



GIS Viewer

RAILROAD COMMISSION OF TEXAS

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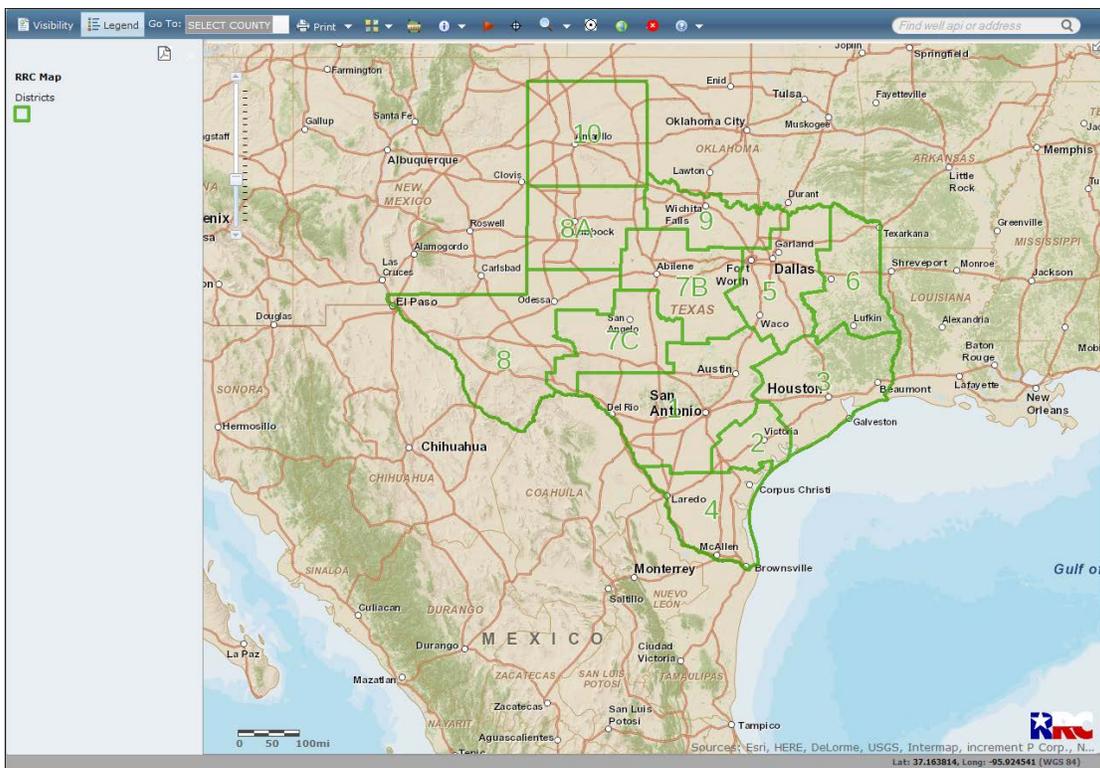
GIS Viewer Basics

Basics

The GIS Viewer allows you to view information about wells, pipelines, surveys, LPG/CNG/LNG sites, and related features in a map view.

The default view when you open the GIS Viewer is a state map with the *Oil/Gas Districts* layer visible. The *Oil/Gas Districts* layer displays the Railroad Commission's Oil and Gas Division district boundaries and numbers in green. You can view additional layers, such as AED districts, by customizing the [visibility](#).

TIP: For the best viewing results, see the [Browser Recommendations](#) below.



Browser Recommendations

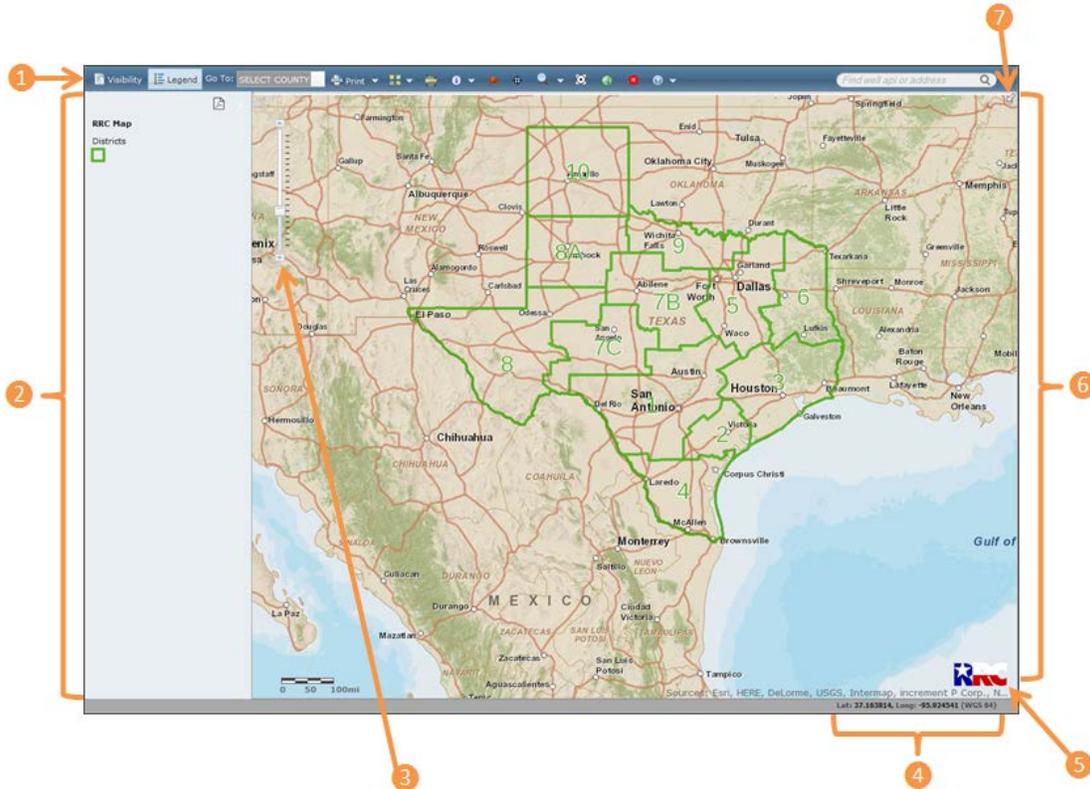
- Mozilla Firefox 32.0+ and Google Chrome 37.0+ are recommended for the best viewing results.
- Internet Explorer 9.0 and below are not recommended.
- JavaScript must be enabled.
- Pop-up blocking in your browser must be disabled.

TIP: To verify that pop-up blocking is disabled on your computer, use our [Pop-up Blocker Test](#).

Screen Overview

The table below provides a description of the GIS Viewer screen.

TIP: For the best viewing results, see the [Browser Recommendations](#).



Area	Description
① Toolbar	Allows you to access the available tools and features for the GIS Viewer.
② Visibility/Legend Pane	Allows you to toggle between the available layers and the associated legend.
③ Zoom Control	Allows you to zoom in or out on the map.
④ Dynamic Coordinates	Displays the World Geodetic System 1984 (WGS 84) coordinates for the location of your cursor on the map. The latitude and longitude are expressed in decimal degrees.
⑤ RRC Button	Allows you to access the RRC Home page.
⑥ Viewing Pane	Displays the map and available layers.
⑦ Screen Overview	Allows you to see an overview of the area you are viewing on the map.

Toolbar

The toolbar provides access to the available tools and features. Below is a description of the tools.



- **Visibility:** Click the **Visibility** button to choose the layers you want to display on the map. For example, to display pipelines on the map, click the *Pipelines* check box.
- **Legend:** Click the **Legend** button to display the list of items that may display on the map. Items display in the legend as they are made visible on the map. As you zoom in, more items display in the list and can be seen on the map.
- **Go To:** Use the *Go To* drop-down list to select a county to zoom to on the map.
- **Print:** Use the *Print* drop-down list to select a print option. Your print selection displays in another window. You will need to disable pop-up blocking in your browser to view the print selection.
- **Switch Basemap** : Use the *Switch Basemap* drop-down list to choose the basemap that you want to display. By default, *Streets* is selected.
- **Measure** : Click the **Measure** button to access the measure tools that allow you to measure an area, measure the distance between points, or view coordinates for a selected location.
- **Identify** : Allows you to view detailed information about the selected item.
- **What's Here?** : Click the **What's Here** button, and then select a point on the map to display details.
- **Coordinates** : Allows you to enter specific coordinates that you want to view.
- **Search** : Allows you to search for [pipelines](#), [surveys](#), or [lease IDs](#).
- **Radius** : Allows you to draw a radius around a selected location on the map.
- **Zoom to Texas** : Allows you to return to the default view.
- **Clear Graphics** : Allows you to clear the graphics on the map.
- **Find Field:** (*Find well api or address*) Enter a well API number or address to zoom to the location on the map.
- **Help** : Allows you to access GIS Viewer help resources, including web help, a user guide, a glossary, FAQs, and a data sources table.

Visibility/Legend Pane

Allows you to view the legend for the icons that display on the map. To access a printable version of the legend, click the **Printable Legend (PDF)**  icon. You can click the [Visibility](#) button to select which layers you want to display.

Zoom Control

Allows you to zoom in or out on the map. You can also use the scroll wheel on your mouse to zoom in and out. To zoom in to a specific location, double-click the location on the map.

Dynamic Coordinates

Place your cursor over any location in the map to view the WGS 84 coordinates.

RRC Button

Click the **RRC** button to open the [RRC Home Page](#) in a separate tab.

Viewing Pane

Displays the map and overlays that you have selected. As you zoom in, more information displays on the map.

Screen Overview

Click the arrow  to see an overview window that represents the area currently displayed on the map. You can pan the map by clicking and dragging the black box.

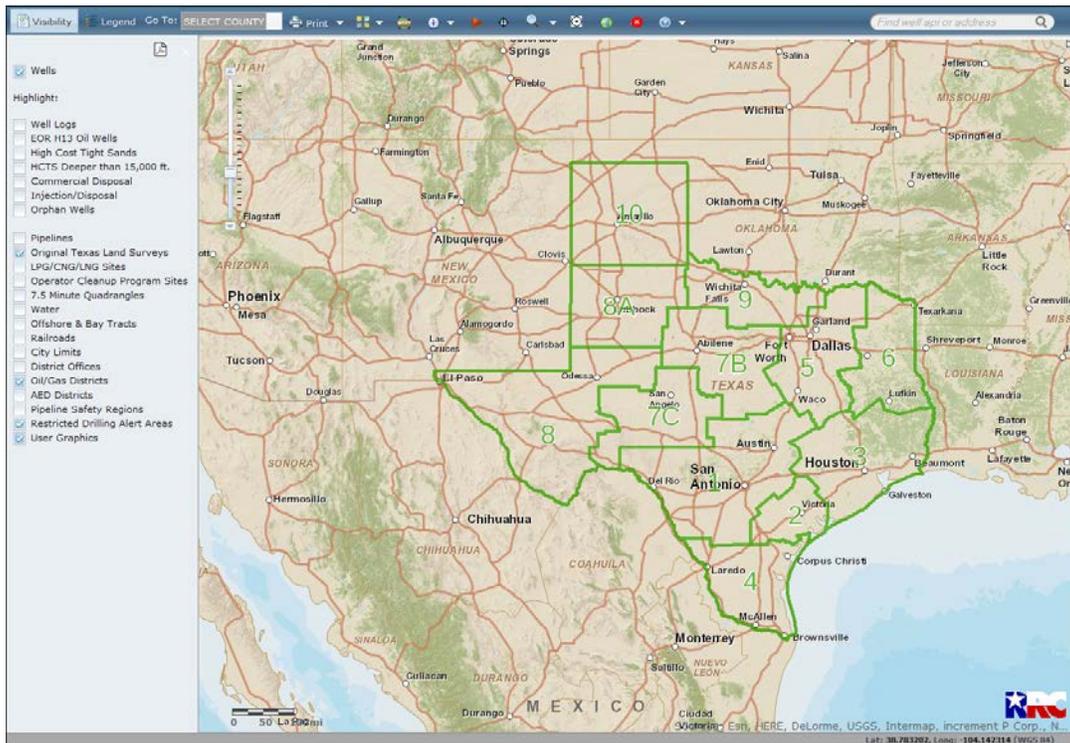
Tools

Visibility

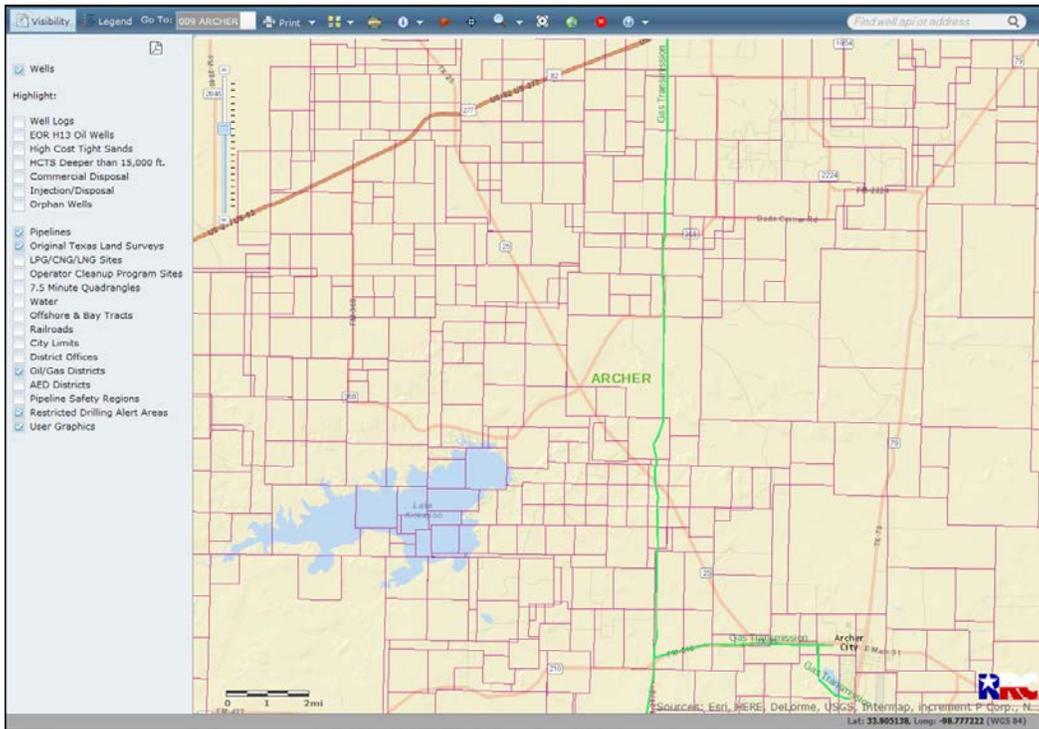
The *Visibility* tool allows you to choose which layers you want to display on the map.

To Choose a Layer

1. In the toolbar, click the **Visibility**  button. The available layers display in the *Visibility/Legend* pane.



2. Click the check box next to the layers that you want to display.



IMPORTANT: 1) It may be necessary to [zoom in](#) to see the selected layers on the map. **2)** It may take a few seconds for the selected layers to display. **3)** Click the **Legend** button to view what each icon represents.

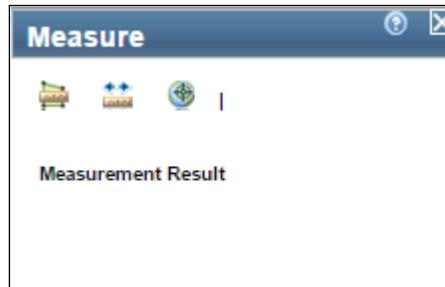
TIP: To access a printable version of the legend, click the **Printable Legend (PDF)** icon in the *Legend* pane.

Measure Tool

The *Measure* tool allows you to measure [area](#) and [distance](#) between selected points and to [view the WGS 84 coordinates](#) of a selected location.

Measuring an Area

1. Click the **Measure**  button. The *Measure* dialog box displays.



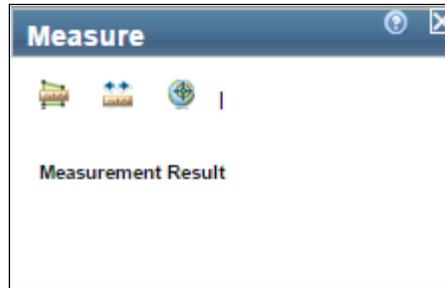
2. Click the **Area**  button. The default measurement unit displays in the dialog box.



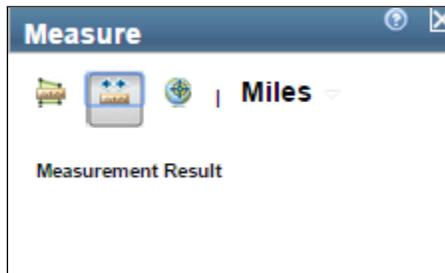
3. Click the drop-down arrow to select the units you want to use in the measurement.
4. In the map, click the points you want to include in the area measurement.
5. After selecting the last point, double-click. The results display in the *Measurement* dialog box.

Measuring Distance

1. Click the **Measure**  button. The *Measure* dialog box displays.



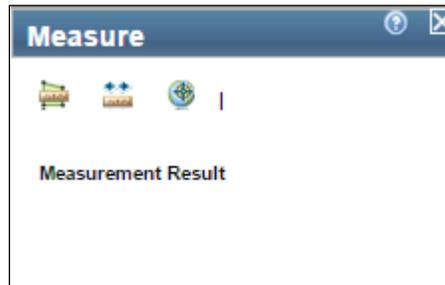
2. Click the **Distance**  button. The default measurement unit displays in the dialog box.



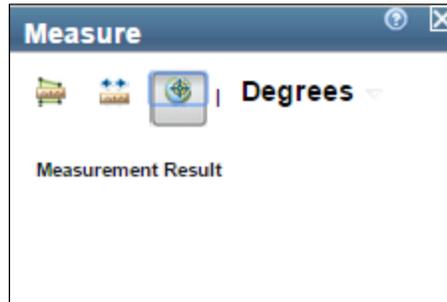
3. Click the drop-down arrow to select the units you want to use in the measurement.
4. In the map, click the points you want to include in the distance measurement. The results display in the *Measurement* dialog box.

Viewing Coordinates

1. Click the **Measure**  button. The *Measure* dialog box displays.



2. Click the **Location**  button. The default coordinate type displays in the dialog box.



3. Click the drop-down arrow to select the coordinate type you want to use.
4. In the map, click the point. The latitude and longitude coordinates (in the WGS 84 datum) of the selected location display in the *Measurement* dialog box.

Identify Tool

The *Identify* tool allows you to view additional information on wells, pipelines, surveys, LPG/CNG/LNG sites, OCP sites, and alert areas.

Using the Identify Tool

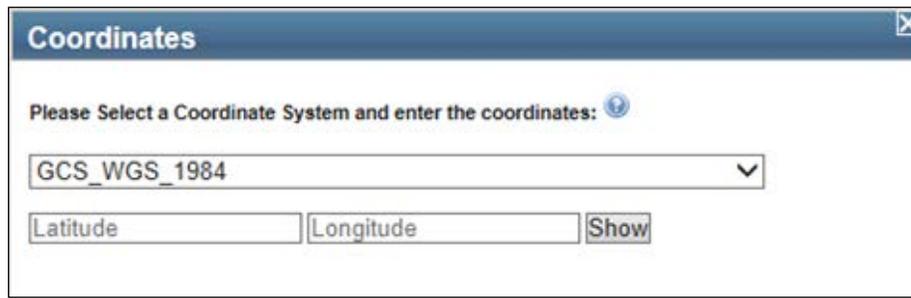
1. Click the **Identify**  button in the toolbar.
2. Select the type of item you want to see additional information for.
3. On the map, click the icon that represents the item. The *GIS Identify Results* dialog box displays with the attributes.
4. To print the attributes, click the **Print** button.

Coordinates Tool

You can use the *Coordinates* tool to find a specific location on the map.

Using the Coordinates Tool

1. Click the **Coordinates**  button. The *Coordinates* dialog box displays.



The screenshot shows a dialog box titled "Coordinates" with a close button in the top right corner. Below the title bar, there is a text prompt: "Please Select a Coordinate System and enter the coordinates:" followed by a help icon. A drop-down menu is set to "GCS_WGS_1984". Below the menu are two text input fields labeled "Latitude" and "Longitude", and a "Show" button.

2. Using the drop-down list, select the coordinate system you want to use.
3. Enter the coordinates in the fields.
4. Click the **Show** button. The map zooms to the location.

Searches

You can use the *Search* tool to search for [pipelines](#), [surveys](#), or [lease IDs](#).

Pipeline Search

You can search for pipelines.

1. Click **Search | Pipelines**. The *Pipeline Search* dialog box displays.

PIPELINE SEARCH:

Select a county:

Select or fill in ONE or MORE search criteria:

Diameter range (in inches): to

T4 PERMIT (Ex: 04143)
OPERATOR NAME (Ex: TEXAS EASTERN)
P5 OPERATOR NO (Ex: 845690)
SYSTEM NAME (Ex: GULF COAST MAINLINE)
SUBSYSTEM NAME (Ex: GULF COAST MAINLINE #3)

Query Results: 0 (Maximum of 1000 records will be displayed)

2. Using the *Select a County* drop-down list, choose the county you want to use in your search. The map zooms to the selected county.
3. Complete your search criteria by using the drop-down lists and entering text into the available fields.

TIP: You can search using partial values in the text fields.

4. Click **Query**. The results display.

PIPELINE SEARCH:

Select a county:

Select or fill in ONE or MORE search criteria:

Diameter range (in inches): to

T4 PERMIT (Ex: 04143)
OPERATOR NAME (Ex: TEXAS EASTERN)
P5 OPERATOR NO (Ex: 845690)
SYSTEM NAME (Ex: GULF COAST MAINLINE)
SUBSYSTEM NAME (Ex: GULF COAST MAINLINE #3)

Query Results: 4 (Maximum of 1000 records will be displayed)

Search

County	Operator	Commodity	Commodity Detail	System Type	System Name	Sub System Name	Inter-state	Diameter	Operator P5	T4 Permit	Status	Contact Phone
ARCHER	BP PIPELINES (NORTH AMERICA),INC	Crude Oil	CRUDE OIL	Crude Gathering	HASKELL GATHERING		Yes	4.5	085368	00401	In Service	6308363492

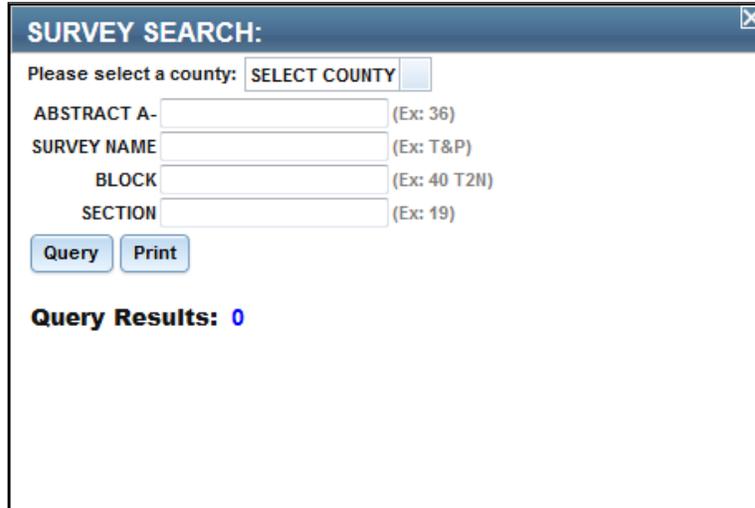
5. A maximum of 1000 results display. If your search returns more than 1000 results, a dialog box notifies you that there are too many results to display on the map.
6. You can sort the results by clicking the heading.
7. To print the query results, click the **Print** button.
8. Click the **Reset** button to clear the search criteria. The county remains selected after clicking *Reset*.

TIP: To remove the highlighting from the pipelines, click the **Clear Graphics** button.

Surveys Search

You can search for surveys.

1. Click **Search | Surveys**. The *Survey Search* dialog box displays.



SURVEY SEARCH:

Please select a county: SELECT COUNTY

ABSTRACT A- (Ex: 36)

SURVEY NAME (Ex: T&P)

BLOCK (Ex: 40 T2N)

SECTION (Ex: 19)

Query Print

Query Results: 0

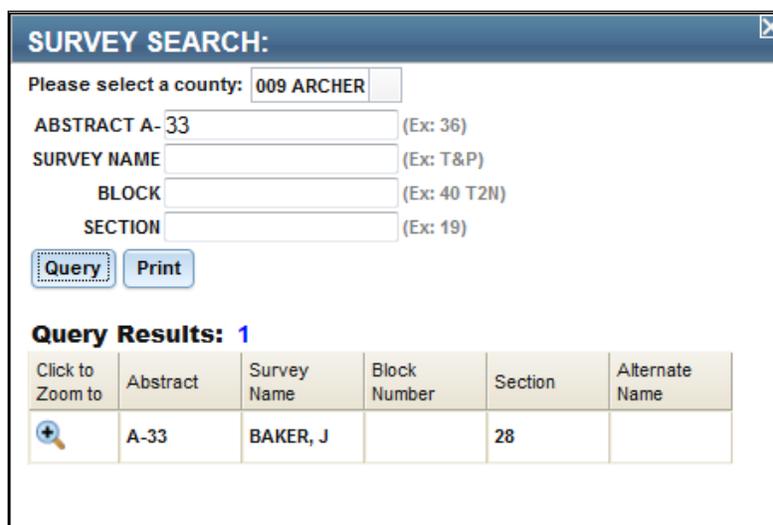
2. Using the *Select a County* drop-down list, choose the county you want to use in your search. The map zooms to the selected county.

IMPORTANT: You must select a county to run a survey search. If you have selected a county previously, it displays in the field.

3. Complete your search criteria by entering text into the available fields.

TIP: You can search using partial values in the text fields.

4. Click **Query**. The results display.



SURVEY SEARCH:

Please select a county: 009 ARCHER

ABSTRACT A- 33 (Ex: 36)

SURVEY NAME (Ex: T&P)

BLOCK (Ex: 40 T2N)

SECTION (Ex: 19)

Query Print

Query Results: 1

Click to Zoom to	Abstract	Survey Name	Block Number	Section	Alternate Name
	A-33	BAKER, J		28	

NOTE: A maximum of 300 results can display. If your search returns more than 300 results, a dialog box requests that you refine your search criteria to limit the number of search results.

5. To print the query results, click the **Print** button.

TIP: To remove the highlighting from the survey boundaries, click the **Clear Graphics** button.

Lease Id Search

You can search for wells in a specified lease.

1. Click **Search | Lease Id**. The *Lease Search* dialog box displays.



2. In the *Enter Lease ID* field, enter the lease ID.
3. Using the *District* drop-down list, select a district.

TIP: This field is not required.

4. Click **Search**. The results display.

LEASE SEARCH:

Enter Lease ID (ex: 02290) District(optional)

(Note: click on an API link below to locate the well on the map.)

API	County	District	Well Number	Type Well
355-02670	NUECES	04	4 U	OIL
355-02672	NUECES	04	6 L	OIL
355-02673	NUECES	04	7 U	OIL

TIP: 1) To view a specific well, click the link in the *API* field. **2)** To remove the highlighting from the well, click the **Clear Graphics** button.

Radius Tool

The *Radius* tool allows you to create a radius around a specific point on the map.

Using the Radius Tool

1. Click the **Radius**  button in the toolbar. The *Radius* dialog box displays.



2. In the *Buffer Size* field, enter the radius distance.

IMPORTANT: Depending on the *Buffer Size* you enter, you may have to zoom in to select a point.

3. In the map, click the location to draw the radius. The radius displays around the point.