

U.S. Geological Survey
Digital Data Series DDS-69-S

National Oil and Gas Assessment Project:

Geologic Assessment of Undiscovered, Technically Recoverable Coalbed-Gas Resources in Cretaceous and Tertiary Rocks, North Slope and Adjacent State Waters, Alaska

Compiled by Stephen B. Roberts

U.S. DEPARTMENT OF THE INTERIOR
DIRK KEMPTHORNE, Secretary

U.S. GEOLOGICAL SURVEY
Mark D. Myers, Director

For sale by U.S. Geological Survey Information Services
Box 25286, Building 810
Denver Federal Center
Denver, CO 80225-0086
Telephone (303) 202-4200

For more information about the U.S. Geological Survey and its products:
Telephone 1-888-ASK-USGS
URL: <http://www.usgs.gov>

Introduction

The purpose of the U.S. Geological Survey's (USGS) National Oil and Gas Assessment is to develop geology-based hypotheses regarding the potential for additions to oil and gas reserves in priority areas of the United States, focusing on the distribution, quantity, and availability of oil and natural gas resources. The USGS has completed an assessment of the undiscovered, technically recoverable coalbed-gas resources in Cretaceous and Tertiary rocks underlying the North Slope and adjacent State waters of Alaska (USGS Northern Alaska Province 5001). The province is a priority Energy Policy and Conservation Act (EPCA) province for the National Assessment because of its potential for oil and gas resources.

The assessment of this province is based on geologic principles and uses the total petroleum system concept. The geologic elements of a total petroleum system include hydrocarbon source rocks (source rock maturation, hydrocarbon generation and migration), reservoir rocks (stratigraphy, sedimentology, petrophysical properties), and hydrocarbon traps (trap formation and timing). In the Northern Alaska Province, the USGS used this geologic framework to define one composite coalbed gas total petroleum system and three coalbed gas assessment units within the petroleum system, and quantitatively estimated the undiscovered coalbed-gas resources within each assessment unit.



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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:

Christopher J. Schenk, Project Chief
U.S. Geological Survey
Box 25046, Mail Stop 939
Denver Federal Center
Denver, CO 80225-0046

Telephone: (303) 236-5796
E-mail: schenk@usgs.gov

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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.

Contained on this CD-ROM are tabular data and graphical images in support of the assessment. Chapter three contains tabular data and graphical images in support of the undiscovered, technically recoverable coalbed-gas resources in Cretaceous and Tertiary rocks, North Slope and adjacent State waters, Alaska assessment. The chapter text PDF contains links to the data and images. Data-table files are presented as tab-delimited text files (.tab files), usable in spreadsheet and database software. Graphical and summary-table files are presented as portable document format files (.pdf files).

The USGS Central Energy Resources Team 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 provided online at the USGS National Oil and Gas Assessment Web site (NOGA Online: <http://energy.cr.usgs.gov/oilgas/noga>) and are also contained on this CD-ROM in the

spatial folder. GIS information is presented in the Spatial folder and its subdirectories that contain the spatial data and documentation. The Spatial\Doc folder contains metadata for the North Slope and Adjacent State Waters, Alaska spatial data in .htm format. The Spatial\Shape folder contains ArcView\ArcGIS shapefiles used in the GIS project. 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://nmviewogc.cr.usgs.gov/viewer.htm>.

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

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



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