

THE abbreviated, abridged, abstracted, compressed, concise, condensed, consolidated, culled, decanted, distilled, edited, excerpted, extracted, gleaned, short, succinct, summarized, terse, weeded, winnowed,

GeoWebFace

Brief Guide

Contents

What is the GeoWebFace?	1
GeoWebFace Basics	1
The GeoWebFace Display	1
A. Web Browser	1
B. Top Banner	2
C. Left Panel	2
D. Map Area	2
E. Bottom Banner	2
GeoWebFace - Left Panel	2
Layers Tool tab	2
Map Tools tab	2
Map Tools tab > Quick Zoom	2
Map Tools tab > Identify	2
Map Tools tab > Select	2
Map Tools tab > Bookmark	2
Data Search tab	3
Map Navigation	3
Background Maps	3
Label Wells	3
Layers Tool tab > Major Categories	3
Wish List / Future Layers	3
GWF Map Results tab	3
GeoWebFace Results tab	3
GeoWebFace FTP Site	4
Questions? / Contact	4
GeoWebFace Links	4

Questions? Comments! Corrections Additions
 Email: DEQ-GeoWebFace@michigan.gov

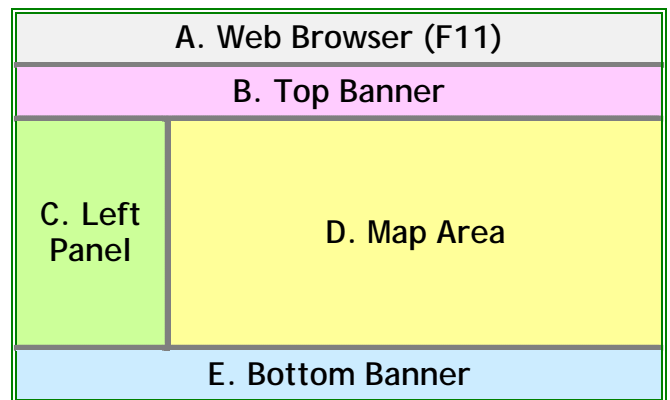
What is the GeoWebFace?

- The GeoWebFace is a work in progress.
- The GeoWebFace is an internet mapping and data access application.
- The GeoWebFace allows users to view Michigan oil and gas, mining and geological data in an online mapping environment.
- The GeoWebFace allows users to download oil and gas datasets such as Driller's Logs, Permit Well Files, and RasterLogs for selected wells or by the county.
- The GeoWebFace is focused primarily on Michigan oil and gas well data, thus some of the functionality for tools such as Identify and Labeling only work on the oil and gas well locations.
- We welcome your questions, comments, suggestions and improvements.

GeoWebFace Basics

- You can select a **Background map** from:
 - ① Street map,
 - ② Aerial Photos or
 - ③ Topographic map.
- You can select layers to see relationships between layers.
- You can make custom maps and send a bookmark to colleague so they can view same map.
- You can access basic GIS functionality.
- You can use it as a GIS search tool.
- You can use it as a Text search tool.

The GeoWebFace Display



The GeoWebFace display is divided into five areas:

A. Web Browser

The uppermost display area is occupied by various web browser elements. These can be hidden by pressing the F11 key. To bring the web browser components back (especially after you are done with the GeoWebFace) press the F11 key again.

B. Top Banner

The next banner from the top has information about the Department of Environmental Quality. It can be opened and closed by selecting the gray bar over the GeoWebFace Results tab.

C. Left Panel

The 'Left Panel' is where many of the map interface controls are located. It can be opened and closed by selecting the vertical gray bar.

D. Map Area

This is where the results of the options that you have chosen are displayed.

E. Bottom Banner

The bottom panel displays links to selected web sites. It can be opened and closed by selecting the gray bar above all of the links at the bottom of the screen.

GeoWebFace - Left Panel

Three main tabs are used to display and manipulate data on the map. These are

- ① Layers Tool tab
- ② Map Tools tab and
- ③ Data Search tab

Layers Tool tab

The Layers Tool tab allows you to select which of over 90 layers will be displayed on the map. You can also change the transparency on layers and to display a legend.

Map Tools tab

Selecting these options will open additional dialog boxes with additional options to enter information

- ① Quick Zoom
- ② Identify
- ③ Select
- ④ Buffer
- ⑤ Measure
- ⑥ Bookmark

Map Tools tab > Quick Zoom

Quick Zoom allows you to zoom to specific locations on the Map. Locations can be found by entering information about:

- Well
- Place
- Intersection

- Coordinate (latitude & Longitude)
- Town / Range /Section
- County

Map Tools tab > Identify

The Identify tool displays general information for a single oil and gas well bottom hole location or the latitude and longitude of a point not on a well.

- To use the identify tool, zoom or navigate to an area of interest; turn on the Well Type-Bottom Hole Locations or Bottom Hole Locations-Single Symbol under the Layers Tool tab.
- Under the Map Tools tab, click the Identify tool, then click on a well bottom hole location.
- The result of an Identify displays a summary table.
- To get additional data click on the GeoWebFace Results tab.
- Identify Tool only works on oil and gas well bottom hole locations or can be used to find the latitude and longitude of a point.

If you click on a point that is not on a on an oil and gas location, the Identify Tool will display the ❖ latitude and longitude, ❖ County name, ❖ Township name, and ❖ TN, RN, SEC for that point.

Map Tools tab > Select

- The Select Tool allows you to select one or more oil and gas well bottom hole locations from the map by drawing a polygon outline or a bounding box.
- To use the Select Tool, zoom or navigate to an area of interest; turn on the Well Type-Bottom Hole Locations or Bottom Hole Locations-Single Symbol under the Layers Tool tab.
- Under the Map Tools tab, click the main Select Tool, then click on one of the Select Tools, then draw a polygon or bounding box to select the oil and gas wells bottom hole locations of interest, then click on the Select button below.
- The selected wells will be displayed in the GeoWebFace Results page.
- Click on the GeoWebFace Map to view to selected wells on the map.

Map Tools tab > Bookmark

- Allows you to save your map for future use.
- Turn on layers and zoom into area of interest.
- Under Map Tools Tab, click the Bookmark icon.
- Copy and paste the resulting URL into the body of an email message.

- Send an email with the link in the body of the message. If they click on the link, they will see the map you made. Due to differences in systems, some differences might occur.

Data Search tab

- Use text entry to selection criteria.
- Useful if you know permit number, API number, well name, company name, field name or PRU.
- Clear previous data searches before beginning another search.

Map Navigation

There are many different ways to move about the map.

Background Maps

- Street view displays a street map with lakes, waterways, and political boundaries. This is the default background map.
- 2005 or 2009 Aerial view icon displays the NAIP (National Agriculture Imagery Program) aerial mosaic.
- Hi-Res Aerial view icon displays aerial imagery in the highest resolution available for the area. Coverage varies across the state.
- TOPO icon displays the USGS 1:24,000 topographic quadrangle maps of the area.

Label Wells

- Label Wells provides a list of methods of labeling the oil and gas wells in the Map Area.
- The default for Label Wells is No Label.

Layers Tool tab > Major Categories

- Oil and Gas Information
 - Mining and Minerals
 - Geology
 - Public Land Survey System
 - Ownership and Mineral Leases
- Major Layer Categories have several sublayers
 - Transparency can be set for layers within a category
 - For a complete list of the layer and descriptions please go to: http://www.michigan.gov/documents/deq/GeoWebFace_Layers_and_Descriptions_376707_7.pdf

Wish List / Future Layers

- Karst Geology
- Marker Bed Structure Contour Maps
- Isopach Maps
- Precambrian Basement Contours
- USGS Mineral Resources Data Systems
- 1:100,000 Topographic Contours
- 1:24,000 Topographic Contours
- Type Section Locations
- Base of Fresh Water Surface
- Production Reporting Units (PRU) Polygons
- Secondary Recovery / Water Flood Projects
- Wells with RasterLogs
- Wells with cores and samples
- Non Metallic Quarries
- Sand Dunes: Coastal and Inland
- Great Lakes Bathymetry
- Published Geologic Map Outlines
- DEQ-OOGM District/Coverage
- County High Points and Low Points
- Places of Geologic Interest
- Wellhead Protection Areas
- SSURGO County Soils (With Attributes)*
- Wellogic Water Well Data
- DNR Mineral Lease Auction Results
- Blank Base Map

GWF Map Results tab

- Found in the upper left edge of the map area.
- GeoWebFace Map tab shows the map you have created with it layers, transparency and zoom level.
- Users quickly become familiar with toggling between the **GeoWebFace Map** and the **GeoWebFace Results** tabs.

GeoWebFace Results tab

- Found in the upper left edge of the map area.
- Select the GeoWebFace Results is used to access data and scanned files. A data table is displayed.
- Use the right hand column to access scanned files.
- A "Well Summary Report" is available.
- Export to a spreadsheet allows for more data elements for the wells you selected to be viewed and or downloaded to your computer for further analysis.
- Scanned files can be downloaded of viewed online.
- You can download files from GWF FTP site.

GeoWebFace FTP Site

- ❑ Data is organized by 3 digit API County code List and Map for converting from API county codes to Michigan County Names (and vice versa):
http://www.michigan.gov/documents/deq/API_to_County_Name_376708_7.pdf

- ❑ Scanned Oil and Gas Records available from GWF Map Search, Data Search or FTP Site:
- ❑ DL-Drillers Logs
- ❑ WF-Permit Well Files
- ❑ RL-RasterLogs
- ❑ Shapefiles (oil & gas well locations only-for now)

To access the GeoWebFace FTP server got to:

URL: <ftp://ftp.deq.state.mi.us/GeoWebFace>
User ID: **GeoWebFace**
Password: **Geology(1)**

It is recommended to copy and paste the URL into the address bar of your web browser.

The GeoWebFace FTP server is set up for viewing and or downloading of files.

Questions? / Contact

- ❑ Send email to DEQ-GeoWebFace@michigan.gov.
- ❑ An online feedback form is available.
- ❑ Please ask questions if you run into problems.
- ❑ Make suggestions for additions of new or improved functions.
- ❑ Please report omissions, errors and mistakes.
- ❑ Provide curriculum materials.
- ❑ Attribution will be made for additions to the reference materials for the GeoWebFace.

GeoWebFace Links

GeoWebFace Introductory Web page
<http://www.michigan.gov/deqgeowebface/>

GeoWebFace Application
<http://ww2.deq.state.mi.us/geowebface/>

GeoWebFace User Guide.
http://www.michigan.gov/documents/deq/GeoWebFace_Users_Guide_375273_7.pdf.

GeoWebFace Layers and Descriptions: http://www.michigan.gov/documents/deq/GeoWebFace_Layers_and_Descriptions_376707_7.pdf

GeoWebFace API Numbers to County Names
http://www.michigan.gov/documents/deq/API_to_County_Name_376708_7.pdf

Email the **GeoWebFace** Team at DEQ-GeoWebFace@michigan.gov

OOGM Online Oil and Gas Database
<http://ww2.deq.state.mi.us/mir/>

Download database files
http://www.michigan.gov/deq/0,4561,7-135-3311_4111_4231-188295--,00.html
and from the **GeoWebFace FTP site**

Michigan GIS shapefiles
http://www.michigan.gov/cgi/0,1607,7-158-52927_53037_12693---,00.html
then select 'Michigan Geographic Data Library'

OOGM Michigan Geology Publications
http://www.michigan.gov/documents/deq/GIMDL-Catalog-2010-01-20_307979_7.pdf

The **GeoWebFace** is made available by:



Michigan DEQ
Office of Oil, Gas, and Minerals
525 West Allegan Street
Lansing, MI 48909