

# ***NOGCC Modifications to GIS Data Mining***

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- Turn on tooltips in GIS Data Mining and add scout ticket and wellbore to the tooltip. Also add a tab to the Details Pane for wellbore.

Files needing modification:

GWPC\_NE.xml  
WellDetails.xml  
Map.aspx  
MapControl.aspx  
NOGCCOnline.aspx

- Modification to GWPC\_NE.xml

This xml file is commonly known as the map config file. It determines how layers, tools, print options and other GIS tools are configured and interact. It also determines the locations of files needed for MapServer to operate.

File location: [http://www.nogcc.ne.gov/NOGCCOnlineGIS/CONFIG/GWPC\\_NE.xml](http://www.nogcc.ne.gov/NOGCCOnlineGIS/CONFIG/GWPC_NE.xml)

Use of the tooltip is turned on/off in the section <Map> at the end of this file.

```
<!-- MAP DEFINITION -->
<Map>
  <Projection>+proj=aea +lat_1=40.000000000 +lat_2=43.000000000 +lat_0=0.000000000
+lon_0=-100.000000000 +x_0=0.000 +y_0=0.000 +datum=NAD83 +ellps=GRS80
+no_defs</Projection>
  <ProjectionStatus>+proj=longlat +ellps=GRS80 +no_defs</ProjectionStatus>
  <ProcessingImage>images/ani_dave.gif</ProcessingImage>
  <UseToolTip>True</UseToolTip>
  <MapServices>
    <MapService>
      <ID>0</ID>
      <ServiceType>MS</ServiceType>
      <Server></Server>
      <Port></Port>
      <MapService>MS\GWPC_NE.map</MapService>
    </MapService>
  </MapServices>
</Map>
```

The tooltip content is defined in the layer(s) that you want to have tooltips. If you do not want a tooltip to pop up for roads, lakes, towns etc. do not define a tooltip for that layer. Define a tooltip for Nebraska Wells only. The definition must be in html language.

```

<!-- NEBRASKA WELLS -->
<GISTOCItem>
  <Name>Nebraska Wells</Name>
  <Layers>
    <Layer>
      <Name>Nebraska Wells</Name>
      <MapIndex>0</MapIndex>
      <ID>9926</ID>
      <LayerType>MS</LayerType>
      <ExportData>>false</ExportData>
      <EntityKeyName>API_WELLNO</EntityKeyName>
      <ToolTip>
        <![CDATA[
          <p>API Well # <a
            ref="javascript:window.parent.parent.FilledOnly('API_WELLNO',!-API_WELLNO-
            !,'String','WellDetails.xml','ctl00_PageBody_WebPartManager1_gwpPanelDetails_DetailsFr
            ame');">!-API_WELLNO-!</a>
              <br />
              <br />
              <a href="javascript:window.parent.parent.DoScoutTicket(!-API_WELLNO-
              !)"></a>
              <a href="javascript:window.parent.parent.DoWellbore(!-API_WELLNO-!)"></a>
            </p>
          ]]>
        </ToolTip>
      </Layer>
    </Layers>
  <Type>SingleLayer</Type>
  <Active>>true</Active>
  <Visible>>true</Visible>
  <Link>METADATA/undefined.htm</Link>
</GISTOCItem>

```

- Modification to WellDetails.xml

This xml file defines how the Details Pane is configured and displayed for a well. It determines how many tabs are displayed and what information is on the tab and how that information is formatted and presented. To add a tab you need to create a new <EntityDetailsItem>. Define the query <BaseQuery> and within that query specify labels [???] and data. The data may contain html code if surrounded by single quotes '???'.

File location:

[http://www.nogcc.ne.gov/NOGCCOnlineGIS/App\\_Data/NE/DetailsXML/WellDetails.xml](http://www.nogcc.ne.gov/NOGCCOnlineGIS/App_Data/NE/DetailsXML/WellDetails.xml)

```

<!-- WELLBORE -->
<EntityDetailsItem>
  <Query>
    <KeyName>API_WELLNO</KeyName>
    <KeyValue xsi:type="xsd:string">26001210010000</KeyValue>

```

```

<KeyType>String</KeyType>
<BaseQuery>
  <![CDATA[
    select
      [Wellbore Diagram] = '<a href="javascript:parent.DoWellbore('' + API_WELLNO +
''')"></a>'
    from tblWellMaster
  ]]>
</BaseQuery>
</Query>
<RelatedTables />
<Tabs />
<ColumnsWide>1</ColumnsWide>
<TableTitle>Wellbore</TableTitle>
</EntityDetailsItem>

```

- Modification to Map.aspx

This file defines how the tooltip is displayed on the map. The <div id="divTOOLTIP" section contains an inline css style that determines how the tooltip looks and interacts with the user.

File location: <http://www.nogcc.ne.gov/NOGCCOnlineGIS/Map.aspx>

```

<div id="divTOOLTIP"
class="tooltip"
visible="false"
style="z-index: 104;
position: absolute;
visibility: hidden;
background: Beige;
margin: 2px;
padding: 10px;
color: #000080;
font: normal normal bold 8pt/normal Arial, Helvetica, sans-serif;
text-align: center;
border: 2px #000080 solid;
border-radius: 5px;
-moz-border-radius: 5px;
-webkit-border-radius: 5px; ">
</div>

```

- Modification to MapContol.aspx

This file defines where and when the tooltip is displayed on the map. These particular functions are controlled by javascript functions and variables. The tooltip timeout located in the javascript function MAP\_onmousemore, controls how long the cursor must be stationary before the tooltip displays. The tooltip location located in the javascript function OnGetToolTipComplete, is controlled by projecting the cursor location into the tooltipX and tooltipY coordinates. To make it easier for the user to enter the tooltip a number of pixels must be subtracted from this position which essentially puts the cursor in the tooltip when it becomes visible. Because of the border and style I have chosen to subtract 5 pixels from the current cursor position.

File location: <http://www.nogcc.ne.gov/NOGCCOnlineGIS/MapControl.aspx>

```
function MAP_onmousemove(evt) {
    var e = new xEvent(evt);
    MapEventType = frmMC.MapEventType.value.toUpperCase();
    SetMapLoc(e.offsetX,e.offsetY);
    szStatus = MapX + ' ' + MapY;
    //TOOLTIP
    if (useToolTip) {
        toolTipX = e.offsetX;
        toolTipY = e.offsetY;
        clearTimeout(toolTipTimeOut);
        clearToolTip();
        toolTipTimeOut = setTimeout(MAP_tooltip, 1000);
    }
    switch (MapEventType) {
        case 'ENVELOPE':
            if (bMouseDown) {
                var tX = new Array(clickCount);
                var tY = new Array(clickCount);
                for (i = 0; i <= clickCount; i++)
                {
                    tX[i] = aX[i];
                    tY[i] = aY[i];
                }
                x1 = tX[0];
                y1 = tY[0];
                x2 = e.offsetX;
                y2 = e.offsetY;

                if (x2 < x1){
                    tmp = x1;
                    x1 = x2;
                    x2 = tmp;
                }
                if (y2 < y1){
                    tmp = y1;
                    y1 = y2;
                    y2 = tmp;
                }
                w = x2 - x1;
                h = y2 - y1;
                szStatus = 'Dragging [' + x1 + ', ' + y1 + ' - ' + w + ', ' + h + ']: ' +
szStatus;
                MAP.drawRect(x1,y1,w,h);
            }
            break;
        case 'LINE':
            break;
        case 'POLYGON':
            if (clickCount > 0) {
                var tX = new Array(clickCount - 1);
                var tY = new Array(clickCount - 1);
                aX[clickCount] = e.offsetX;
                aY[clickCount] = e.offsetY;
                for (i = 0; i <= clickCount; i++)
                {
```

```

        tX[i] = aX[i];
        tY[i] = aY[i];
    }
    if (clickCount > 1) {
        MAP.drawPolygon(tX,tY);
    } else {
        //draw line
        //jd_map.clear();
        MAP.drawLine(e.offsetX, e.offsetY, tX[0], tY[0]);
    }
}
break;
}
window.status = szStatus;
}

function OnGetToolTipComplete(result, userContext, methodName) {
    if (useToolTip) {
        if (result != '') {
            MAP.divTOOLTIP.innerHTML = result;
            MAP.divTOOLTIP.style.left = toolTipX - 5;
            MAP.divTOOLTIP.style.top = toolTipY - 5;
            MAP.showTooltip();
        }
    }
}
}
}

```

- Modification to NOGCCOnline.aspx

This is the main page for GIS Data Mining. Need to add java script to handle the display of both the NE Scout Ticket and the Wellbore. These functions will allow both of these added items to use the same manner of action as all the rest of the data mining functions such as well selection, map zoom etc. The DoScoutTicket function performs a simple html redirect to the WebReportSingle page passing all parameters for the rdlc NEScoutTicket report for the selected well. The DoWellbore function performs a simple html redirect to the WellBoreCanvas page passing all parameters needed to display a wellbore diagram for the selected well.

File location: <http://www.nogcc.ne.gov/NOGCCOnlineGIS/NOGCCOnline.aspx>

```

function DoScoutTicket(keyvalue) {
    var sturl =
'WebReportSingle.aspx?ReportName=NEScoutTicket.rdlc&ParamName=API_WellNo&API_WellNoOpera
tor=Equal&API_WellNoType=String&API_WellNoValue=' + keyvalue;
    var load = window.open(sturl, '', '');
}

function DoWellbore(keyvalue) {
    var sturl = '../Wellbore/WellBoreCanvas.html?noMap=true&apiNo=' + keyvalue;
    var load = window.open(sturl, '', '');
}

```