



Railroad Commission of Texas The Geologic Advisory Unit

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Valerie Atkins, Program Analyst

Groundwater Protection Determinations

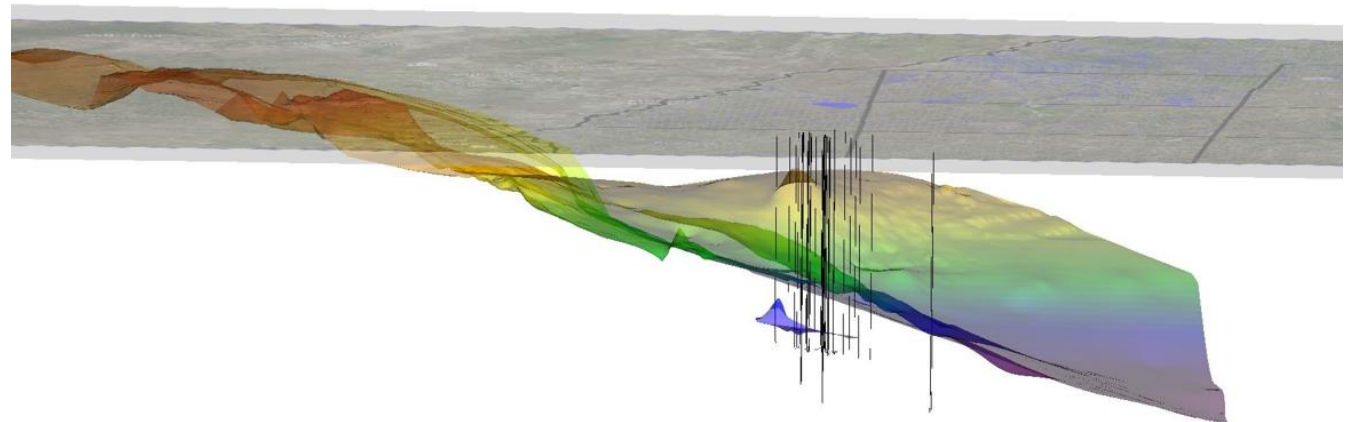
- Using On-Line Forms GW-1 & GW-2



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- Who is the GAU (Geologic Advisory Unit)
- What Groundwater Criteria Do We Protect?
- Classic GW-2 Letters
- New Format GW-2 Letters
 - Class II Injection, Disposal & No/May Harm Letters (H-1,W-14,H-15)
 - Class V & VI Geothermal, Carbon Capture and Storage (CCS)
 - Geologic Hazzard Statements
- Online filing for GW-1 letters



The GAU



- Technical Permitting Department
 - Underground Injection Control (UIC)
 - Oil and Gas activities
 - Special Injection Permits (SIP)
 - Solution Mining, CCS, Hydrogen
 - Environmental Permits and Support
 - Tanks, Pits, Haulers
 - Engineering Unit
 - Technical support and review
 - **Geologic Advisory Unit (GAU)**
 - Groundwater Advisory, Location, Mapping
 - Geologic Investigative Unit
 - Severance Tax and Administrative Unit
 - GAU joined RRC in 2011, State Agency est. 1930



Who Needs a Water Board Letter?



- Anyone in Oil & Gas: Drilling, Recompleting, Plugging, Mechanical or Sonic Testing (MIT), or Injecting in Texas
 - Most field activities under Jurisdiction of the Railroad Commission
 - GAU Issues 50 – 150 letters a day
 - \$250 regular 437.50 expedite

❖ Search by County & Abstract to

Menu

- Home
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Groundwater Application : GW-1

GAU Number Trace Number Application Status

County **ANDREWS** Lease Name Lease Number

Abstract Number **16** Block Township

League Labor Porcion

Submitted Date From To Determination Letter - Date Issued From

Click the Clear Search button to clear the search criteria and results.

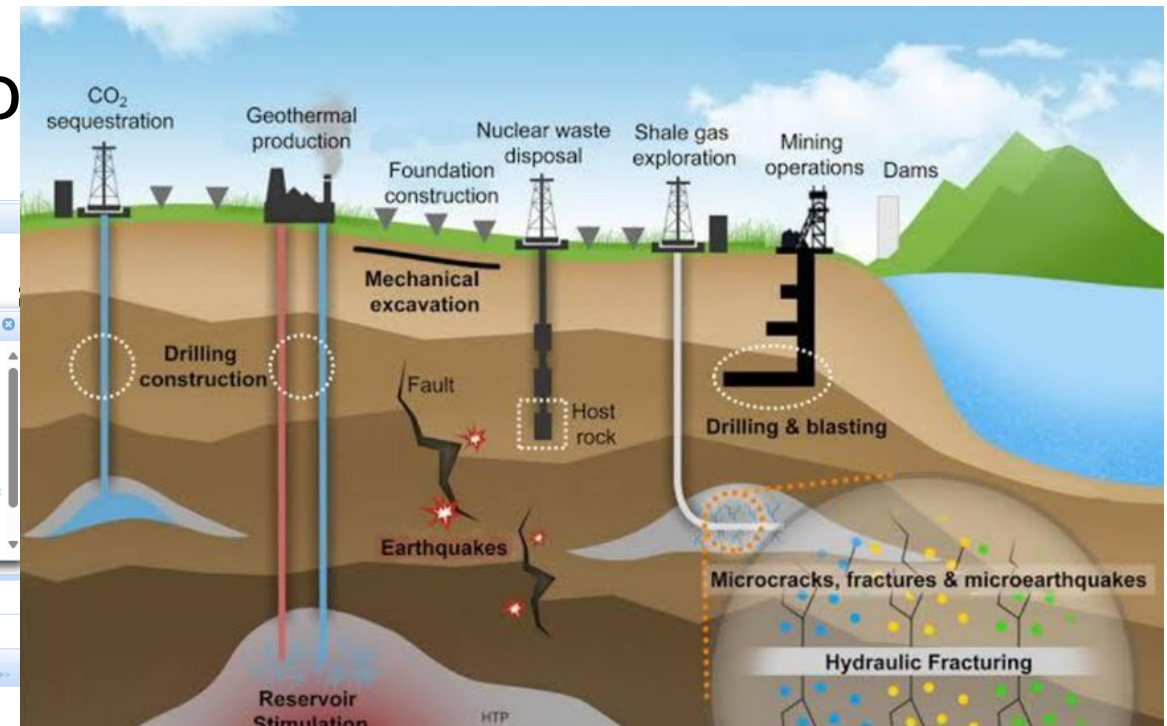
Select Status

- ☐ Admin Approved
- ☐ Admin Returned
- ☐ Draft
- ☐ Geologist Returned
- ☒ Issued
- ☐ Resubmitted to Admin
- ☐ Resubmitted to Geologist
- ☐ Submitted
- ☐ Under Admin Review

Showing 1-2 out of 2 applications

	GAU Number	Date Submitted	Application Status	Submitter Name	Operator Name	Operator ID
<input type="button" value="Actions"/>	310478	2021-07-15	Issued	Viola Vasquez	FASKEN OIL AND RANCH, LTD.	263696
<input type="button" value="Actions"/>	296533	2021-02-10	Issued	Michelle Thames	ENERGY TRANSFER COMPANY	252017

Showing 1-2 out of 2 applications



What Do We Protect ?



Surface Casing: Requires Base of Usable Quality Water (BUQW)

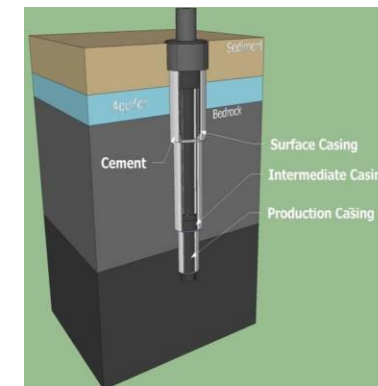
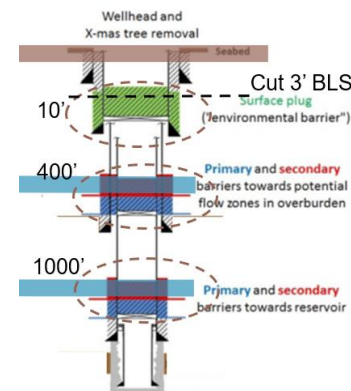
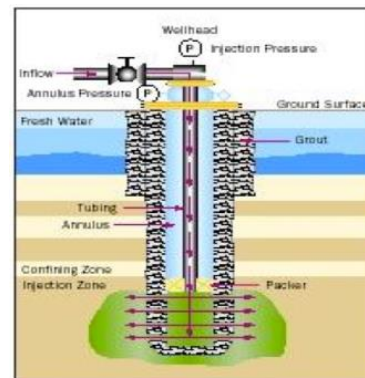
- Texas Economic Code Rule 3.30(B)(i) ...base of usable-quality water (BUQW)
 - (generally, less than 3,000 mg/L total dissolved solids, but may include higher levels of total dissolved solids if identified as currently being used or identified by the Texas Water Development Board as a source of water for desalination...

Plugging: Includes protection for BUQW, Superior Quality Water, & Fresh Water

- EPA Secondary Drinking water standards are 500 TDS
- EPA considers 1,000 TDS “Safe” for drinking, you can survive on much higher for a time
- Texas State Water Code 27.002 (8) “Fresh water”
 - Means water having bacteriological, physical, and chemical properties which make it suitable and feasible for beneficial use for any lawful purpose

Underground Injection Control: Includes protection for Underground Source of Drinking Water (USDW)

- 40 CFR Section 144.3 Underground Source of Drinking Water (USDW)
 - (a) supplies any public water system, or contains sufficient quantity of ground water to supply public water system and currently supplies drinking water for human consumption or contains fewer than 10,000 milligrams/liter of Total Dissolved Solids (TDS)



Classic Water Board Letters

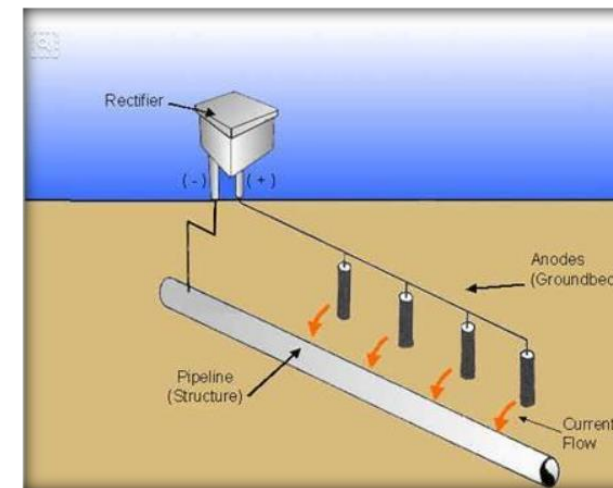
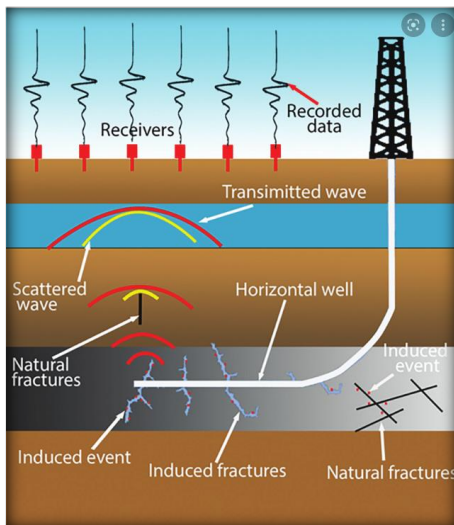
- Date Issued
 - Good for 5 years from this date
 - GAU Number (Primary Key)
- Demographics
 - Letters can be ordered by anyone
 - Valid Letters can sometimes be used by others depends on recommendation (Research it!)
- Purpose and Location
 - Some Letters can be used for several purposes depends on activity (Research it!)
 - Shallow, medium, deep
- Location
 - Letters are issued to a location
- Determination
 - **Depths to bottoms** of water bearing zones

GROUNDWATER PROTECTION DETERMINATION		Form GW-2
Groundwater Advisory Unit		
Date Issued: 03 June 2022	GAU Number: 345211	
Attention: DIAMONDBACK E&P LLC 500 W TEXAS AVE STE 1200 MIDLAND, TX 79701	API Number: County: PECOS Lease Name: Zauk State 37-39 B Lease Number: Well Number: 2WA Total Vertical: 10460 Latitude: 31.095050 Longitude: -103.169281 Datum: NAD27	
Operator No.: 217012		
Purpose: New Production Well		
Location: Survey-T&P RR CO; Abstract-964; Block-49; Township-8S; Section-37		
To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:		
(37). Water-bearing strata from the land surface to a depth of 400 feet and the Rustler, which is estimated to occur from 1000 to 1400 feet must be protected.		
This recommendation is applicable to all wells within a radius of 2000 feet of this location.		
Note: Unless stated otherwise, this recommendation is intended to apply to all wells drilled within 200 feet of the subject well. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.		
This determination is based on information provided when the application was submitted on 06/02/2022. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.		
Groundwater Advisory Unit, Oil and Gas Division		
Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas. Rev. 02/2014		

Shallow Reason for Filing



- [SWR 99] Cathodic Protection Wells (<.01% ordered)
 - Top of Second Water Zone
- [SWR 100] Seismic/Microseismic Wells (<.01% ordered)
 - Order A GW-1 if Well is >30' (SWR 99 & SWR 100)
 - GW-1 determines if you must Order A W-1 (Permit)
 - Must submit well schematic of CP/MS well with W-1
 - GW-2 for CP/MS wells cannot be used for other purposes



Medium Depth Letters



- GW-2 Letters are Medium Depth (80% GW-2's Ordered)
 - Superior Water, Usable Water
 - SWR 13: New Drills
 - Re-entry, Recompletion

(1/2 of 80%)

 - SWR 14: Plugging
 - SWR 15: H-15 (wide area discontinued)
 - SWR 13: O&G Water Supply

(1/2 of 80%)

 - SWR 13: P-13 Conversion to Water Well (<.1%)
 - Typically controversial



New Drill [Multipurpose]

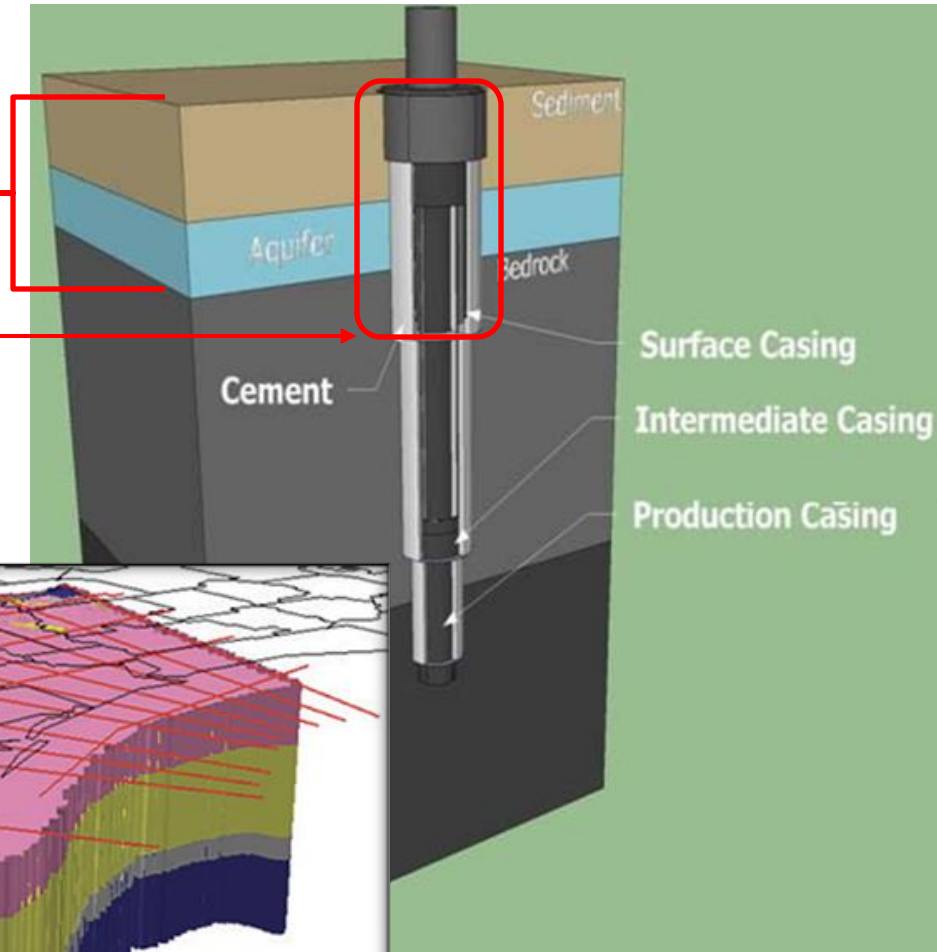
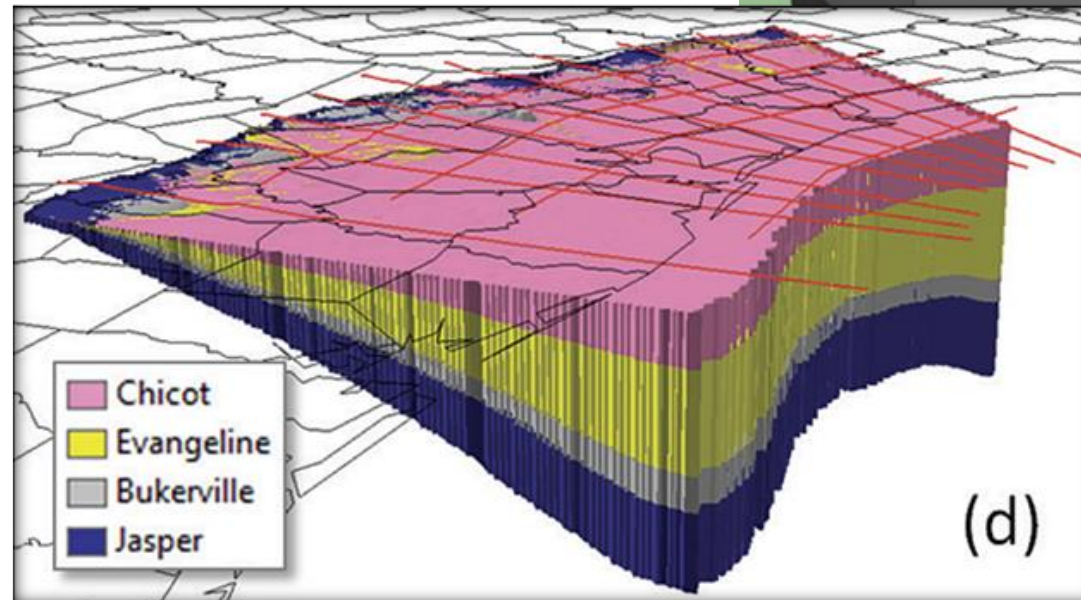


- Surface Casing and Cementing
 - SWR 13: Set and cement surface casing protect usable quality water strata (BUQW)
 - Casing shoe set at or 200' below BUQW
 - Identify all unique water bearing formations
 - ✓ Prevent underground mixing & pressure loss

Gulf Coast Example:

4 Gulf Coast Aquifers
4 Protection Depths

❖ Variable protection depths



Well Plugging [Multipurpose]

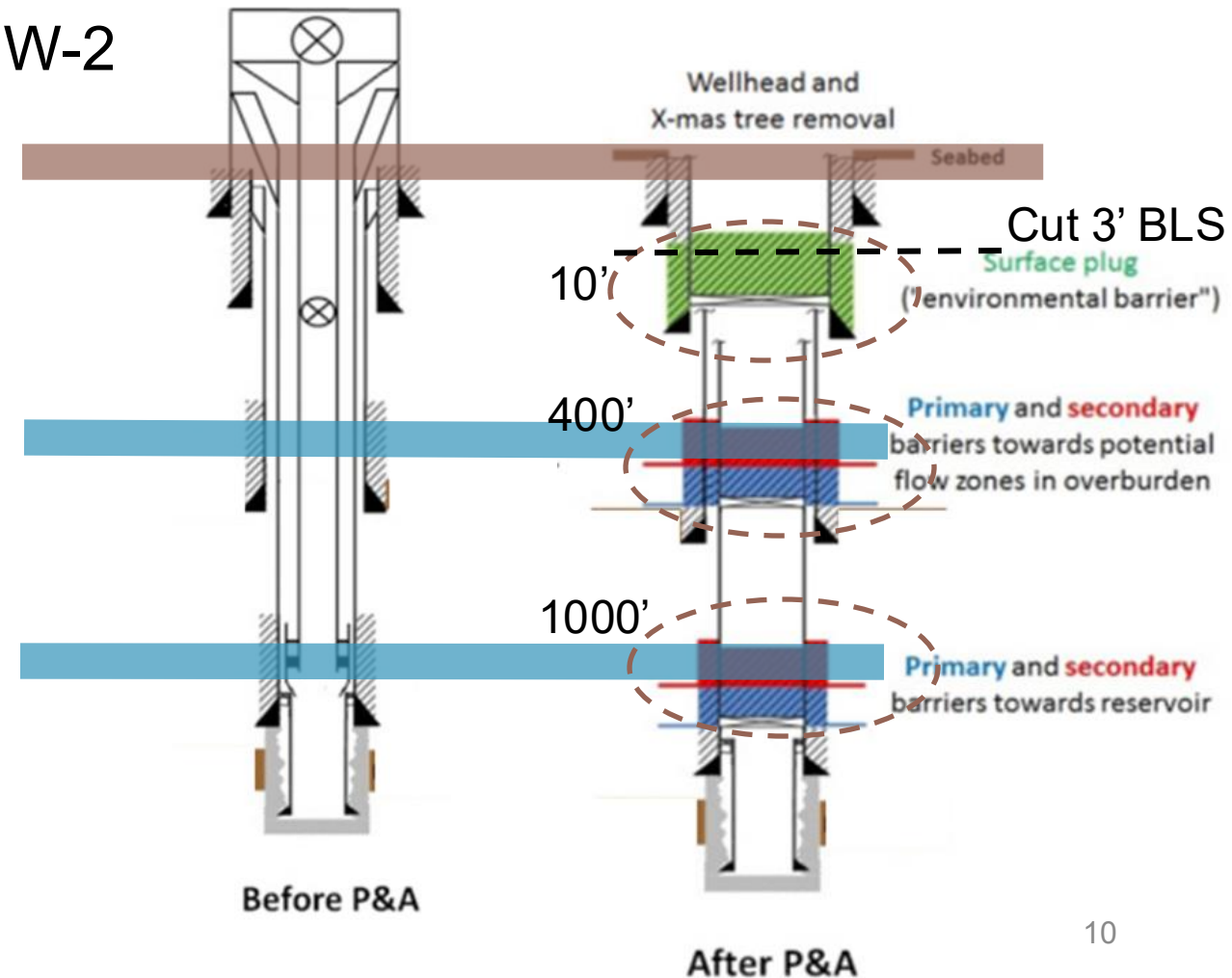
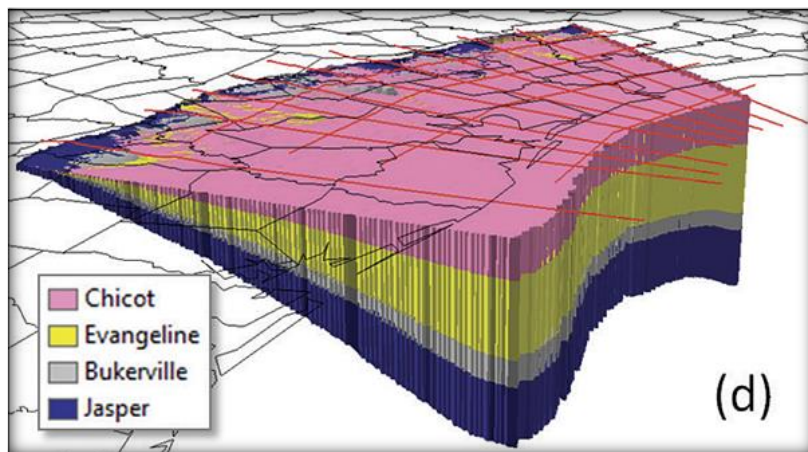


- SWR 14: Requires plugs to isolate Base of Usable Water Strata
- Separate all Usable Water Strata as determined by the GAU
 - Multiple zones may be identified on GW-2
 - 100' Plugs centered at GW-2 depths
 - Effects areal extent given

Example:

4 Gulf Coast Aquifers

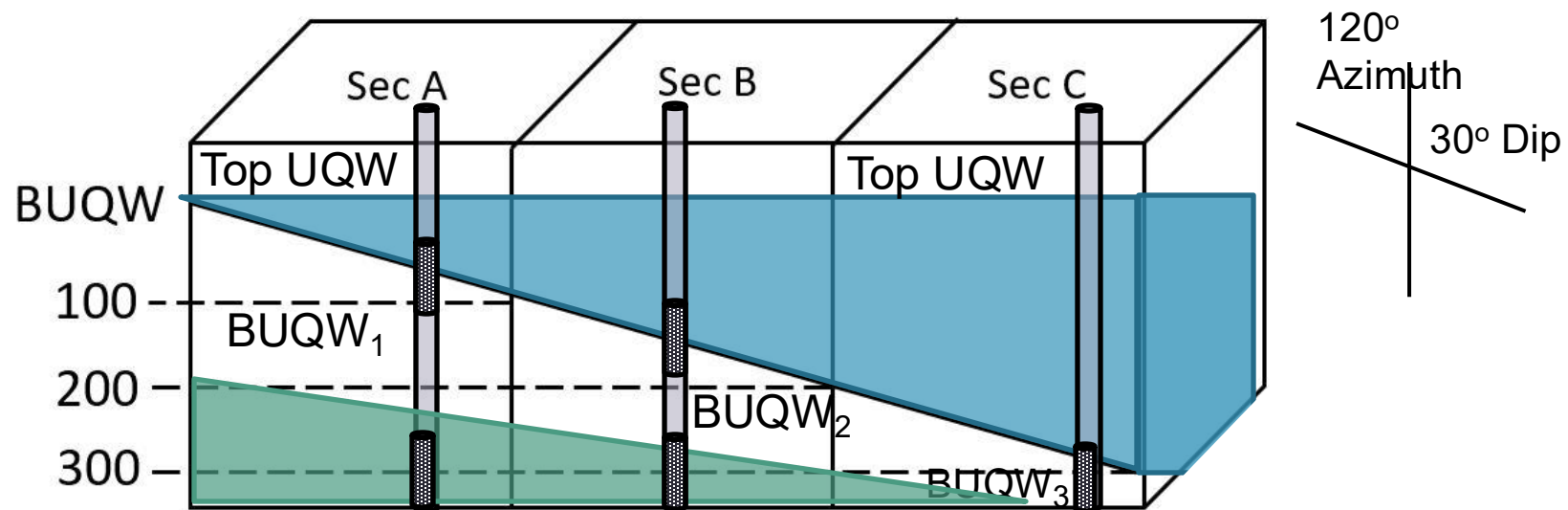
4 Protection Depths (1 to 1 relationship)



Areal Extents (asking for a lot!)



- Areal extent given depends on hydrogeology
 - Surface Elevation
 - Stratigraphic Dip
- SWR 14 requires 100' plugs centered on Protection Depths
 - The areal extent is limited to a BUQW change of 50-100 ft over the area requested



Deep Letters (UIC & CCS, 25% ordered, most complex)



- Previous Class II W-14 Determinations Included External Letters
 - e-mailed separately to Operators & UIC
 - This information is now included in GW-2's

New Purposes for CCS Available (more later)

❖ Special Injection Permits Unit (SIP)

- Class VI (CCS) Carbon Sequestration
- Form H-2 Create, Operate, Maintain a Brine
- Form H-4 Application to Create, Operate and Maintain Hydrocarbon Storage Facility
- Class V Geothermal (Auxiliary HVAC, Energy Produc

CHRISTI CRAD
WAYNE CHRIS
JIM WRIGHT, C

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Groundwater Application : GW-1

Filing Information

If Reason for Filing is 'New Production Well', data fields will be prepopulated if available from Effective 02/01/2016, an Application Fee with Surcharge totaling \$250 will be payable on initia

Reason for Filing * Choose

Areal Extent * Choose

Previous GAU No. for this well

Submission Date *

Operator Information

Are you filing for P5 Operator? ☒

Search Operator

Operator Name * Name

This recommendation letter applies to the Area of Review (AOR) mapped and attached with this application and applies to the two specific wells: Delaware CCS #1 (31.8966208, -103.6751247 NAD83) and Delaware CCS #2 (31.8844579, -103.6962547 NAD 83). If additional CCS injection wells are going to be drilled at this Facility (AOR), a new endangerment statement letter will need to be issued before permits to inject can be issued.

Injection into the subsurface intervals in TVD depth from 17,945 to 22,727 feet for Delaware CCS #1, and from 19,995 to 22,781 feet for Delaware CCS #2, as proposed in the submitted Geological Storage of CO2 Data Sheet. (Class VI) application dated on March 13th of 2025, WILL NOT ENDANGER the PROTECTED WATER STRATA geologically at the proposed well locations in this Area of Review (for UIC Purpose Only).

This letter supersedes and replaces our previous GW-2 letters with GAU# 381402 & 381431 issued on April 22, 2024.

Note: Unless stated otherwise, this recommendation is intended to apply to all wells drilled within 200 feet of the subject well. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

This determination is based on information provided when the application was submitted on 03/14/2025. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division
Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rc.texas.gov
Rev. 02/2014

Additional information is required for UIC Wells



- Must Attach to GW-1 Request
 - Form H-1/H-1A or W-14 (injection interval)
 - Representative well log required for W-14
- Base of USDW Statement Is Listed in the GW-2 (<10K TDS)
 - No injection allowed into Underground Sources of Drinking Water (USDW)*
- Class II GW-1 Includes Geologic Isolation Statements
 - **Depth to Bottom** of isolation or shallowest occurrence
- Class II, VI Include “No Endangerment” language
 - All H-1, H-2, H-4 Purposes for filing will receive USDW statements

New Class VI GW-2 Letters 2 Phase Process



- Class VI Carbon Sequestration
 - Capture of Industrial CO2
 - Permanent CO2 Storage
 - Climate Change Driven
 - 45Q Tax Credit
 - Exceeds Class II AGI Standards
- Phase I Stratigraphic Test Wells
 - Use Purpose **Test Well** for New Drills
 - Attach CSS Data Sheet
 - GW-2 Includes BUQW and USDW
 - No Isolation Statement
- Phase II SIP Review is Completed
 - **No Deficiencies**
 - Characterization
 - Injection Test
 - Operation
 - Expansion/Monitor
 - Close Out
 - **Reason for filing Class VI (CCS)**
 - No Harm Language Required
 - **Separate GAU Workstation Review Required**

Groundwater Application : GW-1

Filing Information

If Reason for Filing is 'New Production Well', data fields will be prepopulated if available from an entered API Number. Effective 02/01/2016, an Application Fee with Surcharge totaling \$250 will be payable on initial submission of this application.

Reason for Filing: Choose

Areal Extent: Choose

Previous GAU No. for this well: Choose

Submission Date: Choose

Operator Information

Are you filing for PS Operator? ☒

Search Operator

Operator Name: [Field]

Operator Number: [Field]

Address: [Field]

City: [Field]

State: [Field]

Zip Code: [Field]

Well Identification

15. Depth to base of deepest BUQW (ft): [Field]

16. Depth to base of deepest USDW (ft): [Field]

17. No harm letter from TCEQ: ☐ Yes ☐ No

18. No harm letter from GAU: ☐ Yes ☐ No

19. Inj Well Name and No. (Use Additional Wells page as needed)	20. Inj Rate (MT/Day)		21. Surf Inj Press (psig)		22. Surface Hole Loc NAD 83		23. Injection Interval TVD (ft)	
	Avg.	Max.	Avg.	Max.	Latitude	Longitude	Top	Bottom

24. Est. Storage Volume of injected CO₂ (MMT): [Field]

25. Injection Period (yrs): [Field]

CERTIFICATE

As prescribed by TAC §5.203(a)(1)(C), I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [Field]

Date: [Field]

Name of person (type or print): [Field]

Phone: [Field]

Email: [Field]

FOR RRC USE ONLY: REGISTER NO. [Field] PERMIT AMOUNTS (\$): [Field]

Rev. 03/02/07/2025 | SIP

GROUNDWATER PROTECTION DETERMINATION Form GW-2

Groundwater Advisory Unit

Date Issued: 21 March 2025 GAU Number: 390000

Attention: XXXXXXXXXXXXXXXX API Number: 1000 HOUSTON ROAD SUITE LOVING

HOUSTON, TX 77024 100800 Lease Name: DELAWARE CCS

Operator No.: Lease Number: 1

Well Number: 22726

Total Vertical: 31.896494

Latitude: -103.674659

Longitude: NAD27

Datum: NAD27

Purpose: Class VI Injection (CCS)

Location: Survey-T&P RR CO; Abstract-440; Block-54; Township-1; Section-41

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

This recommendation letter applies to the Area of Review (AOR) mapped and attached with this application and applies to the two specific wells: Delaware CCS #1 (31.896208, -103.6751247 NAD83) and Delaware CCS #2 (31.8844579, -103.6962547 NAD 83). If additional CCS injection wells are going to be drilled at this Facility (AOR), a new endangerment statement letter will need to be issued before permits to inject can be issued.

Injection into the subsurface intervals in TVD depth from 17,945 to 22,727 feet for Delaware CCS #1, and from 19,995 to 22,781 feet for Delaware CCS #2, as proposed in the submitted Geological Storage of CO₂ Data Sheet (Class VI) application dated on March 13th of 2025, WILL NOT ENDANGER the PROTECTED WATER STRATA geologically at the proposed well locations in this Area of Review (for UIC Purpose Only).

This letter supersedes and replaces our previous GW-2 letters with GAU# 381402 & 381431 issued on April 22, 2024.

Note: Unless stated otherwise, this recommendation is intended to apply to all wells drilled within 200 feet of the subject well. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

This determination is based on information provided when the application was submitted on 03/14/2025. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov

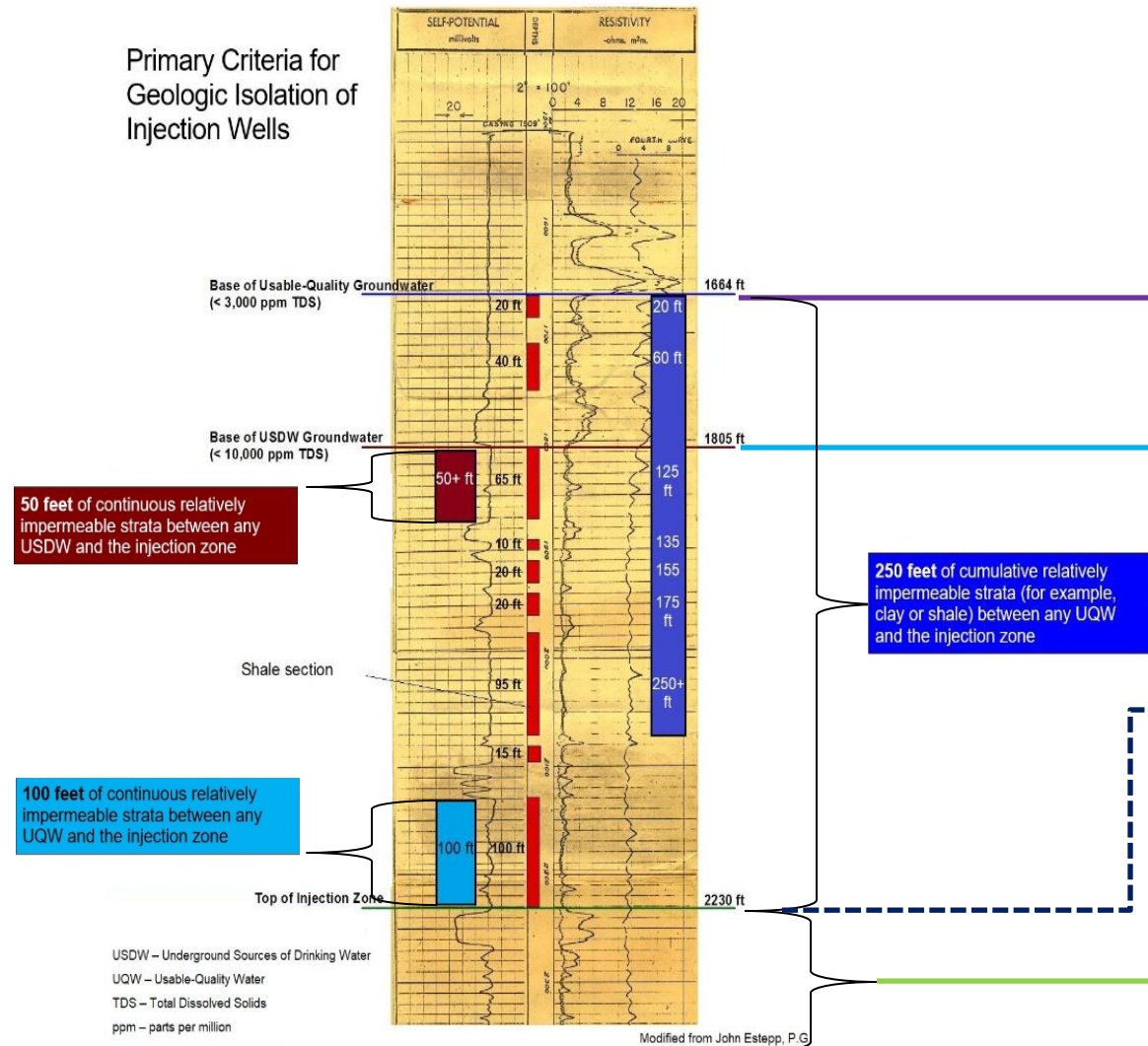
Rev. 02/2014

New Combined GW-2 Format for Injection Well & Geologic Isolation



Calling the Bottoms of Protected Groundwater and Top of Geologic Isolation

Primary Criteria for
Geologic Isolation of
Injection Wells



GROUNDWATER PROTECTION DETERMINATION		Form GW-2	
Groundwater Advisory Unit			
Date Issued:	10 March 2021	GAU Number:	296480
Attention:	STATE OF TEXAS 123 Sam View Dr. Canada, TX 12345	API Number:	12345678
Operator No.:	012345	County:	Martin
		Lease Name:	Bodacious SWD
		Lease Number:	
		Well Number:	1
		Total Vertical:	2300
		Latitude:	32.164950
		Longitude:	-101.981790
		Datum:	NAD27
Purpose:	Injection into Non-producing Zone (W14)		
Location:	Survey-T&P RRC Co. Survey; Abstract-A-0000; Block-22; Section-1		
To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:			
The Base of Usable-Quality Water-bearing (BUQW) strata is estimated to occur at a depth of 1,664 feet at the site of referenced well.			
The BASE OF UNDERGROUND SOURCES OF DRINKING WATER (USDW) is estimated to occur at a depth of 1,805 feet at the site of the referenced well. (For UIC Purpose Only)			
Geologic Isolation occurs at 2,230 feet measured depth at the site of the referenced well. (For UIC Purpose Only)			
Injection into the subsurface interval 2,235 - 4,100 feet, as listed on the W14 application dated March 10, 2021, WILL NOT ENDANGER the freshwater strata in this area. For questions, see contact information below.			
This recommendation is applicable to all wells within a radius of 200 feet of this location.			
Note: Unless stated otherwise, this recommendation is intended to apply to wells drilled within 200 feet of the subject well. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.			
This determination is based on information provided when the application was submitted on 03/10/2021. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.			
Groundwater Advisory Unit, Oil and Gas Division			
Form GW-2 Rev. 02/2014	P.O. Box 12967 Austin, Texas 78771-2967	512-463-2741	Internet address: www.rrc.texas.gov

Groundwater Advisory Unit

On-Line Login Valerie



<https://webapps.rrc.state.tx.us/security/login.do>

Log In

Log in to access the RRC Online System.

UserID:

Password:

[Forgot Password?](#) OR [Forgot User Id?](#)

The RRC Online System allows authorized entities to electronically file certain forms with the Railroad Commission online or through EDI. Forms processed through this system are ones containing data that has been migrated from the Commission's mainframe to an open system environment. Through the RRC Online System, forms can be filed online over the Internet using a web browser, or data files can be uploaded through the application.

How to Obtain a User ID:

To utilize the Online Filing system, you must have a User ID that is assigned to you by your company's designated Security Administrator. A company or individual may designate a Security Administrator by completing the Security Administrator Designation (SAD) form and mailing it to the RRC. When the SAD form is processed, the Security Administrator will receive a User ID and a temporary initial password. The Security Administrator will be able to log into the RRC Online System using their assigned User ID and create User IDs for users within their company. They will also be able to assign certain electronic filing rights for those accounts, and perform account maintenance activities (such as resetting passwords) when needed.

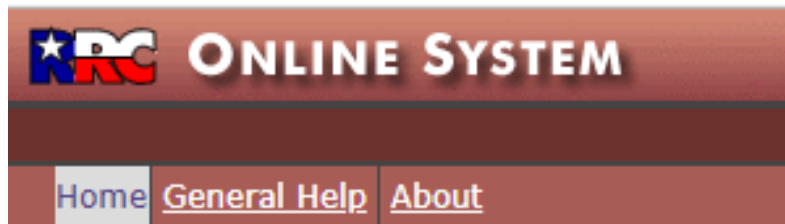
If you are uncertain whether your company has a security administrator, please email the Commission at rrconline-security@rrc.texas.gov.

1. [Read](#) the requirements for participating in online filing.
2. [Print](#) the SAD form.
3. Complete and sign the form then mail it to the RRC, following instructions on Page 2 of the form. When the form is processed, the designated security administrator will receive a User ID and temporary password by email.
4. The security administrator will log into the system and assign User IDs and filing rights.

GW-1 Administrative Filing



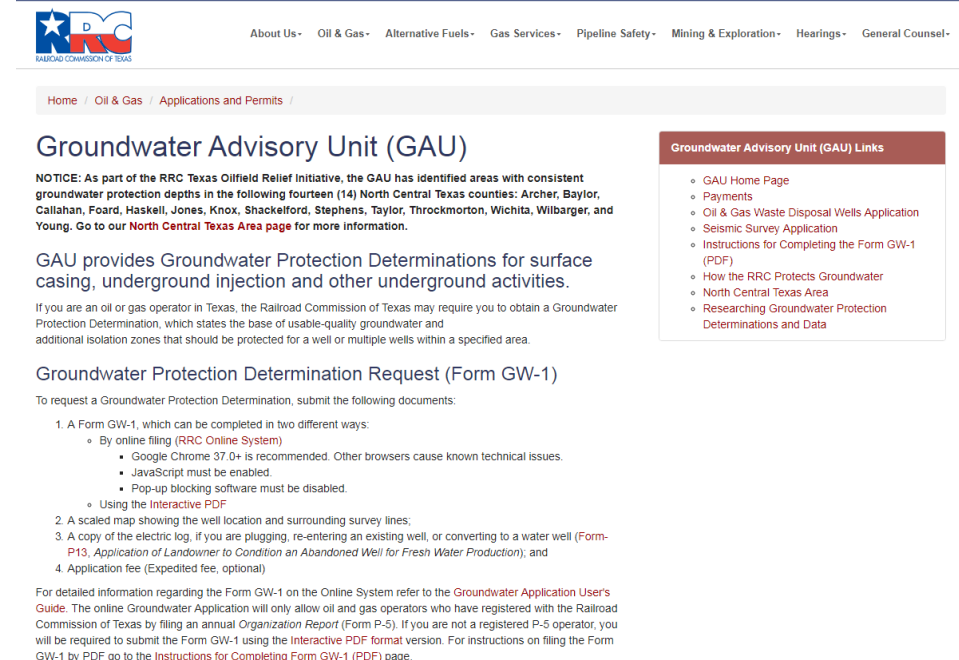
- Groundwater Determinations can be ordered two ways
 - Use the RRC On-Line System
 - Download a PDF form on the GAU Website
 - Email the completed GW-1 form to gau@rrc.texas.gov
 - Send the completed GW-1 form through regular mail



Welcome to the RRC Online System

Main Application

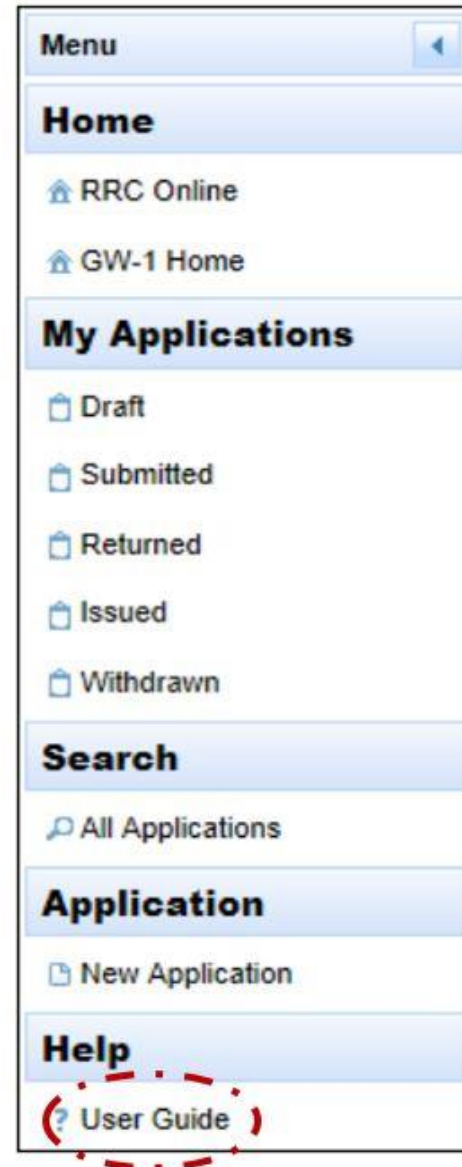
- [Account Administration](#)
- [Drilling Permits \(W-1\)](#)
- [Completions](#)
- [Groundwater \(GW-1\)](#)
- [Digital Well Log Submission](#)



Menu and User Guide



- My Applications (Status)
 - Check application status
 - “Draft” means not submitted
- Search for previous filings
- New Application
- User Guide





Reason for Filing: Areal Extent or Well Specific

- May request radius, section, abstract, lease...
- Specify wells in “Remarks” or attachment
- Show requested area on map (lease, survey, etc.)

Groundwater Application : GW-1

Filing Information

If Reason for Filing is 'New Production Well', data fields will be prepopulated if available from an entered API Number/DP Number. Data will not be prepopulated for a New Injection Well. Effective 02/01/2016, an Application Fee with Surcharge totaling \$250 will be payable on initial submission of this application.

Reason for Filing*

Areal Extent*

Previous GAU No. for this well

Submission Date*

Operator Information

Are you filing for P5 Operator? ☒

Operator Name*

Operator Number*

API Number 42-

Radius Distance

Rig On Location ☐

Regular Register NO.

GW-1 Online Application 1 of 7



- Main menu
- Check the status of your applications
- Start a new application
- Search applications

Groundwater Application

Not secure | uat.rrc.state.tx.us/gw1/

Groundwater Advisor... ST-1 / Area Designati... oilandgascontacts.pdf Oracle PeopleSoft Sig... RRC Inside The Texas General La... Texas RRC - Hearings RULES RRC Surface Casing E... CASES Online ST-1 Assignm... Texas.gov Digital Iden...

Railroad Commission of Texas

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Groundwater Application : GW-1

Application Count :0

My Applications

Showing 0-0 out of 0 applications

GAU Number	Date Submitted	Application Status	Submitter Name	Operator Name	County	Lease Name	Well Number
		All					


No results found for search.

Showing 0-0 out of 0 applications

GW-1 Online Application 2 of 7



- Click “NEW APPLICATION”
- Fill out the boxes with the red *

 Railroad Commission of Texas User: Matthew Acock Log Out

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Groundwater Application : GW-1

Filing Information

If Reason for Filing is 'New Production Well', data fields will be prepopulated if available from an entered API Number/DP Number. Data will not be prepopulated for any other Reason for Filing. Effective 02/01/2016, an Application Fee with Surcharge totaling \$250 will be payable on initial submission of this application.

Reason for Filing* Choose API Number 42- 000-00000 DP Number Number

Areal Extent* Choose Radius Distance Expedite ☐ Expedite Fee with Surcharge is \$187.50

Previous GAU No. for this well

Operator Information

Search Operator

Operator Name* Name Operator Number* Number

Address1* Address2

City* State*

Zip Code*

Well Identification

County* District

Lease ID Number Lease Name* Name

Well Number Alternate Well ID

GPS Coordinates


Select the format and datum for the well surface location
State Plane X- and Y-Coordinates cannot be entered with a decimal point. If needed, either round or truncate and enter as a whole number.

Disclaimer | RRC Online | RRC Home | Release : 2.2.5 | Contact

GW-1 Online Application 3 of 7



- Here is where you will enter the coordinates and survey information

 **Railroad Commission of Texas** User: Matthew Acock [Log Out](#)

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 - Withdrawn
- Search**
 - All Applications
 - Application**
 - New Application
 - Help**
 - User Guide

Groundwater Application : GW-1

Well Number Alternate Well ID

GPS Coordinates

Select the format and datum for the well surface location
State Plane X- and Y-Coordinates cannot be entered with a decimal point. If needed, either round or truncate and enter as a whole number.

Format* NAD*

Latitude
Degrees

Longitude

Survey Information

Survey* Abstract Number

Block Township Section

Tract Lot

League Labor

Porcion Share

Reference Lines

The distance (in feet) is measured from the surface hole location of the well and intersects the survey line at right angles. The direction is determined based on the direction from the surface hole location of the well to the survey line.

Reference Line*

First Distance* First Direction*

Second Distance* Second Direction*

Upload Files

IMPORTANT: Click Upload to upload the selected attachments

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- This is the Section where you will need to upload the required attachments.
- No Special Characters (!@#\$%^&*) or Spaces

The screenshot shows the "Groundwater Application : GW-1" form. The top navigation bar includes the Railroad Commission of Texas logo, the text "Railroad Commission of Texas", and the user information "User: Matthew Acock Log Out". A left-hand menu contains links for Home, RRC Online, GW-1 Home, My Applications, Draft, Submitted, Returned, Issued, Withdrawn, Search, All Applications, Application, New Application, Help, and User Guide. The main content area is titled "Groundwater Application : GW-1" and includes a "Reference Line" section with a dropdown menu set to "Choose", and input fields for "First Distance", "First Direction", "Second Distance", and "Second Direction". Below this is an "Upload Files" section with the instruction "IMPORTANT: Click Upload to upload the selected attachments". It features a "Choose File Type" dropdown set to "Map", a "Choose" button, an "Upload" button, and a "Cancel" button. A table with columns "File Name", "File Size", "File Type", and "Upload status" is shown, with the message "No results found for search." and a pagination bar indicating "(1 of 1)" and "10" items. The "Additional Information" section contains input fields for "Total Vertical Depth", "Elevation", "Formation at Total Vertical Depth", and a "Remarks" text area with a "250 characters remaining" indicator. At the bottom, there are "Save" and "Next" buttons, with a red arrow pointing to the "Next" button. The footer includes a "Disclaimer | RRC Online | RRC Home | Release : 2.2.5 | Contact" link.

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- “Next” at bottom of page accepts the terms and proceeds to payment.
 - Missing data is highlighted in red and pink
 - If system will not let you continue to next page and you do not have any highlighted errors, your application has probably “timed out” in the background

Upload Files

IMPORTANT: Click Upload to upload the selected attachments

Choose File Type* Map

+ Choose Upload Cancel

File Name	File Size	File Type	Upload status
No results found for search.			
(1 of 1) << < > >> 10			

Additional Information

Total Vertical Depth* Elevation*

Formation at Total Vertical Depth Remarks

250 characters remaining.

Save Next

GW-1 Online Application 6 of 7



- **Certification statement: Select to “Accept”, then the “Payment” button to proceed to payment.**
- **The Payment screen is on the Comptroller web site**

The screenshot shows the "Groundwater Application : GW-1" interface. On the left is a "Menu" sidebar with options: Home, RRC Online, GW-1 Home, My Applications (with sub-options: Draft, Submitted, Returned, Issued, Withdrawn), Search (with sub-options: All Applications, Application, New Application), and Help (with sub-option: User Guide). The main content area is titled "Complete the Application Submission Process" and includes a "View Application" button. It contains three steps: Step 1 (read statement and click Accept), Step 2 (click Payment to pay fees), and Step 3 (select RETURN after payment). Below the steps is a declaration box with the text: "I declare under penalties prescribed in Texas Natural Resources Code Section 91.143, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge." At the bottom of the declaration box are three buttons: "Accept", "Payment", and "Cancel". A red arrow points to the "Accept" button. The top of the page shows the "Railroad Commission of Texas" header and the user "Matthew". The footer contains a disclaimer and links: "Disclaimer | RRC Online | RRC Home | Release : 2.2.5 | Contact".

Payment



- “Print Confirmation” here (It’s now or never!)
- Push “Return” to go back and finalize submitting the GW-1. Otherwise, the GW-1 remains in “**Draft**” status (**not submitted**)



Railroad Commission of Texas

Payment Portal:

Select QuantityContact InformationVerify InformationPay FeeConfirmation

GAU No: 340120

Name	HEATHER HESSKEW
Company Name	RRC OPERATING
Phone Number	(512) 463-3184
Email	Heather.hesskew@rrc.texas.gov

Fee Description	Amount	Quantity	Total
GAU - Surface Casing	\$ 250.00	1	\$ 250.00
RRC Fee			\$ 250.00
Texas.gov Price			\$ 255.88

Payment Information	
Payment Amount	\$255.88
Date and Time	05/03/2022 11:02:11 AM
Trace Number	455RM007JJ0428X
Authorization Code	TEST123
Register Number	351900

Use the Print Confirmation button below to create a printable receipt and confirm your payment.

Print Confirmation

Return

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Correct Zip Code Needed



Important News

Texas.gov Payment Services recently implemented security changes to enhance credit card validation for payments to help ensure the person making the payment is an authorized user for the credit card.

The security enhancements are in the Credit/Debit Card payment page. If the zip code entered in the address section and the credit card security code do not match the information on file with the credit card company, the payment will fail.

Please contact your credit card company to verify this information if your payment fails.

- Correct Zip Code Needed for All Credit Card and Debit Payments
 - Zip Code must match the Bank filed address for Card
 - This is the screen where it says “CUSTOMER ADDRESS”

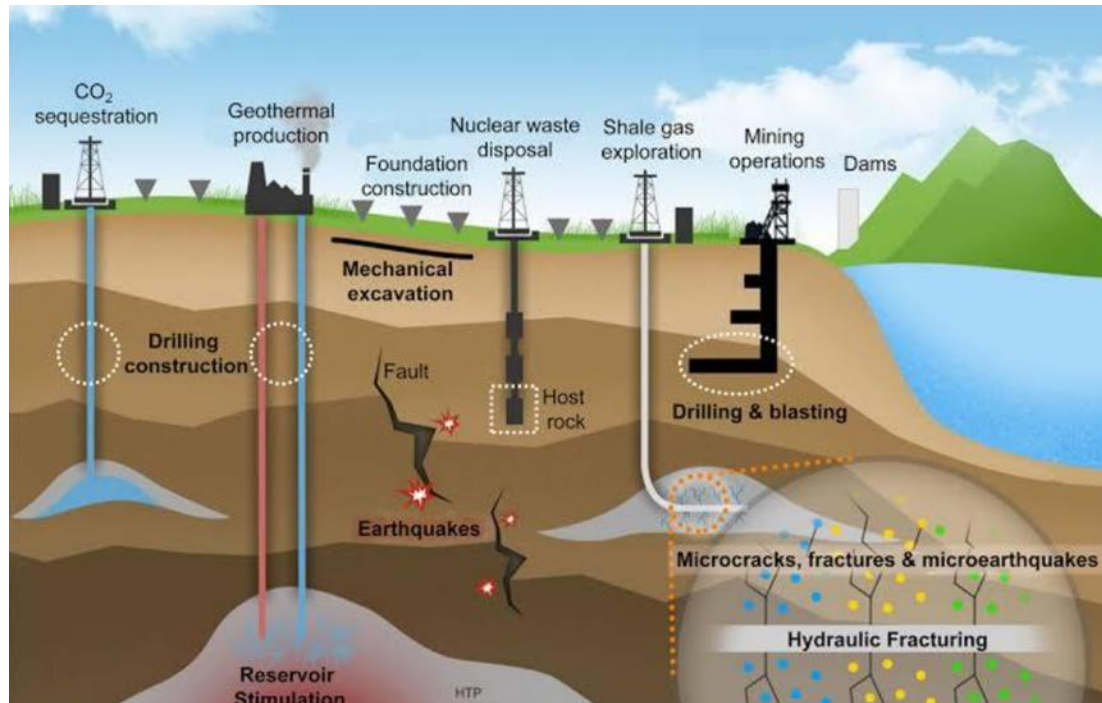
GW-1 Online Application 7 of 7



- After finding your paid for application in your draft queue, hit the **ACTIONS** button and select **edit and submit**.
- This takes you back into your application and then go down to the bottom and hit **NEXT**. This takes you to the submittal screen that will now take your application to the online system to start the approval processing.

The screenshot shows the "Groundwater Application : GW-1" submittal screen. On the left is a navigation menu with options: Home, RRC Online, GW-1 Home, My Applications (with sub-options: Draft, Submitted, Returned, Issued, Withdrawn), Search, All Applications, Application (with sub-options: New Application), and Help (with sub-option: User Guide). The main content area has a "View Application" button at the top. Below it is a text box containing a declaration: "I declare under penalties prescribed in Texas Natural Resources Code Section 91.143, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge." At the bottom of the text box are the buttons "Accept", "Submit", and "Cancel".

Questions ?



Questions?