

USGS National Assessment of Oil and Gas Online (NOGA Online)

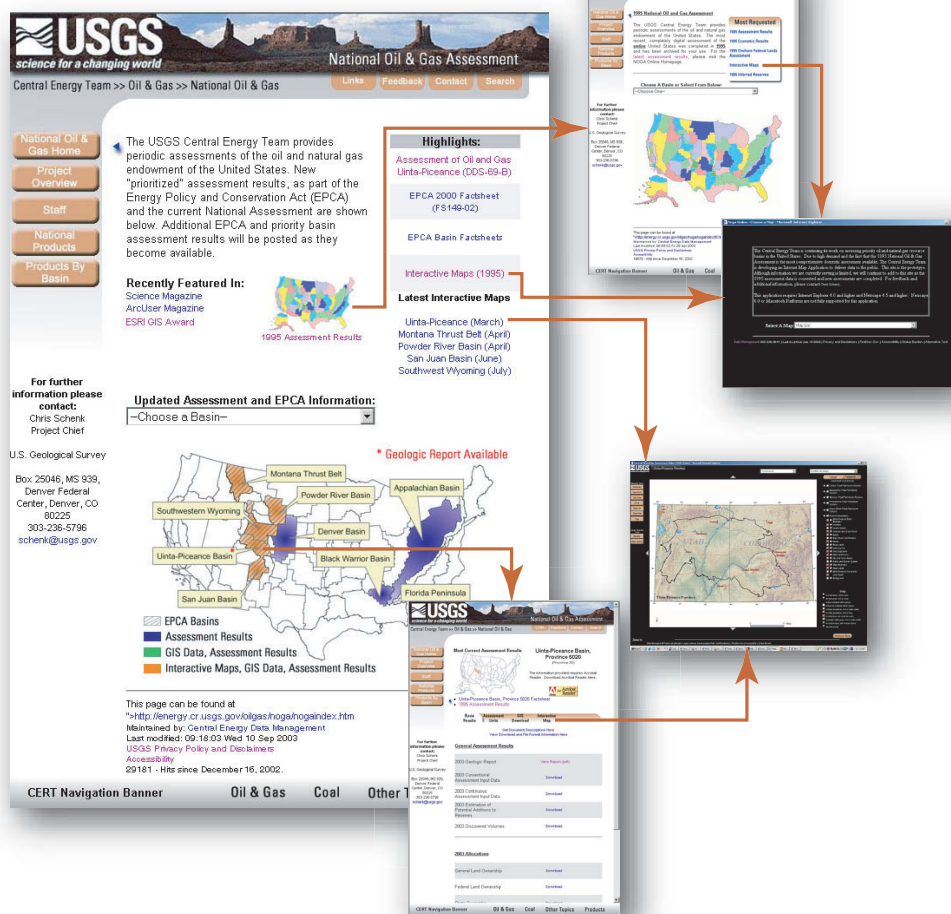
The Central Energy Resources Team (CERT) of the U.S. Geological Survey is providing results of the USGS National Assessment of Oil and Gas online (NOGA Online). In addition to providing resource estimates and geologic reports, NOGA Online includes an internet map application that allows interactive viewing and analysis of assessment data and results. CERT is in the process of reassessing domestic oil and natural gas resources in a series of priority basins in the United States using a Total Petroleum System (TPS) approach where the assessment unit is the basic appraisal unit (rather than the oil and gas play used in the 1995 study). Assessments of undiscovered oil and gas resources in five such priority provinces were recently completed to meet the requirements of the Energy Policy and Conservation Act of 2000 (EPCA 2000). New assessment results are made available at this site on an ongoing basis.

To access NOGA Online visit <http://energy.cr.usgs.gov/oilgas/noga/>. The assessment results are provided by province from either a map interface or a pull-down menu. For each completed province, Total Petroleum Systems and their assessment units (AU's) are defined and results reported. NOGA Online currently provides nearly 6,000 datasets for viewing, download, and interactive analysis directly from the website.

Users have an option of exploring the assessment data via an interactive map application using ArcIMS (ESRI, 2003). The NOGA Online map application is a single interface that provides interactive mapping, HTML Viewer, limited GIS functionality, GIS data/metadata download, tools to view assessment results, and tools to access all the data provided at the NOGA province pages.

Migration to the internet map application is provided from the NOGA home page and from the province pages. Links to the 1995

<http://energy.cr.usgs.gov/oilgas/noga/>

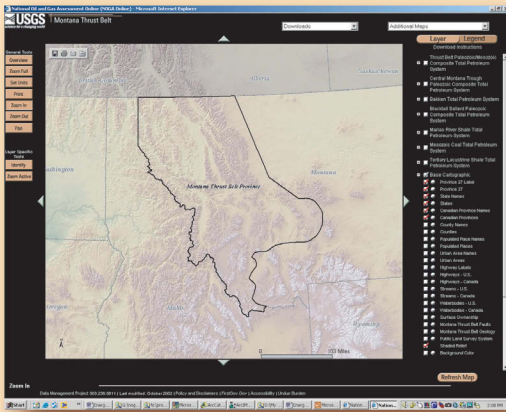


internet map application open a page where the user can choose a province map from a pull-down menu.

The interactive map application utilizes ArcIMS (ESRI, 2003) tools that allow the user to choose which layers are visible and (or) active, zoom in or out or to the extent of the active layer and identify its geographic features, and view a map explanation. Within the map application users can access related information from drop-down menus or open another map. By clicking on the "Downloads" drop-down menu (1), the user can link to the geologic report and assessment results

tables. The "Additional Maps" drop-down menu (2) accesses all provinces currently available. The user can select and link to another province, link to the 1995 map service for this province, or link to the NOGA Online "choose a map" window where all 1995 map services may be opened from the map list (3).

The Basin Results page (4) presents the province geologic reports and assessment results data in tab-delimited files. Available for download are input data, estimates of potential additions to reserves, discovered volumes, and allocations according to land ownership and ecosystems.

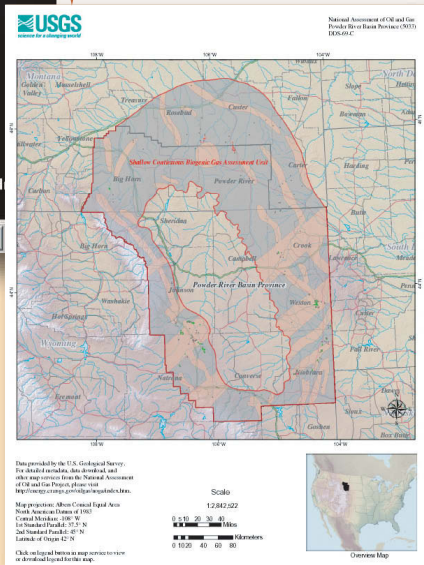
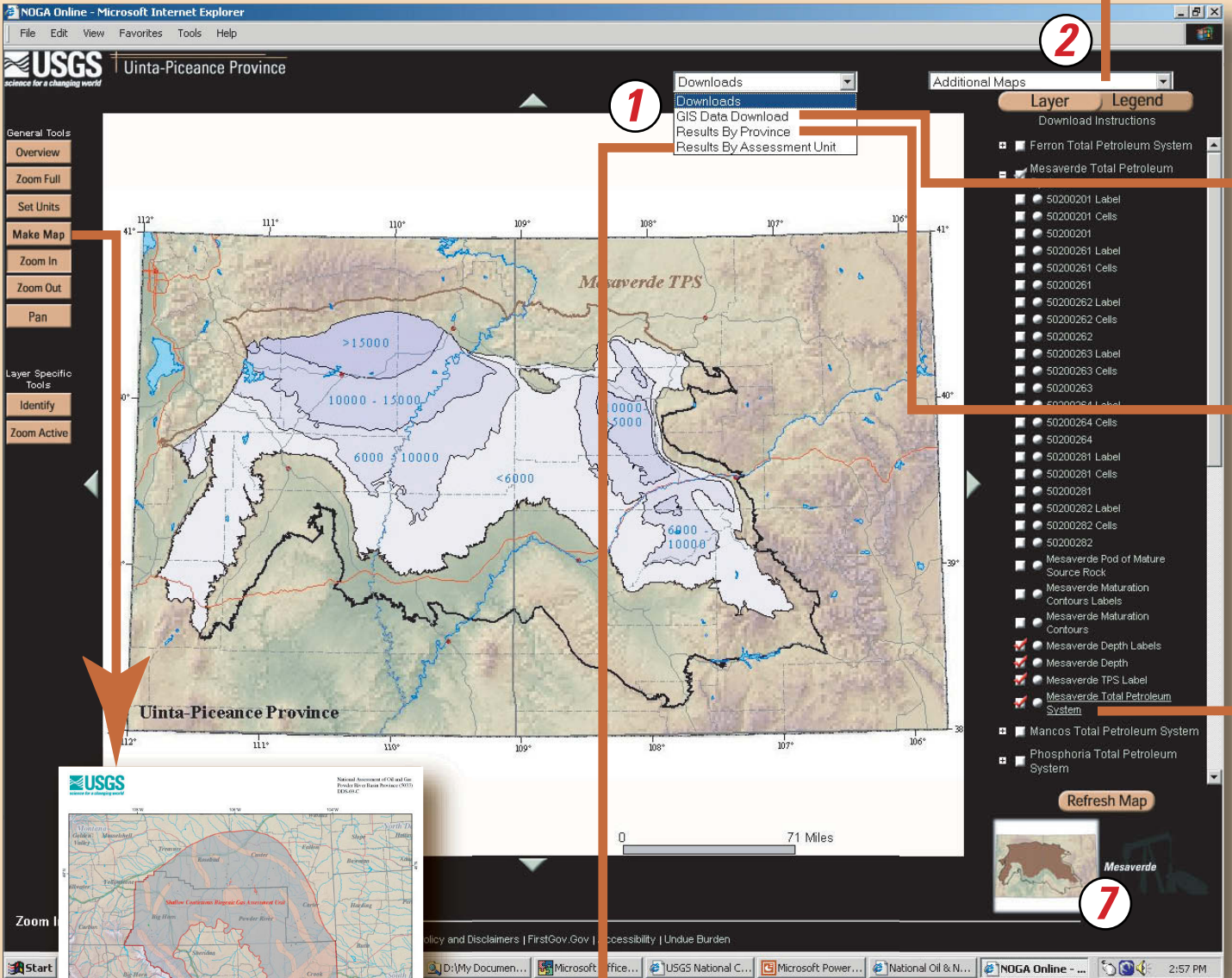


Additional Maps

Additional Maps

2003 Uinta-Piceance (Province 20)
 2003 San Juan Basin (Province 22)
 2003 Montana Thrust Belt (Province 27)
 2003 Powder River Basin (Province 33)
 2003 Southwestern Wyoming (Province 37)
 2001 South Florida Basin (Province 50)

1995 Uinta-Piceance (Province 20)
 1995 Interactive Maps (Entire List)



USGS
science for a changing world
National Oil & Gas Assessment
Central Energy Team >> Oil & Gas >> National Oil & Gas

Most Current Assessment Results
Uinta-Piceance Basin, Province 5020
(Province 20)
The information provided requires Acrobat Reader. Download Acrobat Reader Here.

• Uinta-Piceance Basin, Province 5020 Factsheet
• 1995 Assessment Results

Basin Results Assessment Units GIS Download Interactive Map

Basinwide Data:
[Download GIS Here](#)

Green River Total Petroleum System:
[Download GIS Here](#)

Phosphoria Total Petroleum System:
[Download GIS Here](#)

Mancos/Mowry Total Petroleum System:
[Download GIS Here](#)

Mesaverde Total Petroleum System:
[Download GIS Here](#)

Ferron Coal/Wasatch Plateau:
[Download GIS Here](#)

For further information please contact:
Chris Schenk
Project Chief

U.S. Geological Survey
Box 25046, MS 939,
Denver Federal
Center, Denver, CO
80225
303-236-5796
schenk@usgs.gov

Updated Assessment Data Download - Microsoft Internet Explorer

Green River Total Petroleum System	Shape File	Export File	Metadata
Green River Total Petroleum System Maturation Contours	Shape File	Export File	Metadata
Green River Total Petroleum System Pod(s) of Mature Source Rock	Shape File	Export File	Metadata
Green River Total Petroleum System Tar Sands	Shape File	Export File	Metadata
Green River Total Petroleum System Tar Deposits	Shape File	Export File	Metadata
Deep Uinta Overpressured Continuous Oil Assessment Unit	Shape File	Export File	Metadata
Piceance Green River Conventional Oil Assessment Unit	Shape File	Export File	Metadata
Uinta Green River Conventional Oil and Gas Assessment Unit	Shape File	Export File	Metadata
Deep Uinta Overpressured Continuous Oil Assessment Unit 1/4-Mile Cells	Shape File	Export File	Metadata
Uinta Green River Conventional Oil and Gas Assessment Unit 1/4-Mile Cells	Shape File	Export File	Metadata
Piceance Green River Conventional Oil Assessment Unit 1/4-Mile Cells	Shape File	Export File	Metadata

USGS
National Assessment of Oil and Gas Project - Uinta-Piceance Province (020) Maturation Contours

Metadata also available as:

Metadata:

- Identification Information
- Data Quality Information
- Spatial Data, Coverage Information
- Spatial Reference Information
- Temporal and Application Information
- Distribution Information
- Lineage Information
- Metadata Reference Information

Identification Information:
Creation: 11/10/2003 10:00:00 AM

USGS
science for a changing world
National Oil & Gas Assessment
Central Energy Team >> Oil & Gas >> National Oil & Gas

Most Current Assessment Results
Uinta-Piceance Basin, Province 5020
(Province 20)
The information provided requires Acrobat Reader. Download Acrobat Reader Here.

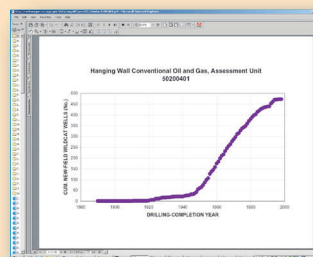
• Uinta-Piceance Basin, Province 5020 Factsheet
• 1995 Assessment Results

Basin Results Assessment Units GIS Download Interactive Map

Get Document Descriptions Here
View Download and File Format Information Here

For further information please contact:
Chris Schenk
Project Chief

U.S. Geological Survey
Box 25046, MS 939,
Denver Federal
Center, Denver, CO
80225
303-236-5796
schenk@usgs.gov



USGS
science for a changing world
National Assessment of Oil and Gas Project:
Petroleum Systems and Geologic Assessment of Oil and Gas in the Uinta-Piceance Province, Utah and Colorado

Main Contents

Viewing PDF files requires Adobe Acrobat or similar software, that can be downloaded [here](#) if needed.

ReadMe File (View PDF file, 108 KB)

Executive Summary (View PDF file, 2.4 MB)

Assessment Reports (View PDF file, 245 KB)

GIS Data/Metadata (National Oil & Gas Assessment Data Web Site (NOGAS))

U.S. Geological Survey
Box 25046, MS 939,
Denver Federal
Center, Denver, CO
80225
303-236-5796
schenk@usgs.gov

General Assessment Results

2003 Geologic Report	View Report (pdf)
2003 Conventional Assessment Input Data	Download
2003 Continuous Assessment Input Data	Download
2003 Estimation of Potential Additions to Reserves	Download
2003 Discovered Volumes	Download

2003 Allocations

General Land Ownership	Download
Federal Land Ownership	Download

USGS
science for a changing world
National Oil & Gas Assessment
Central Energy Team >> Oil & Gas >> National Oil & Gas

Most Current Assessment Results

• Uinta-Piceance Basin
• 1995 Assessment Results

Basin Results Assessment Units

Phosphoria Total Petroleum System:

Hanging Wall Assessment Unit
Choose a Report
Choose a Report
Assessment Results
Discovery Table
Undiscovered Conventional Resources, Detailed Output
Exploration/Discovery History Graphs, Known Volumes
Exploration/Discovery History Graphs, Growth Volumes
Data Input Forms for Conventional Accumulations (7th Approximation)

Get Document Descriptions Here

For further information please contact:
Chris Schenk
Project Chief

U.S. Geological Survey
Box 25046, MS 939,
Denver Federal
Center, Denver, CO
80225
303-236-5796
schenk@usgs.gov

Green River Total Petroleum System:

Uinta Green River Conventional Oil and Gas Assessment Unit
Choose a Report

Deep Uinta Overpressured Continuous Oil Assessment Unit
Choose a Report

Piceance Green River Conventional Oil Assessment Unit
Choose a Report

Phosphoria Total Petroleum System:

Paleozoic/Mesozoic Assessment Unit
Choose a Report

Hanging Wall Assessment Unit
Choose a Report

CERT Navigation Banner Oil & Gas Coal Other Topics Products

Layer Info Dialogue For Mesaverde Tot...

Download Spatial Data
Shape Export File Metadata

The Assessment Units (5) page provides assessment unit results by TPS, which can be viewed or downloaded in PDF tables, forms, or graphs. Some or all of the following files are available for each assessment unit: Assessment Results; Discovery Table; Undiscovered Conventional Resources, Detailed Output (Klett and others, 2000); Continuous Resources, Detailed Output (Klett and others, 2000); Exploration/Discovery History Graphs, Known Volumes (Klett and others, 1997); Exploration/Discovery History Graphs, Grown Volumes (Klett and others, 2000); Data Input Forms for Conventional Accumulations (Seventh Approximation Data, Schmoker and Klett, 1999); Data Input Forms for Continuous Accumulations (FORSPAN, Schmoker, 1999).

GIS download provides assessment results in shapefile (ESRI, 1998) and Arc/Info EXPORT format complete with FGDC-compliant metadata (Federal Geographic Data Committee, 2000) (6).

Also provided are links to information associated with the layers, such as GIS data, metadata, thumbnail views, and links to the sources of the base cartographic layers (7).

Interactive map applications separate GIS use from GIS management, thus simplifying the utilization of GIS technology. Internet map services cater to a wide range of user levels, from novice to expert. Using GIS technology to build a research tool leads to that tool becoming a published product.

Map service products developed by CERT can be integrated into a wide variety of external applications, for example, the availability of NOGA Online map services from (1) the Geography Network (<http://www.geographynetwork.com/aboutus/index.html>), a global network of geographic information users and providers maintained by ESRI, and (2) the Geospatial One-Stop (<http://www.geodata.gov/>), one of 24 OMB electronic-government initiatives to enhance government efficiency.

A major goal of CERT is inter-organizational sharing and coordination of spatial data. Map services provide the framework for such coordination and sharing: A wide variety of client applications can be used, including web browsers and desktop GIS software; map services can be integrated into a range of custom applications; GIS data management is transparent to the user; data providers can control presentation of their local data; data are accessed and utilized in a distributive fashion.

References Cited

- ESRI (Environmental Systems Research Institute, Inc.), 1998, ESRI Shapefile Technical Description, An ESRI White Paper—July 1998. URL: <http://www.esri.com/library/whitepapers/pdfs/shapefile.pdf>.
- ESRI (Environmental Systems Research Institute, Inc.), 2003, ArcIMS, v. 4.01.
- Federal Geographic Data Committee, 2000, Content Standard for Digital Geospatial Metadata Workbook (For use with FGDC-STD-001-1998), Version 2.0. URL: http://www.fgdc.gov/publications/documents/metadata/workbook_0501_bmk.pdf.
- Klett, T.R., Ahlbrandt, T.S., Schmoker, J.W., and Dolton, G.L., 1997, Ranking of the world's oil and gas provinces by known petroleum volumes: U.S. Geological Survey Open Report 97-463, 1 CD-ROM. URL: <http://greenwood.cr.usgs.gov/energy/WorldEnergy/OF97-463/97463.html>.
- Klett, T.R., Schmoker, J.W., Charpentier, R.R., Ahlbrandt, T.S., and Ulmishek, G.F., 2000, Glossary, Chapter GL, in U.S. Geological Survey World Petroleum Assessment 2000—Description and results: U.S. Geological Survey Digital Data Series DDS-60, 4 CD-ROMs. URL: <http://energy.cr.usgs.gov/WEcont/chaps/GL.pdf>.
- Schmoker, J.W., 1999, U.S. Geological Survey assessment model for continuous (unconventional) oil and gas accumulations—The “FORSPAN” model, Version 1.0: U.S. Geological Survey Bulletin 2168, 9 p. URL: <http://pubs.usgs.gov/bul/b2168/>.
- Schmoker, J.W., and Klett, T.R., 1999, U.S. Geological Survey assessment model for undiscovered conventional oil, gas, and NGL resources—The seventh approximation, Version 1.0: U.S. Geological Survey Bulletin 2165, 7 p. URL: <http://pubs.usgs.gov/bul/b2165/>.
- USGS Uinta-Piceance Assessment Team, 2003, National Assessment of Oil and Gas Project: Petroleum Systems and Geologic Assessment of Oil and Gas in the Uinta-Piceance Province, Utah and Colorado: U.S. Geological Survey Digital Data Series DDS-69-B [CD-ROM]. URL: <http://geology.cr.usgs.gov/energy/noga/dds-69b/index.html>.

NOGA Online
<http://energy.cr.usgs.gov/oilgas/noga/>

For further information:

NOGA Online is available at the USGS Central Energy Team website:

<http://energy.cr.usgs.gov/oilgas/noga/>

Energy Team GIS Coordinator

Laura R.H. Biewick lbiewick@usgs.gov (303) 236-7773

Spatial Data Management

Gregory L. Gunther ggunther@usgs.gov (303) 236-5884

Christopher C. Skinner cskinner@usgs.gov (303) 236-1651

National Assessment of Oil and Gas Project Chief

Christopher J. Schenk schenk@usgs.gov (303) 236-5796

Information Systems Group Leader

David A. Ferderer dferdere@usgs.gov (303) 236-3611

USGS NOGA Assessment Team

<http://energy.cr.usgs.gov/oilgas/noga/staff.htm>