

U.S. Department of the Interior Digital Data Series DDS-69-T

National Assessment of Oil and Gas Project

Geologic Assessment of Undiscovered Oil and Gas Resources of the U.S. Portion of the Michigan Basin



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By U.S. Geological Survey Michigan Basin Assessment Team

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Introduction

In 2004, the U.S. Geological Survey (USGS) completed an assessment of the undiscovered oil and gas potential of the U.S. portion of the Michigan Basin. For this assessment, the Michigan Basin includes most of the State of Michigan, as well as parts of Illinois, Indiana, Minnesota, Ohio, and Wisconsin. The assessment was based on the geologic elements of each of the six total petroleum systems defined in the basin, including (1) hydrocarbon source rocks (source-rock maturation and hydrocarbon generation and migration), (2) reservoir rocks (sequence stratigraphy and petrophysical properties), and (3) hydrocarbon traps (trap formation and timing). Using this geologic framework, the USGS estimated mean technically recoverable undiscovered continuous and conventional resources that total 990 million barrels of oil, 11.4 trillion cubic feet of natural gas, and 219 million barrels of natural gas liquids.

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-ROM

The descriptive and interpretive text chapters of this volume are in PDF format. Use Acrobat Reader Version XI or later to access and view these chapters.

The USGS Central Energy Resources Science Center has developed an Internet Map Service to deliver the GIS data to the public. The spatial data that formed the basis of the GIS are accessible at the USGS Energy Resources Web site (<http://energy.usgs.gov/OilGas/AssessmentsData/NationalOilGasAssessment/USBasinSummaries.aspx?theTab=dataTab&pvcode=5063>). Most of the base cartographic data layers used in the GIS project were obtained from the U.S. Department of the Interior National Atlas Web site, www.nationalatlas.gov, or the U.S. Geological Survey National Map, <http://viewer.nationalmap.gov/viewer/>.

Contents of This CD-ROM

When the CD-ROM is opened, the following folders appear on the screen:

- OPEN_FIRST—from OPEN_FIRST.pdf in this folder, navigate to the ReadMe file, chapter titles, and the GIS and other digital data and metadata.
- READ_ME—you can access the ReadMe file from this folder also.
- REPORTS—listing of, and links to, the chapters, including the tabular data.

There are several routes to the information in this volume.

System Requirements

Acrobat Reader XI system requirements

Windows

- 1.3 GHz or faster processor
- Microsoft® Windows® XP with Service Pack 3 for 32 bit or Service Pack 2 for 64 bit; Windows Server® 2003 R2 (32 bit and 64 bit); Windows Server 2008 or 2008 R2 (32 bit and 64 bit); Windows 7 (32 bit and 64 bit); Windows 8 (32 bit and 64 bit)
- 512 MB of RAM (1 GB recommended)
- 1.85 MB of available hard-disk space
- 1024 × 768 screen resolution
- Note: For 64-bit versions of Windows Server 2003 R2 and Windows XP (with Service Pack 2), Microsoft Update KB930627 is required.

Mac OS

- Intel® processor
- Mac OS X v.10.6.8, v.10.7.4, or v.10.8
- 1 GB of RAM
- 1.5 MB of available hard-disk space
- 1024 × 768 screen resolution



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