



-Injection well monitoring Forms H-10 are handled by H-10 staff at the Injection / Storage Permits Unit, (otherwise known as the UIC Department).

-There is a general H-10 email address that can be used for all H-10 and H-10H questions:

H10info@rrc.texas.gov

-Note: The Form H-10H is only used for Brine Mining wells and Storage Caverns. These forms are mailed to the operators and can not be filed online. The Form H-10H is NOT discussed in this presentation.

This presentation covers:



- Who must file Form H-10?
- H-10 notification, H-10 cycle and due date.
- Inactive UIC well problems.
- Injection pressure reporting.
- TCAM annulus monitoring.
- Injection interval / packer depth.
- Rejections.
- Permit violations and second year permit violations.
- Enforcement / severance query.
- UIC well transfers.
- H-10 query.

2

Statewide Rule:

The operator shall monitor injection pressure and rate of each injection well on at least a monthly basis, or more frequently for disposal wells. The results of the monitoring shall be reported annually to the commission on the prescribed form. All monitoring records shall be retained by the operator for at least five years. The operator shall report to the appropriate District Office within 24 hours any significant pressure changes or other monitoring data indicating the presence of leaks in the well.

Who must file a Form H-10?



File Form H-10 if:

- well on proration schedule as injection or disposal well.
- permit for injection or disposal – well not drilled or completed.

Notes:

1. producer well on schedule, file Form W-10/ G-10.
2. gas storage wells in depleted reservoirs (SWR 96) Form H-10.

4

-As soon as an operator receives an authorized permit for an injection well, annual H-10 filing must be started the following due date, even if the well was not drilled.

-The H-10 due date is depending on the injection field.

-The due date of the Form H-10 can be found online in the [Filing Cycles by Field](#) menu of the H-10 Query using the following link:

<http://webapps.rrc.state.tx.us/H10/h10PublicMain.do>

H-10 notification



- A courtesy letter is mailed to the operator 3.5 months before the H-10 due date.
- The H-10 is also posted online at this time.

Example:

Cycle year starts 06/2019 and ends 05/2020.

Due date of the Form H-10 is 07/01/2020.

Notification was mailed to operator 03/20/2020.

5

-The operator is responsible for annual filing of the Form H-10 even if a letter was not received.

-There is a variety of reasons that can stop the letters from going out. Therefore, operators should have an internal H-10 tracking system.

Example: The operator has not filed a completion W2/G1 to convert a production well to injection. They reported volumes on the initial H-10. The system is confused whether this is a producer or injector and will end the H-10 mail date. The notification will no longer go out and the H-10 will not be created online. The operator must contact the H-10 Department to create the H-10 and file the completion report asap.



Two ways to find the H-10 cycle year / due date:

- 1) RRC online account - H-10 main menu.
- 2) RRC public website (rrc.texas.gov) H-10 Query.

This works as follows...

-The RRC has made great efforts to scan in the injection / disposal permit application packets. They are posted in the NeuDocs Query online. However, some have not been scanned in.

-The brine mining / storage cavern permit packets have not been scanned in but will be in the near future.

H-10 cycle / due date – 2 of 6



COVID-19 Agency News

With the Governor's disaster declaration and Executive Order related to the novel coronavirus (COVID-19) and his direction to state agencies to provide flexible work and telework policies to employees, the RRC will maintain limited skeleton crews at the William B. Travis building (WBT) and district/regional offices, with other employees telecommuting. This is in effect Tuesday, March 17 until further notice.

Important Note for In-person Filings

In an effort to ensure the safety of the public and Railroad Commission staff during the COVID-19 concerns, the RRC is not accepting in-person filings at this time. You may submit filings via U.S. Postal Service, FedEx or United Parcel Service.

Resources & Additional Info Notices to Operators Hearings, Emergency Responses Order

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 Texas.

Learn More

What We Do

Texas RRC | Texas' Oldest State Regulatory Agency

LEADING TEXAS ENERGY
OIL & GAS • OIL & PIPELINES

Commissioners

- Chairman Wynne Christian
- Commissioner Christi Craddock
- Commissioner Ryan Sitton

Useful Links

- What's New at the RRC
- RRC CASES
- Drilling Permits Data Visualization
- Wells Spudded Data Visualization
- Oil & Gas Production Data Visualization
- State Managed Well Data Visualization
- RRC Online Inspection Lookup
- Data - Online Research Queries
- Frequently Asked Questions - FAQs

7

-Using the RRC website, you can find a variety of information in the Data – Online Research Queries.

-Operators need an RRC Online Account to file Forms H-10 electronically.

-The link below will take you to the RRC Public Website.

Click on “RRC Online Log in” to obtain / submit the SAD form to request an online account.

<https://rrc.texas.gov/>

H-10 cycle / due date – 3 of 6



Launch the H-10 Query application.

Oil & Gas			
Type of Query			
Brownfield & Voluntary Cleanup Program Imaged Records	Learn More	Launch application	Annually
Completions Query		Launch application	Updated Nightly
Drilling Permit (W-1) Query		Launch application	Updated Nightly
Electronic Document Management System EDMS has a new look! Click "Learn more" for information.	Learn more	Launch application	Updated Nightly
Field Rules Query		Launch application	Updated Nightly
H-9 Certificate of Compliance Statewide Rule 36		Launch application	Updated Nightly
H-10 Annual Disposal/Injection Well Monitoring Report Query	Learn more	Launch application	Updated Nightly

8

The H-10 Query, click Launch application to enter.



ARC ONLINE SYSTEM

H10 Filing System

H10 Main

H10 Filing

[Print H10: Current/Delinquent H10 Forms by Operator](#)

H10 Report Query Menu

- [Injection Volume Query](#)
- [Fluid Type Query](#)
- [Filing Cycles by Field](#)
- [Search for UIC](#)
- [Search for Violations](#)
- [Search for H10](#)

Click Filing Cycles by Field to find out the cycle year and due date of the H-10.

Wells in the same field have the same H10 due date.

H-10 cycle / due date – 5 of 6



Find / enter field #, click search.
Highlight result, click add, click submit.

Search Filing Cycles by Field

Search by Field Number
Search for Field Number: 72379550 Search OR

Search by Field Name
Search for Field Name: Beginning with these characters Containing these characters Matching these characters Exactly Search

Add the fields to the selection box.

Search Results	Field Selection Set
PORT ACRES (MARG-FRIO CONS.) - 72379550 03	PORT ACRES (MARG-FRIO CONS.) - 72379550 03

Add Remove Submit Reset

10

If you do not have the field number, you can search by field name. Once the field name is in the left search result box, click ADD and the field name will duplicate in the Field Selection Set box on the right. Then click SUBMIT.



BEC ONLINE SYSTEM
H10 Filing System
[H10 Public Main](#) [Public Query Help](#)

Search Filing Cycles by Field
[Filing Cycles Query](#) [List](#)

Field Name	Filing Cycle	Due Date
PORT ACRES (MARG-FRIO CONS.)	01/2018 - 12/2018	02/01/2019

[Disclaimer](#) | [BEC Online Home](#) | [BEC Home](#) | [Contact](#)

It is important to know the H-10 cycle to avoid inactive wells. To keep a well active, operators must inject in the well during the H-10 cycle and injection volumes must be reported.

Inactive UIC well problems



- No injection reported in last H-10 cycle: inactive.
- Inactive well problems may be caused by H-10 problems.
- Injection well on proration schedule as producer.
- Bridging problems with proration schedule.
- W2/G1 may be needed (enter remark page 5 - stating injection start date).
- If well should be active but is on inactive list, contact H-10 dept.

12

There could be a variety of issues to make a well “inactive”.

If you filed volumes on your last H-10, the status of the well should be active.

System errors could interfere with the status.

Call the H-10 department for assistance with inactive injection/disposal wells.

Injection pressure reporting – 1 of 5



- Report correct injection pressure taken at wellhead.
- Calculate average and max pressure by month.
- NOT the permitted max pressure.
- Report annually in item 13 on Form H-10.
- Both liquid & gas to report, combine.
- By rule, all monitoring records shall be retained by operators for at least five years.

13

-If you injected during the cycle year, start by entering your injection pressure amounts in item 13. You will calculate the average injection pressure amounts by month and enter them in the left column.

-Now you will find the highest pressure amount for each month and enter that amount in the right column. Remember that the Max PSIG required here is NOT the permitted maximum amount from the permit.

-The H-10 does not have space for separate liquid and gas pressure reporting. For calculations, combine liquid and gas pressure amounts.

Injection pressure reporting – 2 of 2



12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLS	MCF
01/2006	700	700	1173	0
02/2006	700	700	1993	0
03/2006	700	700	4139	0
04/2006	700	700	3738	0
05/2006	700	700	2433	0
06/2006	700	700	3152	0
07/2006	700	700	3884	0
08/2006	700	700	4631	0
09/2006	700	700	2671	0
10/2006	700	700	3137	0
11/2006	700	700	2451	0
12/2006	700	700	1311	0

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLS	MCF
01/2007	700	700	1189	0
02/2007	700	700	1987	0
03/2007	700	700	3998	0
04/2007	700	700	3740	0
05/2007	700	700	2592	0
06/2007	700	700	3160	0
07/2007	700	700	3871	0
08/2007	700	700	4398	0
09/2007	700	700	3254	0
10/2007	700	700	1680	0
11/2007	700	700	4319	0
12/2007	700	700	4721	0

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLS	MCF
01/2008	700	700	4262	
02/2008	700	700	3473	
03/2008	700	700	3661	
04/2008	700	700	2961	
05/2008	700	700	3311	
06/2008	700	700	2984	
07/2008	700	700	4384	
08/2008	700	700	3312	
09/2008	700	700	3114	
10/2008	700	700	3116	
11/2008	700	700	3458	
12/2008	700	700	3182	

Let's look at an actual reported injection pressure problem, item 13 on the form H-10:

First you see the years 2006, 2007, 2008. Watch the 2 columns in item 13.

Injection pressure reporting – 3 of 3



12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLS	MCF
01/2009	700	700	2116	
02/2009	700	700	3601	
03/2009	700	700	3398	
04/2009	700	700	3314	
05/2009	700	700	2713	
06/2009	700	700	3122	
07/2009	700	700	2892	
08/2009	700	700	2416	
09/2009	700	700	3068	
10/2009	700	700	3178	
11/2009	700	700	3240	
12/2009	700	700	3221	

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLS	MCF
01/2010	700	700	3002	
02/2010	700	700	2853	
03/2010	700	700	3096	
04/2010	700	700	3372	
05/2010	700	700	3073	
06/2010	700	700	2991	
07/2010	700	700	2714	
08/2010	700	700	2901	
09/2010	700	700	2679	
10/2010	700	700	1199	
11/2010	700	700	1469	
12/2010	700	700	1842	

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLS	MCF
01/2011	595	700	1951	
02/2011	595	700	1969	
03/2011	595	700	1723	
04/2011	595	700	1462	
05/2011	700	700	1686	
06/2011	700	700	1728	
07/2011	700	700	2437	
08/2011	700	700	2261	
09/2011	700	700	2590	
10/2011	700	700	1495	
11/2011	700	700	927	
12/2011	700	700	3368	

Years 2009, 2010, 2011...

Injection pressure reporting – 4 of 5



12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLs	MCF
01/2012	700	700	3651	0
02/2012	700	700	3691	0
03/2012	700	700	3600	0
04/2012	700	700	3192	0
05/2012	700	700	2897	0
06/2012	700	700	2704	0
07/2012	700	700	3380	0
08/2012	700	700	3533	0
09/2012	700	700	3452	0
10/2012	700	700	3860	0
11/2012	700	700	3541	0
12/2012	700	700	3824	0

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLs	MCF
01/2013	700	700	3770	0
02/2013	700	700	3241	0
03/2013	700	700	3733	0
04/2013	700	700	3594	0
05/2013	700	700	3527	0
06/2013	700	700	3350	0
07/2013	700	700	3802	0
08/2013	700	700	3604	0
09/2013	700	700	3419	0
10/2013	700	700	3732	0
11/2013	700	700	3031	0
12/2013	700	700	3656	0

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLs	MCF
01/2014	700	700	65342	0
02/2014	700	700	56196	0
03/2014	700	700	72478	0
04/2014	700	700	61791	0
05/2014	700	700	66935	0
06/2014	700	700	68422	0
07/2014	700	700	68669	0
08/2014	700	700	64648	0
09/2014	700	700	58031	0
10/2014	700	700	59202	0
11/2014	700	700	71802	0
12/2014	700	700	68486	0

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED	
	Avg. PSIG	Max PSIG	BBLs	MCF
01/2015	700	700	3232	0
02/2015	700	700	3825	0
03/2015	700	700	3988	0
04/2015	700	700	3871	0
05/2015	700	700	3470	0
06/2015	700	700	3412	0
07/2015	700	700	3723	0
08/2015	700	700	3352	0
09/2015	700	700	3288	0
10/2015	700	700	3337	0
11/2015	700	700	3692	0
12/2015	700	700	3009	0

Years 2012, 2013, 2014, 2015.

Here we see 10 Years of identical / duplicate pressure reporting.

What is the problem:

- Staff training issue?
- Data from field staff incorrect?
- Disconnect between office and field staff?

Injection pressure reporting – 5 of 5



This authority is granted in accordance with Statewide Rule 46 of the Railroad Commission, and is subject to the following conditions:

1. Fluid injection must be through tubing set on a packer and the maximum surface injection pressure shall not exceed 700 psig.
2. The District Office must be notified 48 hours prior to:
 - a. running tubing and setting packer;
 - b. beginning any workover or remedial operation;
 - c. conducting any required pressure tests or surveys.
3. The wellhead must be equipped with a pressure observation valve on the tubing and for each annulus.
4. Prior to beginning injection, and subsequently after any workover, an annulus pressure test must be performed. The test pressure must equal the maximum authorized injection pressure or 500 psig, whichever is less, but must be at least 200 psig. The test must be performed and the results submitted in accordance with the instructions of Form H-5.
5. A new Form W-2 or G-1 must be filed in duplicate with the District Office within 30 days after completion or conversion to show the current completion status of the well and to show the current production test allowable to be transferred from converted wells to producing wells on the same lease. The date of the injection permit and project number, and the date that injection commenced or will commence must be included on the new Form W-2 or G-1.
6. The injection pressure and injection volume must be monitored at least monthly and reported annually on Form H-10 to the Commission's Austin Office.
7. Written notice of the intent to transfer the permit must be submitted to the Director of Underground Injection Control at least 15 days prior to the date the transfer will occur (File Form P-4).
8. A well herein authorized cannot be converted to a producing well and have an allowable assigned without filing an amended Form W-1 and receiving Commission approval.

17

Did the H-10 filer look at the permit and used the maximum permitted pressure?

In this case, the operator may have to research reported pressures and correct accordingly and / or submit 5 yrs of monthly pressure pumper records to the H-10 department.

TCAM annulus monitoring – 1 of 3



- TCAM: Tubing Casing Annulus Monitoring
- pressure between tubing and casing
- required if TCAM special condition on UIC permit
- item #15 – complete 3 columns
- annulus problems, contact District & H-5 department

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED		15. ANNULUS PRESSURE (BETWEEN TUBING AND CASING)		
	Avg. PSIG	Max PSIG	BBLs	MCF	#of Readings	Min PSIG	Max PSIG
02/2011	920	980	7256	0	5	0	0
03/2011	940	980	14935	0	4	0	0
04/2011	940	980	12815	0	5	0	0
05/2011	940	980	13685	0	5	0	0
06/2011	940	960	13974	0	4	0	0
07/2011	960	980	13948	0	4	0	0
08/2011	940	960	14316	0	4	0	0
09/2011	920	960	6876	0	4	0	0
10/2011	920	980	16752	0	4	0	0
11/2011	940	960	15010	0	5	0	0
12/2011	940	960	14276	0	5	0	0
01/2012	940	980	16015	0	5	0	0

18

-It is mandatory to complete item 15 if there is a special condition on the permit to monitor the annulus pressure, between the tubing and the casing, weekly (TCAM).

-Enter the amount of readings for each month in the left column of item 15, this should be minimum 4 times per month (weekly).

-Enter the min & max annulus pressures (as recorded by your field staff) in the middle and right columns.

If there were no observed annulus pressures, enter 0 in those two columns. Do not leave blanks.

-If you do NOT have the TCAM special condition on your permit, item 15 reporting is optional.



TCAM Special Condition language

SPECIAL CONDITIONS:

Well No.	API No.	Special Conditions
13	13538464	<p>1. An annual annulus pressure test must be performed and the results submitted in accordance with the instructions of Form H-5.</p> <p>2. The tubing-casing annulus pressure must be monitored at least weekly and reported annually on Form H-10 to the Commission's Austin Offices.</p> <p>3. (A) If the well is drill-deepened or re-entered past its current total depth of 4060 feet, a new drilling permit must be obtained pursuant to Statewide Rule 5(c).</p> <p>(B) If other formations, besides those identified on this permit, are encountered when drill-deepening or re-entering the well, the operator may not inject into those formations until the operator receives an amended injection permit that authorizes injection into those additional formations.</p>

This is the TCAM special condition language that would be on your permit.



Two ways to find out if TCAM special condition:

1) Find original permit using online query.

OR

2) Find permit detail info in injection / disposal query.

If you do not have a copy of the permit,
use the public website to find your permit:
RRC.TEXAS.GOV



The screenshot shows the Railroad Commission of Texas website. At the top, there is a navigation bar with links for 'Contact Us', 'RRC A to Z', 'RRC Online Log In', 'Jobs', and 'Resource Center'. A search bar is located on the right. Below the navigation bar, the main content area features a 'COVID-19 Agency News' section with a pink background, detailing the Governor's disaster declaration and the RRC's response. To the right, a 'Commissioners' section lists three members: Chairman Wynne Christian, Commissioner Christ Craddock, and Commissioner Ryan Sitton. Below this is a 'Useful Links' section with a list of links, including 'What's New at the RRC', 'RRC CASES', 'Drilling Permits Data Visualization', 'Wells Spudded Data Visualization', 'Oil & Gas Production Data Visualization', 'State Managed Well Data Visualization', 'RRC Online Inspection Lookup', 'Data - Online Research Queries' (circled in blue), and 'Frequently Asked Questions - FAQs'. At the bottom of the page, there is a 'What We Do' section with a video player and the RRC logo.

RRC.Texas.gov



Oil & Gas			
Type of Query			
Completions Query		Launch application	Updated Nightly
Drilling Permit (W-1) Query		Launch application	Updated Nightly
Electronic Document Management System EDMS has a new look! Click "Learn more" for information.	Learn more	Launch application	Updated Nightly
Field Rules Query		Launch application	Updated Nightly
H-10 Annual Disposal/Injection Well Monitoring Report Query	Learn more	Launch application	Updated Nightly
Inactive Well Query		Launch application	Updated Monthly
Inactive Well Aging Report Query	Learn more	Launch application	Updated Monthly
Injection/Disposal Permit Query	Learn more	Launch application	Updated Nightly
RRC Online Inspection Lookup (RRC OIL)	Learn more	Launch application	Updated Nightly
Maps - Public GIS Viewer	Learn more	Launch application	Updated Nightly
New Lease IDs Built Query	Learn more	Launch application	Updated Nightly
Oil & Gas Imaged Records Menu	Learn more	Launch application	Updated Every 3-6 Months

Launch:
Oil & Gas Imaged Records Menu



First determine: is this W-14 or H-1/H-1A well?

- Forms **H-1** and **H-1A**. (Injection into a Reservoir Productive of Oil or Gas, Rule 46)

NOTE:

A productive reservoir is a reservoir with past or current production within a 2-mile radius of the proposed injection well.

If any part of the proposed injection zone is or ever has been productive, then the permit application should be filed on Form H-1/H-1A.

Use the current forms. Using older forms may result in requests for additional information and corresponding delays in permitting

- Form **W-14**. (Injection into a Formation Not Productive of Oil or Gas, Rule 9)

The permit packets are scanned in separately by Form H1/H-1A or Form W-14.

If unsure, here is how to find out which permit you have.



Click W14 or H1 menu

Disposal Permits (Form W-14)	<ul style="list-style-type: none">Dates included: Entire Form W-14 Record SeriesNote: New/Amended Disposal permits are added when issued.
Injection/Disposal Permits (Form H-1/H-1A)	<ul style="list-style-type: none">Dates included: 2011 and forward.Note: Older files are being added as time permits. All H-1 permit files for RRC Districts 1 through 7C, 8A, and 9 are now available online.

24

-Scroll down:

- 1) Disposal Permits (W-14).
 - 2) Injection / Disposal Permits (H-1/H-1A).
- Try using this to follow the example.

-Click H-1/H-1A example UIC 105237.



Enter well info, search, actions, view document.

neuDocs
ENTERPRISE

Programs ▾

Injection/Disposal Permits (H... > Key Search

= wildcard (*) permitted.

UIC Number

H-1 Number

API Number * Exact match/number

Lease Number

County Name * No punctuation

Operator Number

[➤ Advanced](#)

Showing 2 of 2 Records (sort data by clicking on any column heading)

	UIC Number	Permit Date
 Actions ▾	105237	2012-06-01
 Actions ▾	105237	2017-04-04

25

This will take you to NeuDocs where the entire permit packets are scanned in a posted (after the permit is issued).

-Enter the UIC# (no preceding zeros) or API #, click SEARCH, click ACTIONS, click VIEW DOCUMENT.



Permit

CHRISTI CRADDICK, CHAIRMAN RYAN SITTON, COMMISSIONER WAYNE CHRISTIAN, COMMISSIONER		LORI WROTENBERY DIRECTOR, OIL AND GAS DIVISION LESLIE SAVAGE, P.G. ASSISTANT DIRECTOR, TECHNICAL PERMITTING
RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION PERMIT TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL AND GAS PROJECT NO. F-18999 AMENDMENT		

SPECIAL CONDITIONS:		
Well No.	API No.	Special Conditions
2A	01334305	1. An annual annulus pressure test must be performed and the results submitted in accordance with the instructions of Form H-5. 2. The tubing-casing annulus pressure must be monitored at least weekly and reported annually on Form H-10 to the Commission's Austin Offices. 3. Packer depth exception is granted at 4800 feet.

-Scroll to page 2.

-This is an example of a permit with the TCAM special condition.

The special condition is determined by the technical reviewer in the permitting process.



- If permit not found, look for permit detail information in the: Injection / Disposal Permit Query.
- From the Query list, you will launch:

Injection/Disposal Permit Query	Learn more	Launch application
---------------------------------	----------------------------	------------------------------------

27

Some permit packets have not been scanned in. There is another way to find the permitting details. From this menu, follow along to find the Injection / Disposal Permit Query:

Close Neibus, arrow back twice to the Data – Online Research Query list.

-Scroll up to: Injection / Disposal Permit Query. Launch.



ONLINE SYSTEM
Oil & Gas Data Query
Query Menu Help

Injection & Disposal Query Criteria

Enter your search criteria and click on Submit to view the results.

Search Criteria

Choose One: Oil Wells Gas Wells Both

District:

Oil Lease No./Gas Well ID No:

County:

Field(s):

Operator(s):

UIC No.:

Original Authority Date: to

API Unique No.: 42 - -

Top Injection Zone Depth: Between and

Bottom Injection Zone Depth: Between and

***H-1 No.:

***W-14 No.:

H-10 Status:

Permitted Fluid:

Injection Type:

Special Conditions:

Formation Name:

*** If an H-1 No. is entered, a W-14 cannot be entered at the same time. The same is true when entering a W-14 No.

28

This is the permit detail menu. The information links directly with the RRC Mainframe.

This Query can be used to find permit details for injection / disposal / cavern storage and brine mining wells.

-Example: UIC 105237, click Submit.



Click UIC number to open permit detail

RC ONLINE SYSTEM
Oil & Gas Data Query
 Query Menu Help

Injection/Disposal Permit Query Results

Search Criteria:
UIC Number: 000105237

1 results

UIC No.	API No.	District
000105237	01334305 <input type="text" value="Links"/>	01

Download

Click UIC# to find permit detail.

Click API to link to Wellbore,
 Proration and Operator top tabs for
 this well.

TCAM Injection / disposal Query – 4 of 4



Injection/Disposal Permit Detail

Injection/Disposal Permit Detail Information	
UIC No.:	000105237
API No.:	013-34305
Well No.:	2A
Original Authority Date:	06/01/2012
H-1 No.:	F-18999
H-1 Date:	04/04/2017
W14 Date:	
W14 No.:	
Permit Canceled Date:	
W-3 Plugged Date:	
Injection Type:	Disposal into a productive zone (H-1)
Special Conditions:	Annual Pressure Test, Monitor the Tubing-Casing Annulus Pressure-Weekly
H-10 Status:	ACTIVE
Permitted Fluid(s):	Salt Water, Other
Other Permitted Fluid(s):	RCRA
Reported Fluid(s):	SALT WATER
Other Reported Fluid(s):	
Activated Flag:	Y
Max Liquid Injection Pressure (PSI):	2450
Max Gas Injection Pressure (PSI):	
Max Liquid Injection Volume (BBL/Day):	10000
Max Gas Injection Volume (MCF/Day):	0
Approved Packer Depth:	4800
Top Injection Zone:	4950
Bottom Injection Zone:	5873
Formation Names:	WALES SAND, WRIGHT SAND
H-5 Schedule Date:	07/10/2018
H-5 Due Date:	10/30/2018
H-5 Received Date:	12/03/2018
Last H-5 Date:	11/20/2018
Last H-5 Type:	MECHANICAL INTEGRITY TEST

30

See Special condition: Monitor Tubing-Casing Annulus Pressure – Weekly.

Other information: permit date / permit conditions, well type / status, H-5/MIT test date / due date.

Injection interval / packer depth – 1 of 4



- Enter the completed injection perforations, **not** the permitted interval.
- Enter completed packer setting depth, **not** permitted packer depth.
- In some cases, the completed interval / packer depth may be the same as the permitted interval / packer depth.
- The reported injection interval / packer depth should be consistent between Forms H-10, H-5 MIT and W-2/G-1.

31

-If you report volumes, you are required to report the completed interval (current perforations) and the current packer setting depth in item 16 on the Form H-10.

-Do NOT enter the interval / packer depth from the permit because it may be different and could cause a violation.

Injection interval / packer depth – 2 of 4



Problem example:

- Item 16 & 17 -
- H-10 filer entered the following interval/ packer depth:

16. Current Injection Interval:		FROM: 2,650 ft	TO: 3,751 ft	17. Depth of Tubing Packer:		2,600 ft
18. Are the injected fluids produced from sources other than your own ?		<input type="checkbox"/> 1. YES	<input checked="" type="checkbox"/> 2. NO	19. Injection through:		<input checked="" type="checkbox"/> 1. Tubing <input type="checkbox"/> 2. Casing
20. Type of fluids injected during reporting cycle:						Total Anthropogenic
A Salt Water	100 %	B Fresh Water	___ %	C Fracture Water Flow Back	___ %	D Norm ___ % E(a) CO2 ___ % E(a) CO2 ___ %
F Natural Gas	___ %	G H2S	___ %	H Polymer	___ %	I Steam ___ % J Air ___ % K Nitrogen ___ %
L Other Fluid ___ %		Specify Fluid _____				

32

Let's look at an actual H-10 interval problem / violation, items 16 & 17.

The H-10 filer entered the following interval and packer depth:

Interval: 2650 – 3751 ft

Packer: 2600 ft



Violation letter issued:

- The same violation has been detected for two consecutive years on the H-10 filing. A permit amendment is required and the well must be shut in immediately and remain shut in until the violation has been resolved.
 - Item 16, Bottom interval below the bottom permitted interval. The well must be shut-in immediately. Filing for a permit amendment may be required. To apply for a permit amendment, please contact the Injection-Storage Permits and Support Section at the phone number or email address above.
-
- Operator must contact the H-10 department.
 - Reported injection interval / packer depth inconsistent between Forms H-10, H-5 MIT, W-2/G-1.

33

A violation letter was issued to the operator stating that the reported interval is outside the permitted interval (bottom of the zone).

The letter also states that this is the second time a violation letter was issued. The same occurred last year with the H-10 filing.

The well must be shut in until this is resolved and the operator must contact the H-10 dept.

Injection interval / packer depth – 4 of 4



- 1) Permit: Interval 2650-3571 ft., packer depth 2600 ft.
- 2) H-10: Interval 2650-3751 ft., packer depth 2600 ft.
- 3) H-5: Interval 3455-3504 ft., packer depth 2593 ft.
- 4) W-2: Interval 3455-3554 ft., packer depth 3397 ft.

Operator must research and report correct injection interval / packer depth to H-10 staff.

34

When operator contacts H-10 dept staff, the violation, H-10 staff will review the permit conditions, H-5 MIT, W-2/G-1 completion report and H-10 report.

If needed, H-10 staff will instruct the operator to research the discrepancy between H-5 MIT, W-2/G-1 completion report, Form H-10 and report back.

Rejections – 1 of 2



- Rejections are mailed paper Forms H-10 that are incomplete, incorrect, or have permit violations.
- Rejected Forms H-10 are mailed back to the operator with a letter.
- Operator should respond with corrected form H-10 via mail or scan to email:
H10info@rrc.Texas.gov

35

-To find the correct hard copy H10, click on: Data-Online Research Queries from the RRC website home page.

Launch the H-10 Query application.

Click: “Print H10: Current / Delinquent H10 forms by Operator”.

Enter Operator P5 organizational number. Search. Click on “Blank H10” to open the Form H-10 and print.

-The Forms H-10 are posted 3.5 months before the due date.

-If the Form H-10 is not posted, contact H-10 staff to research the issue.

Rejections – 2 of 2



Examples of rejection violation language:

- Item 16, Complete Top Injection Interval and Return Form.
- Item 16, Complete Bottom Injection Interval and Return Form.
- Signature required, return signed Form.
- Item 14, Volume BBLs or MCF is required for each month. Use 0 for months with no injection, well plugged, permit canceled or not operator of the well.
- Item 12 - Incorrect Cycle Month(s) or Due Date. To obtain a pre-printed H-10 Form please visit our website at: rrc.state.tx.us. Look by: most popular links- online research queries - H-10 Annual Disposal/Injection Well Monitoring Report (Form H-10).
- The Form H-10 submitted has incorrect filing cycle. The hard copy Form H-10 pre-populated for this well is posted online. Please use correct form and resubmit the Form H-10. Call 512-463-2903 for assistance.
- Fluid Percentages must total to 100%.

36

Rejections are hard copy Forms H-10 that were filed with the RRC and a problem was found.

A third party handles the hard copy Forms H-10. Rejection Forms H-10 are returned via mail with a letter to inform the operator of the violation.

The operator must respond with a corrected copy to resolve the violation.

Permit violations – 1 of 11



- Permit violation letters are issued if the well is out of compliance with permit conditions.
- When a Form H-10 is filed online, it is flagged for permit violations as needed.
- The H-10 system places permit violations in an internal queue for review.

Examples:

1. Maximum permitted volumes exceeded.
2. Fresh water injection not allowed by permit.

37

Most frequent permit violation:
missing annulus pressure
information.

Operators frequently enter the
amount of TCAM Readings in item 15
but the following 2 columns are left
blank. This creates a TCAM violation.

Permit violations – 2 of 11



First year permit violation examples - notices are mailed to operator.

- Item 13, Pressure exceeds authorized permitted pressure. Reduce the maximum surface injection pressure or apply for a permit amendment. To apply for a permit amendment, please contact the Injection-Storage Permits and Support Section at the phone number or email address above.
- Item 14, Volume BBLs exceeds authorized permitted volume. Reduce the maximum daily injection volume or apply for a permit amendment. To apply for a permit amendment, please contact the Injection-Storage Permits and Support Section at the phone number or email address above.
- Item 17, Packer Depth above permitted packer depth. An exception to the Statewide Rules can be obtained with an application, log, written request and a \$150 filing fee.

38

FYI: Anthropogenic CO₂ was added to the Form H-10 when the State Legislature approved the Advanced Clean Energy EOR Tax reduction.

Anthropogenic CO₂ reporting on the Form H-10 is optional.

It must be a subset of the reported total CO₂.

It is NOT included in the total calculation of item 20.

Permit violations – 3 of 11



View H-10 permit violations by logging in online account:

The screenshot shows the Railroad Commission of Texas website. The navigation bar includes links for 'Contact Us', 'RRRC A to Z', 'RRRC Online Log In' (circled in red), 'Jobs', and 'Resource Center'. Below the navigation bar is a search bar and a secondary menu with links for 'About Us', 'Oil & Gas', 'Alternative Fuels', 'Gas Services', 'Pipeline Safety', 'Mining & Exploration', 'Hearings', and 'General Counsel'. The main content area features a 'Railroad Commission of Texas' header, a 'Capitol Complex Construction' section with a warning about parking closures, and a 'Commissioners' section listing Chairman Wayne Christian, Commissioner Christl Craddock, and Commissioner Ryan Sitton.

39

When the H-10 is filed, the system compares the submitted H-10 data with the permit conditions.

Example of permit conditions:
maximum permitted volumes,
maximum permitted pressures,
permitted interval etc.

Permit violations – 4 of 11



1. From the H-10 Main Menu, click **Search for H-10**.
2. Enter search information
3. Click: Search

Search for H10's

***Search by UIC or API number**
Information for H-10s is only available from January 2007 forward.

UIC Number: API Number: 42 - [County/District Lookup](#)

District: Status:

Field Number:

Lease Number:

Operator Number:

**** Due Date range**

From Month: Year: To Month: Year:

* If UIC or API number are entered, other fields are ignored.
** Lease or Operator number is required to search a date range greater than 3 months.

40

There are ways to find out whether permit violations were caused by the filed H-10 data.

Permit violations – 5 of 11



1 - 10 of 11 results

View Blank H10	Due Date	Status
Blank H10	06/2019	PROCESSED

12. MONTH/YR	13. INJECTION PRESSURE		14. TOTAL VOLUME INJECTED		15. ANNULUS PRESSURE (BETWEEN TUBING AND CASING)		
	Avg. PSIG	Max PSIG	BBLs	MCF	# of Readings	Min PSIG	Max PSIG
03/2018	0	0	0				
04/2018	0	0	0				
05/2018	0	0	0				
06/2018	0	0	0				
07/2018	0	0	0				
08/2018	1650	1700	11869				
09/2018	1368	1800	340678				
10/2018	1302	1500	288667				
11/2018	1286	1523	305724				
12/2018	964	972	281016				
01/2019	908	972	250052				
02/2019	901	997	196104				
16. Current Injection Interval: From: 1224 ft. To: 13580 ft.				17. Depth of Tubing Packer: 12216 ft.			
18. Are the injected fluids produced from sources other than your own? No				19. Injection Through: TUBING			
20. Type of fluids injected during reporting cycle: Salt Water(100%) Other: Remarks:							

41

-Click due date to open report.

-See yellow triangle for violation.

-Example: TOZ is 1224 ft - BOZ 13580 ft.

-The operator may re-enter the filed H-10 only if the violation was caused by a data error.



ONLINE DATA CORRECTIONS:

1. Enter H-10 Filing Main Menu. Then "File H-10".
2. Scroll down to the bottom of the page.
3. Enter UIC# (No preceding zeros).
4. Enter H-10 due date (month and year only).
5. Click "Search".
6. Click "File" at the end of the line.
7. The form H-10 will open, correct the data entry error, resubmit.
8. Call 512-463-2903 for assistance.

42

-Refrain from making frequent H-10 corrections as this can throw off the system, causing future H-10s to stop from being created.

-Contact the H-10 Dept to discuss historical or frequent corrections if needed. Example, you notice that staff has entered incorrect packer depth several years. Notify the H-10 staff via email or phone and discuss the necessary corrections.

-To correct hard copy H-10 filings, send a corrected paper copy of the Form H-10.

Permit violations – 7 of 11



- If operator has true H-10 permit violation, this may not be resolved with data error correction.
- H-10 Department must be contacted to resolve permit violations.

43

The operator may NOT re-enter a filed H-10 to resolve a permit violation (except to resolve a data error as discussed previously).

Permit violations can only be resolved by contacting the H-10 department.

Permit violations – 8 of 11



- The violation status can be found in the “Search for violations” menu.
- Access this menu via your online account or the Data – Online Research Query (H-10).

Oil & Gas			
Type of Query			
Completions Query		Launch application	Updated Nightly
Drilling Permit (W-1) Query		Launch application	Updated Nightly
Electronic Document Management System EDMS has a new look! Click "Learn more" for information.	Learn more	Launch application	Updated Nightly
Field Rules Query		Launch application	Updated Nightly
H-10 Annual Disposal/Injection Well Monitoring Report Query	Learn more	Launch application	Updated Nightly

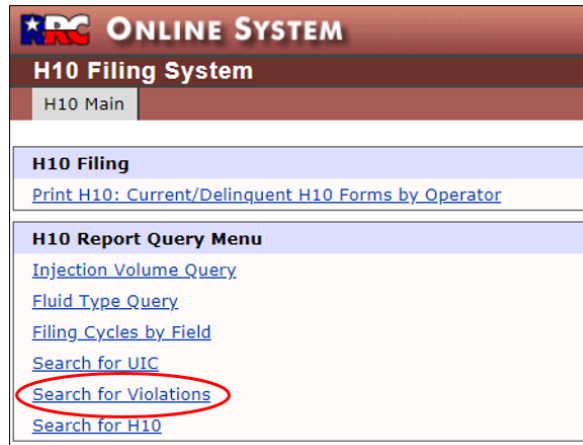
44

The H-10 violation status is updated online. Follow instructions above.

Permit violations – 9 of 11



Click “Search for violations”



The screenshot shows the "H10 Filing System" interface. At the top, there is a header with the "TRC ONLINE SYSTEM" logo and the text "H10 Filing System". Below this, there is a navigation bar with "H10 Main" selected. The main content area is divided into two sections: "H10 Filing" and "H10 Report Query Menu". The "H10 Filing" section contains a link: [Print H10: Current/Delinquent H10 Forms by Operator](#). The "H10 Report Query Menu" section contains several links: [Injection Volume Query](#), [Fluid Type Query](#), [Filing Cycles by Field](#), [Search for UIC](#), [Search for Violations](#), and [Search for H10](#). The link "Search for Violations" is circled in red.

45

Click Search for Violations.



Enter search information

Search for Violations

***Search by UIC or API number**
Information for violations is only available from January 2012 forward.

UIC Number: API Number: 42 - [County/District Lookup](#)

District: Status:

Lease Number:

Operator Number:

*** Due Date range**

From Month: Year: To Month: Year:

*** If UIC or API number are entered, other fields are ignored.**
**** Lease or Operator number is required to search a date range greater than 3 months.**



RRC ONLINE SYSTEM
H10 Filing System
[H10 Public Main](#) [Public Query Help](#)

Search

[Return To Search](#)

Search Criteria:
 • UIC Number: []

2 results Page: 1 of 1

UIC No.	Due Date	Violation	Violation Status	District
	02/2016	UI066 - Item 13, Pressure exceeds authorized permitted pressure	RESOLVED MF	08
	02/2016	UI065 - Database shows that H10 Not Required.	RESOLVED	08

[Return To Search](#)

[Disclaimer](#) | [RRC Online Home](#) | [RRC Home](#) | [Contact](#)

- The violations that are not resolved will show an “Active” status.
- Violations that are resolved will show “Resolved” or “Resolved MF” (mainframe).
- “No violations found” means that there are NO existing unresolved violations.

Second year permit violations – 1 of 2



- Second year violations are duplicate permit violations for two consecutive years.

- Examples:

- The same violation has been detected for two consecutive years on the H-10 filing. A permit amendment is required and the well must be shut in immediately and remain shut in until the violation has been resolved.
- Item 15 - Tubing-casing annulus # readings do not meet permitted special condition. Failure to comply with the permitted special conditions may result in cancellation of your permit. If reliable annulus monitoring cannot be achieved, then the well will be placed on a semi-annual pressure test schedule in lieu of annulus monitoring.

- The same violation has been detected for two consecutive years on the H-10 filing. A permit amendment is required and the well must be shut in immediately and remain shut in until the violation has been resolved.
- This well is not permitted to inject Fresh Water. Discontinue injection of this fluid type. To apply for a permit amendment, please contact the Injection-Storage Permits and Support Section at the phone number or email address above.

48

-Second year violations almost always require a permit amendment.

-The Operator must shut in the well as instructed in the letter.

-Always call the H-10 department.

Second year permit violations – 2 of 2



- Second year permit violations almost always require a permit amendment. The H-10 Dept must be contacted to resolve second year permit violations.
- 60 Day violation hold is implemented. The permit amendment application must be stamped at the UIC Department within 60 days.
- Violation hold is removed if amendment application is not received within 60 days.
- Violation is resolved when permit is amended.

49

-When a permit amendment is needed to resolve a violation, the letter will state this.

-If a permit amendment is needed, the H-10 staff places the violation on a 60-day hold. This means that the operator has 60 days from that day to have amendment application stamped at the UIC Department.

-If the amendment application is not received within those 60 days, the violation hold is removed causing the lease to be severed / sealed immediately.

Enforcement / severance Query – 1 of 5



- If no response to violation letter within 30 days, a “Notice of Intent to Cancel P-4 Certificate” (NOI) is mailed to operator.
- If violation is not resolved 30 days from NOI, lease severance / seal is issued (P-4 cancellation).
- To lift severance / seal, contact H-10 Dept and resolve violation, then pay \$750 reconnect fee.

50

To pay a severance reconnect fee (\$750) using a credit card, call Central Fees 512-463-6882.

You will need district & lease#.

When the violation is resolved and the money is applied, the severance is lifted and a letter issued to that effect.

If there are other severances, they must be resolved before the severance is lifted.

Enforcement / severance Query – 2 of 5



To follow enforcement process, select Severance Query from Data – Online Research Queries:

Proration Query (Oil)	Learn more	Launch application
Severance Query	Learn more	Launch application
Surface Casing Estimator - Bureau of Economic Geology	Learn more	Launch application
Well Status Report Query		Launch application
Wellbore Query	Learn more	Launch application

Enforcement / severance Query – 3 of 5



1. Select District / lease # or Operator #.
2. Select Severance / Seal Category: "Outstanding All". Click Submit.

Severance Query Criteria

Enter your search criteria and click on Submit to view the results.

Search Criteria

Choose One: Oil Wells Gas Wells Both

District:

Oil Lease No./Gas Well ID No:

Field(s):

Operator(s):

Severance/Seal Cert. Ltr. Issued By:

Severance/Seal Cert. Ltr. Reason:

Certified Letter Date: Between And (MM/DD/YYYY)

Severance/Seal Letter Date: Between And (MM/DD/YYYY)

Severance/Seal Category:

Choose One: Current Historical Both

52

Violations are added to the Severance Query as soon as a certified letter is mailed out.

Use the Query by operator P5#, by lease or by well.

Severances can be avoided by using this Query on a regular basis.

Click on Lease #

Severance Query Results			
Search Criteria:			
District: 06			
Oil Lease No./Gas Well ID No: 05657			
Lease Names: BEN-GENE FIELD UNIT			
1 results		Page: 1 of 1	
District	Lease No.	Lease Name	Field No.
06	05657 <input type="button" value="Links"/>	BEN-GENE FIELD UNIT	07022500
<input type="button" value="Download"/>			

Click on Lease # again

Severance Results for District and Lease		
1 results		
District	Lease No.	Lease Name
06	05657 <input type="button" value="Links"/>	BEN-GENE FIELD UNIT

Enforcement / severance Query – 5 of 5



Severance Issued By	Severance Reason	Certified Letter Issued Date	Severance Issue Date	Violation Resolved Date	P4 Cert Re-Issue Date	Fee Received
UIC	DELINQUENT H-10	06/06/2018		06/07/2018		Not Required
UIC	DELINQUENT H-10	06/07/2017		06/14/2017		Not Required
Field Operations	FIELD RULE VIOLATION	07/12/2010	10/15/2010			No
UIC	DELINQUENT H-5	06/09/2009		06/16/2009		Not Required
UIC	COMP/OPER VIOLATIONS	05/17/2002	06/17/2002	05/12/2004	05/12/2004	Yes

[Download](#)

Lease Amount Due: \$750

Letter Remarks

FAILURE TO FILE ACCEPTABLE FORM H-10 FOR 2017/2018 CYCLE FOR WELL(S): 5
 FAILURE TO FILE ACCEPTABLE FORM H-10 FOR 2016/2017 CYCLE FOR WELL(S): 5
 VIOLATION OF STATEWIDE RULE(S): 9/46. NO BRADENHEAD RISER ON #5 YET. SKH
 VIOLATION SWR: 9 CONCERNING FAILURE TO FILE FORM H5-IND/DIS PRESSURE TEST DUE 01/30/09 FOR WELL # 5.
 VIOLATION SWR: 9 (5)(A)(III) FAILURE TO COMPLY WITH LETTER DATED 04/16/2002 CONCERNING REDUCING INJECTION PRESSURE OR AMENDING PERMIT FOR WELL #: 5.

[Return](#)

54

-Look at the violation resolved date column. It should not have blanks or unresolved violations.

-It is possible that you resolved the violations but did not pay the reconnect fee. The lease will remain severed until the fees are paid. See lease amount due on top.

UIC well transfers -1 of 2



If lease transfers occur in middle of H-10 cycle year:

- Partial H-10 can not be filed.
- Previous operator submit volume, pressure & annulus pressure info to new operator.
- New operator files entire cycle year upon H-10 due date.

55

-Zero lease UIC permit transfers (wells not drilled) are NOT handled by P4 transfer.

-Operator on record may request to cancel the permit or the new operator (who purchased the permit) may submit UIC application amendment to obtain the permit.

-Alternatively the new operator can complete the well and file a completion report W-2/G-1.

UIC well transfers – 2 of 2



Wells not drilled (UIC permit only) may not have lease #. These UIC permits are NOT transferred by Well Compliance Dept (P-4 transfer).


New operator should:

- submit application amendment to obtain hard copy permit

OR

- complete the well / file completion report W-2/G-1.

H-10 Query



H10 Filing
[Print H10: Current/Delinquent H10 Forms by Operator](#)

H10 Report Query Menu
[Injection Volume Query](#)
[Fluid Type Query](#)
[Filing Cycles by Field](#)
[Search for UIC](#)
[Search for Violations](#)
[Search for H10](#)

57

-Injection Volume Query: total volumes district, county, operator, lease, field, UIC#.

-Fluid Type Query: total fluids injected by county, district, operator, UIC#, lease, field. You can select fluids too.

-Filing Cycles by Field: find H-10 due date and cycle year.

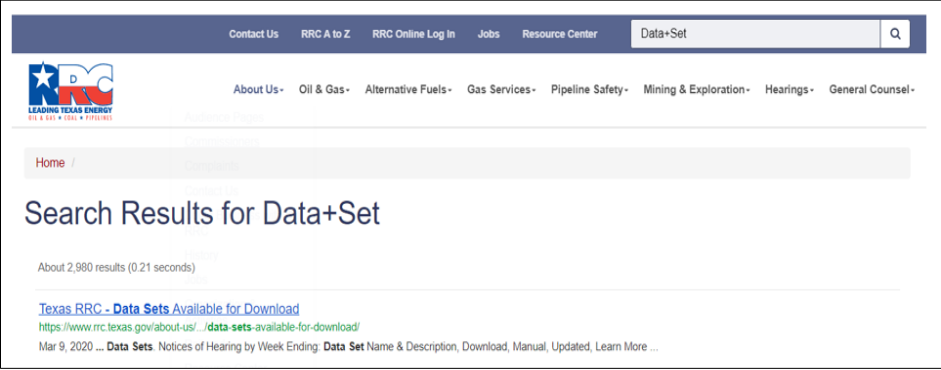
-Search for UIC: Find UIC number of an injection well.

-Search for violations: Find violations by well, operator etc.

-Search for H10: Find all filed H-10s since 2007 and the status. Click on due date to open H10. See the status: current, delinquent, work in progress, submitted, processed. Need to log in to print out blank H-10 from this Query.

Data set UIC – 1 of 2

Data sets available for download



The screenshot shows the Texas Railroad Commission (RRC) website search results for the query "Data+Set". The page header includes the RRC logo and navigation links such as "Contact Us", "RRC A to Z", "RRC Online Log In", "Jobs", "Resource Center", and "Data+Set". The search results section displays "Search Results for Data+Set" with approximately 2,980 results found in 0.21 seconds. A search result is listed with the title "Texas RRC - Data Sets Available for Download" and a URL: <https://www.rrc.texas.gov/about-us/.../data-sets-available-for-download/>. Below the URL, it shows the date "Mar 9, 2020 ..." and a snippet of text: "Data Sets Notices of Hearing by Week Ending: Data Set Name & Description, Download, Manual, Updated, Learn More ...".

58

Free UIC data sets are available to find detailed H-10 data.

From the Home page, enter “DATA SET” in the search bar to find the free UIC data set.



UIC data set in two formats

Underground Injection Control Data				Back
Data Set Name & Description	Download	Manual	Updated	Learn More
UIC Database	EBCDIC Format	PDF	Monthly Available by the 3rd workday	Learn More
UIC Database	ASCII Format	PDF	Monthly Available by the 3rd workday	Learn More

Data sets free of charge.

The RRC does not provide assistance in converting the data sets.

The data is updated monthly.

Contact information



Contact H-10 Department:

Margot Buyens

Tel: 512-463-2903

h10info@rrc.texas.gov

60

Thank you for attending this presentation.

Have a good day!