# Michigan Data Portal

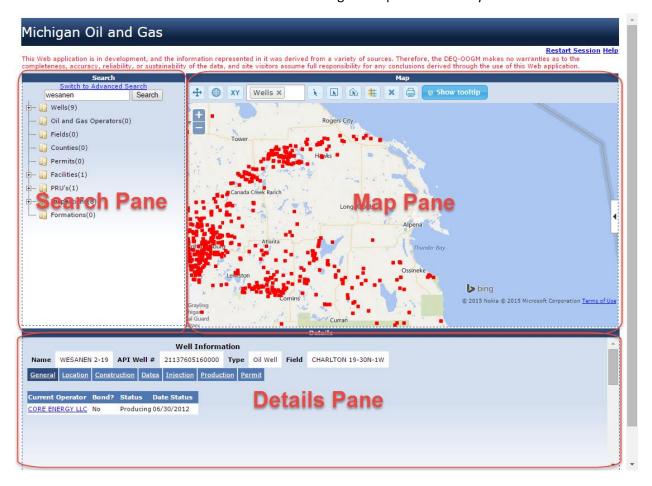
### Overview

The Data Portal web application gives users access to oil and gas related data through a search and map based interface. This interface features simple and advanced search features, along with the ability to view data at multiple levels (bulk or detailed).

## **Using Data Portal**

#### Layout

Data Portal is divided into three main frames consisting of unique functionality.

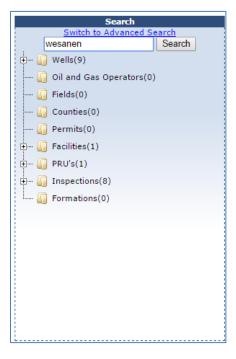


The search frame houses the Simple Search, Advanced Search and Search Results (Folders & Records).

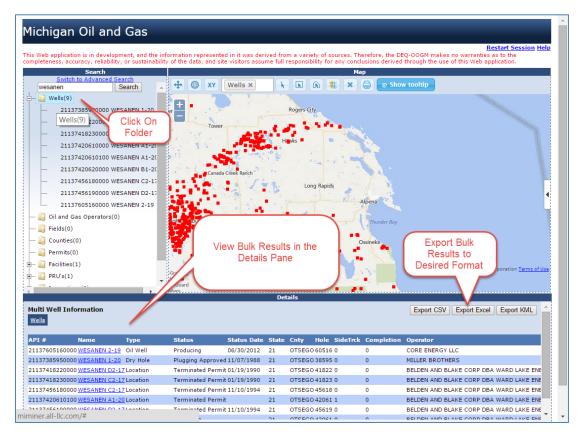
#### Search Frame

A Simple Search is completed by entering your keyword or parameter in the box and selecting

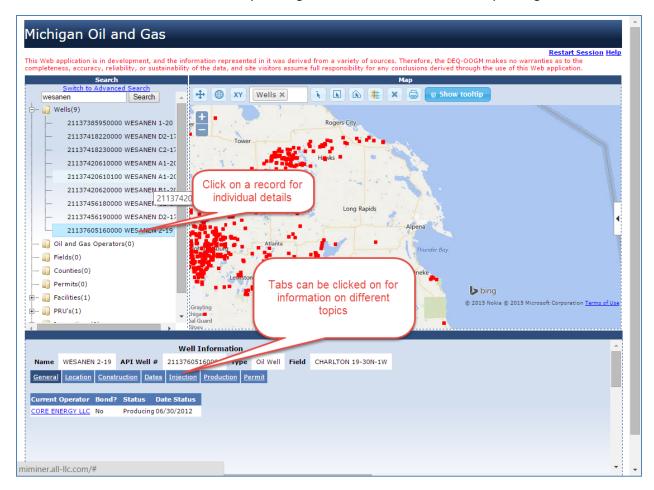
search.



Bulk results can be viewed by clicking on the folder. The Details Frame will allow you to view your results and export them, if desired.



Detailed information can be accessed by clicking on an individual record after expanding the folder.



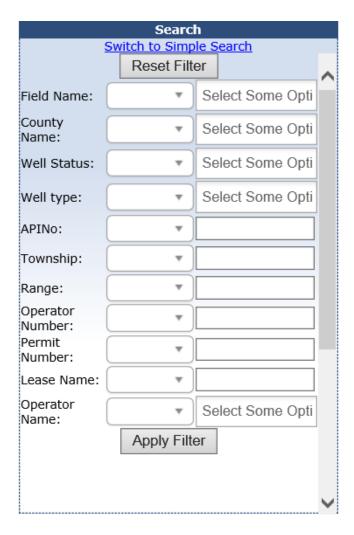
Use the "Tabs" in the Detail Frame to view specifics on the selected record.

#### **Advanced Search**

The Advanced Search offers a wide range of search capabilities, including dropdown lists for filter options such as field, county, and well status. To turn on the Advanced Search, select "Switch to Advanced Search" in the Search frame.



#### **Advanced Search offers the following options:**



Enter search criteria in the right column.

The "Select Some Option" fields contain a drop-down list of options to choose from that appear when you select that field.

After entering the desired search requirements, scroll down and select the Apply Filter button.

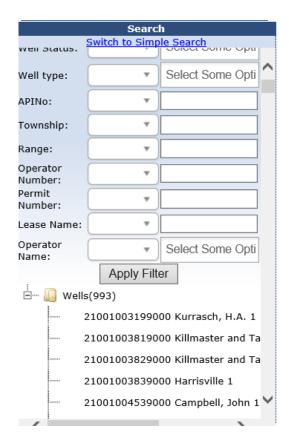
You can select multiple

items in a dropdown by clicking in the box again after making your selection; or by holding the Ctrl key while selecting choices in the dropdown Search Switch to Simple Search Reset Filter Field Name: Select Some Opti ALCONA × ALGER × County × Name: HOUGHTON × **ALLEGAN** Well Status: ALPENA Well type: ANTRIM APINo: ARENAC ₩ Township: BARAGA Range: **BARRY** Operator ₩ BAY Number: Permit BENZIE Number: BERRIEN Lease Name: Select Some Opti Operator Name:

Advanced Search results display in the same fashion as simple search, grouped by record category.

Clicking on folders will show a bulk display of records in the details frame, which users can export. Clicking on records will show that record's information in the details frame.

Using the Advanced search, users can input a wide array of criteria to focus the results in on a target information set. At this point in time, the Advanced search only applies to the "Wells" record category.



#### Hyperlinks

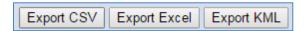
Hyperlinks can be picked out as blue and underlined text. Users will find hyperlinks scattered throughout the Data Portal interface (and in some exported files). Hyperlinks are used in the interface to allow users to quickly navigate to related records.



If following hyperlinks, remember that there isn't always a "Back" button. However, the records users go to will often have links back to the original record users came from.

#### Data Export

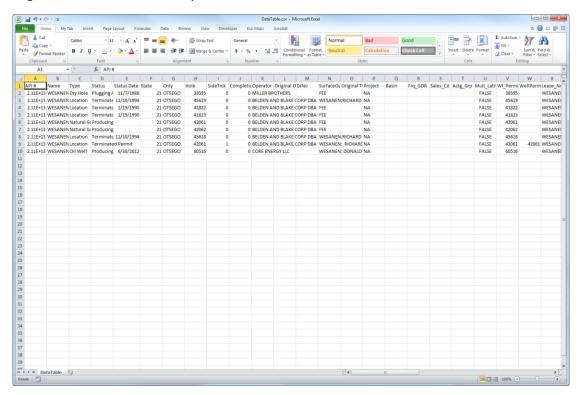
As noted before, when looking at bulk record sets (accomplished by clicking on 4), users have the option to export the data to three common data formats.



#### **CSV**

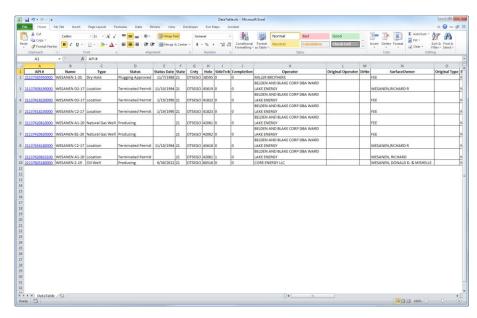
Comma Separated Value files, or CSV, are a long-standing and commonly used file format that can be opened in text editors, spreadsheet programs (like Excel) and database programs. CSV files are simple and compact.

The image below shows a CSV file opened in Excel.



#### Excel

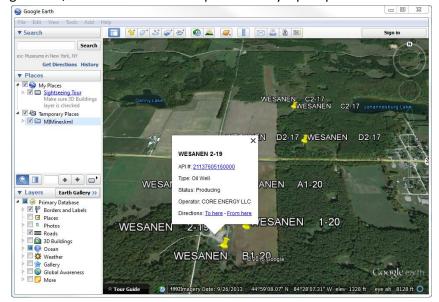
The Microsoft Excel format comes with a few more features. The data contained are the same as the CSVfile; however, the XLS file is formatted differently and the API number is a hyperlink to that record in Data Portal



**Excel File Export 1** 

#### **KML**

KML stands for Keyhole Markup Language. It is a file popularized by Google and their product Google Earth. If you have Google Earth or one of several other GIS information viewer applications you may be able to open the KML. This file provides that data you downloaded placed on a map (**for Well Data Only**). In Google Earth, the locations will be represented by a pushpin.



Users can click on the pushpin in Google Earth to get a pop-up that has basic information relating to that item. Located in that pop-up is a hyperlink that can take users to the selected record in the Data Portal web application.

#### Using the Map

While Data Portal's most powerful features are related to its ability to query and display data, the map is a useful tool for geographical searches and selections.

At its simplest form, users can navigate the map to browse where wells are. Users will discover that hovering over a well location displays a tooltip (see Getting Well Information below). Currently, Data Portal is only able to display well locations.

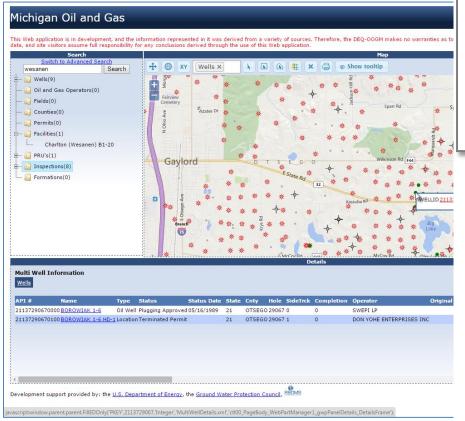
#### Map Menu Legend

- 4
- **Recenter Map** Use to push and pull around the map using the cursor. Double-clicking on a location centers the map on that location.
- **Zoom to Full Extent** Zooms all the way out so users can see all of the mapped well features in Michigan.
- Center by X, Y or Latitude, Longitude Allows users to type in coordinates on which they want the map to center.
- **Select by Point** Select one feature at a time and have that features information display in the Details Frame.
- **Select by Rectangle** Draw a box around an area of interest and have all of the well features in that box populate in the Details Frame.
- **Buffer Selection** Draw a radius around all selected features and select all of the features within that radius. These features will then be listed in the Details Frame.
- Clear Map Selection Removes the selection from the currently selected features.
- **Print Map** Provides a dialogue that allows users to create printed maps based on their current map view.
- Show tooltip Toggles whether tooltips are displayed or not when a user hovers over a feature.

#### **Getting Well Information**

display in the Details Frame.

Users can carefully move their cursor over the tooltip and click on the hyperlink to view more information about that well in the Details Frame.



Because the tooltip is only active when hovering over a well, users may find it difficult to select the hyperlink from the tooltip. If this is the case, go to the toolbar at the top and click on the location. This will allow users to simply click on a well location and that location's information will

Show tooltip

Show tooltip

**Tooltips are OFF** 

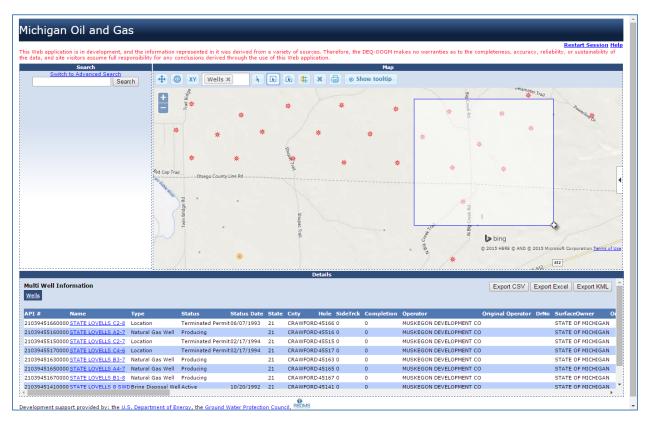
Tooltips are ON

If users find tooltips difficult to use and want to turn them off, tooltips may be toggled by clicking on the Show tooltip button.

#### Select by Rectangle

The select by rectangle feature allows users to select multiple wells and see their information in the Details Frame.

Users can select by rectangle by clicking on the button and then clicking and holding the left mouse button while dragging. Once a user has create a box that encompasses the desired wells, releasing the box will create the selection.



Selected wells will be highlighted (though Internet Explorer sometimes only flashes the highlight after first selecting).

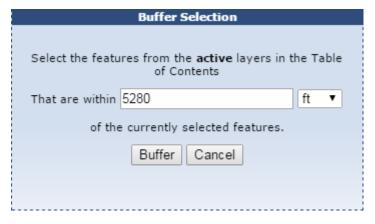
Wells selected on the map will then show up in the list in the Details Frame. This function can be used to export well information for groups of wells a user may be interested in.



#### **Buffer Selection**

The buffer selection tool allows users to select all well features within a given radius of the selected feature. To use this tool a user must first use the Select by Point or Rectangle tool to make a selection. After making a selection simply click the >> button. Then the 'Buffer Selection' prompt will be

displayed.



Users can then choose a radius and select "Buffer". The map will now have an expanded selection and show the buffered area.

