



National Assessment of Oil and Gas Project - Black Warrior Province (065) Quarter- Mile Cells

Metadata also available as

Metadata:

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Identification_Information:

Citation:

Citation_Information:

Originator: United States Geological Survey (USGS)

Publication_Date: 2003

Title:

National Assessment of Oil and Gas Project - Black Warrior Province (065) Quarter-Mile Cells

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publication_Place: Denver, Colorado

Publisher: U. S. Geological Survey, Central Energy Resources Team

Online_Linkage:

<http://certmapper.cr.usgs.gov/noga/servlet/NogaGISResultsServ?subtheme=65&page=gis&vintage=2000>

Larger_Work_Citation:

Citation_Information:

Originator: Schenk, C.J.

Publication_Date: 2003

Title:

Petroleum Systems and Geologic Assessment of Oil and Gas in the Black Warrior Province

Series_Information:

Series_Name: USGS Digital Data Series

Issue_Identification: DDS-69-I

Publication_Information:

Publication_Place: Denver, Colorado

Publisher: U.S. Geological Survey, Central Energy Resources Team

Online_Linkage: <http://pubs.usgs.gov/dds/dds-069/dds-069-i/>

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

Description:

Abstract:

Cell maps for each oil and gas assessment unit were created by the USGS as a method for illustrating the degree of exploration, type of production, and distribution of production in an assessment unit or province. Each cell represents a quarter-mile square of the land surface, and the cells are coded to represent whether the wells included within the cell are predominantly oil-producing, gas-producing, both oil and gas-producing, dry, or the type of production of the wells located within the cell is unknown. The well information was initially retrieved from the IHS Energy Group, PI/Dwights PLUS Well Data on CD-ROM, which is a proprietary, commercial database containing information for most oil and gas wells in the U.S. Cells were developed as a graphic solution to overcome the problem of displaying proprietary PI/Dwights PLUS Well Data. No proprietary data are displayed or included in the cell maps. The data from PI/Dwights PLUS Well Data were current as of October 2001 when the cell maps were created in 2002.

Purpose:

The purpose of the cell map is to display the exploration maturity, type of production, and distribution of production in quarter-mile cells in each of the oil and gas assessment units and each of the provinces defined for the National Assessment of Oil and Gas Project.

Supplemental_Information:

Oil and gas assessment units within province 065 (Black Warrior Province) are listed here by assessment unit number and name:

Number	Name
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50650101	Pre-Mississippian Carbonates Gas
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50650102	Carboniferous Sandstones Oil and Gas
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50650281	Black Warrior Basin Coalbed Gas
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The following is a description of the Online Linkage URLs:

[http://certmapper.cr.usgs.gov/noga/servlet/NogaGISResultsServ?](http://certmapper.cr.usgs.gov/noga/servlet/NogaGISResultsServ?subtheme=65&page=gis&vintage=2000)

[subtheme=65&page=gis&vintage=2000](http://certmapper.cr.usgs.gov/noga/servlet/NogaGISResultsServ?subtheme=65&page=gis&vintage=2000)> - GIS Data Download Page for Province 65

<http://pubs.usgs.gov/dds/dds-069/dds-069-i/> - Petroleum Systems and Geologic Assessment of Oil and Gas in the Black Warrior Province, USGS DDS-69-I

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

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2003

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -90.39

East_Bounding_Coordinate: -86.95

North_Bounding_Coordinate: 34.58

South_Bounding_Coordinate: 32.77

Keywords:

Theme:

Theme_Keyword_Thesaurus: Central Energy Resources Team Keyword Thesaurus

Theme_Keyword: National Assessment of Oil and Gas

Theme_Keyword: USGS World Energy Region 5

Theme_Keyword: Energy Resources

Theme_Keyword: Oil

Theme_Keyword: Natural Gas

Theme_Keyword: Resource Assessment

Theme_Keyword: Earth Science

Theme_Keyword: Natural Resources

Theme_Keyword: U.S. Geological Survey

Theme_Keyword: USGS

Theme_Keyword: Geology

Theme_Keyword: Assessment Unit

Theme_Keyword: Schenk, C.J.

Theme_Keyword: Cells

Theme:

Theme_Keyword_Thesaurus: ArcIMS Metadata Server Theme Codes

Theme_Keyword: geoscientificInformation

Theme:

Theme_Keyword_Thesaurus: Gateway to the Earth draft 9 28-Jun-2002

Theme_Keyword: Oil shale resources

Theme_Keyword: Oil sand resources

Theme_Keyword: Coalbed methane resources

Theme_Keyword: Gas hydrate resources

Theme_Keyword: Natural gas resources

Theme_Keyword: Economic geology

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: United States

Place_Keyword: USGS World Energy Region 5

Place_Keyword: Black Warrior

Place_Keyword: MS

Place_Keyword: AL

Place:

Place_Keyword_Thesaurus: Augmented FIPS 10-4 and FIPS 6-4, version 1.0

Place_Keyword: US01 = Alabama

Place_Keyword: US28 = Mississippi

Place:

Place_Keyword_Thesaurus: USGS Oil and Gas Provinces (NOGA-95)

Place_Keyword: 65 = Black Warrior

Place:

Place_Keyword_Thesaurus: USGS Oil and Gas Total Petroleum Systems (NOGA-2000)

Place_Keyword: 506501 = Chattanooga Shale/Floyd Shale-Paleozoic

Place_Keyword: 506502 = Pottsville Coal

Place:

Place_Keyword_Thesaurus: USGS Oil and Gas Assessment Units (NOGA-2000)

Place_Keyword: 50650101 = Pre-Mississippian Carbonates Gas

Place_Keyword: 50650102 = Carboniferous Sandstones Oil and Gas

Place_Keyword: 50650281 = Black Warrior Basin Coalbed Gas

Access_Constraints: none

Use_Constraints: none

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Christopher J. Schenk

Contact_Organization: U.S. Geological Survey, Central Energy Resources Team

Contact_Position: Geologist

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Box 25046, MS 939, Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: (303) 236-5796

Contact_Electronic_Mail_Address: schenk@usgs.gov

Data_Set_Credit: Biewick, L.R.H., Weiler, S. and Skinner, C.C.

Native_Data_Set_Environment: ARC/INFO version 8.2

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The cell locations and cell attributes were visually compared to the hard-copy map: Mast, R. F., Root, D.H., Williams, L.P., Beeman, W.R., and Barnett, D.L., 1998, Areas of historical oil and gas exploration and production in the conterminous United States: U.S. Geological Survey Oil and Gas Investigations Map I-2582, 1 sheet; <http://energy.cr.usgs.gov/oilgas/noga/oilgasmap.htm>.

Logical_Consistency_Report:

The accuracy of the cells, as created by the Arc Macro Language (AML) program of L.R.H. Biewick, S. Weiler and C.C. Skinner, depends upon the accuracy of the oil and gas well information in the 2001 version of the IHS Energy Group, PI/Dwights PLUS Well Data. For the National Assessment of Oil and Gas Project, the assumption was made that the data in PI/Dwights PLUS were of sufficient accuracy for such a national-scale analysis.

Completeness_Report:

The cells were defined using the 2001 well data in the IHS Energy Group, PI/Dwights PLUS. The PI/Dwights PLUS Well Data contains over two million, nine hundred thousand wells for the U.S., which, although not a complete tabulation of all U.S. wells, is the most complete well database available for the United States.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

A visual comparison was made using a sampling of cell locations and cell attributes with well locations and attributes. In particular, the values of latitude and longitude for the wells in PI/Dwights PLUS Well Data were assumed to be accurate.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: Schenk, C.J.

Publication_Date: 2002

Title:

Petroleum Systems and Geologic Assessment of Oil and Gas in the Black Warrior Province,

Series_Information:

Series_Name: U.S. Geological Survey Digital Data Series

Issue_Identification: DDS-69-I

Publication_Information:

Publication_Place: Denver, Colorado

Publisher: U.S. Geological Survey

Other_Citation_Details: na

Type_of_Source_Media: CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2003

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: USGS Black Warrior Assessment Team (2002)

Source_Contribution: Province 65 assessment, digital map data, source attributes

Source_Information:

Source_Citation:

Citation_Information:

Originator: IHS Energy Group

Publication_Date: 2001

Title: PI/Dwights PLUS Well Data on CD-ROM

Publication_Information:

Publication_Place: Denver, Colorado

Publisher: IHS Energy Group

Type_of_Source_Media: Digital

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 200109

Source_Currentness_Reference: 200109

Source_Citation_Abbreviation: PI/Dwights PLUS Well Data on CD-ROM

Source_Contribution: Lat./Long. Points, Final Well Class

Process_Step:

Process_Description:

The province geologist mapped the Assessment Unit boundary on a hard copy base map at 1:750,000 provided by the project that contained data from IHS Energy Group, PI/Dwights PLUS Well Data (1999, 2000 and 2001 updates), and the Nehring Significant Oil and Gas Field File (1999 update). The province geologist then plotted all other available geologic and geophysical well data and information on the hard copy base map to assist in mapping the Assessment Unit boundary. Following review, the Assessment Unit boundary was digitally transferred from the hard copy base map using Arcedit.

Source_Used_Citation_Abbreviation: USGS DDS-69-I

Process_Date: 2001

Process_Step:

Process_Description:

Oil and gas well data for the U.S. were run through an Arc Macro Language (AML) program written by L.R.H. Biewick, S. Weiler, and C.C. Skinner. This program aggregated and converted the 2001 PI/Dwights PLUS Well Data into quarter-mile cells and latitude-longitude points that represent the center-points of the quarter-mile cells. For each of the Assessment Units, cells were isolated from the national coverage based on the Assessment Unit wells. The Assessment Unit cells were then assigned an attribute based on the type of production of the wells located within the cell. Region, province, total petroleum system, and assessment unit codes and names were appended to the file using lookup information acquired from tables created for the National Assessment of Oil and Gas Project.

Process_Date: 2003

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Complete chain

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Point

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 0.000001

Longitude_Resolution: 0.000001

Geographic_Coordinate_Units: Decimal degrees

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.0

Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: au"assessunitnum"cg.pat or au"assessunitnum"cg.dbf

Entity_Type_Definition:

Polygon Attribute Table. For each assessment unit, "assessunitnum" is replaced with the assessment unit number in either a file, au"assessunitnum"g.pat, or a table, au"assessunitnum"g.dbf. To keep the size of filenames less than 10 characters, "assessunitnum" does not include the first 2 characters of the region/province number.

Entity_Type_Definition_Source: U.S. Geological Survey

Attribute:

Attribute_Label: REG_NUM

Attribute_Definition: Region Number

Attribute_Definition_Source: U.S. Geological Survey Energy Resource World Regions

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 5

Enumerated_Domain_Value_Definition: North America

Attribute:

Attribute_Label: REG_NAME

Attribute_Definition: Region Name

Attribute_Definition_Source: U.S. Geological Survey Energy Resource World Regions

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: North America

Attribute:

Attribute_Label: PROVCODE

Attribute_Definition: Province Code

Attribute_Definition_Source: U.S. Geological Survey Energy Resource Provinces

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 5065
Enumerated_Domain_Value_Definition: Black Warrior
Attribute:
Attribute_Label: PROV_NAME
Attribute_Definition: Province Name
Attribute_Definition_Source: U.S. Geological Survey Energy Resource Provinces
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Black Warrior
Attribute:
Attribute_Label: TPSCODE
Attribute_Definition: Total Petroleum System Code
Attribute_Definition_Source: U.S. Geological Survey Energy Resource Total Petroleum Systems
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 506501
Enumerated_Domain_Value_Definition: Chattanooga Shale/Floyd Shale-Paleozoic
Enumerated_Domain:
Enumerated_Domain_Value: 506502
Enumerated_Domain_Value_Definition: Pottsville Coal
Attribute:
Attribute_Label: TPSNAME
Attribute_Definition: Total Petroleum System Name
Attribute_Definition_Source: U.S. Geological Survey Energy Resource Total Petroleum Systems
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Chattanooga Shale/Floyd Shale-Paleozoic
Enumerated_Domain:
Enumerated_Domain_Value: Pottsville Coal
Attribute:
Attribute_Label: ASSESSCODE
Attribute_Definition: Assessment Unit Code
Attribute_Definition_Source: U.S. Geological Survey Energy Resource Assessment Units
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: 50650101
Enumerated_Domain_Value_Definition: Pre-Mississippian Carbonates Conventional Gas
Enumerated_Domain:
Enumerated_Domain_Value: 50650102
Enumerated_Domain_Value_Definition: Carboniferous Sandstones Conventional Oil and Gas
Enumerated_Domain:
Enumerated_Domain_Value: 50650281
Enumerated_Domain_Value_Definition: Black Warrior Continuous Coalbed Gas
Attribute:

Attribute_Label: ASSESSNAME

Attribute_Definition: Assessment Unit Name

Attribute_Definition_Source: U.S. Geological Survey Energy Resource Assessment Units

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Pre-Mississippian Carbonates Conventional Gas

Enumerated_Domain:

Enumerated_Domain_Value: Carboniferous Sandstones Conventional Oil and Gas

Enumerated_Domain:

Enumerated_Domain_Value: Black Warrior Continuous Coalbed Gas

Attribute:

Attribute_Label: CELLSYMB

Attribute_Definition: Production Status

Attribute_Definition_Source: U.S. Geological Survey

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition:

Cell contains at least one productive oil well, but no productive gas wells (green).

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition:

Cell contains at least one productive gas well, but no productive oil wells (red).

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition:

Cell contains at least one productive oil well and at least one productive gas well or one well producing both oil and gas (purple).

Enumerated_Domain:

Enumerated_Domain_Value: 4

Enumerated_Domain_Value_Definition:

The type of production of the wells located within the cell is unknown, or the cell contains no producing wells (charcoal).

Distribution_Information:

Resource_Description: Downloadable Data

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS Information Services

Contact_Address:

Address_Type: mailing address

Address: Box 25286 Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: 1-888-ASK-USGS

Contact_Facsimile_Telephone: 303-202-4693

Contact_Electronic_Mail_Address: ask@usgs.gov

Resource_Description: USGS Digital Data Series DDS-69-I

Distribution_Liability:

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: Shapefile

Format_Information_Content: Assessment unit geographic features and attribute data

File-Decompression_Technique: unzip

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650101cg.zip>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650101cg.zip)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650102cg.zip>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650102cg.zip)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650281cg.zip>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650281cg.zip)

Access_Instructions:

The URL's above link to individual Assessment Unit cells. For example, au650101cg.zip links to quarter-mile cells for Assessment Unit 50650101.

Digital_Form:

Digital_Transfer_Information:

Format_Name: ArcInfo Export File

Format_Version_Number: 8.0

Format_Information_Content: Assessment unit geographic features and attribute data

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650101cg.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650101cg.e00)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650102cg.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650102cg.e00)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650281cg.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650281cg.e00)

Access_Instructions:

The URL's above link to individual Assessment Unit cells. For example, au650101cg.e00 links to quarter-mile cells for Assessment Unit 50650101.

Digital_Form:

Digital_Transfer_Information:

Format_Name: Image Map Service (prov65_2000)

Format_Version_Number: 4.0

Format_Specification: ArcIMS Image Map Service

Format_Information_Content:

A web-based interactive mapping system that accesses an ArcIMS Map Service running on certmapper.cr.usgs.gov.

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/noga/servlet/NogaMapViewBroker?province=65&Vintage=2000>](http://certmapper.cr.usgs.gov/noga/servlet/NogaMapViewBroker?province=65&Vintage=2000)

Access_Instructions:

This URL links to a web-based interactive mapping system that accesses an ArcIMS Image Map Service. The mapservice can also be accessed using any custom client that adheres to the protocol specified through ArcXML.

Fees: None

Ordering_Instructions:

These products can be downloaded individually using any one of the Network_Resource_Name URLs above. Each of these URLs provide access to various formats of these data.

Metadata_Reference_Information:

Metadata_Date: 20020722

Metadata_Review_Date: 20020730

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization:

U.S. Geological Survey, Central Energy Resources Team, Data Management Project

Contact_Person: Chris Anderson

Contact_Position: GIS Specialist

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Box 25046, MS 939, Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Electronic_Mail_Address: datamgt@usgs.gov

Contact_Instructions:

For inquiries regarding this document, please include the metadata contact person's name, dataset name, and publication series and number.

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Generated by [mp](#) version 2.7.33 on Tue Jan 20 13:43:17 2004