Arkdale Lake
Adams County

Step One: Lake Survey
The lake is surveyed using a depth finder and a GPS unit. The irregular path used to survey the lake helps with the next step.

Step Two: Creation of TIN
A TIN is a Triangulated Irregular Network. TINs use triangles to represent changes in elevation between points. The lake shown in red, was digitized from the aerial photo to be used as the base contours of the lake TIN.

Step Three: TIN Grid and Contours
The TIN is really rough, so a TIN Grid is created. The TIN Grid is as you can see a better representation of nature. Contour lines are also added in this step.

Step Four: Smooth contours and Add Extra Data
The last step is to import the TIN grid, contour lines, and arial photo. In order to create a more natural feel to the contours they are smoothed out, in this case using the pen tool in Adobe Illustrator. After this is done, labels are added to the contours to make them easy to read. The last step is to add roads and any other data that you have. The end result should be a map that is easy to read and is actually useful.

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