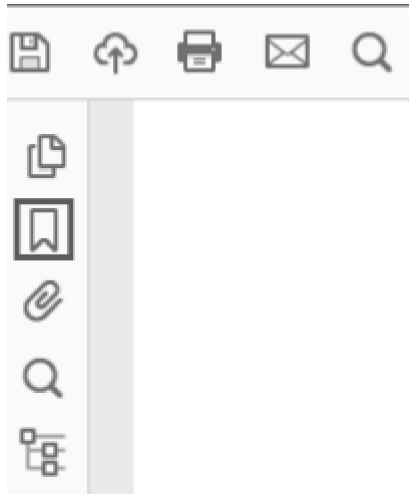


[Help / About](#)

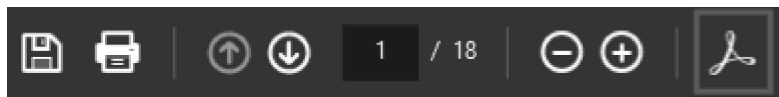
Welcome to the Oklahoma Corporation Commission (OCC) Division of Oil and Gas Conservation Data Explorer system

System Overview

Thank you for utilizing the OCC Data Explorer system. To view the contents of the help manual, reference the Table of Contents, or enable the Bookmark pane by clicking on the Bookmark icon, then clicking the sub-topic you wish to view.



Depending on how you opened the manual, you may first need to display your PDF-reader application toolbar; in Adobe Acrobat Reader DC.



The Data Explorer system is best viewed in Chromium web browsers (e.g., Google Chrome, Microsoft Edge).

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Getting Started

Page-Level Tools

The Data Explorer system home page contains the following page-level tools:



OCC Home: opens the agency's website in a new tab



Restart Session: clears all current selections and reloads the webpage




Alerts: displays alerts related to the Data Explorer system



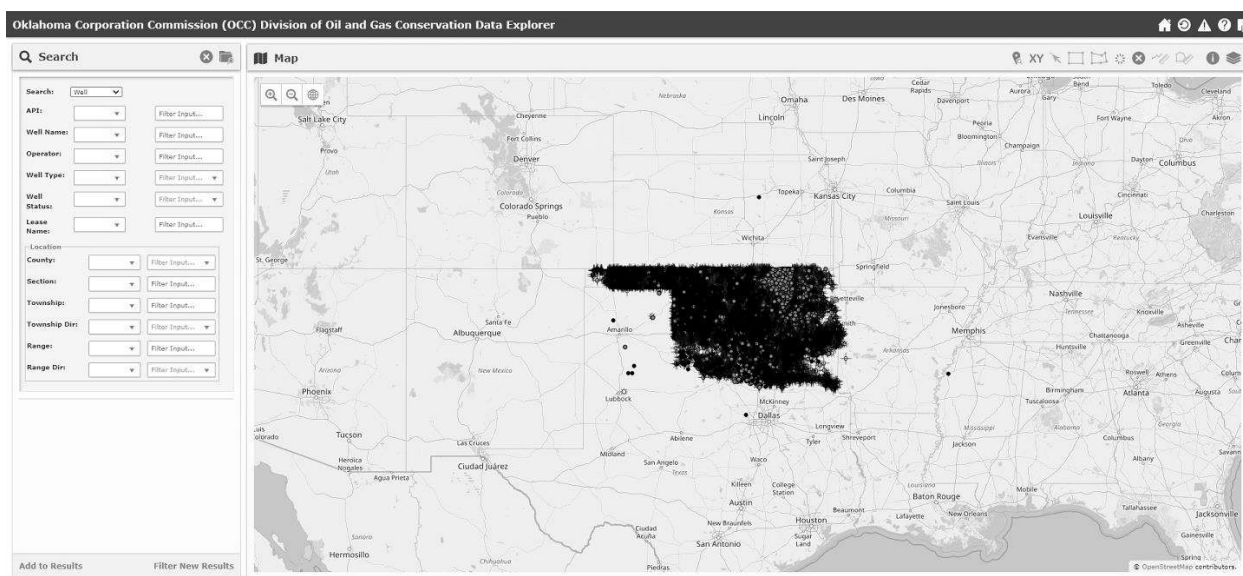
Help: opens the Data Explorer system Help file in a new tab



Reporting: opens the Data Explorer Reporting menu; click the  icon for instructions on running a report

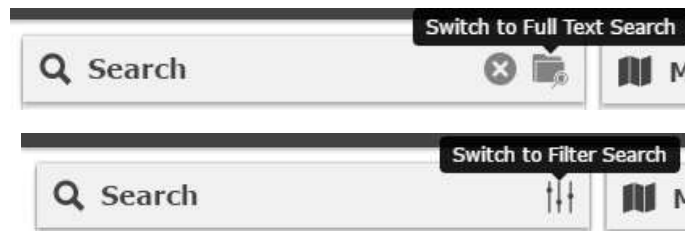
Page Layout

Upon accessing the Data Explorer system, you are presented with two panes: a Search pane and an interactive Map (GIS) pane. From the search pane, users can open a List Results pane that displays a summary list of the search results and a Details pane, which displays detailed information for selected records.



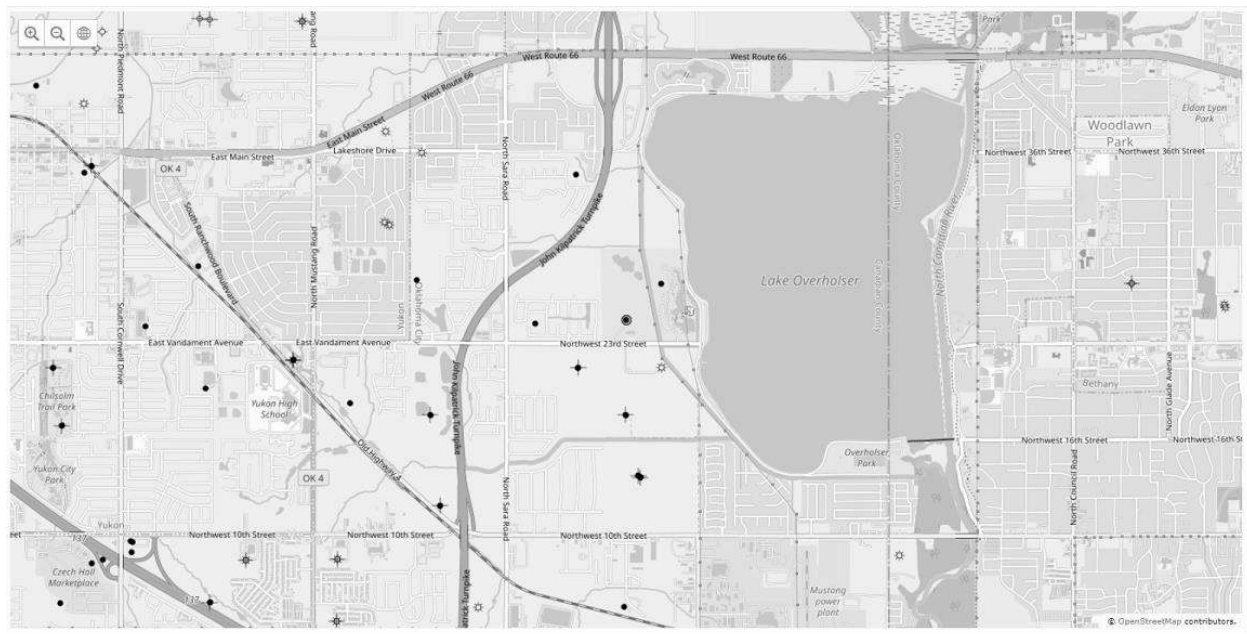
Search Pane

The search pane is comprised of a search engine with a filter search or full text search option. Upon successful return of records, the search pane will be populated with a list, organized in a tree view structure, of all records that met the search criteria.




Map Pane

The interactive map pane displays a map of data layers, such as wells, permits, and geographical borders. With the various tools, a user can zoom in and out of the map, select and identify features, control which data layers are displayed, and more. Additionally, when a record is selected in the [tree view](#), the corresponding feature is also selected in the map and the map automatically zooms to that feature.



List Results Pane

The list results pane displays a summary list of the search results.

When a Show In List  icon is selected in the [search](#) pane, all records returned for that search grouping are opened in a new browser tab, which can then be exported as a CSV file. Clicking a record's link from within the list results pane opens that record's [details](#) pane in a new browser tab.

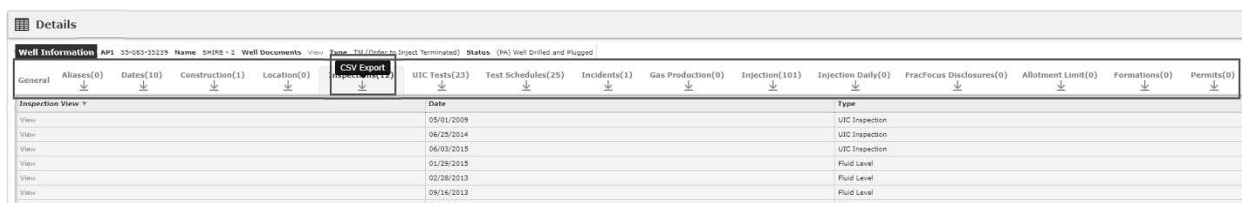
List Results													Well Information		
Well View	API	Well Name & Number	Operator View	Operator	Well Type	Well Status	Lease Name	County	Section	Townsh	Range	Range	Meridian		
View	35-007-20090	YATES 1	View	OTC/OCC NOT ASSIGNED	OIL	(PA) Well Drilled and Plugged	YATES	BEAVER	10	2	N	23	E	Cimarron	
View	35-007-20009	DISK YATES 1-14	View	OTC/OCC NOT ASSIGNED	OIL	(PA) Well Drilled and Plugged	DISK YATES	BEAVER	14	2	N	23	E	Cimarron	
View	35-007-20064	FORREST YATES 1-14	View	OTC/OCC NOT ASSIGNED	OIL	(PA) Well Drilled and Plugged	FORREST YATES	BEAVER	14	2	N	23	E	Cimarron	
View	35-007-20023	YATES LOCHART 1-19	View	KATO OPERATING COMPANY	OIL	(STPD) State Fund	YATES LOCHART	BEAVER	19	2	N	24	E	Cimarron	
View	35-007-20693	ODESSA YATES 1	View	SHEWAN/ODAH OIL CORPORATION	OIL	(PA) Well Drilled and Plugged	ODESSA YATES	BEAVER	10	2	N	23	E	Cimarron	
View	35-007-21411	YATES 1	View	NATURAL GAS ANADARKO CORP	GAS	(AC) Drilled Not Plugged	YATES	BEAVER	26	3	N	22	E	Cimarron	
View	35-007-21043	ODESSA YATES 1-14	View	OTC/OCC NOT ASSIGNED	OIL	(PA) Well Drilled and Plugged	ODESSA YATES	BEAVER	14	2	N	23	E	Cimarron	
View	35-007-21915	YATES 1	View	OTC/OCC NOT ASSIGNED	GAS	(PA) Well Drilled and Plugged	YATES	BEAVER	24	2	N	23	E	Cimarron	
View	35-007-22106	YATES 1-14	View	OTC/OCC NOT ASSIGNED	DRY HOLE	(PA) Well Drilled and Plugged	YATES	BEAVER	14	2	N	23	E	Cimarron	

Details Pane

The details pane lists detailed information about selected individual records.

When a specific record is selected in the [search](#) or [map](#) pane, the details of that record are displayed in the details pane in a new browser tab. Clicking another record's link from within the details pane opens that records details within the same browser tab.

- Click the various tab titles to scroll through the information in the details pane
- Tabs formatted as a grid can be exported as a CSV file



The screenshot shows a 'Details' pane for a well. At the top, there's a 'Well Information' header with fields like API, Name, and Status. Below this is a grid of tabs for different data categories: General, Aliases, Dates, Construction, Location, CSV Export, UIC Tests, Test Schedules, Incidents, Gas Production, Injection, Injection Daily, FracFocus Disclosures, Allotment Limit, Formations, and Permits. The 'Inspection View' tab is active, displaying a table with columns for Date and Type. The table lists several inspection events with dates ranging from 05/01/2009 to 09/15/2013 and types such as UIC Inspection and Fluid Level.

Date	Type
05/01/2009	UIC Inspection
06/25/2014	UIC Inspection
06/03/2015	UIC Inspection
01/29/2015	Fluid Level
02/28/2013	Fluid Level
09/15/2013	Fluid Level
07/27/2014	Fluid Level

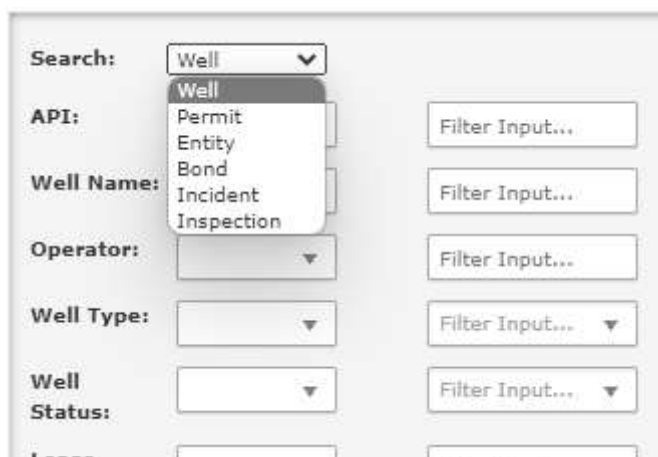
Searching the Data Explorer System

The Data Explorer system enables users to search for data related to wells and entities using two primary methods: a filter search option in which users can filter data using specific search criteria and a full text search in which users can search for records using any combination of search terms.

Filter Search

With the filter search, you can select specific database table fields, such as well class, well status, and/or operator name, by which to search and filter data. If searching by API Number, you must search without dashes – E.g., search for “3508335239”, instead of “35-083-35239”.

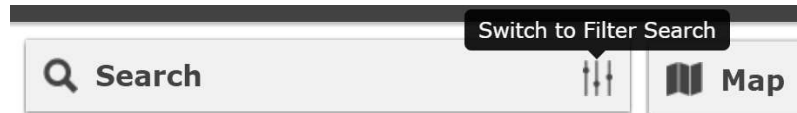
By default, the filter search option presents well-related filters. You can change the dataset to search by selecting another option in the Search dropdown box.



The screenshot shows a 'Filter Search' interface. On the left, there's a 'Search:' dropdown menu currently set to 'Well'. Below it are several filter fields: 'API:', 'Well Name:', 'Operator:', 'Well Type:', and 'Well Status:'. Each of these fields has a corresponding 'Filter Input...' button to its right. A dropdown menu is open for the 'Search:' field, showing options: 'Well', 'Permit', 'Entity', 'Bond', 'Incident', and 'Inspection'.

To run a filter search:

- If applicable, click the Switch to Filter Search icon to open the filter search



- In the dropdown box next to the chosen field, select the comparison method (e.g., contains, equals, greater than, etc.)
- In the text box, enter or select the value for your filter
- If the filter is a dropdown, you can add multiple values to your filter set by clicking back into the field and selecting an additional value
 - When you filter for multiple values for the same filter, the filters are run using an OR clause, not an AND clause. For example, if you run a search using the following filters, the Data Explorer system will return wells whose Well Type is OIL or OIL\GAS.

Search

Search: Well ▼

API: ▼ Filter Input...

Well Name: ▼ Filter Input...

Operator: ▼ Filter Input...

Well Type: = x ▼

OIL x

OIL\GAS x

Well Status: ▼ Filter Input...

Lease Name: ▼ Filter Input...

Location

County: ▼ Filter Input...

Section: ▼ Filter Input...

Township: ▼ Filter Input...

Township Dir: ▼ Filter Input...

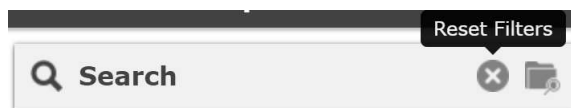
Range: ▼ Filter Input...

Range Dir: ▼ Filter Input...

- If multiple filters of different types are applied, the search will be ran using an AND clause. For example, if you run a search using the following filters, the Data Explorer system will return wells whose Well Type is 2R INJECTION and that is located in the County of Woods.

The screenshot shows a 'Search' window with various filter fields. The 'Well Type' field is set to '2R INJECTION' and the 'County' field is set to 'WOODS'. Both fields have an equals sign and an 'x' button next to them, indicating they are active filters. The 'Well Type' field is highlighted with a red box, and the 'County' field is also highlighted with a red box. Other fields include 'Search:', 'API:', 'Well Name:', 'Operator:', 'Well Status:', 'Lease Name:', 'Section:', 'Township:', 'Township Dir:', 'Range:', and 'Range Dir:', each with a dropdown menu and a 'Filter Input...' button.

- To clear a specific filter, click the field's "x" button
- To clear all filters, click the Reset Filters icon at the top of the pane



- Once all criteria is entered, click the Filter New Results button
 - The search pane will display a tree view of your results below the filters. You may have to vertically scroll down to see the results.

The screenshot shows a 'Search' window with the following elements:

- Search:** A dropdown menu set to 'Well'.
- API:** A dropdown menu with a 'Filter Input...' button next to it.
- Well Name:** A dropdown menu with a 'Filter Input...' button next to it.
- Operator:** A dropdown menu with a 'Filter Input...' button next to it.
- Well Type:** A dropdown menu with an equals sign and a close button, and a tag labeled '2R INJECTION' with a close button.
- Well Status:** A dropdown menu with a 'Filter Input...' button next to it.
- Lease Name:** A dropdown menu with a 'Filter Input...' button next to it.
- Location:** A section containing:
 - County:** A dropdown menu with an equals sign and a close button, and a tag labeled 'WOODS' with a close button.
 - Section:** A dropdown menu with a 'Filter Input...' button next to it.
 - Township:** A dropdown menu with a 'Filter Input...' button next to it.
 - Township Dir:** A dropdown menu with a 'Filter Input...' button next to it.
 - Range:** A dropdown menu with a 'Filter Input...' button next to it.
 - Range Dir:** A dropdown menu with a 'Filter Input...' button next to it.
- Summary:** A bar at the bottom showing a folder icon, 'Wells (11)', and a grid icon.

- To run another search and add the results to the previous filter results, apply the applicable filters and click the Add to Results button; this allows users to compile records using multiple filter sets in order to combine them into a single list results.

Search

Search: Well

API: Filter Input...

Well Name: Filter Input...

Operator: Filter Input...

Well Type: 2D COMM Filter Input...

Well Status: Filter Input...

Lease Name: Filter Input...

Location

County: ALFALFA Filter Input...

Section: Filter Input...

Township: Filter Input...

Township Dir: Filter Input...

Range: Filter Input...

Range Dir: Filter Input...

Wells (11÷5)

Add to Results Filter New Results

- To run a new search and replace the previous results; apply the applicable filters and click the Filter New Results button

Full Text Search

With a full text search, you can enter any of the following terms or combination of terms in the search text box to search the Data Explorer system.


- API Number (with or without dashes)
- Permit Number
- Well Name and Number
- Operator Name

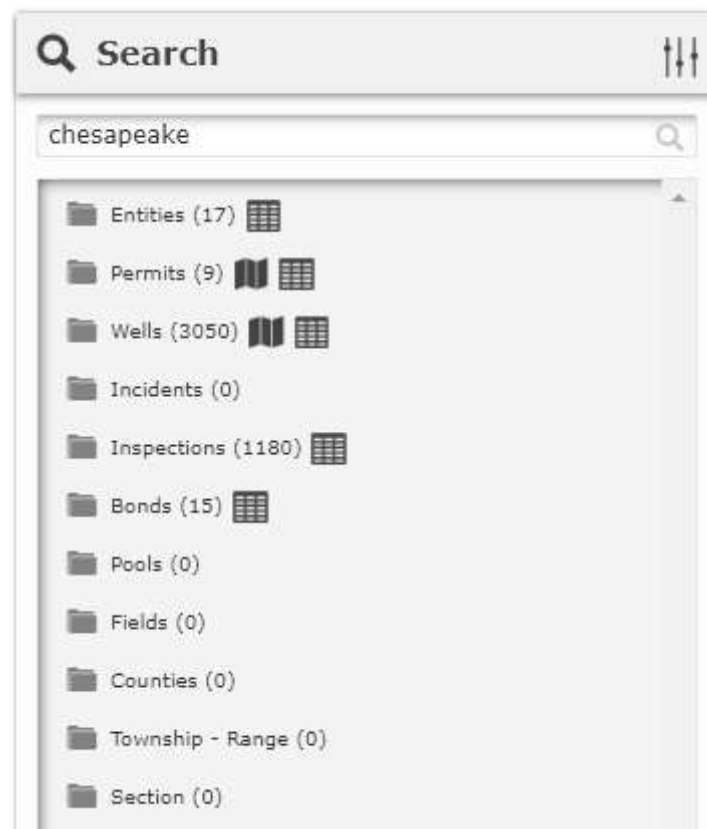
- Bond Number
- Guarantor Name
- Incident Number
- Formation Name

To run a full text search:

- If applicable, click the Switch to Full Text Search icon to switch to a full text search



- Enter a search term or phrase into the text box and click the <Enter> key or Search icon 



Location Searches

Data Explorer also includes the following location searches. These additional location searches return a list of wells within that geographical area.

- **Counties** (Full Text Search format: County name – E.g., “Woods”)
- **Township / Range**
 - Filter Search format: the Township and Range filters (along with their corresponding Direction filters) can be individually applied or combined – E.g.,

Location

County: Filter Input...

Section: Filter Input...

Township: [=] 1

Township Dir: [=] North

Range: Filter Input...

Range Dir: Filter Input...

Location

County: Filter Input...

Section: Filter Input...

Township: [=] 1

Township Dir: [=] North

Range: [=] 2

Range Dir: [=] East

- Full Text Search format: Township and Range cannot be individually applied; users must search by Township with Direction (space) Range with Direction – E.g., “1N 2E”

Search

1N 2E

- Entities (0)
- Permits (0)
- Wells (472)
- Incidents (21)
- Inspections (0)
- Bonds (0)
- Pools (0)
- Counties (0)
- Township / Range (1)
 - 1N 2E
- Section (0)

- **Section**

- Filter Search format: the Section filter can be individually applied or combined with the Township and Range filters – E.g.,

Location

County: Filter Input...

Section: 10

Township: Filter Input...

Township Dir: Filter Input...

Range: Filter Input...

Range Dir: Filter Input...

Location

County: Filter Input...

Section: 10

Township: 1

Township Dir: North

Range: 2

Range Dir: East

- Full Text Search format: Section cannot be individually searched; users must search by Township with Direction (space) Range with Direction (space) Section – E.g., “1N 2E 10”

Search

1N 2E 10

Entities (0)

Permits (querying...)

Wells (querying...)

Incidents (querying...)

Inspections (querying...)

Bonds (querying...)

Pools (0)

Counties (0)

Township / Range (0)

Section (1)

1N 2E 10

Understanding the Tree View

When a search is executed, the results are returned in a tree view. The total number of records returned for each branch is displayed at the end of the branch's label.

The Data Explorer system caps the number of records returned from a search result to 10,000 records – E.g.,

Search

Search:

API:

Well Name:

Operator:

Well Type:

Well Status:

Lease Name:

Location

County:

Section:

Township:

Township Dir:

Range:

Range Dir:

Wells (10000)

- Clicking a branch expands the node to display the search result records. Clicking the branch again collapses the node.
- Clicking the Show In List icon opens a summary list of the search results for that branch in a new browser tab, which can then be exported as a CSV file.
- Clicking the Show In Map icon highlights the search results for that branch in the [map](#) pane.

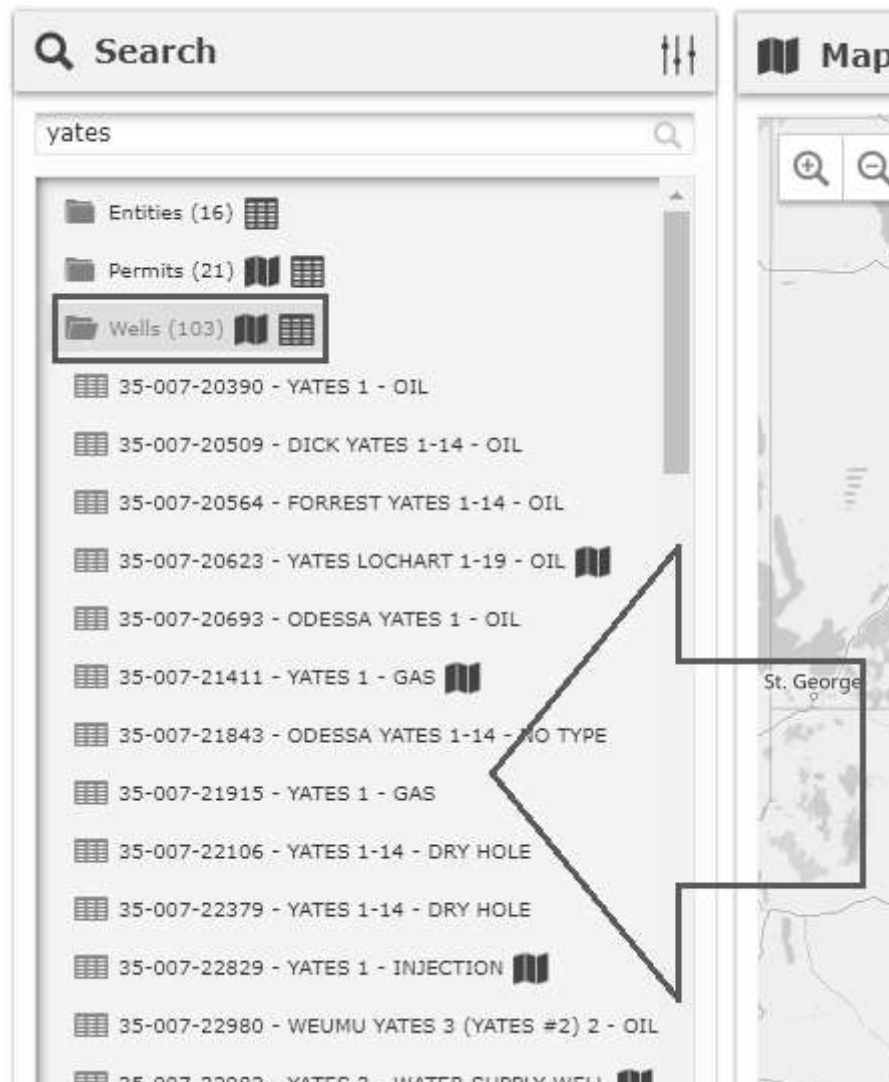
To view a specific record's details, either expand the branch to choose a specific record, or click the record's link in the [list results](#) pane to open the record's [details](#) pane in a new browser tab.

Expand Branch


Once a [search](#) is executed and the tree view is populated:


- Click the folder icon next to any branch to expand it (click the folder icon next to any expanded branch to collapse it).

A list of available records is displayed below the branch in the [search](#) pane.



View/Export List Results

- Click the Show In List  icon next to applicable branches to open the search result's [list results](#) pane in a new browser tab.

This list can be exported as a CSV file by clicking the CSV Export icon  .

Oklahoma Corporation Commission (OCC) Division of

Search

yates


- Entities (16)
- Permits (21)
- Wells (103)
- Incidents (2)
- Inspections (97) [Show In List](#)
- Bonds (1)
- Pools (0)

Map

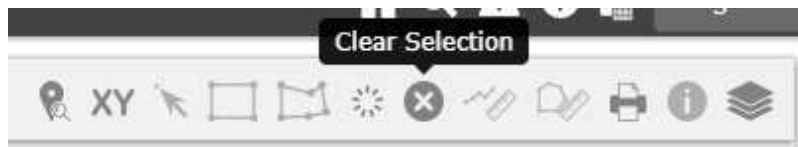
List Results

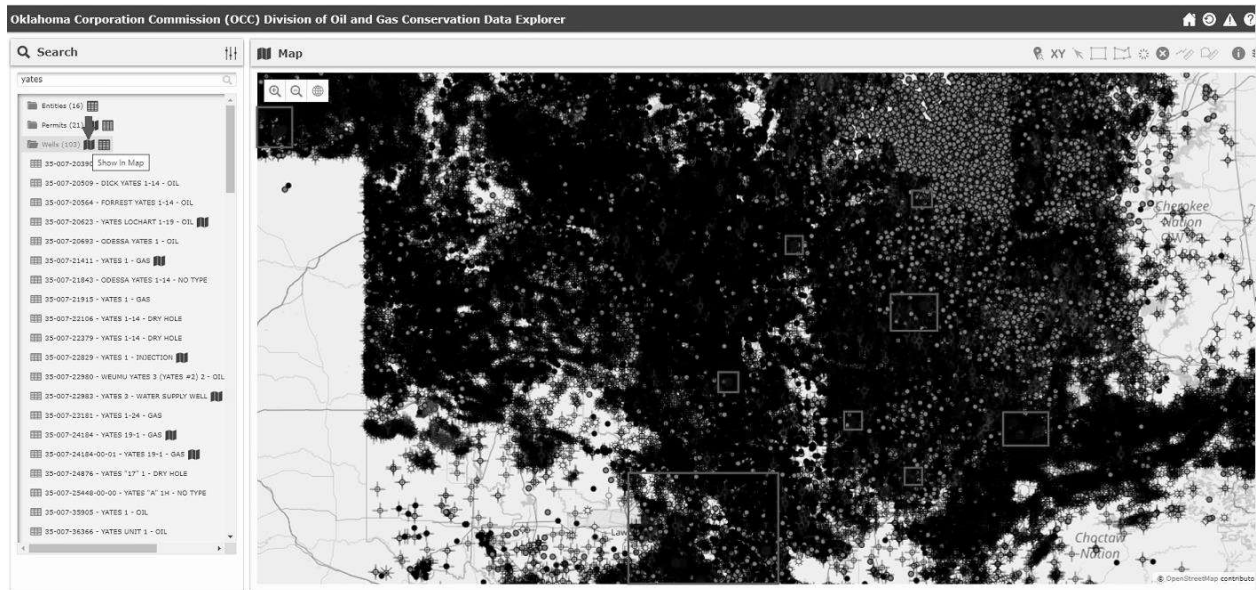
Inspection View	Well View	API	Well Name & Number	Operator View	Operator	Inspection Date	Inspection Type	Inspection Status	Inspector
View	View	25-063-23702	YATES- 2-13	View	BRJAR OIL & GAS - OKLAHOMA 1	06/20/2012	UIC Inspection	In compliance	RANDY WILLIAMS
View	View	25-063-23765	YATES- 3-13	View	BRJAR OIL & GAS - OKLAHOMA 1	06/20/2012	UIC Inspection	In compliance	RANDY WILLIAMS
View	View	25-063-23681	YATES- 1-13	View	BRJAR OIL & GAS - OKLAHOMA 1	06/20/2012	UIC Inspection	In compliance	RANDY WILLIAMS
View	View	25-007-20623	YATES LOCHART- 1-19	View	KATO OPERATING COMPANY	06/27/2011			
View	View	25-007-21411	YATES- 1	View	NATURAL GAS ANADARKO CORP	06/21/2011			
View	View	25-007-23829	YATES- 1	View	EPRESS OIL COMPANY INC	06/07/2011			
View	View	25-007-22980	WELLS YATES 3 (YATES #2)- 2	View	EPRESS OIL COMPANY INC	06/07/2011			

Highlight Records in Map

- Click the Show In Map  icon next to applicable branches to highlight the search results in the [map](#) pane.

This highlight can be cleared by clicking the Clear Selection icon in the map [toolbar](#).



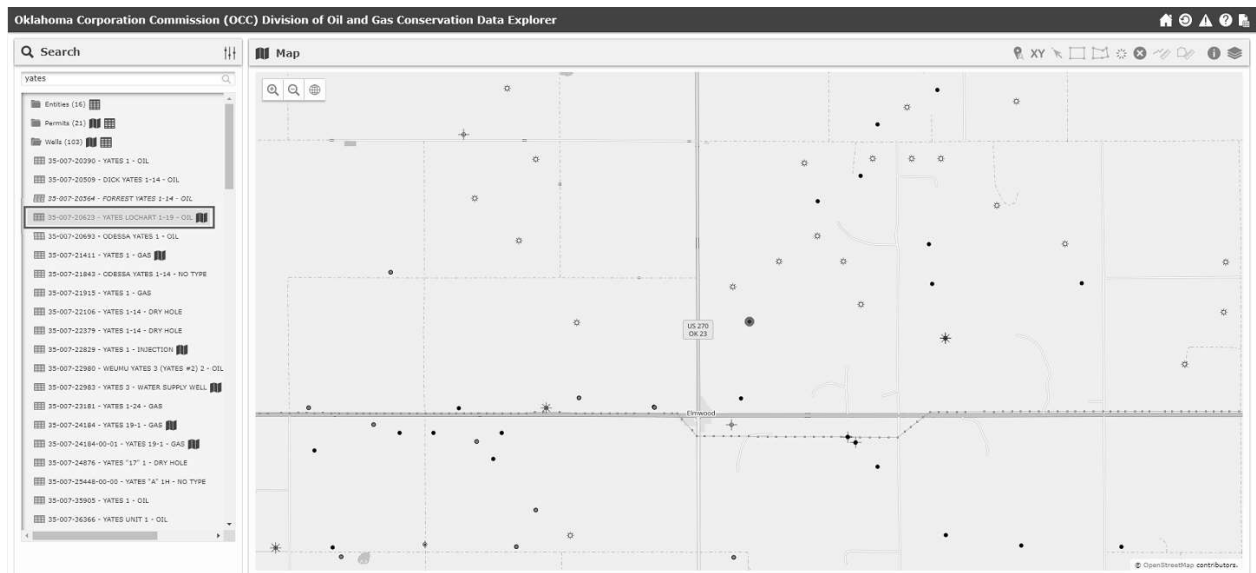


Select Record & View Details

To view detailed information about a record:

- Expand a branch in the tree view
- Single click a record

The details pane for the selected record opens in a new browser tab and is populated with detailed information about the selected item and, if applicable, the map zooms to and highlights the feature representing the selected item.



Oklahoma Corporation Commission (OCC) Division of Oil and Gas Conservation Data Explorer														
Details														
Well Information API: 25-007-20623 Name: YATES LOCKHART 1-19 Well Documents View Type: OIL Status: (STPD) State Fund:														
General	Aliases(0)	Dates(3)	Construction(0)	Location(1)	Inspections(3)	UIC Tests(0)	Test Schedules(0)	Incidents(1)	Gas Production(0)	Injection(0)	Injection Daily(0)	FracFocus Disclosures(0)	FracFocus Disclosures - Purposes and Ingredients (0)	Allotment Limit(0)
Current Operator	KATO OPERATING COMPANY			Boat?	No									
Comingling Down	No	Comingling Surface			No									
Well Transfer Blocked				Total Depth										

View/Export Grid Results

Click the CSV Export icon  next to applicable tabs to export the grid as a CSV file.

Working with the Interactive Map (GIS)

The interactive map component, known as a Geographic Information System (GIS), enables you to visualize and analyze geographic data pertaining to regulatory activities. With the GIS, you can zoom in and out of the map, select features, and obtain information (attribute values) about features.

GIS Overview


A GIS, short for Geographic Information System, is a collection of hardware, software, and geographic and non-spatial data with which individuals interact to integrate, visualize, and analyze geographic data.


A GIS organizes data into layers. A layer is a visual representation of geographic data in a digital map environment. Typically, a single layer is defined by some sort of aggregation of features that share some type of attribute. For instance, all features representing roads may be aggregated into a single layer, while all features representing oil wells may be aggregated together in another layer. As such, a layer is roughly analogous to a legend item in a traditional paper map. However, a GIS enables users to control which layers are displayed at any particular time. Through the process of toggling layers on and off, a user may be able to discover geographic associations that were not otherwise readily apparent.


The true power of a GIS, though, lies in its ability to do analysis. All geographic features in a GIS are linked to a database by a unique identifier. By selecting a feature, a user can bring up detailed information about each geographic dataset. Additionally, through the process of spatial queries and/or visualization, a user can begin to find specific patterns in their geographic data. For instance, one can determine whether there is a specific geological formation in which a particular type of well regularly occurs or whether certain oil and gas activity occurs in the vicinity of environmentally sensitive areas.


Toolbar

The GIS consists of a number of tools which enable you to better interact with the map. The following tools are included in the GIS toolbar:


Zoom In / Zoom Out


Zoom Full Extent


Search by Address

 Center by X, Y or Latitude, Longitude

 Select Wells by Click

 Select Wells by Rectangle

 Select Wells by Polygon

 Buffer Selection

 Clear Selection

 Measure Distance

 Measure Area

 Show/Hide Tooltip (default enabled)

 Layers

The specific functionality and how to use each is discussed in turn in the proceeding sections.


Navigating the Map

Unlike a paper map, a GIS enables a user to change the scale of display in the map, as well as change the area of focus. The following tools are designed for navigation purposes:

To move the map:


- Single click in the map, hold the left mouse button down, and drag the map to the area in which you wish to view
- Release the mouse button

To zoom in:

- Scroll up using the mouse scroll-wheel or
- Select the Zoom In tool 
- The map will zoom to the selected area.

To zoom out:


- Scroll down using the mouse scroll-wheel or

- Click the Zoom Out tool 
- The map will automatically zoom out.

To zoom to the full extent of the data (original extent):

- Click the Zoom Full Extent icon 
- The map will return to the full extent (original extent) of the data.

To zoom to specific X,Y coordinates (e.g., latitude and longitude):

- Click the Center by X,Y or Latitude, Longitude icon 
- In the dialog box, select a coordinate system to use
- Enter the coordinates in the text boxes
- Click the Go button
- The map will re-center based on the specified coordinates.


To box zoom:

- If necessary, disable selection or measurement tools
- Hold down the <Shift> key and holding the left mouse button down, drag a box around the features you wish to zoom to
- Release the mouse button
- The map will zoom to the selected area.


Select and Query Features

There are three primary methods to find out information about features.


To select a single feature:

- If necessary, zoom into an area of the map
- Select the Select Wells by Click (view details) tool 
- Click on a designated feature in the map
- Add to your selection set by holding down the <Ctrl> key and clicking on an additional feature

To select multiple features:


- If necessary, zoom into an area of the map
- Select the Select Wells by Rectangle tool 
- Holding the left mouse button down, drag a box around the features you wish to select
- Release the mouse button
- Add to your selection set by holding down the <Ctrl> key and dragging another box around the features you wish to add

Or


- If necessary, zoom into an area of the map
- Select the Select Wells by Polygon tool 

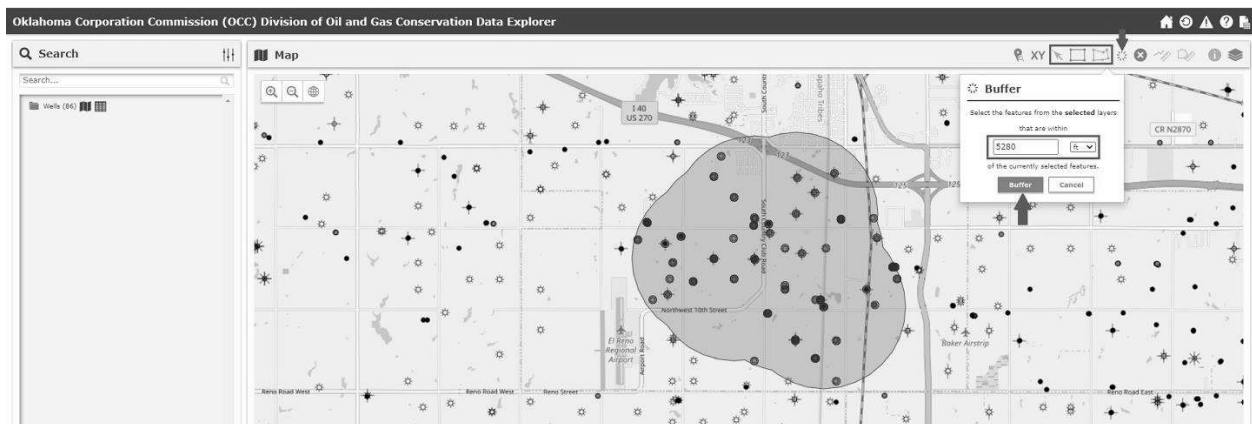
- Add vertices around the features you wish to select by single-clicking the left mouse button
- Double-click the left mouse button to end your drawing
- Add to your selection set by holding down the <Ctrl> key and dragging another box around the features you wish to add

To query features by an address:

- Click the Search by Address icon 
- In the dialog box, enter your search parameters
- Click the Go button
- The map will re-center based on the specified address and a buffer will be applied using the specified distance.

To buffer a selection:



- Select feature(s) in the map
- Click the Buffer Selection icon 
- In the dialog box, enter your buffer parameters
- Click the Buffer button
- A buffer will be applied to the selected feature(s) using the specified distance.



To clear a selection:

- Click the Clear Selection icon 

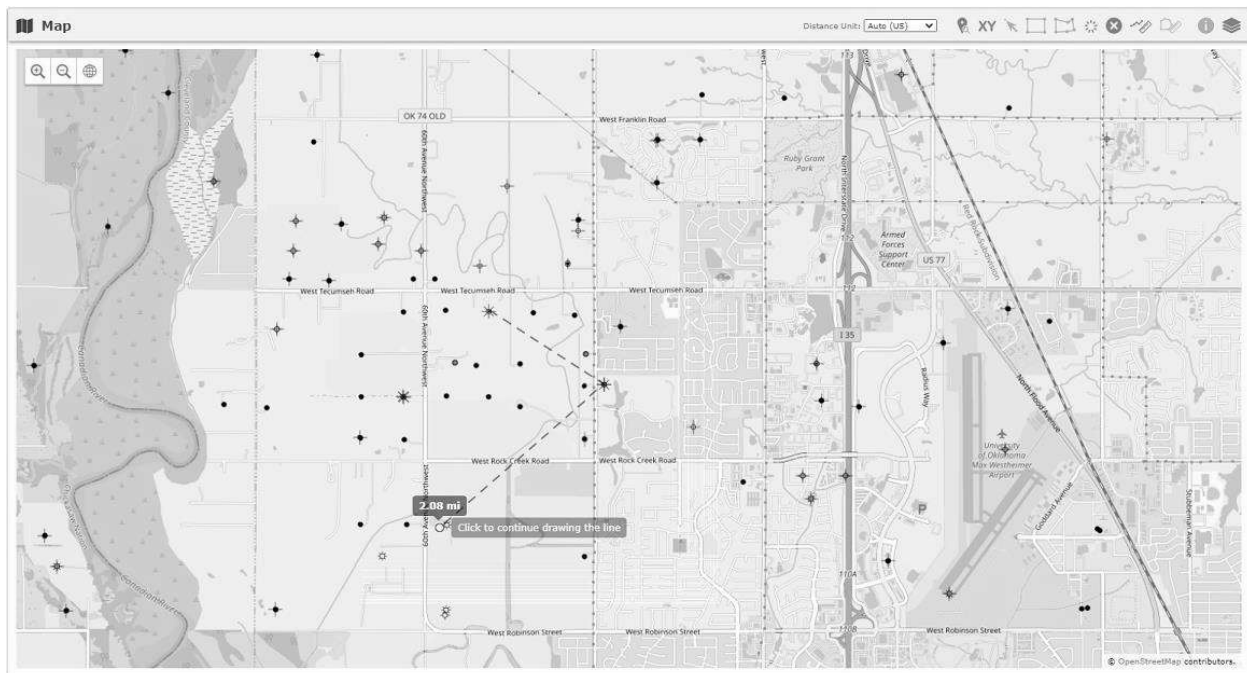
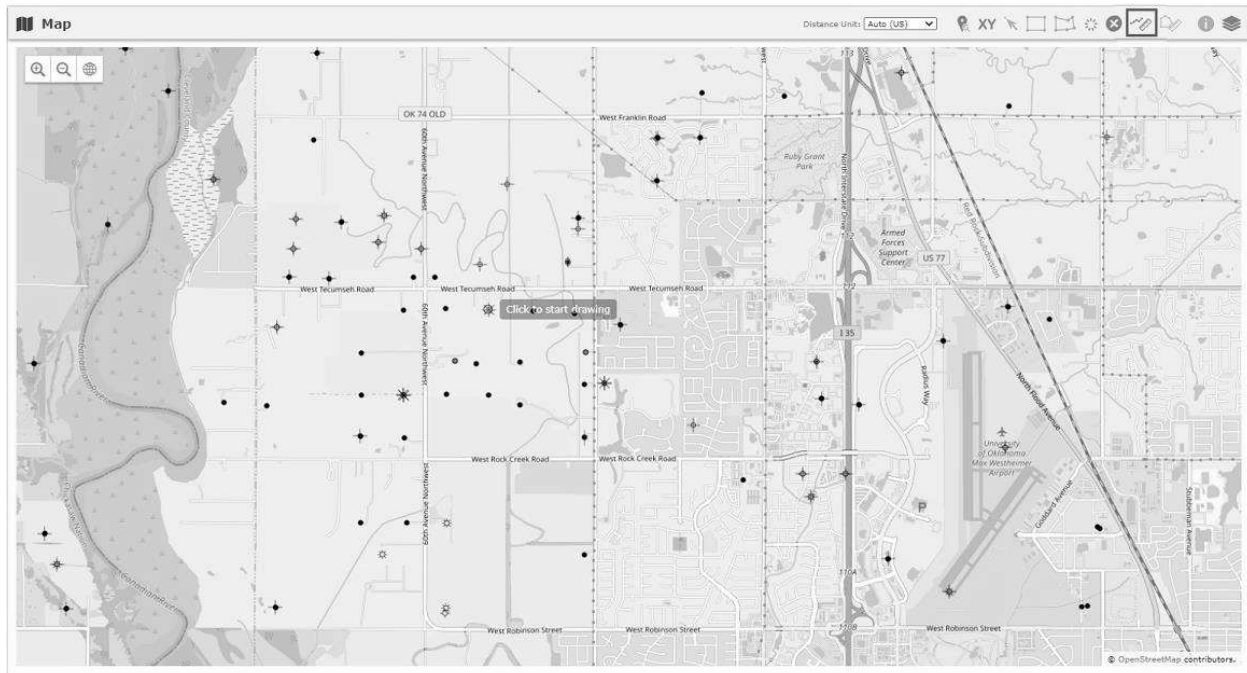
To measure a distance or area:

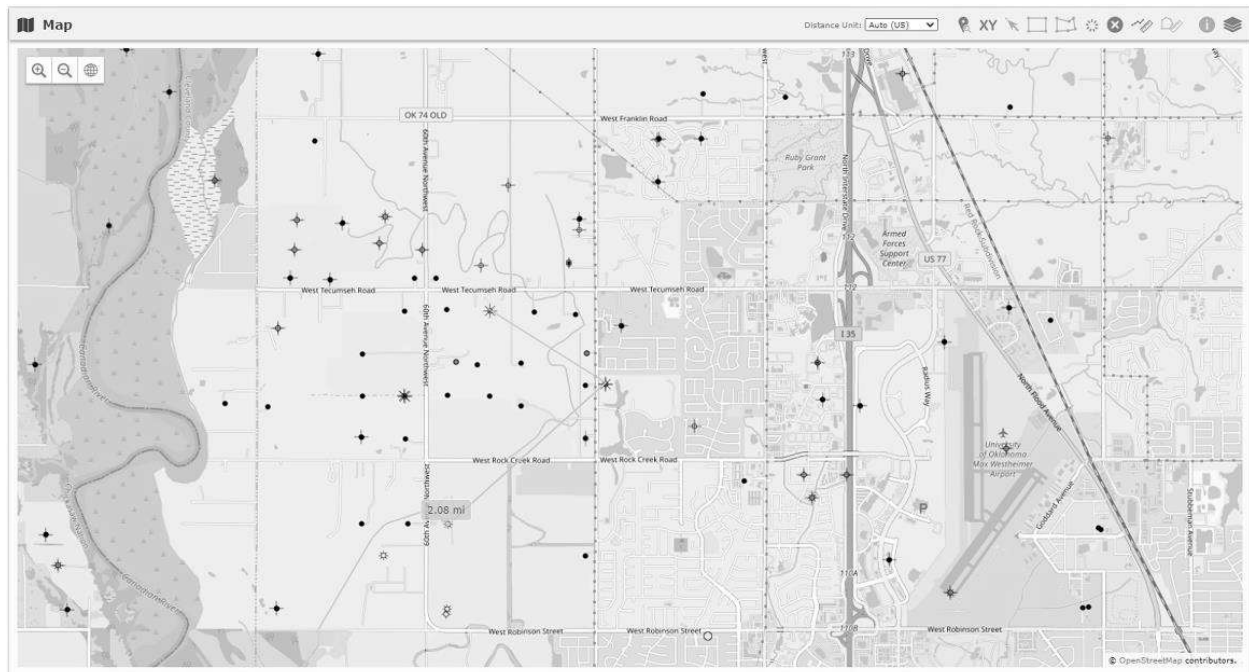
- Click the Measure Distance icon  or Measure Area icon 
- If necessary, change the Distance Unit



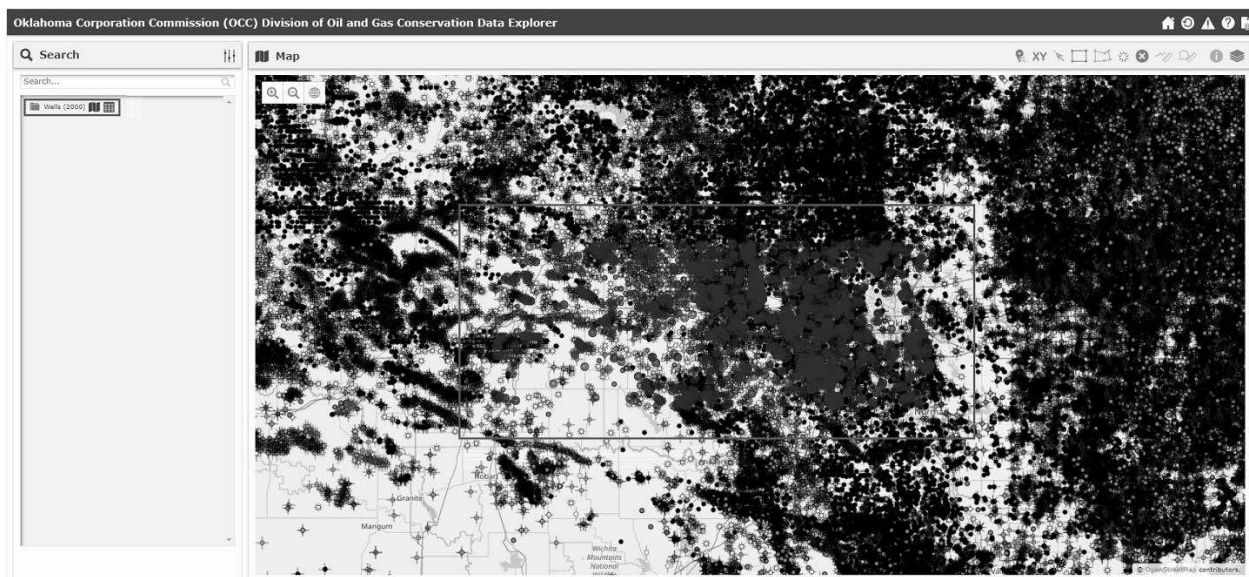
- If necessary, zoom into an area of the map



- Click the area in the map you want to start your measurement from
- Drag your mouse to the point you want to measure the distance to
- Add to your measurement by single-clicking the areas you wish to add
- Double-click the left mouse button to end your measurement





Features selected in the map are added to the [tree view](#) in the [search](#) pane. The Data Explorer system caps the number of records selected from the map to 2,000 records – E.g.,




- Click the folder icon next to any branch to expand it
- Click the Show In Map icon  to highlight the search results for that branch in the [map](#) pane
- Click the Show In List icon  to open the search result's [list results](#) pane in a new browser tab



To view a specific record's details, either expand the branch to choose a specific record, or click the record's link in the [list results](#) pane to open the record's [details](#) pane in a new browser tab.

To show details about a feature:

- If necessary, zoom into an area of the map
- If necessary, select the Show/Hide Tooltip icon to enable the tool 
- Hover your mouse over a designated feature in the map to display a link to the feature's details pane
- Click the link



The [details](#) pane for the selected feature opens in a new browser tab and is populated with detailed information about the selected item, but the feature is not added to the [tree view](#) (i.e., feature is not considered selected).


Layer Controls

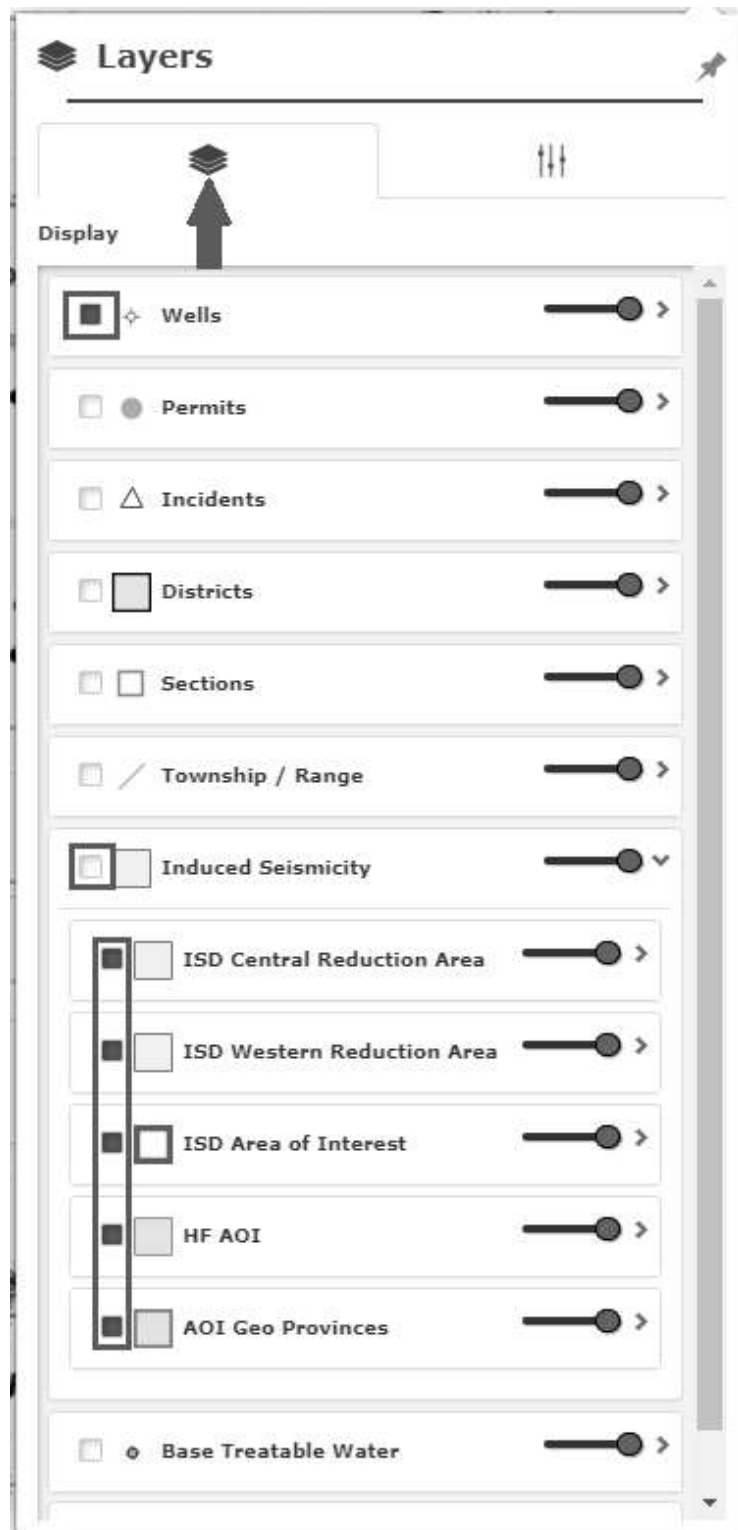
The GIS includes tools for displaying the layer legends, applying visible layers, and applying selectable layers.

Visible indicates whether the layer is currently displayed in the map. For each non-base map layer, there is a checkbox that controls the layer's visibility. For layers with child-layers (e.g., Induced Seismicity), there is a parent checkbox that controls the visibility for all layers for that grouping; users can also toggle on and off the visibility for each child-layer.

To view the layer legends and apply a visible layer:



- Click the Layers icon 
 - To toggle the Layers menu's continual visibility, click the Pin/Unpin icon 

- Click on the Visible tab 
- Click the appropriate checkbox to toggle the layer's visibility
- Click the appropriate checkbox to toggle between base map layers



Selectable indicates whether or not features in the layer can be selected in the map. For each non-base map layer, there is a checkbox that controls the layer's selectability. For layers with child-layers (e.g., Base Treatable Water), there is a parent checkbox that controls the selectability for all layers for that grouping; users can also toggle on and off the selectability for each child-layer.

To apply a selectable layer:

- Click the Layers icon 
- Click on the Selectable tab 
- Click the appropriate checkbox to toggle the layer's selectability

