



National Assessment of Oil and Gas Project - Black Warrior Basin Province (065) Total Petroleum Systems

Metadata also available as

Metadata:

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- [Spatial Reference Information](#)
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- [Distribution Information](#)
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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 Basin Province (065) Total
Petroleum Systems

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](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 Basin 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:

The Total Petroleum System is used in the National Assessment Project and incorporates the Assessment Unit, which is the fundamental geologic unit used for the assessment of undiscovered oil and gas resources. The Total Petroleum System is shown here as a geographic boundary defined and mapped by the geologist responsible for the province and incorporates not only the set of known or postulated oil and (or) gas accumulations, but also the geologic interpretation of the essential elements and processes within the petroleum system that relate to source, generation, migration, accumulation, and trapping of the discovered and undiscovered petroleum resource(s).

Purpose:

The purpose of this map is to define and illustrate the geographic limit and geologic boundaries of the Total Petroleum System as required for the USGS National Assessment of Oil and Gas Project. The boundaries define the combined limits of the petroleum system elements -- source rock, reservoir rock, seal rock, and trap--which are described and defined in the text portions of this publication.

Supplemental_Information:

Total Petroleum Systems (TPS) within province 5065 (Black Warrior Basin) are listed here by TPS number and name:

Number	Name
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506501	Chattanooga Shale/Floyd Shale-Paleozoic
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506502	Pottsville Coal
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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 Assessment of the Black Warrior Basin 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: Total Petroleum System

Theme_Keyword: Schenk, C.J.

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

Theme:

Theme_Keyword_Thesaurus: ArcIMS Metadata Server Theme Codes

Theme_Keyword: geoscientificInformation

Place:

Place_Keyword_Thesaurus: none

Place_Keyword: United States

Place_Keyword: USGS World Energy Region 5

Place_Keyword: Black Warrior Basin

Place_Keyword: AL

Place_Keyword: MS

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: Black Warrior Basin

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_Quality_Information:

Logical_Consistency_Report:

The Total Petroleum System was defined on the basis of mapping the surface and subsurface geology of the source rock(s) from the literature and well data files, and by burial and thermal history modeling the source-rock stratigraphic intervals. The province geologist was required to defend the geologic boundaries and geologic history of each Total Petroleum System in a formal petroleum system review meeting.

Completeness_Report:

The Total Petroleum System was mapped from published literature, interpretations of in-house geophysical well logs, thermal- and burial-history modeling, and on the data contained in the IHS Energy Group, WHCS data base for wells (1999 update), and the Nehring Significant Oil and Gas Field File (1999 update).

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The Total Petroleum System boundary represents the gross boundary of the combined geologic elements that comprise the Total Petroleum System. The Total Petroleum System boundary was mapped on a 1:2,000,000-scale hard copy base map by the province geologist and the boundary line digitally transferred using Arcedit. The Total Petroleum System boundary lines are not intended for use at a scale greater than 1:2,000,000.

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 Basin 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

Source_Scale_Denominator: 2000000

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

Process_Step:

Process_Description:

The province geologist mapped the Total Petroleum System boundary on a hard copy base map at 1:2,000,000 provided by the project after plotting all available geologic and geophysical well data and information on the hard copy base map. Similarly, data contained in the IHS Energy Group, WHCS data base for wells (1999 update), and the Nehring Significant Oil and Gas Field File (1999 update) were plotted on the base map for reference. Following review, the Total Petroleum System boundary was digitally transferred from the hard copy base map using Arcedit.

Process_Date: Unknown

Process_Step:

Process_Description:

The coverage was projected to Lambert Conformal Conic, the Black Warrior was selected and placed into this unique coverage. The data were then projected to Geographic, NAD 83, for

consistency with data in other provinces.

Process_Date: 2002

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: tps"tpsnum"g.pat or tps"tpsnum"g.dbf

Entity_Type_Definition:

Polygon Attribute Table. For each Total Petroleum System (TPS), "tpsnum" is replaced with the TPS number in either a file, tps"tpsnum"g.pat, or a table, tps"tpsnum"g.dbf. To keep the size of filenames less than 10 characters, "tpsnum" 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

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: Total Petroleum System 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/tps6501g.zip>

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/tps6502g.zip>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/tps6502g.zip)

Access_Instructions:

The URL's above link to individual Total Petroleum System Boundaries. For example, tps6501g.zip links to Total Petroleum System 506501.

Digital_Form:

Digital_Transfer_Information:

Format_Name: ArcInfo Export File

Format_Version_Number: 8.0

Format_Information_Content: Total Petroleum System 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/tps6501g.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/tps6501g.e00)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/tps6502g.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/tps6502g.e00)

Access_Instructions:

The URL's above link to individual Total Petroleum System Boundaries. For example, tps6501g.e00 links to Total Petroleum System 506501.

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 (contractor)

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 13:44:01 2004