counsel-

#### Railroad Commission of Texas

#### Capitol Complex Construction

Visiting the RRC's Austin offices in the William B. Travis (WBT) state office building? Give yourself extra time. Note ongoing street, sidewalk and parking closures in the area due to the Capitol Complex Construction project. Click here for information on parking availability and access to the WBT building. Additional information can be found on Texas Facility Commission's website State of Texas Capitol Complex newsletter.

#### The Railroad Commission serves Texas through:

- · our stewardship of natural resources and the environment;
- · our concern for personal and community safety; and
- · our support of enhanced development and economic vitality for the benefit of Texans.

#### Learn More

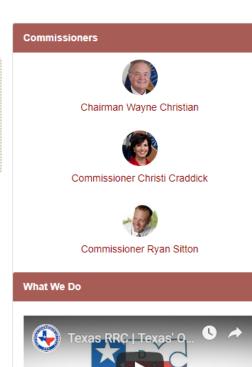
#### Recent News View All

Texas Drilling Permits and Completions Statistics for June 2019

July 10, 2019

The Railroad Commission of Texas (Commission) issued a total of 1,001 original drilling permits in June 2019 compared 1,230 in June 2018. The June 2019 total included 905 permits to drill new oil or gas wells, 10 to re-enter plugged well bores and 86 for re-completions of existing well bores. The breakdown of well types for those permits is Read More...

Texas Oil and Gas Production Statistics for April 2019



http://www.rrc.texas.gov/

## Find Permitting Manual - 1



# Click Injection/Disposal Well Permitting, Testing and Monitoring Manual



## Find Permitting Manual - 2



#### Injection and Disposal Well Permitting

- 1. Summary of Standards and Procedures
- 2. Guidelines for Permit Amendments: Non-Productive Formations
- 3. Guidelines for Permit Amendments: Productive Formations
- 4. Examples of Rule 9 and Rule 46 GAU letters
- 5 Notice Instructions for:

Rules 9 Disposal into Non-Productive Formations

Rules 46 Injection / Disposal into Productive Formations

Rules 95 Liquid Hydrocarbon Storage in Salt Formations

Rules 96 Gas Storage in Depleted Reservoirs

Rules 97 Gas Storage in Salt Formations

- 6. Fresh Water Questionnaire
- 7. Cement Criteria
- 8. Packer Setting Depths
- 9. Fracture Step-Rate Test Guidelines
- 10. Downhole Oil/Water Separators
- Permitting Flowchart
- 12. Frequently Asked Questions

#### Summary of Standards and Procedures

#### Administrative Review

This page discusses the administrative check done to verify that all filing requirements are satisfied.

#### Attachments for new wells

This page discusses the required attachments for injection permit applications.

#### Transfer and Amendments

This page discusses the transfer of permits and subsequent changes to permit conditions.

#### Technical Review

This page discusses the review of the proposed injection well for compliance with well construction, operation and injected

#### Seismicity Review

This page discusses the review of disposal wells permit applications in areas of seismicity.

#### Permit Processing

This page discusses the various stages of processing the permit application.

#### Protested Applications

This page discusses the processing of applications that are protested by an affected party.

#### Post-Permitting

This page discusses filing, testing, and monitoring requirements after the injection permit is issued.



Where does RRC get their authority? What does RRC have authority over?

# SAFE DRINKING WATER ACT & PRIMACY

## Safe Drinking Water Act



- Safe Drinking Water Act (SDWA) 1974
- To protect human health and drinking water
- Underground Injection Control (UIC)
  - Prohibits contamination of USDWs
- Underground Sources of Drinking Water (USDW)
- Enforcement Primacy
  - RRC: April 23, 1982
- There are 33,000 active injection wells in Texas!

## Water Quality Terms & Uses

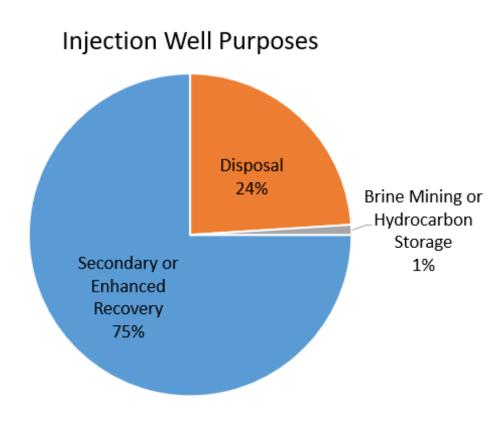


- USDW ≤ 10,000 ppm Total Dissolved Solids (TDS)
  - SDWA protects, "freshwater" from SWR 9 & 46
- Usable-Quality Water < 3,000 ppm TDS</li>
  - RRC standard for casing
- Superior Water ≤ 1,000 ppm TDS
  - RRC may recognize and require additional protection

### Injection Well Classes & Jurisdiction



- Class I: industrial and municipal wastes
- Class II: oil and gas injection (75%), disposal (24%), storage
- Class III: solution mining (brine mining)
- Class IV: shallow injection (not used anymore)
- Class V: shallow injection, non-hazardous, remediation, pilot projects
- Class VI: CO<sub>2</sub> capture and storage





## **FORMS H-1/H-1A AND W-14**

## Which form do I file?



#### Form W-14:

 Disposal into a Non-Productive Formation - Statewide Rule 9

#### Form H-1 and H-1A:

- Injection/Disposal into a Productive Formation -Statewide Rule 46
- Multiple Zones: If a mix of Productive and Non-Productive
- Current or past production within 2 miles radius

Mail form and attachments to UIC in Austin and a copy to the district office

## Permit Application Filing Fees



- Form W-14: **\$250** per wellbore
- Forms H-1 & H-1A: \$500 per wellbore
- Exception Requests: \$375 (additional) each request
- These fees include surcharges and are nonrefundable
- Check or Credit (Central Records)
- Applications will not begin processing until paid

## H-1 – Operator & General Location



#### APPLICATION TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL OR GAS

1.Operator name  (as shown on P-5, Organization Report)	_ 2. Operator P-5 No
3.Operator Address	
4. County	5. RRC District No
Field Name      Lease Name	_ 7. Field No

- Organization Information, Form P-5
  - Must have active P-5
  - Operator name, number and address
- General Location Information, Form P-4
  - Must have active P-4 (or be new drill)
  - Lease name and number
  - Field name and number

### Determine the Field Name



### H-1/H-1A Field Name:

- should be correlative to injection/disposal formation
- use deepest correlative formation if injecting into more than one formation or keep current Field Name if the well is already on proration schedule

#### W-14 Field Name:

 should be correlative to formation more than 2 miles away or correlative to the formation that is the source of disposal fluids

## H-1 – Reservoir Data



- Geology
  - Formation Name, Lithology, Permeability, etc.

	RESERVOIR DATA FOR A	NEW PROJECT	
11. Name of Formation		_ 12. Lithology	
13. Type of Trap(anticline, fault trap, stratigraphic trap, etc.)		(e.g., dolomite, limestone, sand, etc.)  14. Type of Drive during Primary Production	
15. Average Pay Thickness	16. Lse/Unit Acreage	17. Current Bottom Hole Pressure (psig)	
18. Average Horizontal Permeability (n		ge Porosity (%)	

## H-1 - Injection Project Data



- Purpose of Injection
- Waterflood, Disposal, etc.
- What will be injected
  - Salt Water, CO2, Natural Gas, RCRA-exempt Waste, etc.

			INJECTION	N PROJEC	T D	ATA				
20. No. of Injection Wells in	this application	r								
21. Type of Injection Project	t: Waterfloo	Waterflood ☐ Pressure Maintenance ☐		Miscible Displacement D			Natural Gas Storage □			
	Steam		Thermal Reco	overy		Disposal			Other	
22. If disposal, are fluids fro	m leases other	than th	ne lease identi	fied in Iten	n 9?	Yes 🗆	No			
23. Is this application for a	Commercial Dis	posal V	Well ?			Yes □	No			
24. If for commercial dispos	al, will non-haz	ardous	oil and gas w	aste other	than	produced water b	e disp	osed?	Yes □	No □
25. Type(s) of Injection Flui	d:									
Salt Water   Brace	kish Water	Fres	h Water	CO₂ □	N <sub>2</sub>	☐ Air ☐ H	2S 🗆	LPG	NORM	
Natural Gas  Poly	mer 🗆	Othe	er (explain) _							

## H-1A – Injection Well Data



- Organization & Specific location
  - Operator, Field and Lease Name, etc.
  - Legal description & coordinates
- Well construction
  - Casing, tubing, packer description

INJECTION WELL DATA (attach to Form H-1) 1. Operator Name (as shown on P-5) Operator P-5 No. 3. Field Name 4. Field No. 5. Current Lease Name Lease/Gas ID No. (center of nearest town). 7. Lease is miles in a direction from 8. Well No. 9. API No. 10. UIC No. 11. Total Depth 12. Date Drilled 13. Base of Usable Quality Water 14. (a) Legal description of well location, including distance and direction from survey lines: (b) Latitude and Longitude of well location, if known (optional) 15. New Injection Well ☐ or Injection Well Amendment ☐ Reason for Amendment: Pressure Volume Interval Fluid Type I Other (explain) # Sacks of Top Determined by Casing Size Setting Depth Hole Size Casing Cement Top of Weight Class Cement Cement 16. Surface 17. Intermediate 18. Long string 19. Liner

## H-1A – Injection Well Data - 2



- Injection Interval
- Injection Volumes and Pressures
- Total Vertical Depth (TVD) vs Measured Depth (MD)
  - Injection Interval, TVD
  - Packer Depth, MD
  - Perforation Depths, MD
  - Put both on the form for all these if deviated or horizontal!

20. Tubing size	21. Tubing depth	22. Injection tubing packer depth	23. Injection interval	_ to		
24. Cement Squeeze Operations (List all)		Squeeze Interval (ft)	No. of Sacks	Top of Cement (ft)		
25. Multiple Completion?  Yes  No		26. Downhole Water Separation?  Yes  No	NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch			
27. F	Fluid Type	28. Maximum daily injection volume for each fluid type (rate in bpd or mcf/d)	29. Estimated average daily injection volume for each fluid type (rate in bpd or mcf/d)			
30. Maximum Su	rface Injection Pressure:	for Liquid psig	for Gas	psig.		

### H-1 – Certification Statement



- Sign & Date Certification Statement
  - Email address for quicker communication
  - Re-date so we can track the newest submission.

#### johnsmith@xyz-operating.com

#### 



## **ADMINISTRATIVE REVIEW**

### Admin Review at a Glance



- Fees are paid
- Form is complete
- Application includes all necessary attachments
- Data entry into tracking system

### RRC Data Match



### Check Organization Report (Form P-5):

- Check for current P-5 on file
- Check corporation franchise taxes are paid

### Check Certificate of Compliance (Form P-4):

- Verify that applicant is the operator of requested lease
- For a new lease, file Form P-4 with completion report

### Check UIC Well Inventory:

Is this application for a new or amended permit?

## **Notice of Application**



Mail or deliver a copy of the application forms W-14 or H-1/H-1A, front and back, to the following parties:

- the surface owner of record (county deed)
- adjacent surface owners of record if application is for a commercial disposal well
- operators of active wells within a ½-mile radius of the proposed injection/disposal well
- county clerk
- city clerk if well is located within corporate city limits

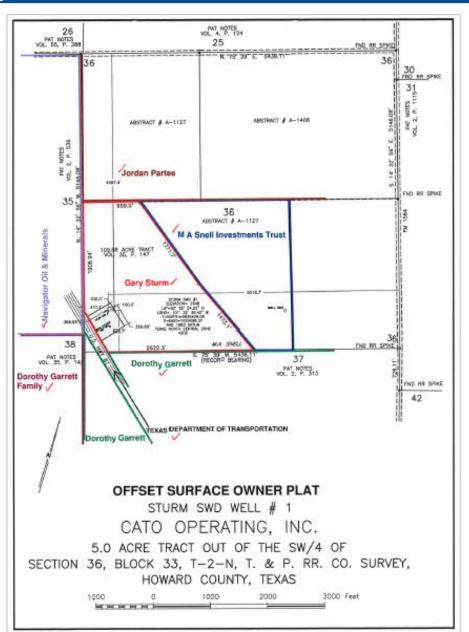
### **Notice Documents**



- Labelled map showing the location of wells within ½-mile of proposed injection/disposal well
- For a commercial disposal well, provide a plat showing the surface tract boundaries and all adjacent tract boundaries
- List the names and addresses of all affected parties
- Signed statement indicating the date that a copy of the application form(s), front and back, was mailed or delivered to everyone on the list

## Adjacent Surface Owner Plat





## **Commercial Facilities**



- Injection well is commercial if:
  - waste is partially or wholly trucked in and
  - a disposal fee or other compensation is chargedand
  - it is your primary business purpose

 Surface facility requirements: spill prevention and containment, restricted access, and additional financial security if you have pits

### **Published Notice**



- Publish notice for one day in a newspaper with general circulation in the county
- Submit newspaper clipping with notarized affidavit of publication
- Publication and affidavit format available on RRC website Injection Permitting Manual
- 15-day waiting period after notice and publication

### **Published Notice Text**



- Match the application and the notice for:
  - direction and miles to center of nearest town
  - injection/disposal interval for several wells publish the shallowest top and deepest bottom
- State that the application is for commercial disposal, H2S or NORM injection if applicable
- Legal authority for permit, Instructions to protest, RRC contact information (format available on RRC website)



## **TECHNICAL REVIEW**

## **GAU Letters & Geologic Isolation**



- RRC Groundwater Advisory Unit (GAU) issues the Groundwater Protection Determination (GW-2)
- Form H-1/H-1A: Form GW-2 stating the depth to which usable-quality water (UQW) and USDW must be protected
  - GW-1 Purpose of Filing must be H-1
- Form W-14: Submit GAU letter stating that the proposed injection will/will not endanger freshwater (UQW and USDW).

# Geologic Isolation – SWR 46 & Pre-primacy

- SWR 46 injection/disposal wells must be isolated from usable-quality water by 250 total feet of low permeability strata and adequately separated from USDW
- Pre-primacy wells without adequate separation, if permitted, will have injection fluids limited to fluids produced from the same lease and formation

## **Electric Log**



- Complete electric log with header that shows proposed zone and overlying strata
- If log is unavailable, submit a log from a nearby well (include plat showing both locations)
- If multiple wells are one Form H-1, only one well log is required if the log is representative of all wells
- Digital Well Log Submission RRC Online

## **Electric Log Annotations**



- Annotations will help confirm protection of freshwater
- Top and Bottom of Injection Interval
- Tops of formations
- Bases of freshwater (USDW and UQW)
- Isolating strata from freshwater
  - shale, clay, anhydrite

## Area of Review (AOR)



- Provide scaled map of wells within ¼-mile
- Table of wells within AOR with:
  - lease name and number
  - API and well numbers
  - total depth and date drilled
  - current status (producing, shut-in, P&A'd, etc)
  - plugged wells, include plug date and Form W-3
- Confirm that wells are on the proration schedule, have been properly plugged, or do not penetrate the injection zone

## Create AOR Map – Public GIS Viewer



Home / About Us / Resource Center / Research /

#### Public GIS Viewer (Map)

The Public GIS Viewer allows users to view oil, gas and pipeline data in a map view.

#### NOTICE:

If you experience an issue while using the survey and lease search features or the feature to identify wells in the Pubic GIS Viewer, clear your browser cache. If you are accessing the Public GIS Viewer using Internet Explorer, Google Chrome or Firefox; you can clear your browser cache by pressing Ctrl + F5. If you need further assistance, email RRC.mapping@rrc.texas.gov or call 512-463-6851.

#### Public GIS Viewer



#### Training Videos

The following training videos provide step-by-step instruction for new features of the Public GIS Viewer. The videos will open in a separate window, allowing you to toggle between the video and viewer. Note: These videos do not contain audio.

- · API# or Address Search
- Survey Search
- Locating Pipelines
- Viewing Coordinates

#### Launch Public GIS Viewer

The Public GIS Viewer contains the combined functionality of the Legacy GIS Viewer and the newer appearance of the Enhanced GIS Viewer. In addition, the viewer has been improved with the addition of the following features and is updated nightly.

#### Commissioners



Chairman Wayne Christian



Commissioner Christi Craddick



Commissioner Ryan Sillon

#### What We Do



#### **Useful Links**

#### What's New at the RRC

RRC Online Inspection Lookup

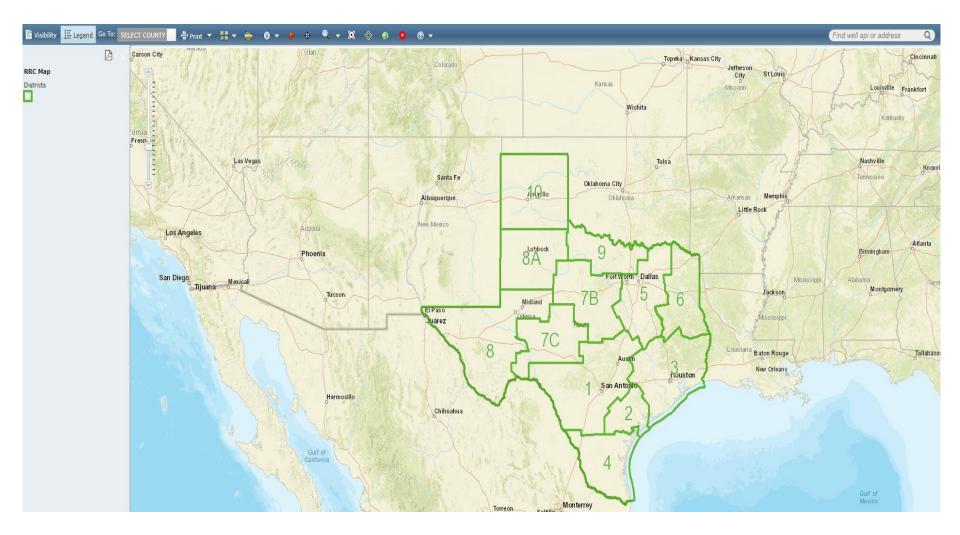
Data - Online Research Queries

Frequently Asked Questions - FAQs

Maps - Public GIS Viewer

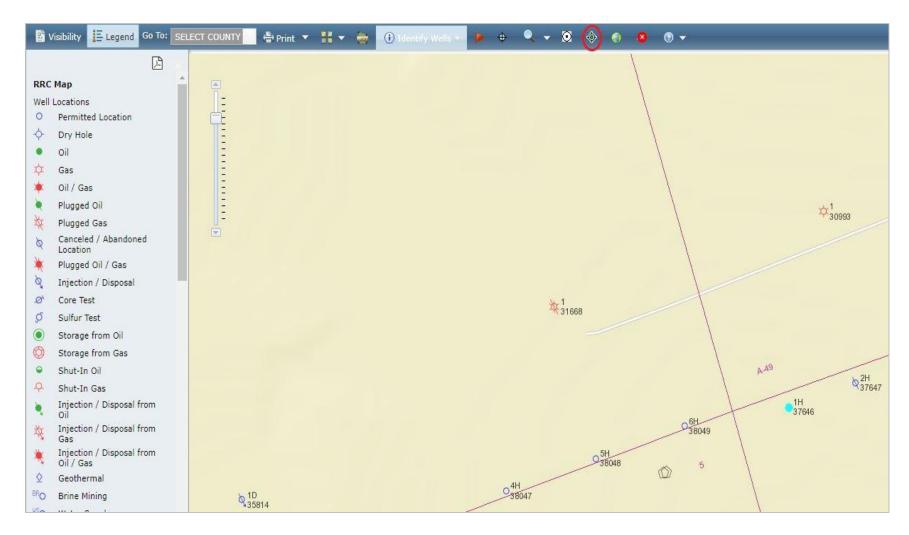
# Create AOR Map - 1





#### Create AOR Map - 2

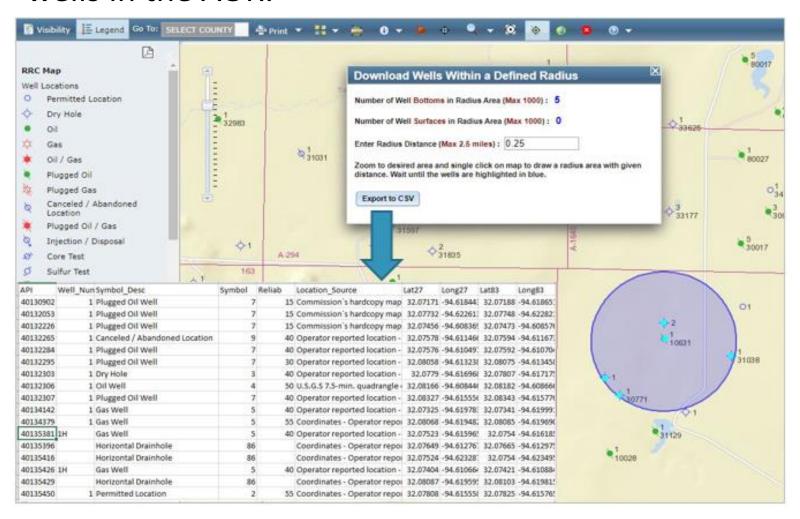




#### Create AOR Map - 3

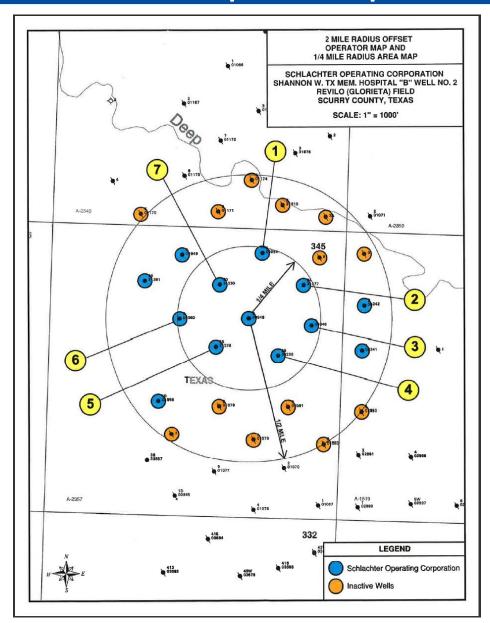


Click defined radius icon and select your well location.
 Click export to CSV for a excel spreadsheet of all the wells in the AOR.



# AOR Map Example





# **AOR Well Listing Example**



#### 1/4 MILE RADIUS WELL TABULATION SCHLACHTER OPERATING CORPORATION SHANNON W. TX MEM. HOSPITAL "B" WELL NO. 2 REVILO (GLORIETA) FIELD SCURRY COUNTY, TEXAS

MAP#	OPERATOR NAME LEASE NAME & WELL #	API#	FIELD NAME	DATE	TOTAL DEPTH	STATUS
1	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #5	415-00954	Revilo (Glorieta)	06/21/57	2878	On Schedule - Producing
2	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #34	415-31377	Revilo (Glorieta)	08/23/79	2914"	On Schedule - Producing
3	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #1	415-00946	Revilo (Glorieta)	04/13/57	2893	On Schedule - Producing
4	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #28	415-30296	Revilo (Glorieta)	04/09/74	2845	On Schedule - Producing
5	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #35	415-31376	Revilo (Glorieta)	08/29/79	2928	On Schedule - Producing
6	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #9	415-00960	Revilio (Glorieta)	07/18/57	2907	On Schedule - Producing
7	Schlachter Operating Corporation Shannon W. TX Mem. Hospital "B" #30	415-31330	Revilo (Glorieta)	04/12/79	2900'	On Schedule - Producing

Page 1

Plugging reports attached hereto for all wells which are currently plugged as shown above.

# Unknown Status or Improperly Plugged



- You may plug the well or enter the well to determine status if unknown
- Applicant may use a Pressure Front Calculation (PFC) to show USDW will not be contaminated
- PFC must be prepared by a Texas-Registered Professional Engineer

## **Surface Casing**



- Base of usable-quality water (BUQW) determined by GAU
- Commercial and new injection/disposal wells must set and cement surface casing through the BUQW
- Wells converted from production are reviewed on a case-by-case basis. If permitted, additional requirements like:
  - annual mechanical integrity (MIT) testing vs 5 years
  - weekly tubing-casing annulus monitoring (TCAM)

#### **Production Casing**



- Cement must be adequate to confine fluids to the injection zone
- 600 feet of cement above injection interval if Top Of Cement (TOC) is based on volume calculation.
- 250 feet if TOC is based on temperature survey
- 100 feet if TOC is based on cement bond log and
  - At least 80% bond
  - No indication of channeling

#### Packer Setting Depth



- Form W-14, Statewide Rule 9: set within 100 feet of the permitted zone
- H-1/H-1A Statewide Rule 46:
  - Have a minimum of 200ft of cement above packer and it must be at least 150 ft below the BUQW.
  - Should have cement behind casing and no permeable zones between the packer and the top of the injection interval to protect natural resources

#### **Injection Pressures**



- Typical maximum is ½ psi per foot of depth
- For coastal wells less than 2,000 feet, injection above Barnett Shale, and injection into Delaware formations pressure may be limited to ¼ psi per foot
- Fracture step-rate tests may justify a higher pressure or be required if formation fracture pressure is known to be low

#### **Injection Fluids**



- Injection of Hydrogen Sulfide requires "well-specific" authority (SWR 36)
  - Must go through a public hearing
  - Admin approval from the District Office H2S Coordinator if already been through public hearing

#### Injection Fluids cont.



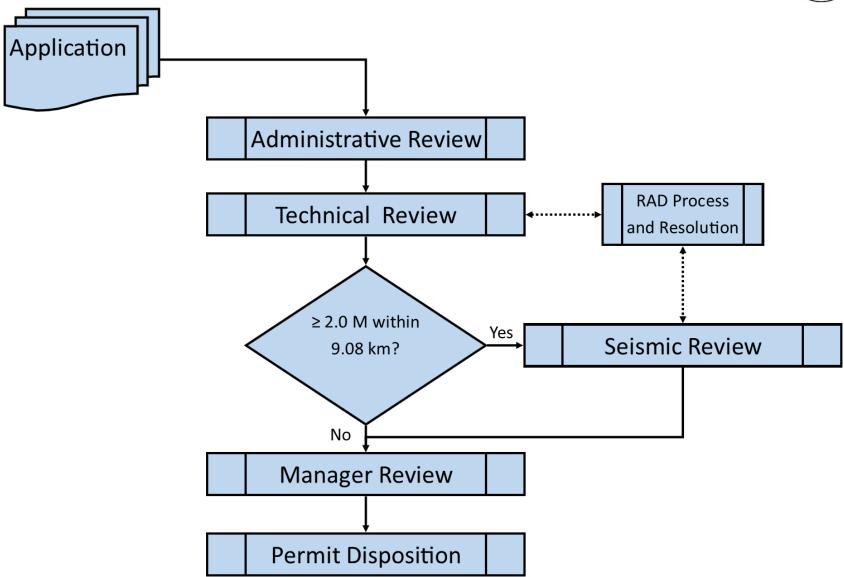
- If freshwater is to be injected, you must submit:
  - Form H-7 (unless freshwater is purchased)
  - Fresh water questionnaire
  - plat of freshwater rights
  - -chemical analysis of the fresh water



#### **SEISMICITY REVIEW**

#### **UIC High-Level Processes**





#### Seismic Activity Amendments

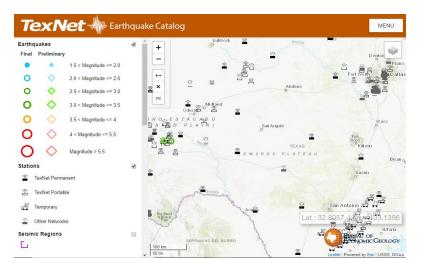


- Amendments to Rules 9 & 46 in 2014
  - RRC may modify, suspend or terminate a permit if disposal is likely to be contributing to seismic activity
  - Requires seismic information with disposal well applications
- Include a survey of seismic events from the USGS within 9.08 kilometers of the proposed well site
- USGS Earth Archive Search use following link: <a href="http://earthquake.usgs.gov/earthquakes/search/">http://earthquake.usgs.gov/earthquakes/search/</a>

## Disposal Well Seismicity Screening



- An earthquake event of 2.0 M or greater within the 9.08 km area of interest (AOI) will trigger the seismic review
- RRC Staff will consider both USGS and TexNet catalogs in assessing the seismic trigger.
- https://www.beg.utexas.edu/texnetcisr/texnet/earthquake-catalog



#### Seismic Event Survey



- USGS Earth Archive Search
- Enter the following parameters:
  - DATE & TIME: 1973-01-01 00:00:00
  - MAGNITUDE: Minimum: Enter 2
  - Advanced Options:
    - CIRCLE: Center Latitude and Center Longitude
    - CIRCLE: Outer Radius; Enter 9.08
- Include the map and the page depicting your inputs
- The map should display details about each event, including location, magnitude, and date

# USGS Search – Basic Options



#### **Basic Options**

Magnitude	Date & Time	Geographic Region	
O 2.5+	O Past 7 Days	World	
O 4.5+	O Past 30 Days	Oconterminous U.S. <sup>1</sup>	
Custom	Custom	Custom	
Minimum	Start (UTC)	Worldwide	
2	1973-01-01 00:00:00	Draw Rectangle on Map	
Maximum	End (UTC)		
	2020-01-15 23:59:59		

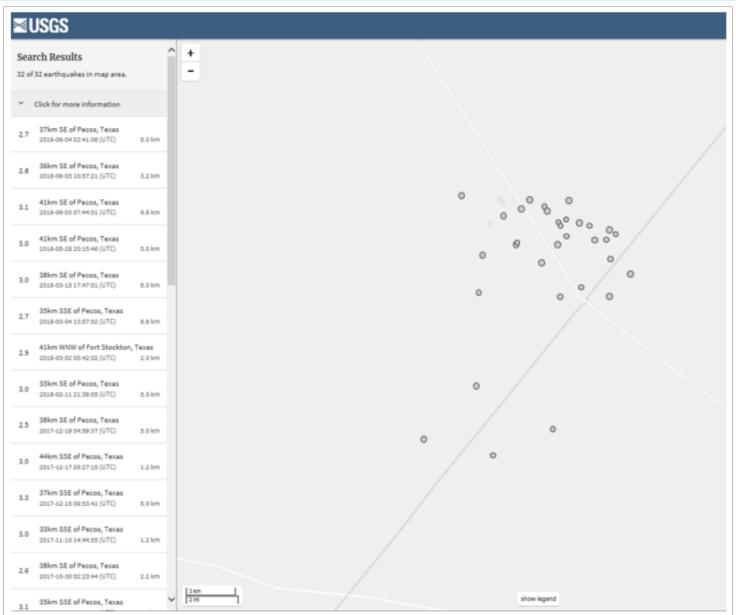
# USGS Search – Advanced Options



- Advanced Options				
Geographic Region	Depth (km)			
Decimal degree coordinates. North must be greater than South. East must be greater than West.	Minimum Maximum			
North				
West East	Azimuthal Gap			
	Minimum Maximum			
South				
	Review Status			
Circle	Any			
Center Latitude Center Longitude				
30.604599 -96.247692	O Automatic			
Outer Radius (km)	Reviewed			
9.08				

#### **USGS Search - Results**





# Supplemental Info for Seismicity



If seismicity screen is positive, supplemental information is required to assess the state of the disposal zone and adjacent strata:

- Structure map(s)
- Isopach map(s)
- Cross-sections
- Fault hazard analysis may be required.
- You may also submit other relevant information to assist with scoring

#### Seismic Review



- The purpose of the supplemental information is to enable staff to conduct the seismic review
- The seismic review is a scoring system that considers:
  - Faulting and Seismicity Factors (8)
  - Operational Factors (2)
  - Reservoir Factors (3)

#### **Permit Conditions**



- Max Daily Injection Volume limit
- Daily Records (volume, max pressure)
- Initial Static Bottom-hole Pressure Test
- Step Rate Test
- Seismologist Review and Approval with Additional Conditions as Necessary

#### Seismic Monitoring Plan



- Wells with score B & C may be authorized to inject an additional 10,000 bpd
- Operator must agree to implement seismic monitoring plan that augments the open public data network
- Operator develops and implements a seismic event response plan

#### Seismic Monitoring Plan cont.



- Include method of monitoring, type of instrumentation, reporting of data analysis, and an archive of the data in a public seismic database
- All monitoring plans will be reviewed by the Commission's State Seismologist



# PERMIT AMENDMENTS, APPLICATION DECISIONS, PROTESTS & HEARINGS

#### **Permit Amendments**



- File Form W-14 or H-1/H-1A with filing fee
- Filing requirements vary with purpose of amendment
- Some amendments (like injection interval amendments)
  will require an entire application as if it were new (for
  example, well log, groundwater letter, AOR, notice, etc.)

# Permit Amendment Guidelines



#### Statewide Rule 9

Filing Requirements	To Amend Injection Interval	To Amend Injection Pressure	To Amend Injection Volume	To Amend Fresh Water Volume	To Amend to Commercial	To Amend Injection Fluid Type (Other than H2S or NORM)	To Amend Injection Fluid Type (H2S or NORM)
Filing Fee + Surcharge: \$250 per well	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Application Form: (Form W-14)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Electric Log	Yes, unless previously filed	No	No	No	No	No	No
GAU W-14 Review Letter	Yes, unless previously filed in the last 5 years	No	No	No	No	No	No
Area of Review: Map of Wells	Yes, if current permit issued before 4/1/82 or change is uphole	No	No	No	No	No	Yes
Area of Review: Table of Wells	Yes, if current permit issued before 4/1/82 or change is uphole	No	No	No	No	No	Yes
Step-Rate Test	No	Yes, If pressure > 0.5 psi/ft.	No	No	No	No	No
Ownership Survey Map to show wells/operator within one-half mile radius	Yes	Yes	Yes	Yes	Yes	Yes	Yes 6

#### **After Permit**



- Perform a Mechanical Integrity Test (MIT, Form H-5) before injection
- File completion report (Form W-2/G-1)
  - Filing online greatly reduces processing time
  - Lease numbers for new leases are assigned after final processing/approval of completion report
- File annual Form H-10 upon due date
  - You will receive a letter indicating when H-10 is due
  - Filing online greatly reduces processing time

#### **Application vs Completion**



- The well must be constructed and operated as proposed and permitted
- Significant changes will require permit amendment, or may result in enforcement or permit cancellation
- Permit-required remedial action must be done before injection begins

#### **Permit Denied**



- If application remains incomplete after two additional submittals, it is returned
- Applications will be administratively denied if lease is under severance or seal-in. (This does not apply to permit amendment applications that return well to compliance.)
- Unsatisfactory well completion or operating proposal
  - Modify the application to allow for administrative approval, or
  - Request a hearing

#### **Protested Applications**



- Staff may not administratively issue a permit if it has a valid protest
- Protests must be filed within 15 days of the date of notice, the date of publication or the date that the application is filed with UIC department, whichever is later
- Protests received after the 15-day window will not be considered. If the application was already protested validly, it may be possible to join the hearing once docketed

#### Withdraw or Hearing



#### Options for applicant:

- Withdraw the application
- Obtain a withdrawal letter from the protestant, or
- Go to Hearing:
  - The application must be administratively complete
  - Pre-hearing and/or hearing will be held
  - Protest is dismissed and remanded to UIC for administrative processing, or the Commission rules on the application

# Team Leads



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#### Questions?



#### Thank You!

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