

**DDS-69-N
GIS PROJECT**

**DISPLAY
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Raton Basin-Sierra Grande Uplift Province GIS Project

A geographic information system (GIS) focusing on southeastern Colorado and northeastern New Mexico was developed as a visual-analysis tool for the U.S. Geological Survey's National Assessment of Oil and Gas Project encompassing the Raton Basin-Sierra Grande Uplift Province.

BASE DATA

The spatial data that formed the basis of the Raton Basin-Sierra Grande Uplift Province GIS are contained on this CD-ROM in the SPATIAL folder. The data focus on the extent of the Raton Basin-Sierra Grande Uplift Province and emphasize its petroleum systems and related geology, as well as infrastructure features and ownership in the area. Several data formats are provided as noted by subfolders Shape and Export in the SPATIAL folder.

METADATA

**INTERACTIVE
MAPS**

For more information select a topic on the left.

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Raton Basin-Sierra Grande Uplift Province GIS Project Display Options

In addition to the [interactive map](#) provided online, there are several display options available to view spatial data contained on this CD-ROM:

ArcMap

A customized ArcMap project has been included (SPATIAL/prov41.mxd) to facilitate the display of the data. This project is included on the CD-ROM under the assumption that a large portion of users will have access to ArcMap software. While not necessary to view the data, it is expected that the use of this project will lend more functionality to the data. To open the project, start ArcMap and navigate to the file location on this CD-ROM (SPATIAL/prov41.mxd).

ArcReader

An ArcReader project has also been created for those who don't have access to ArcMap software. ArcReader is a free GIS viewer provided by ESRI. To open the ArcReader project, download and install the software from ESRI, start the program, and navigate to the file found on this CD-ROM (SPATIAL/prov41.pmf) This freeware can be downloaded from www.esri.com or by clicking on the link below:

[Download ArcReader Software](#)

Other

Data are also provided in ESRI shapefile format (SPATIAL/Shape folder) or as ArcInfo 9.1 Export format (SPATIAL/Export folder).

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Raton Basin-Sierra Grande Uplift Province GIS Base Cartographic Data

The majority of the base cartographic layers used in the Raton Basin-Sierra Grande Uplift Province GIS project were obtained from the U.S. Department of the Interior National Atlas web site, <http://www.nationalatlas.gov>. Other base data showing surface ownership were obtained from the Bureau of Land Management (BLM) and the geology is from published USGS data.

To view the metadata file click on the metadata link to the left.

BASE CARTOGRAPHIC LAYERS FROM THE NATIONAL ATLAS

States

Counties

Populated Places (Cities and Towns)

Urban Areas

Highways

Streams

Waterbodies

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Raton Basin-Sierra Grande Uplift Province GIS Project - Metadata

Metadata for the spatial files provided on this CD-ROM are contained in the SPATIAL/Doc folder. These files were created using ESRI's ArcCatalog. All metadata is provided in HTML format (best viewed in Internet Explorer 5.5 or later) and in XML format in SPATIAL/Shape folder. The XML metadata files are attached to the ESRI shapefiles and are also incorporated in the export files.

The majority of the spatial data provided on this CD-ROM was acquired from the USGS Central Energy Resources Team's data library or the National Atlas of the United States. Spatial data specific to the Raton Basin-Rio Grande Uplift Province Assessment were created as a result of the study. All spatial data contained on this CD-ROM are in a geographic NAD83 projection unless otherwise noted.

To view the metadata file click on a theme below.

[BASE CARTOGRAPHIC DATA](#)

ASSESSMENT DATA

[Raton Basin-Sierra Grande Uplift Province Boundary 5041](#)

[Upper Cretaceous-Tertiary Sandstone Gas Cells, 50410101](#)

[Upper Cretaceous-Tertiary Sandstone Gas Assessment Unit, 50410101](#)

[Raton Coalbed Gas Cells, 50410181](#)

[Raton Coalbed Gas Assessment Unit, 50410181](#)

[Vermejo Coalbed Gas Cells, 50410182](#)

[Vermejo Coalbed Gas Assessment Unit, 50410182](#)

[Upper Cretaceous-Tertiary Coalbed Gas Total Petroleum System 504101](#)

[Fractured Reservoirs Gas Cells, 50410201](#)

[Fractured Reservoirs Gas Assessment Unit, 50410201](#)

[Jurassic-Lower Cretaceous Reservoirs Gas Cells, 50410202](#)

[Jurassic-Lower Cretaceous Reservoirs Gas Assessment Unit, 50410102](#)

[Jurassic-Cretaceous Composite Total Petroleum System 504102](#)

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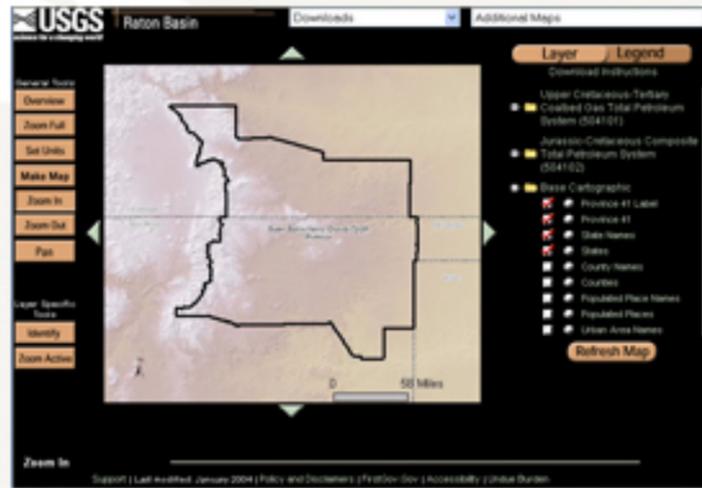
METADATA

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Raton Basin-Sierra Grande Uplift Province - Internet Map Service

The U.S. Geological Survey Central Energy Team has developed an Internet Map Application as a visual analysis tool and to deliver data to the public. Various assessment results can be viewed and or downloaded from the internet website. The interactive map can be used as an alternate to the GIS data and projects provided on this CD-ROM. To access the Raton Basin-Sierra Grande Uplift Province interactive map click on the graphic below:



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Raton Basin-Sierra Grande Uplift Province GIS Project - Metadata (cont.)

Metadata for Base Cartographic GIS layers.

To view the metadata file click on a theme below.

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[Counties](#)

[Populated Places \(Cities and Towns\)](#)

[Urban Areas](#)

[Highways](#)

[Streams](#)

[Waterbodies](#)

[Colorado Surface Ownership](#)

[New Mexico Surface Ownership](#)

[Colorado Geology](#)

[New Mexico Geology](#)