

Manifolds can be used in TNT 3D perspective views to depict cross-sections with any orientation. You can also use multiple manifold sections with different locations and orientations in a single view to reveal the 3D geometry of objects, such as geologic units in the subsurface. The subsurface model on this page shows the shape of the ore body and enclosing rock units at a subsurface iron mine in Missouri, USA. The mine workings include vertical shafts connecting

networks of horizontal tunnels at various depths below the surface. The model incorporates geologic maps (horizontal sections) of selected depth levels and interpreted vertical cross-sections, each of which has been georeferenced with 3D control points to create a planar manifold surface. The perspective view with both horizontal and vertical sections can be viewed from any orientation to help visualize the 3-dimensional shape of the ore body and other rock units.

