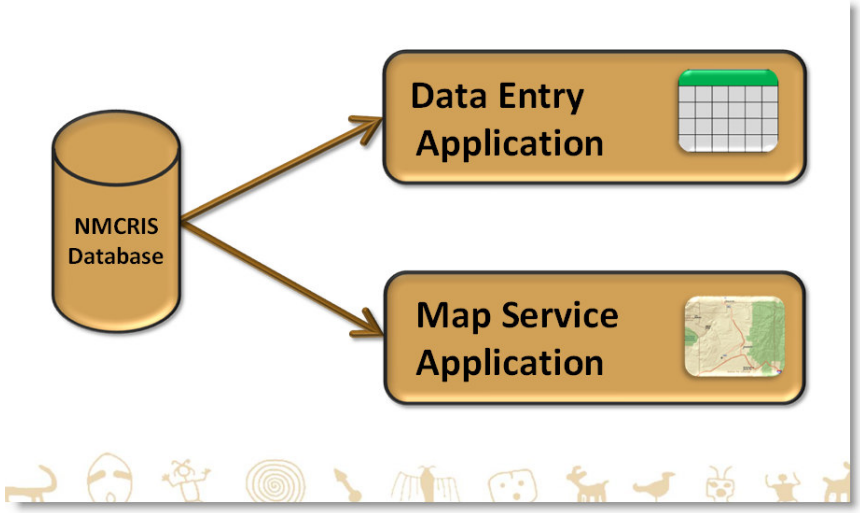
NMCRIS Map Service Application Prefield Query

Exercise goal: As part of prefield activities conducted in advance of field investigations, this exercise instructs users to perform spatial queries of activities and resources in the NMCRIS Map Service application.



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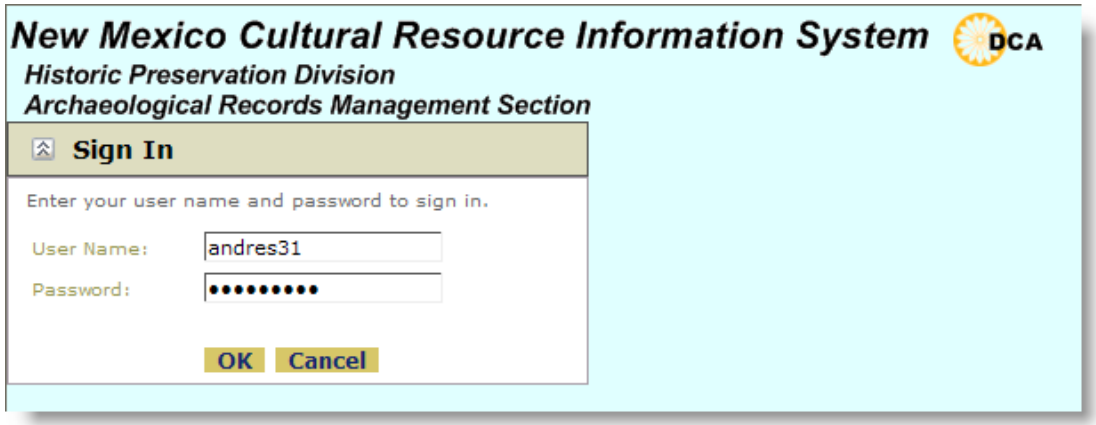
Step 1: NMCRIS Login and Tabular Query

a. In your web browser, enter https://nmcris.dca.state.nm.us to get to the NMCRIS page.

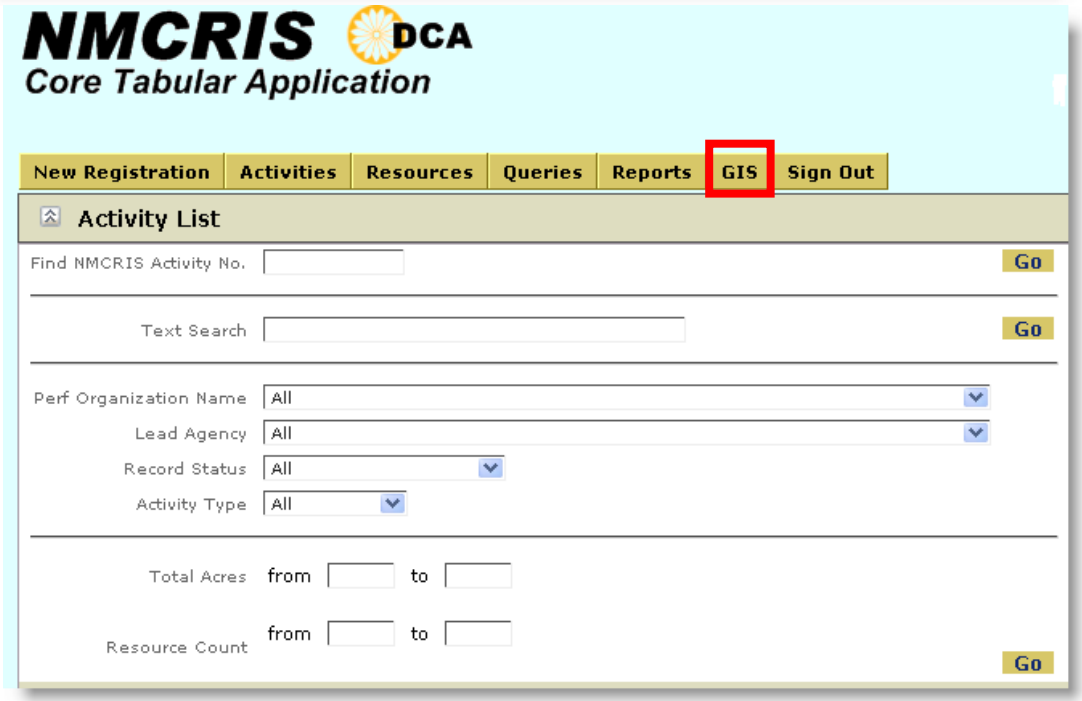
The following exercise is based on the assumption that you have an active user account and currently have a login name and password.

b. Enter your **User Name** and **Password** in the **Sign In** box.

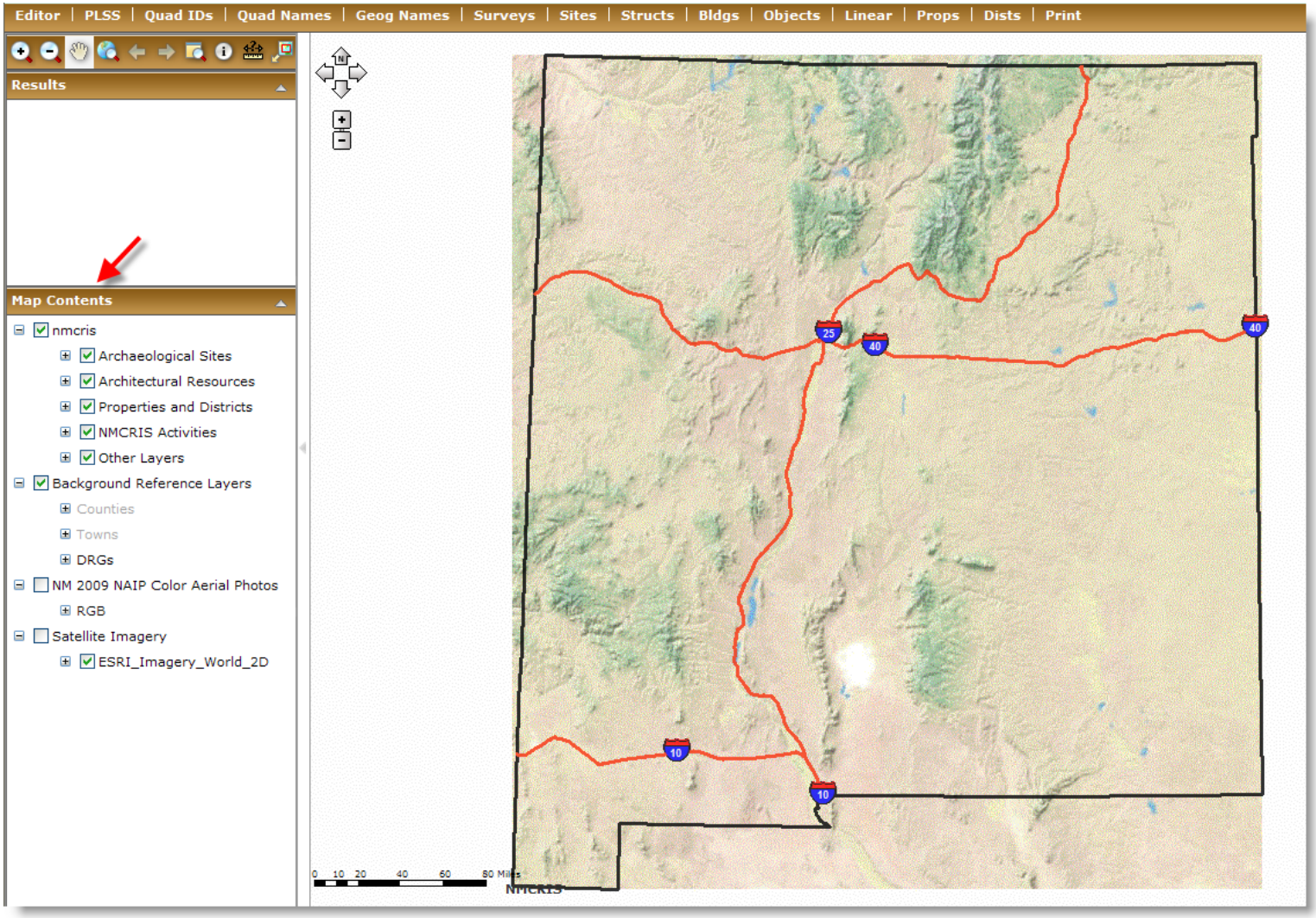


A successful logon will take you to NMCRIS Core Tabular Application (CTA) also known as NMCRIS Data Entry application page. At this point a user can query and view specific activity data (see CTA Prefield Query training module), but for the purposes of this exercise we will zoom into a geographic area of interest to determine what activities and resources exist there. This will require that you access the NMCRIS GIS data through the Map Service.

c. On the Tabs bar, select **GIS**.

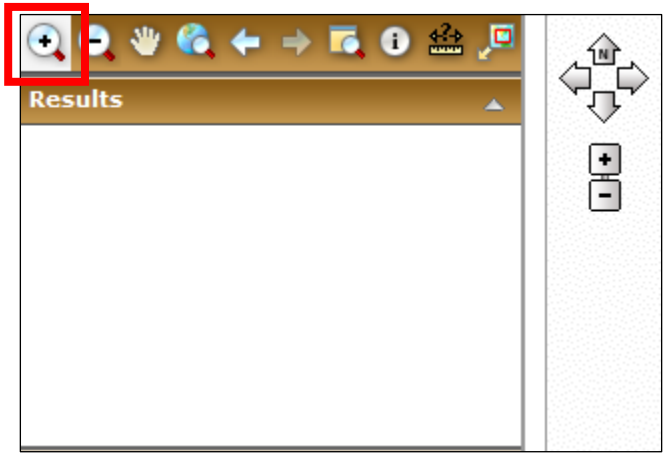


The NMCRIS Map Service application will appear zoomed to the scale of the entire state of New Mexico. The arrow here shows the layers that appear by default. If you want to change the display of certain layers, scroll through the Map Contents, expand or contract the layers lists by clicking the "+" or "-", and click on or off the checkboxes to make layers visible or not.



Step 2: Navigate in the Map Service

a. From the Toolbar select the **Zoom In** tool and draw a box, by clicking and dragging a rectangle around Albuquerque at the intersection of the Interstate Highways.

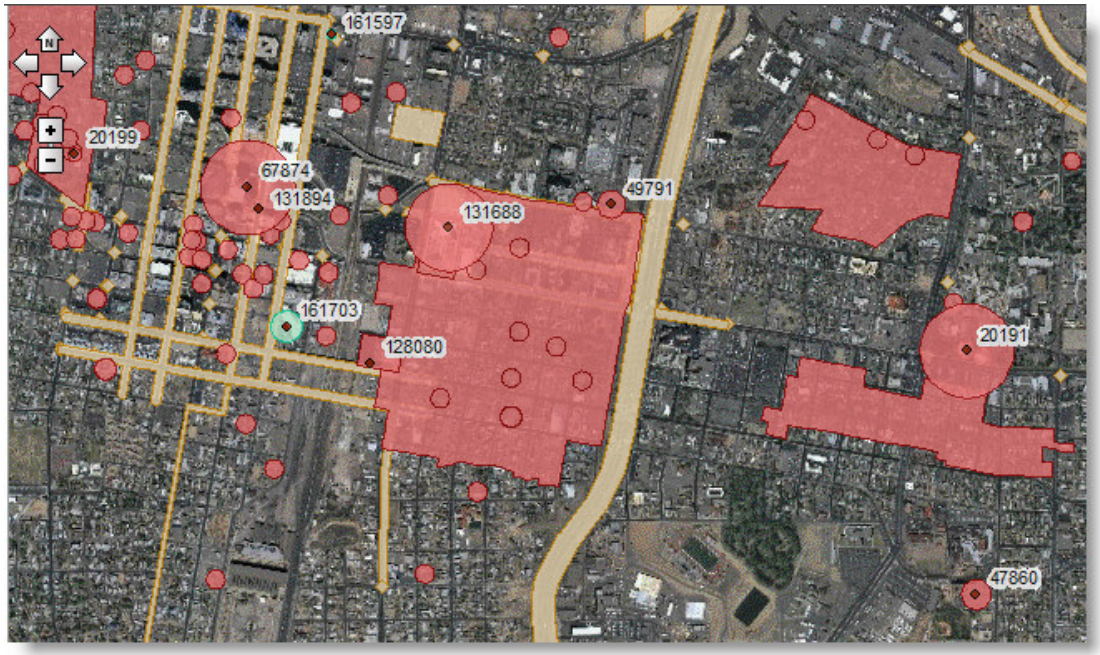


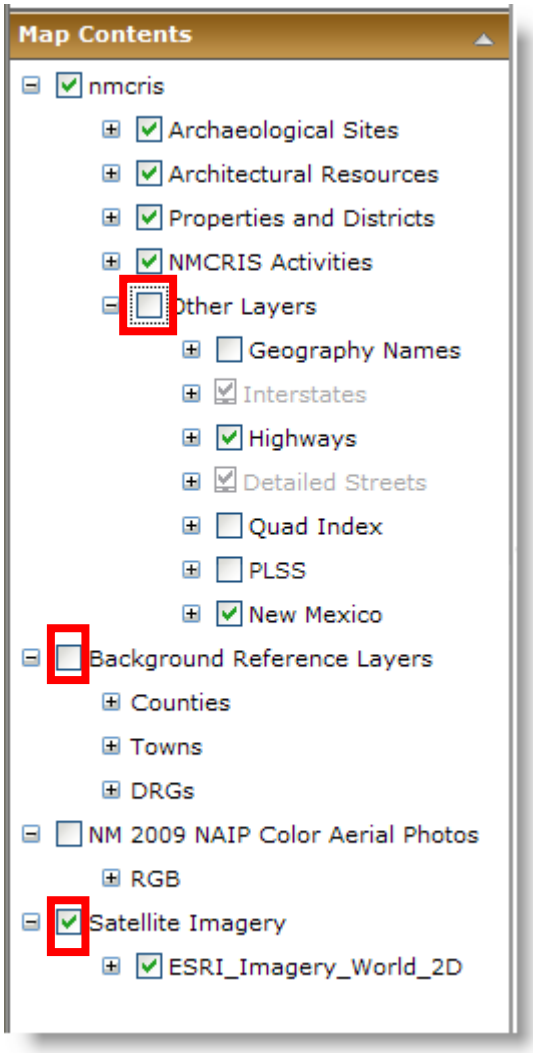
b. Keep zooming in until you can see background data and surveys on the south side of Albuquerque similar to the graphic below.

This display may be a bit overwhelming with all the street labels. Let's turn the labels off and use a different image background.

c. In the Map Contents, uncheck **Other Layers** and **Background Reference Layers.** Check on **Satellite Imagery.**

This will give you a color aerial image as a backdrop that is served by an image provider to this Map Service.

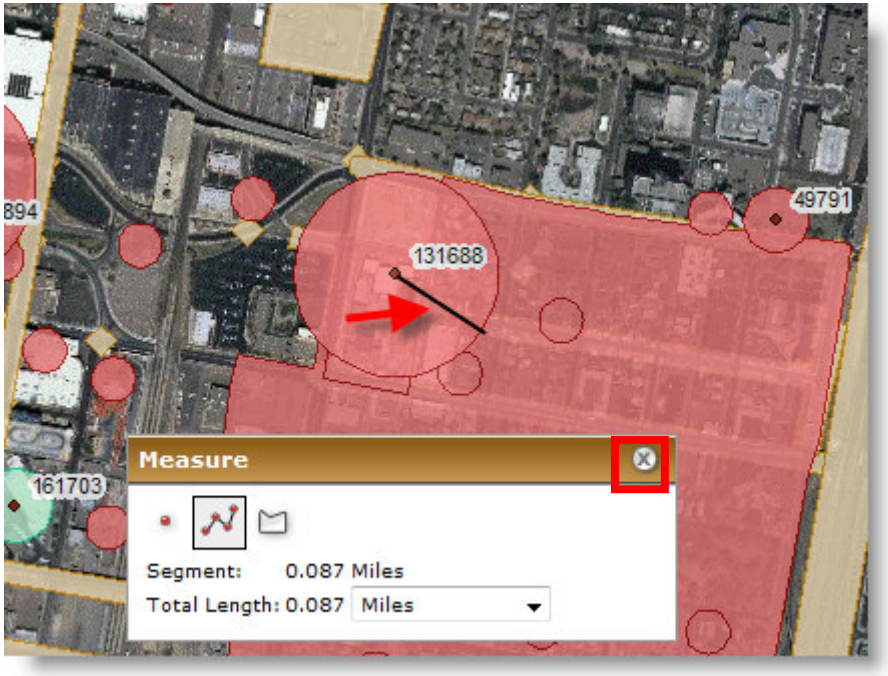




Now we will use a few other navigation tools.

d. From the Toolbar, select the **Pan** icon.
   You can drag the map around the display to center a feature of interest.

e. Locate a polygonal feature with a good sized boundary like LA 131688. To find out the radius of this site boundary, use the **Measure** tool. From the toolbar, select the **Measure** tool and click once at the center and double click at the circumference of the site to see a display of the measurement length.



f. Click the **X** on the measure box to dismiss it.

Now we will reset the display to query features in a different part of the state.

g. In the Map Contents, click on the **Background Reference Layers** and **Other Layers.** On the toolbar click the **Full Extent** icon to reset the view to the entire state.

Step 3: Perform Spatial Queries

a. From the Map Service Tab bar, select **Quad Names.**

Enter **Cundiyo** and click **Find.**

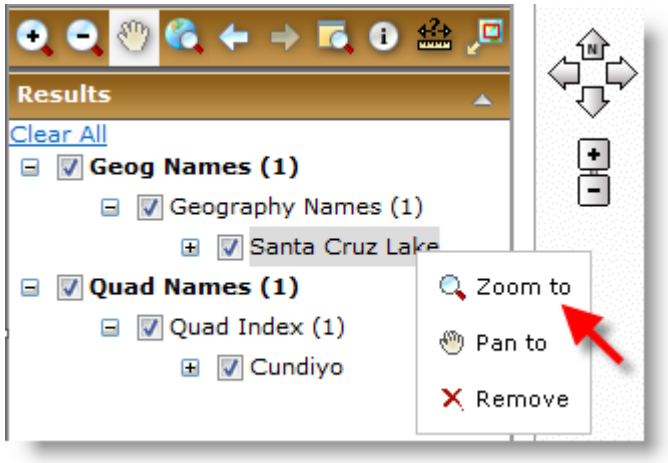
The quadrangle outline will be displayed on the map, and the Results panel will display the name of the quadrangle queried.

b. From the Map Service Tab bar, select **Geog Names.**

Enter **Santa Cruz Lake** and click **Find.**

A push pin displays the location of this queried name on the map, and the Results panel displays the geographic name searched. The Map Service supports many types of geographic places such as towns, lakes, and roads.

c. In the Results Panel, right click on **Santa Cruz Lake** and select **Zoom to**. This function will zoom directly to the region that was queried.



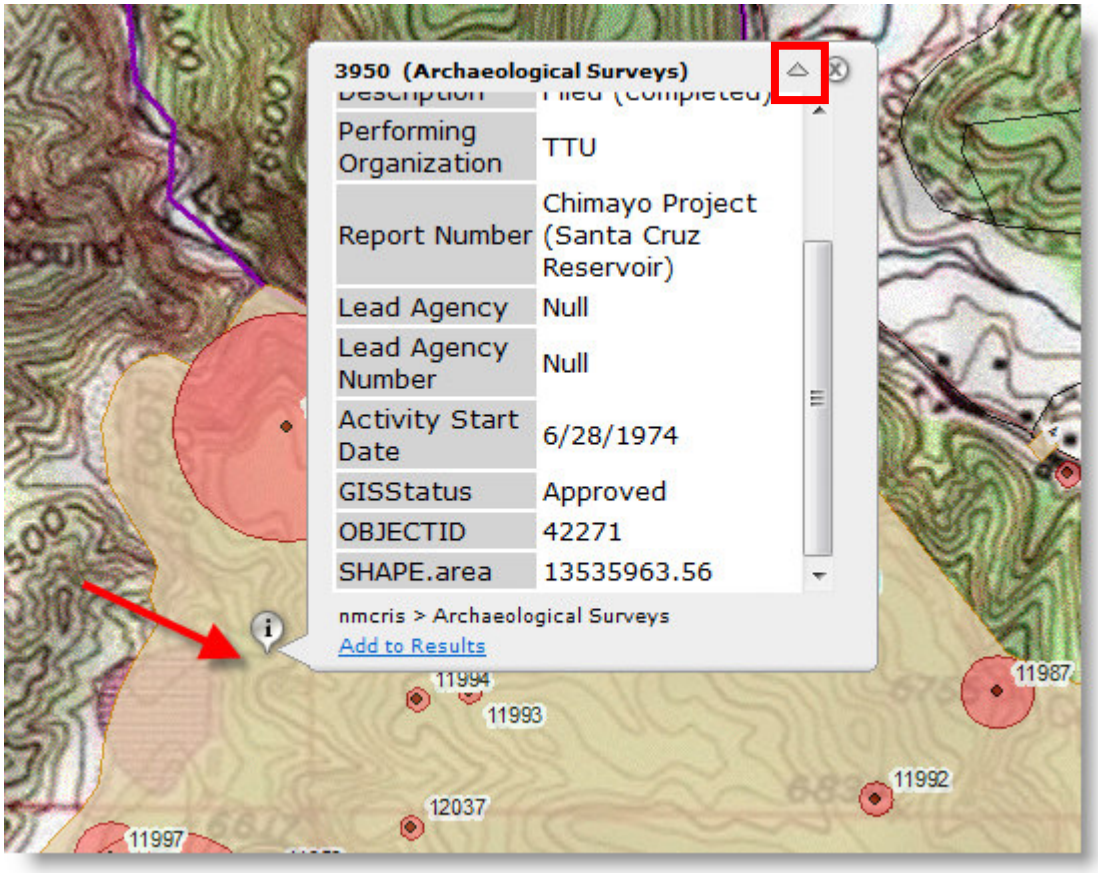
The screen will initially have a green hue due to the display of the selected Quad. It needs to be removed from the display.

d. In the Results Panel, uncheck **Quad Names.**

Continuing on to feature identification and feature data attribute retrieval:

e. Use the **Pan** tool to move the map view south of the lake to where the river intersects a large survey area shown as a beige polygon.

f. From the toolbar, select the **Map Identify** icon  and click on an area inside the survey boundary. The display will indicate the NMCRIS number of this archaeological survey. Click the **arrow** on the display to expand the box and show more information about the survey including performing organization, report number, lead agency, and date of the investigation.

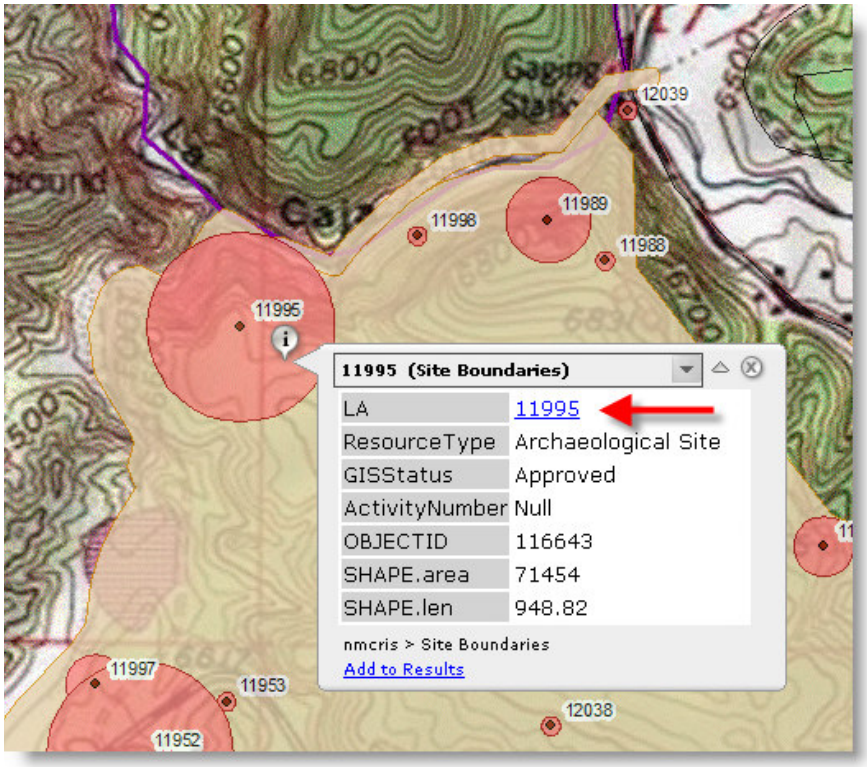


g. For information on resources, select the **Map Identify** tool and click on archaeological site number **11995.** You can see that the GISStatus of this site is **Approved** and it has an area of 71,454 square meters. When resources are originally created by users, their GISStatus is automatically set to **Proposed**, and the resources display in a light green color. Resources with a GISStatus of **Approved** display as red polygons on the Map Service. The GISStatus change from Proposed to Approved (or from Green to Red) occurs after they have been reviewed and validated by HPD staff.

Step 4: View Summary Reports for Surveys and Resources

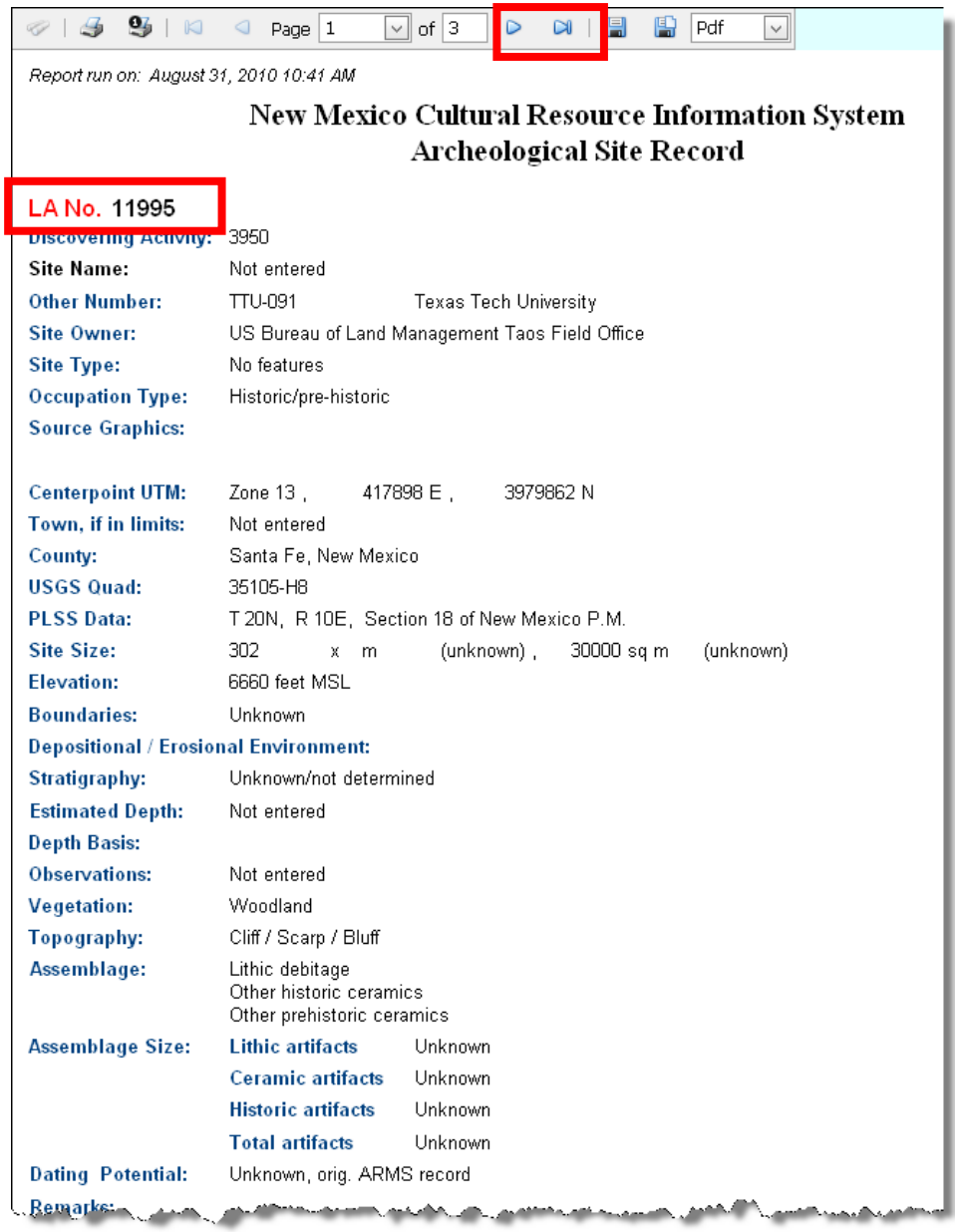
The Map Service application is directly linked to the Tabular application which holds all of the NIAF, LA, and HCPI attribute information entered into NMCRIS. The following steps illustrate the retrieval of a summary report for a resource

a. Click on the **LA 11995** link. It is hyperlinked to the site summary report. You can now see a summary of information that was entered for this site.



This will be a typical prefield query to view reports on existing surveys and sites in an area you plan to do some work.

The site summary report contains more information about this site.



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Report run on: August 31, 2010 10:41 AM

New Mexico Cultural Resource Information System
Archeological Site Record

LA No. 11995

Discovering Activity:	3950
Site Name:	Not entered
Other Number:	TTU-091 Texas Tech University
Site Owner:	US Bureau of Land Management Taos Field Office
Site Type:	No features
Occupation Type:	Historic/pre-historic
Source Graphics:	
Centerpoint UTM:	Zone 13 , 417898 E , 3979862 N
Town, if in limits:	Not entered
County:	Santa Fe, New Mexico
USGS Quad:	35105-H8
PLSS Data:	T 20N, R 10E, Section 18 of New Mexico P.M.
Site Size:	302 x m (unknown) , 30000 sq m (unknown)
Elevation:	6660 feet MSL
Boundaries:	Unknown
Depositional / Erosional Environment:	
Stratigraphy:	Unknown/not determined
Estimated Depth:	Not entered
Depth Basis:	
Observations:	Not entered
Vegetation:	Woodland
Topography:	Cliff / Scarp / Bluff
Assemblage:	Lithic debitage Other historic ceramics Other prehistoric ceramics
Assemblage Size:	**Lithic artifacts** Unknown **Ceramic artifacts** Unknown **Historic artifacts** Unknown **Total artifacts** Unknown
Dating Potential:	Unknown, orig. ARMS record
Remarks:	

Summary: In this exercise you were introduced to some representative map navigation and query functionality in order to help you perform prefield queries within the NMCRIS Map Service application. Using NMCRIS in this capacity will help give you an understanding of the nature previous work and recorded resources in your area of interest.

End Exercise.