U.S. Geological Survey
Digital Data Series DDS–69–M

World Petroleum Resources Project:

Jurassic-Cretaceous Composite Total Petroleum System and Geologic Assessment of Oil and Gas Resources of the North Cuba Basin, Cuba

By U.S. Geological Survey North Cuba Basin Assessment Team

Introduction

The purpose of the U.S. Geological Survey's (USGS) World Oil and Gas Assessment is to develop geologically based hypotheses regarding the potential for additions to oil and gas reserves in priority areas of the world. The U.S. Geological Survey (USGS) completed an assessment of the undiscovered oil and gas potential of the North Cuba Basin.

The assessment is based on the geologic elements of the total petroleum system (TPS) defined in the province, including petroleum source rocks (source-rock maturation, generation, and migration), reservoir rocks (sequence stratigraphy and petrophysical properties), and petroleum traps (Trap formation and timing). Using this geologic framework, the USGS defined a Jurassic-Cretaceous Total Petroleum System in the North Cuba Basin Province. Within this TPS, three assessment units were defined and assessed for undiscovered oil and gas resources.

Contact Information

This volume is one of a series of products resulting from the National Oil and Gas Assessment project of the U.S. Geological Survey. Inquiries about this CD-ROM or the project should be addressed to:

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Using This CD

The descriptive and interpretive text chapters of this volume are in PDF format. Use Acrobat Reader 7.0 (installer for Mac and Windows provided on this CD–ROM) to access and bring up these chapters.

GIS information is presented in the Spatial folder and its subdirectories that contain the spatial data, documentation, and export files. The Spatial folder also contains the ArcGIS project (Cuba.mxd), the ArcReader project (Cuba.pmf), and a description of the GIS project in both .htm and .pdf formats.

The Spatial/Doc folder contains metadata for the North Cuba Basin Province spatial data in .htm format. The Spatial/Image folder contains images used in both the GIS projects and the Metadata documents. The Spatial/Shape folder contains ArcView/ArcGIS shapefiles used in the two GIS projects.

GIS Projects—Getting Started

North Cuba Basin GIS Project Display Options

There are several display options available to view spatial data contained on this CD–ROM:

ArcMap

A customized ArcMap project has been included (DDS69M/SPATIAL/Cuba.mxd) to facilitate the display of the data. This project is included on the CD-ROM under the assumption that a large portion of viewers 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.

The ArcMap project utilizes relative path names, which is an option when saving the file. To open the project, start ArcMap and navigate to the file location on this CD-ROM (SPATIAL/Cuba.mxd).

ArcReader

For those without access to ArcMap software, the ArcMap project has been converted to an ArcReader project (SPATIAL/Cuba.pmf). ArcReader is free software provided by ESRI. The ArcReader project maintains most of the functionality present in the ArcMap project. To open the ArcReader project, download the ArcReader software from ESRI; start ArcReader and navigate to the ArcReader .pmf file on this CD–ROM. This freeware may be downloaded from www.esri.com or follow the link below:
Arcreader can be downloaded for Windows from ESRI's Website http://www.esri.com/software/arcgis/arcreader/download.html

Other

The spatial data are also provided in the ESRI Shapefile format (SPATIAL/Shape folder).

Contents of This CD–ROM

When the CD–ROM is opened, the following folders appear on the screen:
ACROBAT—contains installer for Acrobat Reader 7.0.
OPEN_FIRST—from OPEN_FIRST.pdf in this folder, navigate to the ReadMe file, an executive summary, pages of chapter titles, and the GIS data and metadata.
READ_ME—you can access the ReadMe file from this folder also.
REPORTS—listing of, and links to, the chapters, plus the tabular data.
SPATIAL—folder containing files for the GIS data and metadata.

There are several routes to the information in this volume.

System Requirements

MAC OS X
Adobe Reader 7
- Power PC G3, G4, G5 processor
- Mac OS X v.10.2.8 or 10.3
- 128 MB of RAM
- 80 MB of available hard disk space (110 MB required for the full version)
- 800 x 600 screen resolution

WINDOWS
Adobe Reader 7.0 MS Windows
- Intel Pentium-class processor
- Windows XP Professional or Home Edition with SP1 or SP2, or Tablet

PC Edition
- Microsoft Windows 2000 with Service Pack 2 (SP2)
- 128 MB of RAM
- 90 MB of available hard-disk space for the full version
- 800 x 600 monitor resolution

Requirements for ArcReader 9.2 for Windows:
- 1.6 GHz Intel Pentium, Intel Zeon Processors, or Intel Core Duo
- Windows XP Home and Professional Editions
- 1 GB RAM Minimum, 2 GB recommended
- 410 MB Disk Space

Requirements for ArcView 9.2 for Windows:

- 1.6 GHz Intel Processor
- Windows XP or Windows Vista
- 1 GB RAM

Note: Installers for Acrobat Reader 7.0 for Macintosh and Windows platforms are provided on this CD–ROM.