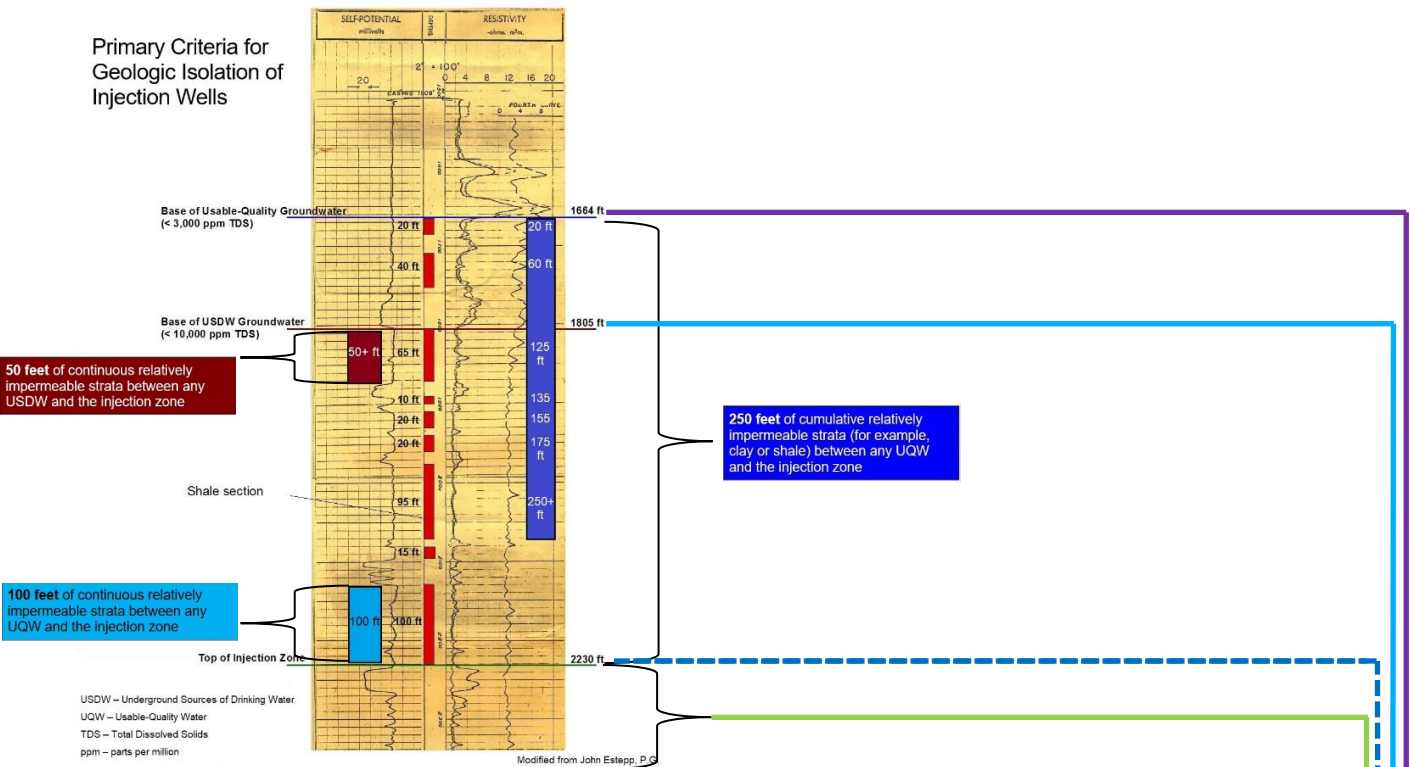


# New Combined Format of Injection Well Geologic Isolation

## Primary Criteria for Geologic Isolation of Injection Wells



Endangerment language regarding proposed injection zone risk to protected groundwater given geologic isolation and mineralogy:

- Will Not Endanger** – Suitable for Injection
- Will Endanger** – Not Suitable for Injection
- May Endanger** – Inconclusive, more evidence is needed, do not inject
- Is Endangering** – Currently in violation of EPA requirements

| GROUNDWATER PROTECTION DETERMINATION   |   | Form GW-2              |               |
|--|---|------------------------|---------------|
| Groundwater Advisory Unit  |   |                        |               |
| <b>Date Issued:</b>  | 10 March 2021   | <b>GAU Number:</b>     | 296480        |
| <b>Attention:</b>  | STATE OF TEXAS<br>123 Sam View Dr.<br>Canada, TX 12345          | <b>API Number:</b>     | 12345678      |
| <b>Operator No.:</b>   | 012345  | <b>County:</b>         | Martin        |
|  |   | <b>Lease Name:</b>     | Bodacious SWD |
|  |   | <b>Lease Number:</b>   |               |
|  |   | <b>Well Number:</b>    | 1             |
|  |   | <b>Total Vertical:</b> | 2300          |
|  |   | <b>Latitude:</b>       | 32.164950     |
|  |   | <b>Longitude:</b>      | -101.981790   |
|  |   | <b>Datum:</b>          | NAD27         |
| <b>Purpose:</b>  | Injection into Non-producing Zone (W14)                         |                        |               |
| <b>Location:</b>   | 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 Purposes Only)  |   |                        |               |
| Geologic Isolation occurs at 2,230 feet measured depth at the site of the referenced well. (For UIC Purposes 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* (For UIC Purposes Only)   |   |                        |               |
| 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 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov Rev. 02/2014  |   |                        |               |