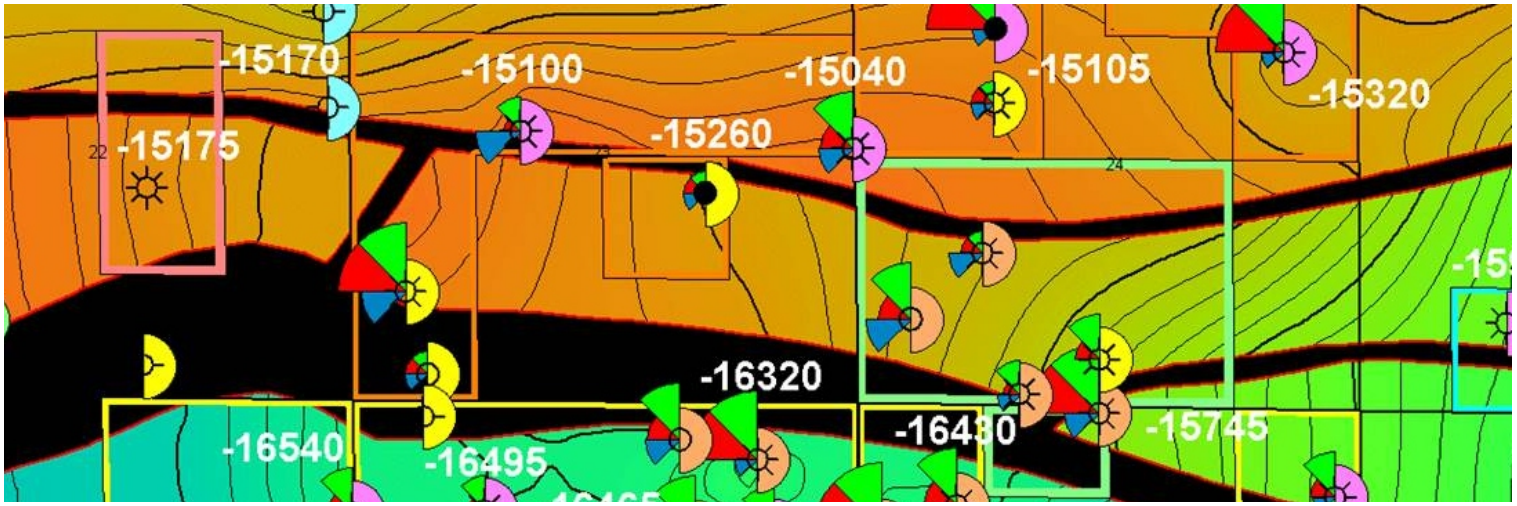
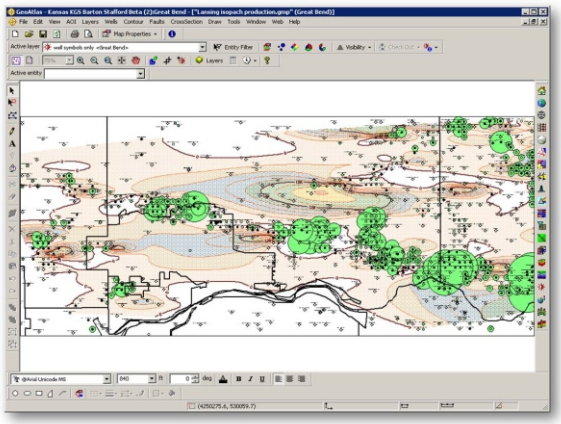
GeoAtlas™

Geology



GeoAtlas™

GeoAtlas is a GIS-based, mapping environment for geologic base and subsurface mapping. Built on Esri ArcObjects technology, GeoAtlas is used to create presentation-quality maps from a variety of spatial data sources including shapefiles, web map services (WMS), ArcGIS map services and SDE layers.



Benefits

Faster, presentation-quality geologic maps

Presentation-Quality Geologic Maps

GeoAtlas enables geoscientists to create and print extremely high-quality, geologic maps using a wide variety of standard geological and custom-created symbols.

Esri Integration

GeoAtlas is built on Esri ArcObjects technology. The native map format in GeoAtlas is the shapefile, and integration with other Esri technologies such as ArcGIS Map Services and SDE provides unparalleled interoperability with Esri tools such as ArcMap.

Key Features

Base Mapping

- Display well spots, land grids, satellite imagery and any one of eight, different layer types to create high-quality base maps
- Modify map attributes and add drawings, objects, and annotations
- Subset map and prospect areas using Areas of Interest (AOIs)
- Thematically map on any attribute posted on the base map
- Spot well locations from footage calls individually, and in-batch
- Use layer display attributes to gain complete control over all display properties
- Construct montages displaying maps and cross sections as well as inserted text and graphics files defined in other applications
- Generate production bubble and pie maps
- Mine project data graphically using conditional pie mapping on almost any field in the project database
- Import shapefiles
- Create custom coordinate systems as a result of GeoAtlas' support of practically every datum and map coordinate system worldwide (using Blue Marble Geographics geodetic libraries)
- Print presentation maps to any size and scale

GeoGraphix®

edatasheet

GeoAtlas™

Geology

Contour Mapping

- Create subsurface map layers using one of ten different gridding algorithms
- Edit contours
- Honor faults when creating subsurface contour maps
- Create Isopach and Isochore maps
- Perform grid-to-grid operations and contour-to-grid operations
- Create subsurface contour maps from well data, zone attributes, Zmap+, AsciiXYZ, Digital Elevation Models (DEMs) and existing shapefile layers

Volumetrics

- Calculate volume and area statistics from contour maps

ArcGIS

- Stream web map service (WMS) layers onto GeoAtlas maps
- Import layer (.lyr) files
- Stream ArcGIS map service onto GeoAtlas maps
- Display layers from SDE (Spatial Data Engine)
- Publish GeoAtlas map layers to ArcGIS Online

Requirements

Hardware (MINIMUM)

- 2.4GHz 64-bit Intel class or better
- 4GB RAM
- 1,024 x 768 graphics resolution
- CD-ROM drive
- 19-inch monitor

Hardware (RECOMMENDED)

- Quad 2.4 GHz 64-bit Intel class or better
- 16 GB RAM or greater
- NVIDIA GeForce or Quadro - 2GB video RAM
- DVD-RW drive
- Dual 21+-inch monitors

Software

- Microsoft® .NET 4.5
- Microsoft® DirectX 11

Operating System(s)

- Windows® 7 Professional x64
- Windows® 7 Enterprise x64
- Windows® 7 Ultimate x64