

National Assessment of Oil and Gas Project - Black Warrior Province (065) Assessment Units

Metadata also available as

Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

Identification_Information:

Citation:

Citation_Information:

Originator: United States Geological Survey (USGS)

Publication_Date: 2002

Title:

National Assessment of Oil and Gas Project - Black Warrior Province (065) Assessment Units

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 Basin

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/>](http://pubs.usgs.gov/dds/dds-069/dds-069-i/)

Online_Linkage: [<http://energy.cr.usgs.gov/oilgas/noga/>](http://energy.cr.usgs.gov/oilgas/noga/)

Description:

Abstract:

The Assessment Unit is the fundamental unit used in the National Assessment Project for the assessment of undiscovered oil and gas resources. The Assessment Unit is defined within the context of the higher-level Total Petroleum System. The Assessment Unit is shown here as a geographic boundary interpreted, defined, and mapped by the geologist responsible for the province and incorporates a set of known or postulated oil and (or) gas accumulations sharing similar geologic, geographic, and temporal properties within the Total Petroleum System, such as source rock, timing, migration pathways, trapping mechanism, and hydrocarbon type. The Assessment Unit boundary is defined geologically as the limits of the geologic elements that define the Assessment Unit, such as limits of reservoir rock, geologic structures, source rock, and seal lithologies. The only exceptions to this are Assessment Units that border the Federal-State water boundary. In these cases, the Federal-State water boundary forms part of the Assessment Unit boundary.

Purpose:

The purpose of these files is to define and illustrate the geographic limit and geologic boundaries of the Assessment Units within the defined Total Petroleum Systems, as required for the USGS National Assessment of Oil and Gas Project. The Assessment Units were used as the fundamental units for the assessment of undiscovered oil and gas. The assessment unit boundaries define the combined geologic limits of each Assessment Unit and are described and defined in the text portions of this assessment publication.

Supplemental_Information:

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

Number Name

50650101 Pre-Mississippian Carbonates Gas

50650102 Carboniferous Sandstones Oil and Gas

50650281 Black Warrior Basin Coalbed Gas

The following is a description of the Online Linkage URLs:

[<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) - GIS Data Download Page for Province 65

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

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

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_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The main attribute for the Assessment Unit coverage is the eight digit number that identifies the USGS-specific Assessment Unit. The first digit of the code indicates the World region number (5), the following three digits (065) are the North America province number, the following two digits (5065xx) are the Total Petroleum System number, and the last two digits (506501xx) are the Assessment Unit number of that particular Total Petroleum System.

The assessment results attributes have been rounded to two decimal places. For more detailed assessment results data, refer to the tabular information for the Black Warrior Basin Province that is available at NOGA Online (the URL is listed in the Online Linkage). The fracture

estimates for the largest oil or gas accumulations are calculated for conventional accumulations and are defined as character fields because they may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment. Assessment units that contain no assessment results attributes are those that were not quantitatively assessed.

Logical_Consistency_Report:

The Assessment Unit boundary was defined on the basis of the surface and subsurface geology of the petroleum system elements, and oil and gas production, shows, and seeps related to the Assessment Unit. The province geologist was required to defend the geologic boundaries of each Assessment Unit in a formal geologic and petroleum system review meeting.

Completeness_Report:

The Assessment Unit was mapped in part 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 Assessment Unit boundary represents the gross boundary of the combined geologic elements that comprise the Total Petroleum System. The Assessment Unit 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 Assessment Unit 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: 2003

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 (2003)

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

Process_Step:

Process_Description:

The province geologist mapped the Assessment Unit boundary on a hard copy base map at 1:2,000,000 provided by the project that contained data from IHS Energy Group, WHCS data base for wells (1999 update), 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: 2000

Process_Step:

Process_Description:

The assessment results attributes have been rounded to two decimal places. For more detailed assessment results data, refer to the tabular information for the Black Warrior Basin Province that is available at NOGA Online (the URL is listed in the Online Linkage). The fractile estimates for the largest oil or gas accumulations are calculated for conventional accumulations and are defined as character fields because they may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment. Assessment units that contain no assessment results attributes are those that were not quantitatively assessed.

Source_Used_Citation_Abbreviation: USGS DDS-69-I

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"g.pat or au"assessunitnum"g.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: ASSESSTYPE

Attribute_Definition: Assessment Unit Type

Attribute_Definition_Source:

U.S. Geological Survey Energy Resource Assessment Unit Types. Both conventional and continuous accumulations are assessed

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Conventional

Enumerated_Domain:

Enumerated_Domain_Value: Continuous

Attribute:

Attribute_Label: ASSESSPROB

Attribute_Definition: Assessment Unit Probability

Attribute_Definition_Source:

U.S. Geological Survey Energy Resource Assessment Unit Probabilities

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: OIL_F95

Attribute_Definition:

95% probability of greater than this volume of undiscovered oil in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: OIL_F50

Attribute_Definition:

50% probability of greater than this volume of undiscovered oil in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: OIL_F5

Attribute_Definition:

5% probability of greater than this volume of undiscovered oil in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: OILMEAN

Attribute_Definition:

The mean estimate of volume of undiscovered oil in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: OILSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of undiscovered oil in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: ADGAS_F95

Attribute_Definition:

95% probability of greater than this volume of undiscovered gas (associated/dissolved gas) in oil accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: ADGAS_F50

Attribute_Definition:

50% probability of greater than this volume of undiscovered gas (associated/dissolved gas) in oil accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: ADGAS_F5

Attribute_Definition:

5% probability of greater than this volume of undiscovered gas (associated/dissolved gas) in oil accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: ADGASMEAN

Attribute_Definition:

The mean estimate of volume of undiscovered gas (associated/dissolved gas) in oil accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: ADGASSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of undiscovered gas (associated/dissolved gas) in oil accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NGL_F95

Attribute_Definition:

95% probability of greater than this volume of undiscovered natural gas liquids (NGL) in oil accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NGL_F50

Attribute_Definition:

50% probability of greater than this volume of undiscovered natural gas liquids (NGL) in oil accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NGL_F5

Attribute_Definition:

5% probability of greater than this volume of undiscovered natural gas liquids (NGL) in oil accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NGLMEAN

Attribute_Definition:

The mean estimate of volume of undiscovered natural gas liquids (NGL) in oil accumulations

in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NGLSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of undiscovered natural gas liquids (NGL) in oil accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGAS_F95

Attribute_Definition:

95% probability of greater than this volume of undiscovered gas (non-associated gas) in gas accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGAS_F50

Attribute_Definition:

50% probability of greater than this volume of undiscovered gas (non-associated gas) in gas accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGAS_F5

Attribute_Definition:

5% probability of greater than this volume of undiscovered gas (non-associated gas) in gas accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGASMEAN

Attribute_Definition:

The mean estimate of volume of undiscovered gas (non-associated gas) in gas accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGASSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of undiscovered gas (non-associated gas) in gas accumulations in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGL_F95

Attribute_Definition:

95% probability of greater than this volume of undiscovered liquids in gas accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGL_F50

Attribute_Definition:

50% probability of greater than this volume of undiscovered liquids in gas accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGL_F5

Attribute_Definition:

5% probability of greater than this volume of undiscovered liquids in gas accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGLMEAN

Attribute_Definition:

The mean estimate of volume of undiscovered liquids in gas accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin

2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: NAGLSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of undiscovered liquids in gas accumulations in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain: stored as a floating-point value

Attribute:

Attribute_Label: OILLG_F95

Attribute_Definition:

95% probability of greater than this volume for the largest expected undiscovered conventional oil accumulation in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: OILLG_F50

Attribute_Definition:

50% probability of greater than this volume for the largest expected undiscovered conventional oil accumulation in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: OILLG_F5

Attribute_Definition:

5% probability of greater than this volume for the largest expected undiscovered conventional oil accumulation in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: OILLGMEAN

Attribute_Definition:

The mean estimate of volume of the largest expected undiscovered conventional oil accumulation in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: OILLGSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of the largest expected undiscovered conventional oil accumulation in the assessment unit (in millions of barrels)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: GASLG_F95

Attribute_Definition:

95% probability of greater than this volume for the largest expected undiscovered conventional gas accumulation in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: GASLG_F50

Attribute_Definition:

50% probability of greater than this volume for the largest expected undiscovered conventional gas accumulation in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: GASLG_F5

Attribute_Definition:

5% probability of greater than this volume for the largest expected undiscovered conventional gas accumulation in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: GASLGMEAN

Attribute_Definition:

The mean estimate of volume of the largest expected undiscovered conventional gas accumulation in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

Attribute:

Attribute_Label: GASLGSTDEV

Attribute_Definition:

The standard deviation of the distribution of volume of the largest expected undiscovered conventional gas accumulation in the assessment unit (in billions of cubic feet)

Attribute_Definition_Source: USGS DDS-69-I; USGS DDS-60, Chpt. AM; USGS Bulletin 2165

Attribute_Domain_Values:

Unrepresentable_Domain:

defined as character field; may be blank (not zero) if the accumulation is less than the minimum undiscovered field size used in the assessment

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

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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/au650101g.zip>

Network_Resource_Name:

<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650102g.zip>

Network_Resource_Name:

<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/shape/au650281g.zip>

Access_Instructions:

The URL's above link to individual Assessment Unit Boundaries. For example, au650101g.zip links to 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/au650101g.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650101g.e00)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650102g.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650102g.e00)

Network_Resource_Name:

[<http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650281g.e00>](http://certmapper.cr.usgs.gov/data/noga00/prov65/spatial/export/au650281g.e00)

Access_Instructions:

The URL's above link to individual Assessment Unit Boundaries. For example, au650101g.e00 links to 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

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

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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

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